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# Tables of Electron Radial Functions and Tangents of Phase Shifts for Light Nuclei ( $Z=1$ through 10)

C. P. Bhalla

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## Contents

	Page
I. Introduction .....	v
II. Formulation of the problem .....	vi
III. Computational procedure .....	viii
A. Relevant formulas .....	viii
B. Numerical approximations .....	ix
IV. Explanation of the tables .....	x
A. Format .....	x
B. Use of the tables .....	x
V. Acknowledgements .....	x
VI. References .....	x
VII. Tables .....	1
<p><math>f_\kappa, g_\kappa, \tan \delta_\kappa</math> for <math>\kappa = \pm 1</math> and <math>\kappa = \pm 2</math> corresponding to a uniform charge distribution inside a nucleus of radius <math>\rho</math>, and <math>F_0</math> for a point-nucleus in the following cases:</p>	
A. Electrons, $\rho = 1.2A^{1/3}10^{-13}$ cm and $Z = 1$ through 10.....	2
B. Positrons, $\rho = 1.2A^{1/3}10^{-13}$ cm and $Z = 1$ through 10.....	142
C. Electrons, $\rho = 1.3A^{1/3}10^{-13}$ cm and $Z = 6$ and 7.....	282
D. Positrons, $\rho = 1.3A^{1/3}10^{-13}$ cm and $Z = 6$ and 7.....	310
E. Electrons, $\rho = 1.1A^{1/3}10^{-13}$ cm and $Z = 6$ and 7.....	338
F. Positrons, $\rho = 1.1A^{1/3}10^{-13}$ cm and $Z = 6$ and 7.....	366



# Tables of Electron Radial Functions and Tangents of Phase Shifts for Light Nuclei ( $Z=1$ through 10)

C. P. Bhalla\*

To facilitate the theoretical analyses of beta-decay experiments in light nuclei electronic radial wave functions, evaluated at the nuclear radius, and tangents of phase-shifts are tabulated for total angular momentum equal to  $1/2$  and  $3/2$ . Separate tables for electrons and positrons are given for ten values of  $Z$ , starting from  $Z$  equal to one, in steps of unity and for beta momentum values from 0.1 mc to 42.0 mc in steps of 0.1 mc. The nucleus is represented as a sphere with uniform charge distribution. The nuclear radius,  $\rho$ , is taken to be  $1.2A^{1/3}10^{-13}$  cm in the major body of these tables. However, additional tables for  $Z=6$  and  $Z=7$  are given for  $\rho=1.1A^{1/3}10^{-13}$  cm and  $\rho=1.3A^{1/3}10^{-13}$  cm.

## I. Introduction

For the analyses of beta-decay experiments one needs to know electronic radial functions,  $f_\kappa$  and  $g_\kappa$ , and some appropriate combinations of sines and/or cosines of the phase shift,  $\delta_\kappa$ , (the total angular momentum,  $j$ , being equal to  $|\kappa|-1/2$ ). In this Monograph  $f_\kappa$ ,  $g_\kappa$ , and  $\tan \delta_\kappa$  for  $\kappa=\pm 1$  and  $\kappa=\pm 2$  are tabulated by assuming a smeared charge distribution inside a nucleus. The Fermi function,  $F_0$ , for the Coulomb field potential of a point nucleus is also tabulated.  $Z$ -values range from 1 through 10 with beta momentum in mc units varying from 0.1 to a maximum value of 42.0 at intervals of 0.1.

From time to time several investigators have made available tables for the analyses of beta-decay experiments. The first such extensive tables were published by the National Bureau of Standards [1]<sup>1</sup> in 1952. A Coulomb potential of a point-charge nucleus was used. The Fermi functions were tabulated by using the nuclear radius,  $\rho$ , equal to  $1.37A^{1/3}10^{-13}$  cm. In subsequent years Rose and his collaborators [2, 3, 4] made significant improvements over the original NBS publication. For example, Rose, Perry, and Dismuke [2] published tables to include the forbidden beta transitions. The effects arising from the finite de Broglie wavelength [3] were incorporated by considering the contribution of higher order terms in the evaluation of the confluent hypergeometric function. This confluent hypergeometric function occurs in the expression for the relativistic radial function in the case of a Coulomb potential for a point-nucleus. In the calculations of Rose et al., [2]  $\rho$  was taken to be equal to  $1.4A^{1/3}10^{-13}$  cm. These tables, due to Rose, Perry, and Dismuke, were used for the analyses of beta-shape factors but were not adequate for the analyses of  $\beta-\gamma$  correlation experiments. At about the same time, Reitz [5] was the first to report on extensive numerical calculations of Fermi functions with atomic screening potential and for a point nucleus. Significant corrections were found for low energy posi-

trons. Fortunately, however, because of the smallness of the statistical factor for such low energy ( $\sim 1.01$  mc<sup>2</sup>) positrons the screening corrections can safely be ignored in most calculations of the Fermi functions.

As it is well known, the variety of the experiments in beta decay increased by orders of magnitude when the prediction of parity violation by Lee and Yang [6] was confirmed experimentally [7]. In the analyses of the postparity experiments, new combinations of  $f_\kappa$ ,  $g_\kappa$ , and  $\tan \delta_\kappa$  are required. All of the earlier tables on beta-decay functions were inadequate for this purpose. Furthermore, it turns out that some of the radial functions are very sensitive to the finite nuclear size effects which arise from the fact that the nucleus is better represented by a smeared charge distribution than by a point nucleus. This was pointed out by Rose [8]. Recognizing a need for accurate tabulated functions, Bhalla and Rose [9] prepared tables of  $f_\kappa$ ,  $g_\kappa$ , and  $\tan \delta_\kappa$  for  $\kappa=\pm 1$  and  $\kappa=\pm 2$  for a finite nuclear charge distribution. Numerical results correspond to  $\rho=1.2A^{1/3}10^{-13}$  cm. The extensive tables of Bhalla and Rose did not extend below  $Z=10$ , and to high beta momentum values. This Monograph is intended to fill this need.

This Monograph, supplemented by ORNL-3207 [9], should eliminate completely the need for use of approximate formulas (e.g. those of Kotani and Ross [10]). This is especially so because accurate beta-decay functions can be conveniently calculated in as little time as would be required by the use of approximate formulas. Furthermore, it turns out that in the empirical evaluation of nuclear matrix elements [11] the use of accurate beta-decay functions is most desirable.

The formulation of the problem has been summarized in sec. II. This is followed in sec. III by a discussion of the methods used in the numerical calculations. Sec. IV contains a detailed explanation to facilitate the use of the present tables.

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<sup>1</sup>Figures in brackets indicate the literature references on page X.

## II. Formulation of the Problem

The relevant theory has already been described in the literature [12, 4]. For the sake of completeness and reference, we describe the general formalism.

Throughout this work we use the rationalized units:  $\hbar = m = c = 1$ . We express the solution of the Dirac equation,

$$[-\alpha \cdot \mathbf{p} - \beta + V(r)] \psi_\kappa^\mu = W \psi_\kappa^\mu \quad (1)$$

$$\psi_\kappa^\mu = \begin{pmatrix} -if_\kappa(r)\chi_\kappa^\mu \\ g_\kappa(r)\chi_\kappa^\mu \end{pmatrix} \quad (2)$$

where  $\chi_\kappa^\mu$  is the familiar spin angular function [13]:

$$\chi_\kappa^\mu = \sum_\tau C(l_\kappa \frac{1}{2} j; \tau, \mu - \tau) \chi_{l_\kappa}^\tau Y_{l_\kappa}^{\mu - \tau}$$

$V(r)$  is the potential energy of an electron in the field of a uniform charge distribution, i.e.:

$$V(r) = -\frac{\alpha Z}{2\rho} [3 - (r/\rho)^2] \text{ for } r < \rho$$

$$V(r) = -\frac{\alpha Z}{r} \text{ for } r > \rho \quad (3)$$

The nuclear radius,  $\rho$ , is in units of  $\hbar/mc$ .  $W$  is energy in  $mc^2$  units. The fine structure constant,  $\alpha$ , is equal to (1/137.037). The subscript  $\kappa$ , which can be a positive or negative integer but never equal to zero, specifies the total angular momentum,  $j$ , and the orbital angular momentum,  $l$ .

$$j = |\kappa| - 1/2$$

$$l = \kappa \text{ for } \kappa > 0$$

and  $l = -(\kappa + 1) \text{ for } \kappa < 0.$  (4)

Normalization of  $f_\kappa(r)$  and  $g_\kappa(r)$  was taken to correspond to one particle in a sphere of unit radius. The asymptotic behavior of the radial functions is given by

$$rf_\kappa \rightarrow -\left(\frac{W-1}{W}\right)^{1/2} \sin\left(pr + \frac{\alpha Z W}{p} \ln 2pr + \delta_\kappa\right) \quad (5a)$$

$$rg_\kappa \rightarrow \left(\frac{W+1}{W}\right)^{1/2} \cos\left(pr + \frac{\alpha Z W}{p} \ln 2pr + \delta_\kappa\right) \quad (5b)$$

$$W = (p^2 + 1)^{1/2}$$

In eqs (5)  $\delta_\kappa$  represents the phase shift, exclusive of the log term. The radial functions  $f_\kappa(r)$  and  $g_\kappa(r)$  obey two coupled first order equations:

$$\frac{d}{dr}[rf_\kappa(r)] = \frac{\kappa}{r}[rf_\kappa(r)] - [W - 1 - V(r)][rg_\kappa(r)] \quad (6a)$$

$$\frac{d}{dr}[rg_\kappa(r)] = [W + 1 - V(r)][rf_\kappa(r)] - \frac{\kappa}{r}[rg_\kappa(r)] \quad (6b)$$

We represent by  $F_\kappa(r)/r$  and  $G_\kappa(r)/r$  the (regular) radial functions for a point nucleus. The solution of eq (1) in our notation with  $V(r) = -\frac{\alpha Z}{r}$  for  $r \geq 0$  is:

$$\Psi_\kappa^\mu = \begin{pmatrix} -\frac{iF_\kappa(r)\chi_\kappa^\mu}{r} \\ \frac{G_\kappa(r)}{r}\chi_\kappa^\mu \end{pmatrix} \quad (7)$$

The asymptotic behavior of  $F_\kappa(r)$  and  $G_\kappa(r)$  is given by eqs (5) with  $\delta_\kappa$  replaced by  $\delta'_\kappa$ , where [13]

$$\delta'_\kappa = -\arg \Gamma(\gamma_\kappa + iy) + \eta_\kappa - 1/2\pi\gamma_\kappa \quad (8)$$

We use the standard notation:

$$\gamma_\kappa = [\kappa^2 - (\alpha Z)^2]^{1/2} \quad (9a)$$

$$y = \alpha Z W / p \quad (9b)$$

$$e^{2i\eta_\kappa} = -\frac{(\kappa - i\alpha Z/p)}{(\gamma_\kappa + iy)} \quad (9c)$$

The irregular solution for the Coulomb potential of a point source is denoted by  $\bar{F}_\kappa(r)$  and  $\bar{G}_\kappa(r)$ , which can be obtained by replacing  $\gamma_\kappa$  by  $-\gamma_\kappa$  in the expressions for  $F_\kappa(r)$  and  $G_\kappa(r)$  respectively. Following Rose [13], we have

$$\begin{pmatrix} F_\kappa(r) \\ G_\kappa(r) \end{pmatrix} = \frac{(1 \mp W)^{1/2}}{W^{1/2}} (2pr)^{\gamma_\kappa} e^{\pi y/2} \frac{|\Gamma(\gamma_\kappa + iy)|}{\Gamma(2\gamma_\kappa + 1)}$$

$$1/2 \left\{ \begin{matrix} e^{-ipr + i\eta(\gamma_\kappa + iy)} \\ {}_1F_1(\gamma_\kappa + 1 + iy, 2\gamma_\kappa + 1; 2ipr) \mp \text{c.c.} \end{matrix} \right\} \quad (10a)$$

where the upper and lower signs refer to  $F_\kappa(r)$  and  $G_\kappa(r)$  respectively. For  $F_\kappa(r)$  we have  $(1 - W)^{1/2} = +i(W - 1)^{1/2}$ . The confluent hypergeometric function can be represented by the following series:

$${}_1\bar{F}_1(a, b, z) = \frac{\Gamma(b)}{\Gamma(a)} \sum_{m=0}^{\infty} \frac{\Gamma(a+m)}{\Gamma(b+m)} \frac{z^m}{m!} \quad (10b)$$

over the entire complex plane  $|z| < \infty$ . We repre-



sent by  $\frac{F_\kappa^i(r)}{r}$  and  $\frac{G_\kappa^i(r)}{r}$  the solution of the Dirac equation, eq (1), for  $r \leq \rho$ . The superscript  $i$  has been used to denote the radial functions inside the nucleus.

Our definitions imply, then, that

$$\left. \begin{aligned} rf_\kappa(r) &= A_\kappa F_\kappa^i(r) \\ rg_\kappa(r) &= A_\kappa G_\kappa^i(r) \end{aligned} \right\} \text{ for } r \leq \rho \quad (11)$$

and

$$\left. \begin{aligned} rf_\kappa(r) &= B_\kappa F_\kappa(r) + C_\kappa \bar{F}_\kappa(r) \\ rg_\kappa(r) &= B_\kappa G_\kappa(r) + C_\kappa \bar{G}_\kappa(r) \end{aligned} \right\} \text{ for } r \geq \rho \quad (12)$$

In eqs (11) and (12),  $A_\kappa$ ,  $B_\kappa$ , and  $C_\kappa$  are parameters to be determined so as to satisfy the conditions of continuity of radial functions at  $r = \rho$  and the normalization of  $f_\kappa(r)$  and  $g_\kappa(r)$ . The normalization corresponding to one particle in a sphere of unit radius gives from eqs (12) and (5):

$$B_\kappa^2 + C_\kappa^2 + 2B_\kappa C_\kappa \cos(\delta'_\kappa - \bar{\delta}'_\kappa) = 1 \quad (13a)$$

where

$$\begin{aligned} \delta'_\kappa - \bar{\delta}'_\kappa &= -\arg \Gamma(\gamma_\kappa + iy) \\ &+ \arg \Gamma(-\gamma_\kappa + iy) + \eta_\kappa + \bar{\eta}_\kappa - \pi\gamma_\kappa \end{aligned} \quad (13b)$$

Here we have made use of the relevant asymptotic behavior of the Coulomb regular and irregular radial functions.

From now onwards, when we do not give the argument of a function, it will imply that this quantity is evaluated at the nuclear radius i.e.  $r = \rho$ . The continuity of the radial functions gives from eqs (11) and (12):

$$A_\kappa = \left( \frac{F_\kappa \bar{G}_\kappa - G_\kappa \bar{F}_\kappa}{F_\kappa^i \bar{G}_\kappa^i - G_\kappa^i \bar{F}_\kappa^i} \right) B_\kappa \quad (14)$$

Similarly, we obtain

$$C_\kappa = \left( \frac{F_\kappa G_\kappa^i - F_\kappa^i G_\kappa}{\bar{G}_\kappa F_\kappa^i - \bar{F}_\kappa G_\kappa^i} \right) B_\kappa \quad (15)$$

For the sake of convenience, we define  $H_\kappa$  so that

$$C_\kappa = H_\kappa B_\kappa \quad (16)$$

where

$$H_\kappa = \left( \frac{F_\kappa / G_\kappa - F_\kappa^i / G_\kappa^i}{F_\kappa^i / G_\kappa^i - \bar{F}_\kappa / \bar{G}_\kappa} \right) G_\kappa / \bar{G}_\kappa \quad (17)$$

Substituting for  $C_\kappa$  (from eq (16)) in eq (13a) gives

$$B_\kappa = [1 + H_\kappa^2 + 2H_\kappa \cos(\delta'_\kappa - \bar{\delta}'_\kappa)]^{-1/2} \quad (18)$$

To evaluate  $f_\kappa(r)$  and  $g_\kappa(r)$  for  $r$  equal to the nuclear radius,  $\rho$ , one uses the following relations:

$$\rho f_\kappa = A_\kappa F_\kappa^i \quad (19)$$

and

$$\rho g_\kappa = A_\kappa G_\kappa^i \quad (20)$$

where  $A_\kappa$  is given by eq (14). Using eq (14) in eq (20), one gets

$$g_\kappa = B_\kappa \left( \frac{F_\kappa / G_\kappa - \bar{F}_\kappa / \bar{G}_\kappa}{F_\kappa^i / G_\kappa^i - \bar{F}_\kappa / \bar{G}_\kappa} \right) G_\kappa / \rho. \quad (21)$$

$f_\kappa$  can be calculated from the following:

$$f_\kappa = (F_\kappa^i / G_\kappa^i) g_\kappa \quad (22)$$

This, then, completes the derivation for  $f_\kappa$  and  $g_\kappa$ .

For the calculation of the tangent of the phase shift,  $\delta_\kappa$ , defined in eq (5), we proceed as follows. We make use of eq (12) and the asymptotic behavior of  $f_\kappa(r)$ ,  $g_\kappa(r)$ ,  $F_\kappa(r)$ , and  $G_\kappa(r)$ . After simplification, we obtain:

$$\tan \delta_\kappa = \left[ \frac{-a_0 + a_1 \tan \eta_\kappa + H_\kappa \frac{\cos \bar{\eta}_\kappa}{\cos \eta_\kappa} (a_2 + a_3 \tan \eta_\kappa)}{a_1 + a_0 \tan \eta_\kappa + H_\kappa \frac{\cos \bar{\eta}_\kappa}{\cos \eta_\kappa} (a_3 - a_2 \tan \bar{\eta}_\kappa)} \right] \quad (23a)$$

where

$$\begin{aligned} a_0 &= a_4 \sin(\pi\gamma_\kappa/2) + a_5 \cos(\pi\gamma_\kappa/2) \\ a_1 &= a_4 \cos(\pi\gamma_\kappa/2) - a_5 \sin(\pi\gamma_\kappa/2) \\ a_2 &= a_6 \sin(\pi\gamma_\kappa/2) - a_7 \cos(\pi\gamma_\kappa/2) \\ a_3 &= a_6 \cos(\pi\gamma_\kappa/2) + a_7 \sin(\pi\gamma_\kappa/2) \end{aligned} \quad (23b)$$

with

$$a_4 \equiv \operatorname{Re} \frac{\Gamma(\gamma_\kappa + iy)}{|\Gamma(\gamma_\kappa + iy)|}, \quad a_5 \equiv \operatorname{Im} \frac{\Gamma(\gamma_\kappa + iy)}{|\Gamma(\gamma_\kappa + iy)|} \quad (23c)$$

$$a_6 \equiv \operatorname{Re} \frac{\Gamma(\gamma_\kappa + iy)}{|\Gamma(-\gamma_\kappa + iy)|}, \quad a_7 \equiv \operatorname{Im} \frac{\Gamma(-\gamma_\kappa + iy)}{|\Gamma(-\gamma_\kappa + iy)|}$$

### III. Computational Procedure

#### A. Relevant Formulas

The functions, to be evaluated, are  $f_\kappa$ ,  $g_\kappa$  at the nuclear radius,  $\tan \delta_\kappa$  for  $\kappa = \pm 1$  and  $\kappa = \pm 2$ , and the Fermi function,  $F_0$ . We define the Fermi function as follows:

$$F_0 = 4(2p\rho)^{2(\gamma_1-1)} e^{\pi y} \frac{|\Gamma(\gamma_1 + iy)|^2}{(\Gamma(1 + 2\gamma_1))^2} \quad (24)$$

It may be noted that our definition of  $F_0$  differs slightly (by a factor of  $\frac{1+\gamma_1}{2}$ ) from the definition used by some others.

The relevant equations were derived in sec. II and are given in eqs (21), (22), and (23) with definitions in eqs (18), (13b), and (10). It should be noted that the ratios of radial functions (e.g.  $F_\kappa/G_\kappa$ ) are independent of the choice of a phase convention, and such ratios are readily evaluated in a relatively short computer time. The appropriate ratios of radial functions can be obtained from the coupled first-order equations. (see for example eq (6)). As an illustration, let us consider the evaluation of  $F_\kappa/G_\kappa$ . The relevant equations are (for an electron):

$$\begin{aligned} \frac{dF_\kappa(r)}{dr} &= \frac{\kappa}{r} F_\kappa(r) - \left( W - 1 + \frac{\alpha Z}{r} \right) G_\kappa(r) \\ \frac{dG_\kappa(r)}{dr} &= \left( W + 1 + \frac{\alpha Z}{r} \right) F_\kappa(r) - \frac{\kappa}{r} G_\kappa(r) \end{aligned} \quad (25)$$

Making use of the following series expansions we obtain

$$F_\kappa(r) = C_f r^\gamma \sum_{n=0}^{\infty} S_n \left( \frac{r}{\rho} \right)^n \quad (26a)$$

$$G_\kappa(r) = C_g r^\gamma \sum_{n=0}^{\infty} T_n \left( \frac{r}{\rho} \right)^n \quad (26b)$$

given the appropriate recurrence relations

$$S_n = -\frac{\alpha Z \rho}{n(n+2\gamma_\kappa)} \left[ \frac{(W-1)(\gamma_\kappa+n+\kappa)}{\kappa+\gamma_\kappa} T_{n-1} + (W+1)S_{n-1} \right] \quad (27)$$

$$T_n = \frac{\alpha Z \rho}{n(n+2\gamma_\kappa)} \left[ \frac{(W+1)(\gamma_\kappa+n-\kappa)}{\kappa-\gamma_\kappa} S_{n-1} - (W-1)T_{n-1} \right]$$

with

$$\frac{C_f}{C_g} = \frac{\gamma_\kappa + \kappa}{\alpha Z} \quad (28)$$

We take  $S_0 = T_0 = 1$ . This leads to

$$\frac{F_\kappa}{G_\kappa} = \frac{\gamma_\kappa + \kappa \sum_{n=0}^{\infty} S_n}{\alpha Z \sum_{n=0}^{\infty} T_n} \quad (29)$$

Similarly,

$$\frac{\bar{F}_\kappa}{\bar{G}_\kappa} = \frac{-\gamma_\kappa + \kappa \sum_{n=0}^{\infty} \bar{S}_n}{\alpha Z \sum_{n=0}^{\infty} \bar{T}_n} \quad (30)$$

where  $\bar{S}_n$  and  $\bar{T}_n$  are obtained from eqs (27) by replacing  $\gamma$  by  $-\gamma$  and setting  $\bar{S}_0 = \bar{T}_0 = 1$ .

For  $\kappa < 0$ ,  $F_\kappa^i/G_\kappa^i$  can be calculated from eq (6) by the substitution:

$$F_\kappa^i(r) = r^{|\kappa|+1} \sum_{n=0}^{\infty} b_n (r/\rho)^{2n} \quad (31)$$

$$G_\kappa^i(r) = r^{|\kappa|} \sum_{n=0}^{\infty} b'_n (r/\rho)^{2n}$$

After simplifying, one obtains these recurrence relations:

$$(2n+2|\kappa|+1)b_n = -\left[ W-1 + \frac{3\alpha Z}{2\rho} \right] b'_n + \frac{\alpha Z}{2\rho} b'_{n-1}$$

and

$$\frac{2nb'_n}{\rho^2} = \left[ W+1 + \frac{3\alpha Z}{2\rho} \right] b_{n-1} - \frac{\alpha Z}{2\rho} b_{n-2}$$

We take

$$b'_0 = 1, \text{ and } b_0 = -\frac{W-1+3\alpha Z/2\rho}{2|\kappa|+1} \quad (33)$$

Thus,

$$\frac{F_\kappa^i}{G_\kappa^i} = \rho \frac{\sum_{n=0}^{\infty} b_n}{\sum_{n=0}^{\infty} b'_n} \text{ for } \kappa < 0 \quad (34)$$

A corresponding expression for  $\kappa > 0$  can immediately be obtained by interchanging  $F_\kappa^i$  and  $G_\kappa^i$  and by changing the signs of  $W$  and  $Z$  in eqs (31).

At this stage, we observe that whereas  $H_\kappa$  and  $\cos(\delta'_\kappa - \bar{\delta}'_\kappa)$  do depend on any particular choice of phase convention,  $H_\kappa \cos(\delta'_\kappa - \bar{\delta}'_\kappa)$  is independent

of these considerations. Consequently,  $B_\kappa$  does not have any phase ambiguity. In the evaluation of  $B_\kappa$  we made use of the following relationships:

$$\frac{G_\kappa}{\bar{G}_\kappa} = \sigma_\kappa \frac{\sum_{n=0}^{\infty} T_n}{\sum_{n=0}^{\infty} \bar{T}_n} \quad (35a)$$

where

$$\sigma_\kappa \equiv (2\rho\rho)^{2\gamma_\kappa} \frac{|\Gamma(\gamma_\kappa + iy)| |\Gamma(1 - 2\gamma_\kappa)| (W\kappa - \gamma_\kappa)}{|\Gamma(-\gamma_\kappa + iy)| |\Gamma(1 + 2\gamma_\kappa)| (W\kappa + \gamma_\kappa)} \frac{\cos \eta_\kappa}{\cos \bar{\eta}_\kappa} \quad (35b)$$

and

$$\frac{\cos \eta_\kappa}{\cos \bar{\eta}_\kappa} = \left[ \frac{(\kappa - \gamma_\kappa)}{(\kappa + \gamma_\kappa)} \cdot \frac{(\kappa W + \gamma_\kappa)}{(\kappa W - \gamma_\kappa)} \right]^{1/2} \quad (35c)$$

$$\begin{aligned} \cos(\delta'_\kappa - \bar{\delta}'_\kappa) &\equiv \operatorname{Re} \exp \left[ \arg \Gamma(-\gamma_\kappa + iy) \right. \\ &\quad \left. - \arg \Gamma(\gamma_\kappa + iy) + \eta_\kappa - \bar{\eta}_\kappa - \pi\gamma_\kappa \right] \\ &= \frac{1}{(\gamma_\kappa^2 + y^2)^{1/2}} \left[ y \cos \pi\gamma_\kappa \right. \\ &\quad \left. + \gamma_\kappa \sin \pi\gamma_\kappa \right] \operatorname{Re} \frac{\Gamma(-\gamma_\kappa + iy)}{|\Gamma(-\gamma_\kappa + iy)|} \\ &\quad \cdot \frac{|\Gamma(\gamma_\kappa + iy)|}{\Gamma(\gamma_\kappa + iy)} + \frac{1}{(\gamma_\kappa^2 + y^2)^{1/2}} \left[ \gamma_\kappa \cos \pi\gamma_\kappa \right. \\ &\quad \left. - y \sin \pi\gamma_\kappa \right] \operatorname{Im} \frac{\Gamma(-\gamma_\kappa + iy)}{|\Gamma(-\gamma_\kappa + iy)|} \\ &\quad \cdot \frac{|\Gamma(\gamma_\kappa + iy)|}{\Gamma(\gamma_\kappa + iy)} \quad (35d) \end{aligned}$$

In the above equation, Re and Im imply the real part and the imaginary part of the respective quantities.

From eq (10),

$$\begin{aligned} \frac{G_\kappa}{\rho} &= \left( \frac{W+1}{W} \right)^{1/2} \frac{(2\rho\rho)^{\gamma_\kappa}}{\rho} \frac{|\Gamma(\gamma_\kappa + iy)|}{\Gamma(1 + 2\gamma)} \cdot \cos \eta_\kappa \\ &\quad \{ \cos p\rho[(\gamma_\kappa U_\kappa - yV_\kappa) - (\gamma_\kappa V_\kappa + yU_\kappa) \tan \eta_\kappa] \\ &\quad + \sin p\rho[(\gamma_\kappa U_\kappa - yV_\kappa) \tan \eta_\kappa + (\gamma_\kappa V_\kappa + yU_\kappa)] \} \quad (36a) \end{aligned}$$

where  $U_\kappa$  and  $V_\kappa$  are real and are defined by

$$U_\kappa + iV_\kappa = F(\gamma_\kappa + 1 + iy, 2\gamma_\kappa + 1, 2i\rho\rho). \quad (36b)$$

## B. Numerical Approximations

(i) The nuclear radius,  $\rho$ , equal to  $1.2 A^{1/3} 10^{-13}$  cm ( $0.42585 \alpha A^{1/3}$   $\hbar/\text{mc}$ ) was used in the major body of the present tables. However, for purposes of illustration, numerical results are also presented for  $Z=6$  and  $Z=7$  by taking  $\rho = 1.3 A^{1/3} 10^{-13}$  cm ( $0.46134 \alpha A^{1/3}$   $\hbar/\text{mc}$ ) and  $\rho = 1.1 A^{1/3} 10^{-13}$  cm ( $0.39036 \alpha A^{1/3}$   $\hbar/\text{mc}$ ). It may be noted that a value of  $\rho = 0.4276 \alpha A^{1/3}$   $\hbar/\text{mc}$  was employed in ORNL-3207.

(ii) In the evaluation of  $S_n$ ,  $T_n$ ,  $\bar{S}_n$ ,  $\bar{T}_n$ ,  $b_n$ ,  $b'_n$  and other similar coefficients, the series were terminated when the last coefficient became less than  $10^{-8}$ .

(iii) The confluent hypergeometric series was terminated when both the real part and the imaginary part became less than  $10^{-8}$ .

(iv) Complex gamma functions [14] were obtained from

$$\begin{aligned} \Gamma(Z) &= e^{-Z} Z^{Z-1/2} (2\pi)^{1/2} \{ 1 + 1/12Z + 1/288Z^2 \\ &\quad - 139/51840Z^3 - 571/2488320Z^4 + 0(1/Z^5) \} \end{aligned}$$

The argument,  $Z$ , was first tested whether  $\operatorname{Re}Z > 10$ . When this argument did not satisfy this condition, the recurrence relation,  $\Gamma(Z+1) = Z\Gamma(Z)$ , was used until  $\operatorname{Re}Z > 10$ . The accuracy in this calculation was better than 1 part in  $10^6$ .

(v) The real gamma functions were evaluated by the following formula

$$\begin{aligned} &\text{For } -1/2 \leq x < 1/2 \\ \Gamma(1+x) &= \left[ \frac{(1-x)}{(1+x)} \frac{\pi x}{\sin \pi x} \right]^{1/2} e^{-\lambda} \end{aligned}$$

where

$$\lambda = \sum_{n=1}^{10} C_{2n-1} x^{2n-1}$$

with the values of the coefficients  $C_{2n-1}$  taken from reference [15]. The arguments of the real gamma functions were reduced by the following recurrence relations:

$$\Gamma(1+x) = x\Gamma(x) \text{ for } 1/2 \leq x$$

and

$$\Gamma(1+x) = \frac{\pi x}{\Gamma(1+|x|) \sin \pi x} \text{ for } x < -1/2$$

An accuracy of seven significant figures was accomplished.

The calculations were performed on the IBM 7094 of the National Bureau of Standards.

## IV. Explanation of the Tables

### A. Format

In this Monograph,  $Z$  and  $A$  are the atomic number and the mass number, respectively, of the daughter nucleus. The parent nucleus is, then, specified by  $Z-1$  and  $A$  for electron decays, and by  $Z+1$  and  $A$  for positron decays. The value of the nuclear radius,  $\rho$ , in fermis, is listed on the top of each page. The subscripts of  $f_\kappa$ ,  $g_\kappa$  and  $\tan \delta_\kappa$  specify the total angular momentum and the orbital angular momentum (see eq (4)). For purposes of reference only, the Fermi function,  $F_0$ , is also tabulated for a point nucleus. Another quantity labeled  $\bar{F}$  is given for a convenient format.

Each entry, except for beta momentum, is given in the format of a signed mantissa followed by a signed exponent to the base 10: blank space indicates + sign. For example, a number listed as 1.23456 E 07 implies  $1.23456 \times (10)^7$ , and an entry of 1.23456 E-07 means  $1.23456 \times 10^{-7}$ .

### B. Use of the Tables

At the very outset we wish to point out that we have not included the corrections arising from atomic screening.

The Fermi function corresponding to a smeared charge distribution should be calculated by

$$\text{Fermi function} = (f_1^2 + g_1^2)/2p^2.$$

In our calculations we have taken the normalization of  $f_\kappa$  and  $g_\kappa$  corresponding to a sphere of unit radius. To convert the numerical results to a nor-

malization per unit energy, the radial functions should be multiplied by  $(W/\pi\rho)^{1/2}$ .

Since we tabulate  $\tan \delta_{|\kappa|}$  and  $\tan \delta_{-|\kappa|}$ , the following prescription may be used in the calculation of  $\sin(\delta_\kappa - \delta_{\kappa'})$  and  $\cos(\delta_\kappa - \delta_{\kappa'})$ :

For  $\beta^+$  particles,

$$\cos(\delta_\kappa - \delta_{\kappa'}) = \frac{1 + \tan \delta_\kappa \cdot \tan \delta_{\kappa'}}{[(1 + \tan^2 \delta_\kappa)(1 + \tan^2 \delta_{\kappa'})]^{1/2}}$$

and

$$\sin(\delta_\kappa - \delta_{\kappa'}) = \frac{\tan \delta_\kappa - \tan \delta_{\kappa'}}{[(1 + \tan^2 \delta_\kappa)(1 + \tan^2 \delta_{\kappa'})]^{1/2}}.$$

Also, whenever  $\tan \delta_{-1}$  is negative, the square root of  $(1 + \tan^2 \delta_{-1}^2)$  should be taken as negative.

For  $\beta^-$  particles,

$$\cos(\delta_\kappa - \delta_{\kappa'}) = \epsilon_{\kappa\kappa'} \frac{1 + \tan \delta_\kappa \tan \delta_{\kappa'}}{[(1 + \tan^2 \delta_\kappa)(1 + \tan^2 \delta_{\kappa'})]^{1/2}}$$

and

$$\sin(\delta_\kappa - \delta_{\kappa'}) = \epsilon_{\kappa\kappa'} \frac{\tan \delta_\kappa - \tan \delta_{\kappa'}}{[(1 + \tan^2 \delta_\kappa)(1 + \tan^2 \delta_{\kappa'})]^{1/2}}$$

where

$$\epsilon_{\kappa\kappa'} = 1 \text{ if } |\kappa| = |\kappa'|$$

$$\epsilon_{\kappa\kappa'} = -1 \text{ if } |\kappa| \neq |\kappa'|$$

The appropriate theoretical formulas relevant to nuclear beta decay appear in the literature [16].

## V. Acknowledgments

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VII. Tables of Electron Radial Functions and  
Tangents of Phase Shifts for Light Nuclei  
Corresponding to a Uniform Charge Distribution  
Inside a Nucleus of Radius  $\rho$

ELECTRON RADIAL FUNCTIONS

Electron	$Z=1$	$A=1$	$\rho=1.2A^{1/3}F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
0.10	1.24867 E 00	-7.68252 E-03	-3.83806 E-05	-3.08232 E-02	-4.61504 E-04	1.57827 E-01	-2.37740 E 01	01
0.20	1.12199 E 00	-2.93435 E-02	-1.47046 E-04	-1.53348 E-02	-8.76334 E-04	2.98127 E-01	-4.72954 E 01	01
0.30	1.08240 E 00	-6.39199 E-02	-3.21918 E-04	-1.01616 E-02	-1.29462 E-03	4.36700 E-01	-7.06127 E 01	01
0.40	1.06347 E 00	-1.10141 E-01	-5.58464 E-04	-7.56351 E-03	-1.71771 E-03	5.72810 E-01	-9.36312 E 01	01
0.50	1.05260 E 00	-1.66498 E-01	-8.51293 E-04	-5.99582 E-03	-2.14717 E-03	7.06025 E-01	-1.16284 E 02	02
0.60	1.04566 E 00	-2.31431 E-01	-1.19484 E-03	-4.94405 E-03	-2.58466 E-03	8.36163 E-01	-1.38523 E 02	02
0.70	1.04094 E 00	-3.03462 E-01	-1.58384 E-03	-4.18772 E-03	-3.03182 E-03	9.63240 E-01	-1.60310 E 02	02
0.80	1.03757 E 00	-3.81270 E-01	-2.01363 E-03	-3.61662 E-03	-3.49020 E-03	1.08741 E 00	-1.81624 E 02	02
0.90	1.03508 E 00	-4.63727 E-01	-2.48021 E-03	-3.16945 E-03	-3.96122 E-03	1.20891 E 00	-2.02450 E 02	02
1.00	1.03318 E 00	-5.49899 E-01	-2.98031 E-03	-2.80940 E-03	-4.44615 E-03	1.32799 E 00	-2.22782 E 02	02
1.10	1.03171 E 00	-6.39027 E-01	-3.51129 E-03	-2.51300 E-03	-4.94608 E-03	1.44495 E 00	-2.42620 E 02	02
1.20	1.03054 E 00	-7.30507 E-01	-4.07103 E-03	-2.26457 E-03	-5.46195 E-03	1.56004 E 00	-2.61969 E 02	02
1.30	1.02960 E 00	-8.23859 E-01	-4.65791 E-03	-2.05322 E-03	-5.99454 E-03	1.67350 E 00	-2.80837 E 02	02
1.40	1.02883 E 00	-9.18702 E-01	-5.27058 E-03	-1.87116 E-03	-6.54451 E-03	1.78555 E 00	-2.99233 E 02	02
1.50	1.02819 E 00	-1.01474 E 00	-5.90805 E-03	-1.71263 E-03	-7.11242 E-03	1.89638 E 00	-3.17169 E 02	02
1.60	1.02766 E 00	-1.11173 E 00	-6.56952 E-03	-1.57332 E-03	-7.69872 E-03	2.00615 E 00	-3.34658 E 02	02
1.70	1.02721 E 00	-1.20949 E 00	-7.25437 E-03	-1.44990 E-03	-8.30379 E-03	2.11500 E 00	-3.51711 E 02	02
1.80	1.02683 E 00	-1.30788 E 00	-7.96210 E-03	-1.33978 E-03	-8.92795 E-03	2.22305 E 00	-3.68342 E 02	02
1.90	1.02650 E 00	-1.40677 E 00	-8.69234 E-03	-1.24092 E-03	-9.57147 E-03	2.33041 E 00	-3.84565 E 02	02
2.00	1.02622 E 00	-1.50608 E 00	-9.44477 E-03	-1.15166 E-03	-1.02346 E-02	2.43716 E 00	-4.00392 E 02	02
2.10	1.02597 E 00	-1.60572 E 00	-1.02192 E-02	-1.07066 E-03	-1.09174 E-02	2.54339 E 00	-4.15836 E 02	02
2.20	1.02576 E 00	-1.70565 E 00	-1.10153 E-02	-9.96823 E-04	-1.16202 E-02	2.64914 E 00	-4.30909 E 02	02
2.30	1.02557 E 00	-1.80580 E 00	-1.18330 E-02	-9.29232 E-04	-1.23430 E-02	2.75449 E 00	-4.45625 E 02	02
2.40	1.02540 E 00	-1.90615 E 00	-1.26723 E-02	-8.67125 E-04	-1.30860 E-02	2.85948 E 00	-4.59995 E 02	02
2.50	1.02525 E 00	-2.00665 E 00	-1.35329 E-02	-8.09859 E-04	-1.38493 E-02	2.96414 E 00	-4.74030 E 02	02
2.60	1.02512 E 00	-2.10728 E 00	-1.44148 E-02	-7.56887 E-04	-1.46329 E-02	3.06851 E 00	-4.87741 E 02	02
2.70	1.02500 E 00	-2.20803 E 00	-1.53179 E-02	-7.07740 E-04	-1.54369 E-02	3.17264 E 00	-5.01138 E 02	02
2.80	1.02489 E 00	-2.30887 E 00	-1.62423 E-02	-6.62024 E-04	-1.62614 E-02	3.27653 E 00	-5.14233 E 02	02
2.90	1.02480 E 00	-2.40978 E 00	-1.71877 E-02	-6.19384 E-04	-1.71064 E-02	3.38022 E 00	-5.27035 E 02	02
3.00	1.02471 E 00	-2.51076 E 00	-1.81543 E-02	-5.79523 E-04	-1.79720 E-02	3.48372 E 00	-5.39554 E 02	02
3.10	1.02463 E 00	-2.61179 E 00	-1.91419 E-02	-5.42177 E-04	-1.88581 E-02	3.58706 E 00	-5.51798 E 02	02
3.20	1.02455 E 00	-2.71287 E 00	-2.01506 E-02	-5.07114 E-04	-1.97650 E-02	3.69024 E 00	-5.63776 E 02	02
3.30	1.02449 E 00	-2.81399 E 00	-2.11803 E-02	-4.74132 E-04	-2.06925 E-02	3.79329 E 00	-5.75498 E 02	02
3.40	1.02443 E 00	-2.91514 E 00	-2.22310 E-02	-4.43049 E-04	-2.16407 E-02	3.89622 E 00	-5.86970 E 02	02
3.50	1.02437 E 00	-3.01632 E 00	-2.33027 E-02	-4.13706 E-04	-2.26096 E-02	3.99903 E 00	-5.98200 E 02	02
3.60	1.02432 E 00	-3.11752 E 00	-2.43954 E-02	-3.85963 E-04	-2.35993 E-02	4.10173 E 00	-6.09197 E 02	02
3.70	1.02427 E 00	-3.21874 E 00	-2.55090 E-02	-3.59688 E-04	-2.46097 E-02	4.20435 E 00	-6.19967 E 02	02
3.80	1.02423 E 00	-3.31997 E 00	-2.66436 E-02	-3.34772 E-04	-2.56410 E-02	4.30687 E 00	-6.30517 E 02	02
3.90	1.02419 E 00	-3.42122 E 00	-2.77992 E-02	-3.11111 E-04	-2.66930 E-02	4.40932 E 00	-6.40855 E 02	02
4.00	1.02415 E 00	-3.52248 E 00	-2.89757 E-02	-2.88610 E-04	-2.77658 E-02	4.51169 E 00	-6.50984 E 02	02
4.10	1.02411 E 00	-3.62374 E 00	-3.01732 E-02	-2.67188 E-04	-2.88594 E-02	4.61399 E 00	-6.60913 E 02	02
4.20	1.02408 E 00	-3.72502 E 00	-3.13916 E-02	-2.46769 E-04	-2.99739 E-02	4.71623 E 00	-6.70648 E 02	02
4.30	1.02405 E 00	-3.82630 E 00	-3.26310 E-02	-2.27283 E-04	-3.11092 E-02	4.81841 E 00	-6.80192 E 02	02
4.40	1.02402 E 00	-3.92758 E 00	-3.38913 E-02	-2.08670 E-04	-3.22653 E-02	4.92054 E 00	-6.89554 E 02	02
4.50	1.02399 E 00	-4.02887 E 00	-3.51725 E-02	-1.90870 E-04	-3.34423 E-02	5.02261 E 00	-6.98737 E 02	02
4.60	1.02397 E 00	-4.13016 E 00	-3.64747 E-02	-1.73830 E-04	-3.46402 E-02	5.12464 E 00	-7.07746 E 02	02
4.70	1.02394 E 00	-4.23145 E 00	-3.77978 E-02	-1.57507 E-04	-3.58589 E-02	5.22663 E 00	-7.16587 E 02	02
4.80	1.02392 E 00	-4.33274 E 00	-3.91418 E-02	-1.41853 E-04	-3.70985 E-02	5.32857 E 00	-7.25264 E 02	02
4.90	1.02390 E 00	-4.43403 E 00	-4.05068 E-02	-1.26827 E-04	-3.83590 E-02	5.43048 E 00	-7.33781 E 02	02
5.00	1.02388 E 00	-4.53533 E 00	-4.18927 E-02	-1.12395 E-04	-3.96403 E-02	5.53235 E 00	-7.42143 E 02	02
5.10	1.02386 E 00	-4.63662 E 00	-4.32995 E-02	-9.85208 E-05	-4.09426 E-02	5.63418 E 00	-7.50354 E 02	02
5.20	1.02384 E 00	-4.73791 E 00	-4.47273 E-02	-8.51725 E-05	-4.22657 E-02	5.73599 E 00	-7.58419 E 02	02
5.30	1.02383 E 00	-4.83920 E 00	-4.61760 E-02	-7.23214 E-05	-4.36097 E-02	5.83776 E 00	-7.66341 E 02	02
5.40	1.02381 E 00	-4.94048 E 00	-4.76456 E-02	-5.99402 E-05	-4.49746 E-02	5.93951 E 00	-7.74123 E 02	02
5.50	1.02380 E 00	-5.04177 E 00	-4.91361 E-02	-4.80027 E-05	-4.63605 E-02	6.04123 E 00	-7.81770 E 02	02
5.60	1.02378 E 00	-5.14305 E 00	-5.06476 E-02	-3.64863 E-05	-4.77672 E-02	6.14292 E 00	-7.89285 E 02	02
5.70	1.02377 E 00	-5.24433 E 00	-5.21800 E-02	-2.53703 E-05	-4.91948 E-02	6.24459 E 00	-7.96672 E 02	02
5.80	1.02376 E 00	-5.34561 E 00	-5.37333 E-02	-1.46322 E-05	-5.06433 E-02	6.34624 E 00	-8.03934 E 02	02
5.90	1.02374 E 00	-5.44689 E 00	-5.53075 E-02	-4.25327 E-06	-5.21127 E-02	6.44787 E 00	-8.11073 E 02	02
6.00	1.02373 E 00	-5.54816 E 00	-5.69027 E-02	5.78288 E-06	-5.36031 E-02	6.54948 E 00	-8.18093 E 02	02

## ELECTRON RADIAL FUNCTIONS

$p$	Electron							
	$Z=1$	$A=1$	$\rho = 1.2 A^{1/3} F$					
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
0.10	3.36669E-09	-6.86458E-07	-2.00040E-09	1.47717E 01	-2.73900E-08	1.63908E-05	-3.11090E-02	
0.20	1.20526E-08	-5.87149E-06	-1.71641E-08	2.92753E 01	-1.03841E-07	6.18002E-05	-1.58929E-02	
0.30	2.61425E-08	-1.95560E-05	-5.74625E-08	4.31856E 01	-2.30122E-07	1.35739E-04	-1.09822E-02	
0.40	4.56513E-08	-4.52266E-05	-1.33819E-07	5.62911E 01	-4.07280E-07	2.37365E-04	-8.63540E-03	
0.50	7.05927E-08	-8.57206E-05	-2.55820E-07	6.84495E 01	-6.36781E-07	3.65689E-04	-7.30603E-03	
0.60	1.00978E-07	-1.43218E-04	-4.31699E-07	7.95900E 01	-9.20515E-07	5.19698E-04	-6.47839E-03	
0.70	1.36817E-07	-2.19312E-04	-6.68491E-07	8.97015E 01	-1.26077E-06	6.98448E-04	-5.93149E-03	
0.80	1.78117E-07	-3.15113E-04	-9.72251E-07	9.88175E 01	-1.66019E-06	9.01115E-04	-5.55510E-03	
0.90	2.24884E-07	-4.31366E-04	-1.34829E-06	1.07000E 02	-2.12173E-06	1.12701E-03	-5.28838E-03	
1.00	2.77124E-07	-5.68548E-04	-1.80140E-06	1.14325E 02	-2.64856E-06	1.37559E-03	-5.09520E-03	
1.10	3.34839E-07	-7.26950E-04	-2.33600E-06	1.20878E 02	-3.24407E-06	1.64641E-03	-4.95295E-03	
1.20	3.98032E-07	-9.06737E-04	-2.95625E-06	1.26740E 02	-3.91178E-06	1.93913E-03	-4.84689E-03	
1.30	4.66707E-07	-1.10800E-03	-3.66619E-06	1.31990E 02	-4.65532E-06	2.25351E-03	-4.76707E-03	
1.40	5.40864E-07	-1.33076E-03	-4.46973E-06	1.36700E 02	-5.47839E-06	2.58935E-03	-4.70663E-03	
1.50	6.20505E-07	-1.57502E-03	-5.37072E-06	1.40935E 02	-6.38477E-06	2.94650E-03	-4.66068E-03	
1.60	7.05631E-07	-1.84077E-03	-6.37302E-06	1.44751E 02	-7.37826E-06	3.32486E-03	-4.62572E-03	
1.70	7.96243E-07	-2.12797E-03	-7.48043E-06	1.48199E 02	-8.46270E-06	3.72434E-03	-4.59919E-03	
1.80	8.92342E-07	-2.43658E-03	-8.69678E-06	1.51324E 02	-9.64195E-06	4.14489E-03	-4.57916E-03	
1.90	9.93928E-07	-2.76658E-03	-1.00259E-05	1.54163E 02	-1.09199E-05	4.58646E-03	-4.56421E-03	
2.00	1.10100E-06	-3.11792E-03	-1.14715E-05	1.56750E 02	-1.23004E-05	5.04901E-03	-4.55323E-03	
2.10	1.21356E-06	-3.49058E-03	-1.30376E-05	1.59113E 02	-1.37874E-05	5.53253E-03	-4.54540E-03	
2.20	1.33161E-06	-3.88451E-03	-1.47279E-05	1.61278E 02	-1.53848E-05	6.03700E-03	-4.54005E-03	
2.30	1.45515E-06	-4.29970E-03	-1.65463E-05	1.63266E 02	-1.70964E-05	6.56240E-03	-4.53668E-03	
2.40	1.58418E-06	-4.73612E-03	-1.84965E-05	1.65097E 02	-1.89262E-05	7.10873E-03	-4.53489E-03	
2.50	1.71869E-06	-5.19374E-03	-2.05826E-05	1.66787E 02	-2.08781E-05	7.67597E-03	-4.53437E-03	
2.60	1.85870E-06	-5.67253E-03	-2.28083E-05	1.68350E 02	-2.29561E-05	8.26412E-03	-4.53485E-03	
2.70	2.00419E-06	-6.17249E-03	-2.51774E-05	1.69800E 02	-2.51639E-05	8.87319E-03	-4.53614E-03	
2.80	2.15518E-06	-6.69359E-03	-2.76940E-05	1.71147E 02	-2.75056E-05	9.50318E-03	-4.53807E-03	
2.90	2.31165E-06	-7.23582E-03	-3.03617E-05	1.72401E 02	-2.99850E-05	1.01541E-02	-4.54052E-03	
3.00	2.47361E-06	-7.79915E-03	-3.31846E-05	1.73572E 02	-3.26060E-05	1.08259E-02	-4.54336E-03	
3.10	2.64106E-06	-8.38359E-03	-3.61664E-05	1.74666E 02	-3.53726E-05	1.15186E-02	-4.54653E-03	
3.20	2.81400E-06	-8.98912E-03	-3.93112E-05	1.75690E 02	-3.82887E-05	1.22322E-02	-4.54994E-03	
3.30	2.99243E-06	-9.61572E-03	-4.26226E-05	1.76651E 02	-4.13582E-05	1.29667E-02	-4.55354E-03	
3.40	3.17635E-06	-1.02634E-02	-4.61047E-05	1.77554E 02	-4.45850E-05	1.37222E-02	-4.55728E-03	
3.50	3.36576E-06	-1.09931E-02	-4.97614E-05	1.78404E 02	-4.79729E-05	1.44985E-02	-4.56113E-03	
3.60	3.56066E-06	-1.16219E-02	-5.35965E-05	1.79205E 02	-5.15260E-05	1.52958E-02	-4.56504E-03	
3.70	3.76105E-06	-1.23327E-02	-5.76139E-05	1.79962E 02	-5.52482E-05	1.61140E-02	-4.56899E-03	
3.80	3.96693E-06	-1.30646E-02	-6.18175E-05	1.80676E 02	-5.91432E-05	1.69531E-02	-4.57297E-03	
3.90	4.17829E-06	-1.38175E-02	-6.62111E-05	1.81353E 02	-6.32151E-05	1.78131E-02	-4.57695E-03	
4.00	4.39515E-06	-1.45914E-02	-7.07989E-05	1.81994E 02	-6.74678E-05	1.86941E-02	-4.58092E-03	
4.10	4.61750E-06	-1.53864E-02	-7.55844E-05	1.82603E 02	-7.19052E-05	1.95960E-02	-4.58487E-03	
4.20	4.84533E-06	-1.62023E-02	-8.05718E-05	1.83181E 02	-7.65311E-05	2.05188E-02	-4.58878E-03	
4.30	5.07866E-06	-1.70393E-02	-8.57649E-05	1.83731E 02	-8.13495E-05	2.14625E-02	-4.59266E-03	
4.40	5.31748E-06	-1.78973E-02	-9.11676E-05	1.84254E 02	-8.63643E-05	2.24271E-02	-4.59648E-03	
4.50	5.56178E-06	-1.87763E-02	-9.67837E-05	1.84753E 02	-9.15794E-05	2.34127E-02	-4.60026E-03	
4.60	5.81158E-06	-1.96763E-02	-1.02617E-04	1.85229E 02	-9.69987E-05	2.44192E-02	-4.60398E-03	
4.70	6.06686E-06	-2.05973E-02	-1.08672E-04	1.85684E 02	-1.02626E-04	2.54466E-02	-4.60765E-03	
4.80	6.32764E-06	-2.15393E-02	-1.14952E-04	1.86119E 02	-1.08466E-04	2.64950E-02	-4.61125E-03	
4.90	6.59390E-06	-2.25023E-02	-1.21461E-04	1.86535E 02	-1.14521E-04	2.75643E-02	-4.61479E-03	
5.00	6.86566E-06	-2.34863E-02	-1.28203E-04	1.86933E 02	-1.20796E-04	2.86545E-02	-4.61827E-03	
5.10	7.14290E-06	-2.44913E-02	-1.35183E-04	1.87315E 02	-1.27295E-04	2.97656E-02	-4.62168E-03	
5.20	7.42564E-06	-2.55172E-02	-1.42402E-04	1.87681E 02	-1.34022E-04	3.08977E-02	-4.62503E-03	
5.30	7.71386E-06	-2.65642E-02	-1.49867E-04	1.88032E 02	-1.40980E-04	3.20507E-02	-4.62832E-03	
5.40	8.00757E-06	-2.76321E-02	-1.57580E-04	1.88370E 02	-1.48174E-04	3.32247E-02	-4.63154E-03	
5.50	8.30678E-06	-2.87210E-02	-1.65546E-04	1.88694E 02	-1.55607E-04	3.44196E-02	-4.63470E-03	
5.60	8.61148E-06	-2.98309E-02	-1.73768E-04	1.89007E 02	-1.63283E-04	3.56354E-02	-4.63780E-03	
5.70	8.92166E-06	-3.09618E-02	-1.82250E-04	1.89307E 02	-1.71207E-04	3.68721E-02	-4.64083E-03	
5.80	9.23733E-06	-3.21136E-02	-1.90997E-04	1.89597E 02	-1.79381E-04	3.81298E-02	-4.64380E-03	
5.90	9.55849E-06	-3.32865E-02	-2.00012E-04	1.89876E 02	-1.87811E-04	3.94084E-02	-4.64672E-03	
6.00	9.88515E-06	-3.44803E-02	-2.09299E-04	1.90145E 02	-1.96500E-04	4.07080E-02	-4.64957E-03	



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=1$		$A=1$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	1.02372E 00	-5.64943E 00	-5.85188E-02	1.54946E-05	-5.51144E-02	6.65106E 00	-8.24997E 02	02
6.20	1.02371E 00	-5.75070E 00	-6.01559E-02	2.48951E-05	-5.66465E-02	6.75263E 00	-8.31788E 02	02
6.30	1.02370E 00	-5.85197E 00	-6.18138E-02	3.40009E-05	-5.81996E-02	6.85419E 00	-8.38469E 02	02
6.40	1.02369E 00	-5.95323E 00	-6.34927E-02	4.28265E-05	-5.97736E-02	6.95572E 00	-8.45041E 02	02
6.50	1.02368E 00	-6.05448E 00	-6.51925E-02	5.13820E-05	-6.13685E-02	7.05724E 00	-8.51509E 02	02
6.60	1.02367E 00	-6.15574E 00	-6.69133E-02	5.96808E-05	-6.29844E-02	7.15875E 00	-8.57874E 02	02
6.70	1.02366E 00	-6.25699E 00	-6.86549E-02	6.77346E-05	-6.46211E-02	7.26024E 00	-8.64139E 02	02
6.80	1.02365E 00	-6.35824E 00	-7.04175E-02	7.55544E-05	-6.62788E-02	7.36171E 00	-8.70305E 02	02
6.90	1.02365E 00	-6.45949E 00	-7.22010E-02	8.31487E-05	-6.79574E-02	7.46318E 00	-8.76377E 02	02
7.00	1.02364E 00	-6.56073E 00	-7.40055E-02	9.05268E-05	-6.96569E-02	7.56463E 00	-8.82357E 02	02
7.10	1.02363E 00	-6.66197E 00	-7.58308E-02	9.77018E-05	-7.13773E-02	7.66607E 00	-8.88243E 02	02
7.20	1.02362E 00	-6.76321E 00	-7.76772E-02	1.04678E-04	-7.31187E-02	7.76749E 00	-8.94040E 02	02
7.30	1.02362E 00	-6.86444E 00	-7.95444E-02	1.11464E-04	-7.48810E-02	7.86891E 00	-8.99752E 02	02
7.40	1.02361E 00	-6.96567E 00	-8.14325E-02	1.18069E-04	-7.66642E-02	7.97031E 00	-9.05377E 02	02
7.50	1.02360E 00	-7.06690E 00	-8.33416E-02	1.24499E-04	-7.84683E-02	8.07171E 00	-9.10920E 02	02
7.60	1.02360E 00	-7.16812E 00	-8.52716E-02	1.30761E-04	-8.02933E-02	8.17309E 00	-9.16381E 02	02
7.70	1.02359E 00	-7.26935E 00	-8.72226E-02	1.36862E-04	-8.21393E-02	8.27447E 00	-9.21763E 02	02
7.80	1.02359E 00	-7.37056E 00	-8.91945E-02	1.42806E-04	-8.40062E-02	8.37584E 00	-9.27067E 02	02
7.90	1.02358E 00	-7.47178E 00	-9.11873E-02	1.48603E-04	-8.58941E-02	8.47719E 00	-9.32295E 02	02
8.00	1.02358E 00	-7.57299E 00	-9.32010E-02	1.54254E-04	-8.78028E-02	8.57854E 00	-9.37449E 02	02
8.10	1.02357E 00	-7.67420E 00	-9.52356E-02	1.59767E-04	-8.97325E-02	8.67988E 00	-9.42530E 02	02
8.20	1.02356E 00	-7.77541E 00	-9.72912E-02	1.65147E-04	-9.16831E-02	8.78121E 00	-9.47539E 02	02
8.30	1.02356E 00	-7.87661E 00	-9.93677E-02	1.70397E-04	-9.36546E-02	8.88254E 00	-9.52479E 02	02
8.40	1.02356E 00	-7.97781E 00	-1.01465E-01	1.75524E-04	-9.56471E-02	8.98386E 00	-9.57350E 02	02
8.50	1.02355E 00	-8.07901E 00	-1.03584E-01	1.80531E-04	-9.76605E-02	9.08517E 00	-9.62154E 02	02
8.60	1.02355E 00	-8.18021E 00	-1.05723E-01	1.85422E-04	-9.96948E-02	9.18647E 00	-9.66892E 02	02
8.70	1.02354E 00	-8.28140E 00	-1.07883E-01	1.90201E-04	-1.01750E-01	9.28776E 00	-9.71567E 02	02
8.80	1.02354E 00	-8.38259E 00	-1.10064E-01	1.94871E-04	-1.03826E-01	9.38905E 00	-9.76180E 02	02
8.90	1.02353E 00	-8.48377E 00	-1.12266E-01	1.99438E-04	-1.05923E-01	9.49034E 00	-9.80730E 02	02
9.00	1.02353E 00	-8.58496E 00	-1.14489E-01	2.03902E-04	-1.08041E-01	9.59161E 00	-9.85220E 02	02
9.10	1.02353E 00	-8.68614E 00	-1.16733E-01	2.08271E-04	-1.10180E-01	9.69288E 00	-9.89651E 02	02
9.20	1.02352E 00	-8.78732E 00	-1.18998E-01	2.12543E-04	-1.12340E-01	9.79415E 00	-9.94024E 02	02
9.30	1.02352E 00	-8.88849E 00	-1.21284E-01	2.16726E-04	-1.14521E-01	9.89540E 00	-9.98339E 02	02
9.40	1.02352E 00	-8.98967E 00	-1.23591E-01	2.20818E-04	-1.16723E-01	9.99666E 00	-1.00260E 03	03
9.50	1.02351E 00	-9.09084E 00	-1.25918E-01	2.24825E-04	-1.18945E-01	1.00979E 01	-1.00681E 03	03
9.60	1.02351E 00	-9.19200E 00	-1.28267E-01	2.28749E-04	-1.21189E-01	1.01991E 01	-1.01096E 03	03
9.70	1.02351E 00	-9.29317E 00	-1.30636E-01	2.32592E-04	-1.23453E-01	1.03004E 01	-1.01506E 03	03
9.80	1.02350E 00	-9.39433E 00	-1.33027E-01	2.36357E-04	-1.25739E-01	1.04016E 01	-1.01911E 03	03
9.90	1.02350E 00	-9.49549E 00	-1.35438E-01	2.40046E-04	-1.28045E-01	1.05028E 01	-1.02310E 03	03
10.00	1.02350E 00	-9.59665E 00	-1.37870E-01	2.43662E-04	-1.30372E-01	1.06041E 01	-1.02705E 03	03
10.10	1.02349E 00	-9.69780E 00	-1.40323E-01	2.47205E-04	-1.32721E-01	1.07053E 01	-1.03095E 03	03
10.20	1.02349E 00	-9.79895E 00	-1.42798E-01	2.50680E-04	-1.35090E-01	1.08065E 01	-1.03480E 03	03
10.30	1.02349E 00	-9.90010E 00	-1.45293E-01	2.54087E-04	-1.37480E-01	1.09077E 01	-1.03861E 03	03
10.40	1.02349E 00	-1.00012E 01	-1.47809E-01	2.57428E-04	-1.39891E-01	1.10089E 01	-1.04237E 03	03
10.50	1.02348E 00	-1.01024E 01	-1.50345E-01	2.60707E-04	-1.42323E-01	1.11101E 01	-1.04608E 03	03
10.60	1.02348E 00	-1.02035E 01	-1.52903E-01	2.63923E-04	-1.44776E-01	1.12113E 01	-1.04975E 03	03
10.70	1.02348E 00	-1.03047E 01	-1.55482E-01	2.67079E-04	-1.47249E-01	1.13125E 01	-1.05338E 03	03
10.80	1.02348E 00	-1.04058E 01	-1.58082E-01	2.70177E-04	-1.49744E-01	1.14137E 01	-1.05696E 03	03
10.90	1.02347E 00	-1.05069E 01	-1.60702E-01	2.73219E-04	-1.52260E-01	1.15148E 01	-1.06050E 03	03
11.00	1.02347E 00	-1.06081E 01	-1.63344E-01	2.76203E-04	-1.54796E-01	1.16160E 01	-1.06401E 03	03
11.10	1.02347E 00	-1.07092E 01	-1.66006E-01	2.79135E-04	-1.57354E-01	1.17172E 01	-1.06747E 03	03
11.20	1.02347E 00	-1.08103E 01	-1.68689E-01	2.82015E-04	-1.59932E-01	1.18184E 01	-1.07089E 03	03
11.30	1.02347E 00	-1.09115E 01	-1.71394E-01	2.84844E-04	-1.62531E-01	1.19195E 01	-1.07427E 03	03
11.40	1.02346E 00	-1.10126E 01	-1.74119E-01	2.87621E-04	-1.65152E-01	1.20207E 01	-1.07761E 03	03
11.50	1.02346E 00	-1.11137E 01	-1.76865E-01	2.90353E-04	-1.67793E-01	1.21218E 01	-1.08092E 03	03
11.60	1.02346E 00	-1.12148E 01	-1.79632E-01	2.93035E-04	-1.70455E-01	1.22230E 01	-1.08418E 03	03
11.70	1.02346E 00	-1.13159E 01	-1.82420E-01	2.95672E-04	-1.73138E-01	1.23241E 01	-1.08742E 03	03
11.80	1.02346E 00	-1.14170E 01	-1.85229E-01	2.98265E-04	-1.75842E-01	1.24253E 01	-1.09061E 03	03
11.90	1.02345E 00	-1.15181E 01	-1.88059E-01	3.00813E-04	-1.78566E-01	1.25264E 01	-1.09377E 03	03
12.00	1.02345E 00	-1.16193E 01	-1.90909E-01	3.03320E-04	-1.81312E-01	1.26276E 01	-1.09690E 03	03

## ELECTRON RADIAL FUNCTIONS

	$Z = 1$	$A = 1$	$\rho = 1.2 A^{1/3} F$	Electron			
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	1.02173E-05	-3.56951E-02	-2.18862E-04	1.90405E 02	-2.05451E-04	4.20285E-02	-4.65237E-03
6.20	1.05549E-05	-3.69308E-02	-2.28704E-04	1.90656E 02	-2.14669E-04	4.33699E-02	-4.65511E-03
6.30	1.08980E-05	-3.81876E-02	-2.38831E-04	1.90898E 02	-2.24158E-04	4.47323E-02	-4.65779E-03
6.40	1.12467E-05	-3.94653E-02	-2.49245E-04	1.91132E 02	-2.33921E-04	4.61156E-02	-4.66042E-03
6.50	1.16008E-05	-4.07639E-02	-2.59950E-04	1.91359E 02	-2.43963E-04	4.75198E-02	-4.66300E-03
6.60	1.19603E-05	-4.20836E-02	-2.70951E-04	1.91579E 02	-2.54287E-04	4.89450E-02	-4.66553E-03
6.70	1.23254E-05	-4.34242E-02	-2.82252E-04	1.91791E 02	-2.64897E-04	5.03911E-02	-4.66800E-03
6.80	1.26960E-05	-4.47857E-02	-2.93855E-04	1.91997E 02	-2.75798E-04	5.18581E-02	-4.67043E-03
6.90	1.30721E-05	-4.61683E-02	-3.05766E-04	1.92196E 02	-2.86992E-04	5.33461E-02	-4.67280E-03
7.00	1.34536E-05	-4.75718E-02	-3.17988E-04	1.92389E 02	-2.98485E-04	5.48550E-02	-4.67513E-03
7.10	1.38406E-05	-4.89963E-02	-3.30525E-04	1.92577E 02	-3.10279E-04	5.63849E-02	-4.67742E-03
7.20	1.42332E-05	-5.04417E-02	-3.43381E-04	1.92759E 02	-3.22379E-04	5.79357E-02	-4.67965E-03
7.30	1.46312E-05	-5.19081E-02	-3.56560E-04	1.92935E 02	-3.34789E-04	5.95074E-02	-4.68185E-03
7.40	1.50347E-05	-5.33955E-02	-3.70065E-04	1.93107E 02	-3.47512E-04	6.11001E-02	-4.68400E-03
7.50	1.54437E-05	-5.49038E-02	-3.83901E-04	1.93274E 02	-3.60553E-04	6.27137E-02	-4.68611E-03
7.60	1.58582E-05	-5.64331E-02	-3.98072E-04	1.93436E 02	-3.73916E-04	6.43482E-02	-4.68818E-03
7.70	1.62782E-05	-5.79833E-02	-4.12581E-04	1.93593E 02	-3.87603E-04	6.60037E-02	-4.69021E-03
7.80	1.67036E-05	-5.95545E-02	-4.27432E-04	1.93747E 02	-4.01620E-04	6.76801E-02	-4.69220E-03
7.90	1.71346E-05	-6.11467E-02	-4.42629E-04	1.93896E 02	-4.15970E-04	6.93775E-02	-4.69416E-03
8.00	1.75710E-05	-6.27598E-02	-4.58177E-04	1.94041E 02	-4.30657E-04	7.10958E-02	-4.69607E-03
8.10	1.80130E-05	-6.43939E-02	-4.74079E-04	1.94182E 02	-4.45685E-04	7.28350E-02	-4.69795E-03
8.20	1.84604E-05	-6.60490E-02	-4.90338E-04	1.94320E 02	-4.61058E-04	7.45952E-02	-4.69980E-03
8.30	1.89133E-05	-6.77250E-02	-5.06960E-04	1.94454E 02	-4.76779E-04	7.63763E-02	-4.70161E-03
8.40	1.93717E-05	-6.94219E-02	-5.23947E-04	1.94585E 02	-4.92853E-04	7.81783E-02	-4.70339E-03
8.50	1.98356E-05	-7.11398E-02	-5.41304E-04	1.94712E 02	-5.09284E-04	8.00013E-02	-4.70514E-03
8.60	2.03050E-05	-7.28787E-02	-5.59034E-04	1.94837E 02	-5.26075E-04	8.18452E-02	-4.70686E-03
8.70	2.07799E-05	-7.46385E-02	-5.77142E-04	1.94958E 02	-5.43231E-04	8.37101E-02	-4.70854E-03
8.80	2.12603E-05	-7.64193E-02	-5.95631E-04	1.95076E 02	-5.60754E-04	8.55959E-02	-4.71019E-03
8.90	2.17461E-05	-7.82210E-02	-6.14506E-04	1.95192E 02	-5.78650E-04	8.75026E-02	-4.71182E-03
9.00	2.22374E-05	-8.00437E-02	-6.33769E-04	1.95305E 02	-5.96922E-04	8.94303E-02	-4.71342E-03
9.10	2.27343E-05	-8.18874E-02	-6.53426E-04	1.95415E 02	-6.15574E-04	9.13789E-02	-4.71499E-03
9.20	2.32366E-05	-8.37520E-02	-6.73480E-04	1.95523E 02	-6.34610E-04	9.33484E-02	-4.71653E-03
9.30	2.37444E-05	-8.56375E-02	-6.93935E-04	1.95628E 02	-6.54033E-04	9.53389E-02	-4.71804E-03
9.40	2.42577E-05	-8.75440E-02	-7.14794E-04	1.95731E 02	-6.73849E-04	9.73503E-02	-4.71953E-03
9.50	2.47765E-05	-8.94715E-02	-7.36063E-04	1.95831E 02	-6.94060E-04	9.93826E-02	-4.72100E-03
9.60	2.53008E-05	-9.14199E-02	-7.57743E-04	1.95930E 02	-7.14670E-04	1.01436E-01	-4.72244E-03
9.70	2.58306E-05	-9.33892E-02	-7.79841E-04	1.96026E 02	-7.35684E-04	1.03510E-01	-4.72385E-03
9.80	2.63658E-05	-9.53795E-02	-8.02358E-04	1.96120E 02	-7.57104E-04	1.05605E-01	-4.72525E-03
9.90	2.69066E-05	-9.73908E-02	-8.25300E-04	1.96212E 02	-7.78937E-04	1.07721E-01	-4.72661E-03
10.00	2.74528E-05	-9.94230E-02	-8.48670E-04	1.96302E 02	-8.01184E-04	1.09858E-01	-4.72796E-03
10.10	2.80046E-05	-1.01476E-01	-8.72473E-04	1.96390E 02	-8.23850E-04	1.12016E-01	-4.72929E-03
10.20	2.85618E-05	-1.03550E-01	-8.96711E-04	1.96477E 02	-8.46939E-04	1.14195E-01	-4.73059E-03
10.30	2.91245E-05	-1.05645E-01	-9.21390E-04	1.96561E 02	-8.70455E-04	1.16395E-01	-4.73187E-03
10.40	2.96927E-05	-1.07761E-01	-9.46512E-04	1.96644E 02	-8.94402E-04	1.18616E-01	-4.73314E-03
10.50	3.02664E-05	-1.09898E-01	-9.72082E-04	1.96726E 02	-9.18783E-04	1.20857E-01	-4.73438E-03
10.60	3.08456E-05	-1.12056E-01	-9.98104E-04	1.96805E 02	-9.43603E-04	1.23120E-01	-4.73560E-03
10.70	3.14302E-05	-1.14235E-01	-1.02458E-03	1.96883E 02	-9.68866E-04	1.25404E-01	-4.73680E-03
10.80	3.20204E-05	-1.16435E-01	-1.05152E-03	1.96960E 02	-9.94574E-04	1.27708E-01	-4.73799E-03
10.90	3.26160E-05	-1.18655E-01	-1.07892E-03	1.97035E 02	-1.02073E-03	1.30033E-01	-4.73916E-03
11.00	3.32172E-05	-1.20897E-01	-1.10678E-03	1.97108E 02	-1.04735E-03	1.32380E-01	-4.74030E-03
11.10	3.38238E-05	-1.23160E-01	-1.13512E-03	1.97181E 02	-1.07442E-03	1.34747E-01	-4.74144E-03
11.20	3.44359E-05	-1.25443E-01	-1.16394E-03	1.97251E 02	-1.10195E-03	1.37135E-01	-4.74255E-03
11.30	3.50535E-05	-1.27748E-01	-1.19323E-03	1.97321E 02	-1.12995E-03	1.39544E-01	-4.74365E-03
11.40	3.56766E-05	-1.30073E-01	-1.22300E-03	1.97389E 02	-1.15842E-03	1.41975E-01	-4.74473E-03
11.50	3.63052E-05	-1.32420E-01	-1.25327E-03	1.97456E 02	-1.18736E-03	1.44426E-01	-4.74580E-03
11.60	3.69393E-05	-1.34787E-01	-1.28402E-03	1.97522E 02	-1.21678E-03	1.46897E-01	-4.74685E-03
11.70	3.75789E-05	-1.37175E-01	-1.31527E-03	1.97586E 02	-1.24668E-03	1.49390E-01	-4.74788E-03
11.80	3.82239E-05	-1.39585E-01	-1.34701E-03	1.97650E 02	-1.27707E-03	1.51904E-01	-4.74890E-03
11.90	3.88745E-05	-1.42015E-01	-1.37926E-03	1.97712E 02	-1.30794E-03	1.54439E-01	-4.74991E-03
12.00	3.95305E-05	-1.44466E-01	-1.41202E-03	1.97773E 02	-1.33931E-03	1.56995E-01	-4.75090E-03



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=1$		$A=1$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	1.02345 E 00	-1.17204 E 01	-1.93781 E-01	3.05784 E-04	-1.84079 E-01	1.27287 E 01	-1.09999 E 03	
12.20	1.02345 E 00	-1.18215 E 01	-1.96674 E-01	3.08207 E-04	-1.86867 E-01	1.28298 E 01	-1.10305 E 03	
12.30	1.02345 E 00	-1.19226 E 01	-1.99587 E-01	3.10592 E-04	-1.89675 E-01	1.29310 E 01	-1.10608 E 03	
12.40	1.02345 E 00	-1.20237 E 01	-2.02521 E-01	3.12938 E-04	-1.92505 E-01	1.30321 E 01	-1.10907 E 03	
12.50	1.02344 E 00	-1.21248 E 01	-2.05477 E-01	3.15246 E-04	-1.95355 E-01	1.31332 E 01	-1.11203 E 03	
12.60	1.02344 E 00	-1.22258 E 01	-2.08453 E-01	3.17517 E-04	-1.98226 E-01	1.32343 E 01	-1.11497 E 03	
12.70	1.02344 E 00	-1.23269 E 01	-2.11450 E-01	3.19752 E-04	-2.01118 E-01	1.33354 E 01	-1.11786 E 03	
12.80	1.02344 E 00	-1.24280 E 01	-2.14468 E-01	3.21952 E-04	-2.04031 E-01	1.34366 E 01	-1.12074 E 03	
12.90	1.02344 E 00	-1.25291 E 01	-2.17507 E-01	3.24118 E-04	-2.06966 E-01	1.35377 E 01	-1.12358 E 03	
13.00	1.02344 E 00	-1.26302 E 01	-2.20567 E-01	3.26249 E-04	-2.09920 E-01	1.36388 E 01	-1.12639 E 03	
13.10	1.02343 E 00	-1.27313 E 01	-2.23648 E-01	3.28350 E-04	-2.12896 E-01	1.37399 E 01	-1.12917 E 03	
13.20	1.02343 E 00	-1.28323 E 01	-2.26750 E-01	3.30417 E-04	-2.15893 E-01	1.38410 E 01	-1.13192 E 03	
13.30	1.02343 E 00	-1.29334 E 01	-2.29872 E-01	3.32452 E-04	-2.18911 E-01	1.39421 E 01	-1.13465 E 03	
13.40	1.02343 E 00	-1.30345 E 01	-2.33016 E-01	3.34458 E-04	-2.21949 E-01	1.40432 E 01	-1.13735 E 03	
13.50	1.02343 E 00	-1.31356 E 01	-2.36180 E-01	3.36434 E-04	-2.25009 E-01	1.41442 E 01	-1.14002 E 03	
13.60	1.02343 E 00	-1.32366 E 01	-2.39366 E-01	3.38379 E-04	-2.28089 E-01	1.42453 E 01	-1.14266 E 03	
13.70	1.02343 E 00	-1.33377 E 01	-2.42572 E-01	3.40297 E-04	-2.31191 E-01	1.43464 E 01	-1.14528 E 03	
13.80	1.02343 E 00	-1.34388 E 01	-2.45799 E-01	3.42187 E-04	-2.34313 E-01	1.44475 E 01	-1.14787 E 03	
13.90	1.02342 E 00	-1.35398 E 01	-2.49074 E-01	3.44048 E-04	-2.37456 E-01	1.45486 E 01	-1.15044 E 03	
14.00	1.02342 E 00	-1.36409 E 01	-2.52316 E-01	3.45884 E-04	-2.40620 E-01	1.46496 E 01	-1.15298 E 03	
14.10	1.02342 E 00	-1.37419 E 01	-2.55606 E-01	3.47692 E-04	-2.43805 E-01	1.47507 E 01	-1.15550 E 03	
14.20	1.02342 E 00	-1.38430 E 01	-2.58917 E-01	3.49476 E-04	-2.47011 E-01	1.48518 E 01	-1.15799 E 03	
14.30	1.02342 E 00	-1.39441 E 01	-2.62249 E-01	3.51233 E-04	-2.50238 E-01	1.49529 E 01	-1.16046 E 03	
14.40	1.02342 E 00	-1.40451 E 01	-2.65602 E-01	3.52967 E-04	-2.53486 E-01	1.50539 E 01	-1.16291 E 03	
14.50	1.02342 E 00	-1.41461 E 01	-2.68975 E-01	3.54675 E-04	-2.56754 E-01	1.51550 E 01	-1.16533 E 03	
14.60	1.02342 E 00	-1.42472 E 01	-2.72370 E-01	3.56361 E-04	-2.60044 E-01	1.52560 E 01	-1.16773 E 03	
14.70	1.02341 E 00	-1.43482 E 01	-2.75785 E-01	3.58023 E-04	-2.63354 E-01	1.53571 E 01	-1.17011 E 03	
14.80	1.02341 E 00	-1.44493 E 01	-2.79221 E-01	3.59662 E-04	-2.66686 E-01	1.54581 E 01	-1.17246 E 03	
14.90	1.02341 E 00	-1.45503 E 01	-2.82679 E-01	3.61278 E-04	-2.70038 E-01	1.55592 E 01	-1.17480 E 03	
15.00	1.02341 E 00	-1.46513 E 01	-2.86157 E-01	3.62874 E-04	-2.73411 E-01	1.56602 E 01	-1.17711 E 03	
15.10	1.02341 E 00	-1.47524 E 01	-2.89656 E-01	3.64448 E-04	-2.76805 E-01	1.57613 E 01	-1.17940 E 03	
15.20	1.02341 E 00	-1.48534 E 01	-2.93176 E-01	3.66000 E-04	-2.80220 E-01	1.58623 E 01	-1.18167 E 03	
15.30	1.02341 E 00	-1.49544 E 01	-2.96716 E-01	3.67533 E-04	-2.83656 E-01	1.59633 E 01	-1.18391 E 03	
15.40	1.02341 E 00	-1.50555 E 01	-3.00278 E-01	3.69044 E-04	-2.87113 E-01	1.60644 E 01	-1.18614 E 03	
15.50	1.02341 E 00	-1.51565 E 01	-3.03861 E-01	3.70537 E-04	-2.90591 E-01	1.61654 E 01	-1.18835 E 03	
15.60	1.02341 E 00	-1.52575 E 01	-3.07464 E-01	3.72009 E-04	-2.94090 E-01	1.62664 E 01	-1.19054 E 03	
15.70	1.02340 E 00	-1.53585 E 01	-3.11089 E-01	3.73463 E-04	-2.97609 E-01	1.63675 E 01	-1.19271 E 03	
15.80	1.02340 E 00	-1.54595 E 01	-3.14734 E-01	3.74897 E-04	-3.01150 E-01	1.64685 E 01	-1.19486 E 03	
15.90	1.02340 E 00	-1.55606 E 01	-3.18401 E-01	3.76313 E-04	-3.04711 E-01	1.65695 E 01	-1.19699 E 03	
16.00	1.02340 E 00	-1.56616 E 01	-3.22088 E-01	3.77711 E-04	-3.08293 E-01	1.66705 E 01	-1.19910 E 03	
16.10	1.02340 E 00	-1.57626 E 01	-3.25796 E-01	3.79093 E-04	-3.11896 E-01	1.67715 E 01	-1.20120 E 03	
16.20	1.02340 E 00	-1.58636 E 01	-3.29525 E-01	3.80455 E-04	-3.15520 E-01	1.68725 E 01	-1.20327 E 03	
16.30	1.02340 E 00	-1.59646 E 01	-3.33275 E-01	3.81802 E-04	-3.19165 E-01	1.69736 E 01	-1.20533 E 03	
16.40	1.02340 E 00	-1.60656 E 01	-3.37046 E-01	3.83131 E-04	-3.22831 E-01	1.70746 E 01	-1.20737 E 03	
16.50	1.02340 E 00	-1.61666 E 01	-3.40837 E-01	3.84444 E-04	-3.26518 E-01	1.71756 E 01	-1.20939 E 03	
16.60	1.02340 E 00	-1.62676 E 01	-3.44650 E-01	3.85741 E-04	-3.30226 E-01	1.72766 E 01	-1.21140 E 03	
16.70	1.02340 E 00	-1.63686 E 01	-3.48483 E-01	3.87023 E-04	-3.33954 E-01	1.73776 E 01	-1.21339 E 03	
16.80	1.02339 E 00	-1.64696 E 01	-3.52338 E-01	3.88287 E-04	-3.37704 E-01	1.74786 E 01	-1.21536 E 03	
16.90	1.02339 E 00	-1.65706 E 01	-3.56213 E-01	3.89538 E-04	-3.41474 E-01	1.75795 E 01	-1.21732 E 03	
17.00	1.02339 E 00	-1.66716 E 01	-3.60109 E-01	3.90773 E-04	-3.45265 E-01	1.76805 E 01	-1.21926 E 03	
17.10	1.02339 E 00	-1.67725 E 01	-3.64026 E-01	3.91993 E-04	-3.49078 E-01	1.77815 E 01	-1.22118 E 03	
17.20	1.02339 E 00	-1.68735 E 01	-3.67964 E-01	3.93198 E-04	-3.52911 E-01	1.78825 E 01	-1.22309 E 03	
17.30	1.02339 E 00	-1.69745 E 01	-3.71923 E-01	3.94390 E-04	-3.56765 E-01	1.79835 E 01	-1.22498 E 03	
17.40	1.02339 E 00	-1.70755 E 01	-3.75903 E-01	3.95567 E-04	-3.60639 E-01	1.80845 E 01	-1.22686 E 03	
17.50	1.02339 E 00	-1.71765 E 01	-3.79904 E-01	3.96729 E-04	-3.64535 E-01	1.81854 E 01	-1.22872 E 03	
17.60	1.02339 E 00	-1.72774 E 01	-3.83925 E-01	3.97879 E-04	-3.68452 E-01	1.82864 E 01	-1.23056 E 03	
17.70	1.02339 E 00	-1.73784 E 01	-3.87968 E-01	3.99016 E-04	-3.72389 E-01	1.83874 E 01	-1.23240 E 03	
17.80	1.02339 E 00	-1.74794 E 01	-3.92031 E-01	4.00140 E-04	-3.76348 E-01	1.84884 E 01	-1.23421 E 03	
17.90	1.02339 E 00	-1.75803 E 01	-3.96115 E-01	4.01250 E-04	-3.80327 E-01	1.85893 E 01	-1.23602 E 03	
18.00	1.02339 E 00	-1.76813 E 01	-4.00220 E-01	4.02347 E-04	-3.84328 E-01	1.86903 E 01	-1.23780 E 03	



## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	Electron
12.10	4.01921E-05	-1.46938E-01	-1.44528E-03	1.97833E 02	-1.37118E-03	1.59571E-01	-4.75188E-03	
12.20	4.08591E-05	-1.49431E-01	-1.47906E-03	1.97893E 02	-1.40355E-03	1.62169E-01	-4.75284E-03	
12.30	4.15316E-05	-1.51945E-01	-1.51336E-03	1.97951E 02	-1.43642E-03	1.64787E-01	-4.75379E-03	
12.40	4.22096E-05	-1.54480E-01	-1.54818E-03	1.98008E 02	-1.46980E-03	1.67426E-01	-4.75472E-03	
12.50	4.28931E-05	-1.57036E-01	-1.58352E-03	1.98064E 02	-1.50369E-03	1.70087E-01	-4.75565E-03	
12.60	4.35820E-05	-1.59612E-01	-1.61939E-03	1.98119E 02	-1.53810E-03	1.72768E-01	-4.75656E-03	
12.70	4.42765E-05	-1.62210E-01	-1.65580E-03	1.98173E 02	-1.57303E-03	1.75470E-01	-4.75746E-03	
12.80	4.49764E-05	-1.64829E-01	-1.69275E-03	1.98227E 02	-1.60848E-03	1.78193E-01	-4.75834E-03	
12.90	4.56819E-05	-1.67468E-01	-1.73023E-03	1.98279E 02	-1.64447E-03	1.80937E-01	-4.75922E-03	
13.00	4.63928E-05	-1.70129E-01	-1.76827E-03	1.98331E 02	-1.68098E-03	1.83702E-01	-4.76008E-03	
13.10	4.71092E-05	-1.72810E-01	-1.80685E-03	1.98382E 02	-1.71803E-03	1.86488E-01	-4.76093E-03	
13.20	4.78312E-05	-1.75513E-01	-1.84598E-03	1.98432E 02	-1.75562E-03	1.89295E-01	-4.76177E-03	
13.30	4.85586E-05	-1.78236E-01	-1.88567E-03	1.98481E 02	-1.79376E-03	1.92122E-01	-4.76260E-03	
13.40	4.92914E-05	-1.80980E-01	-1.92593E-03	1.98530E 02	-1.83244E-03	1.94971E-01	-4.76342E-03	
13.50	5.00298E-05	-1.83745E-01	-1.96674E-03	1.98577E 02	-1.87168E-03	1.97841E-01	-4.76422E-03	
13.60	5.07737E-05	-1.86531E-01	-2.00813E-03	1.98624E 02	-1.91147E-03	2.00731E-01	-4.76502E-03	
13.70	5.15231E-05	-1.89338E-01	-2.05009E-03	1.98671E 02	-1.95182E-03	2.03642E-01	-4.76581E-03	
13.80	5.22779E-05	-1.92166E-01	-2.09262E-03	1.98716E 02	-1.99273E-03	2.06575E-01	-4.76658E-03	
13.90	5.30382E-05	-1.95015E-01	-2.13574E-03	1.98761E 02	-2.03421E-03	2.09528E-01	-4.76735E-03	
14.00	5.38041E-05	-1.97885E-01	-2.17944E-03	1.98805E 02	-2.07626E-03	2.12502E-01	-4.76811E-03	
14.10	5.45754E-05	-2.00776E-01	-2.22373E-03	1.98849E 02	-2.11889E-03	2.15497E-01	-4.76886E-03	
14.20	5.53522E-05	-2.03688E-01	-2.26861E-03	1.98892E 02	-2.16209E-03	2.18513E-01	-4.76959E-03	
14.30	5.61345E-05	-2.06620E-01	-2.31408E-03	1.98934E 02	-2.20588E-03	2.21550E-01	-4.77032E-03	
14.40	5.69223E-05	-2.09574E-01	-2.36016E-03	1.98976E 02	-2.25025E-03	2.24608E-01	-4.77104E-03	
14.50	5.77156E-05	-2.12548E-01	-2.40684E-03	1.99017E 02	-2.29522E-03	2.27687E-01	-4.77175E-03	
14.60	5.85143E-05	-2.15544E-01	-2.45413E-03	1.99057E 02	-2.34078E-03	2.30787E-01	-4.77246E-03	
14.70	5.93186E-05	-2.18560E-01	-2.50203E-03	1.99097E 02	-2.38694E-03	2.33907E-01	-4.77315E-03	
14.80	6.01283E-05	-2.21598E-01	-2.55054E-03	1.99136E 02	-2.43370E-03	2.37049E-01	-4.77384E-03	
14.90	6.09436E-05	-2.24656E-01	-2.59967E-03	1.99175E 02	-2.48106E-03	2.40211E-01	-4.77452E-03	
15.00	6.17643E-05	-2.27735E-01	-2.64943E-03	1.99213E 02	-2.52904E-03	2.43394E-01	-4.77519E-03	
15.10	6.25905E-05	-2.30835E-01	-2.69982E-03	1.99251E 02	-2.57763E-03	2.46599E-01	-4.77585E-03	
15.20	6.34222E-05	-2.33956E-01	-2.75083E-03	1.99288E 02	-2.62684E-03	2.49824E-01	-4.77650E-03	
15.30	6.42594E-05	-2.37098E-01	-2.80248E-03	1.99325E 02	-2.67667E-03	2.53070E-01	-4.77715E-03	
15.40	6.51021E-05	-2.40261E-01	-2.85477E-03	1.99361E 02	-2.72713E-03	2.56337E-01	-4.77779E-03	
15.50	6.59503E-05	-2.43445E-01	-2.90771E-03	1.99397E 02	-2.77822E-03	2.59625E-01	-4.77842E-03	
15.60	6.68039E-05	-2.46649E-01	-2.96129E-03	1.99432E 02	-2.82994E-03	2.62934E-01	-4.77904E-03	
15.70	6.76631E-05	-2.49875E-01	-3.01552E-03	1.99467E 02	-2.88229E-03	2.66264E-01	-4.77966E-03	
15.80	6.85277E-05	-2.53121E-01	-3.07040E-03	1.99501E 02	-2.93529E-03	2.69614E-01	-4.78027E-03	
15.90	6.93979E-05	-2.56389E-01	-3.12594E-03	1.99535E 02	-2.98894E-03	2.72986E-01	-4.78087E-03	
16.00	7.02735E-05	-2.59677E-01	-3.18215E-03	1.99568E 02	-3.04323E-03	2.76378E-01	-4.78147E-03	
16.10	7.11546E-05	-2.62987E-01	-3.23902E-03	1.99601E 02	-3.09818E-03	2.79792E-01	-4.78206E-03	
16.20	7.20412E-05	-2.66317E-01	-3.29656E-03	1.99634E 02	-3.15378E-03	2.83226E-01	-4.78264E-03	
16.30	7.29333E-05	-2.69668E-01	-3.35478E-03	1.99666E 02	-3.21004E-03	2.86681E-01	-4.78322E-03	
16.40	7.38309E-05	-2.73040E-01	-3.41367E-03	1.99697E 02	-3.26697E-03	2.90158E-01	-4.78379E-03	
16.50	7.47339E-05	-2.76433E-01	-3.47325E-03	1.99729E 02	-3.32457E-03	2.93655E-01	-4.78435E-03	
16.60	7.56425E-05	-2.79847E-01	-3.53351E-03	1.99760E 02	-3.38284E-03	2.97173E-01	-4.78491E-03	
16.70	7.65565E-05	-2.83282E-01	-3.59446E-03	1.99790E 02	-3.44179E-03	3.00712E-01	-4.78546E-03	
16.80	7.74761E-05	-2.86738E-01	-3.65610E-03	1.99820E 02	-3.50141E-03	3.04271E-01	-4.78601E-03	
16.90	7.84011E-05	-2.90215E-01	-3.71844E-03	1.99850E 02	-3.56172E-03	3.07852E-01	-4.78655E-03	
17.00	7.93316E-05	-2.93712E-01	-3.78149E-03	1.99880E 02	-3.62272E-03	3.11454E-01	-4.78708E-03	
17.10	8.02676E-05	-2.97231E-01	-3.84524E-03	1.99909E 02	-3.68441E-03	3.15076E-01	-4.78761E-03	
17.20	8.12091E-05	-3.00770E-01	-3.90969E-03	1.99937E 02	-3.74680E-03	3.18720E-01	-4.78813E-03	
17.30	8.21561E-05	-3.04331E-01	-3.97486E-03	1.99966E 02	-3.80989E-03	3.22384E-01	-4.78865E-03	
17.40	8.31086E-05	-3.07912E-01	-4.04075E-03	1.99994E 02	-3.87368E-03	3.26069E-01	-4.78916E-03	
17.50	8.40666E-05	-3.11514E-01	-4.10736E-03	2.00021E 02	-3.93818E-03	3.29775E-01	-4.78967E-03	
17.60	8.50300E-05	-3.15137E-01	-4.17469E-03	2.00049E 02	-4.00339E-03	3.33503E-01	-4.79017E-03	
17.70	8.59990E-05	-3.18781E-01	-4.24275E-03	2.00076E 02	-4.06931E-03	3.37251E-01	-4.79067E-03	
17.80	8.69734E-05	-3.22446E-01	-4.31155E-03	2.00102E 02	-4.13595E-03	3.41019E-01	-4.79116E-03	
17.90	8.79533E-05	-3.26132E-01	-4.38108E-03	2.00129E 02	-4.20332E-03	3.44809E-01	-4.79165E-03	
18.00	8.89387E-05	-3.29839E-01	-4.45135E-03	2.00155E 02	-4.27142E-03	3.48620E-01	-4.79213E-03	

## ELECTRON RADIAL FUNCTIONS

Electron	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
18.10	1.02338E 00	-1.77823E 01	-4.04347E-01	4.03433E-04	-3.88349E-01	1.87912E 01	-1.23958E 03
18.20	1.02338E 00	-1.78832E 01	-4.08494E-01	4.04506E-04	-3.92391E-01	1.88922E 01	-1.24134E 03
18.30	1.02338E 00	-1.79842E 01	-4.12661E-01	4.05567E-04	-3.96454E-01	1.89932E 01	-1.24308E 03
18.40	1.02338E 00	-1.80851E 01	-4.16850E-01	4.06616E-04	-4.00538E-01	1.90941E 01	-1.24482E 03
18.50	1.02338E 00	-1.81861E 01	-4.21060E-01	4.07653E-04	-4.04642E-01	1.91951E 01	-1.24654E 03
18.60	1.02338E 00	-1.82870E 01	-4.25290E-01	4.08678E-04	-4.08768E-01	1.92960E 01	-1.24824E 03
18.70	1.02338E 00	-1.83880E 01	-4.29542E-01	4.09693E-04	-4.12914E-01	1.93969E 01	-1.24994E 03
18.80	1.02338E 00	-1.84889E 01	-4.33814E-01	4.10696E-04	-4.17082E-01	1.94979E 01	-1.25162E 03
18.90	1.02338E 00	-1.85899E 01	-4.38107E-01	4.11688E-04	-4.21270E-01	1.95988E 01	-1.25328E 03
19.00	1.02338E 00	-1.86908E 01	-4.42421E-01	4.12669E-04	-4.25479E-01	1.96998E 01	-1.25494E 03
19.10	1.02338E 00	-1.87917E 01	-4.46756E-01	4.13641E-04	-4.29709E-01	1.98007E 01	-1.25658E 03
19.20	1.02338E 00	-1.88927E 01	-4.51112E-01	4.14601E-04	-4.33960E-01	1.99016E 01	-1.25821E 03
19.30	1.02338E 00	-1.89937E 01	-4.55507E-01	4.15561E-04	-4.38211E-01	1.99998E 01	-1.25984E 03
19.40	1.02338E 00	-1.90945E 01	-4.59886E-01	4.16491E-04	-4.42525E-01	2.01035E 01	-1.26144E 03
19.50	1.02338E 00	-1.91954E 01	-4.64305E-01	4.17421E-04	-4.46838E-01	2.02044E 01	-1.26303E 03
19.60	1.02338E 00	-1.92964E 01	-4.68744E-01	4.18341E-04	-4.51173E-01	2.03053E 01	-1.26461E 03
19.70	1.02337E 00	-1.93973E 01	-4.73204E-01	4.19250E-04	-4.55528E-01	2.04062E 01	-1.26619E 03
19.80	1.02337E 00	-1.94982E 01	-4.77685E-01	4.20152E-04	-4.59904E-01	2.05071E 01	-1.26775E 03
19.90	1.02337E 00	-1.95991E 01	-4.82187E-01	4.21042E-04	-4.64301E-01	2.06080E 01	-1.26930E 03
20.00	1.02337E 00	-1.97000E 01	-4.86710E-01	4.21924E-04	-4.68719E-01	2.07089E 01	-1.27083E 03
20.10	1.02337E 00	-1.98009E 01	-4.91254E-01	4.22797E-04	-4.73158E-01	2.08099E 01	-1.27236E 03
20.20	1.02337E 00	-1.99019E 01	-4.95819E-01	4.23661E-04	-4.77618E-01	2.09108E 01	-1.27387E 03
20.30	1.02337E 00	-2.00028E 01	-5.00404E-01	4.24516E-04	-4.82099E-01	2.10117E 01	-1.27538E 03
20.40	1.02337E 00	-2.01037E 01	-5.05011E-01	4.25361E-04	-4.86600E-01	2.11125E 01	-1.27688E 03
20.50	1.02337E 00	-2.02046E 01	-5.09638E-01	4.26198E-04	-4.91123E-01	2.12134E 01	-1.27836E 03
20.60	1.02337E 00	-2.03055E 01	-5.14286E-01	4.27027E-04	-4.95666E-01	2.13143E 01	-1.27983E 03
20.70	1.02337E 00	-2.04064E 01	-5.18955E-01	4.27847E-04	-5.00230E-01	2.14152E 01	-1.28130E 03
20.80	1.02337E 00	-2.05072E 01	-5.23645E-01	4.28660E-04	-5.04815E-01	2.15161E 01	-1.28275E 03
20.90	1.02337E 00	-2.06081E 01	-5.28356E-01	4.29464E-04	-5.09421E-01	2.16170E 01	-1.28419E 03
21.00	1.02337E 00	-2.07090E 01	-5.33087E-01	4.30260E-04	-5.14048E-01	2.17179E 01	-1.28563E 03
21.10	1.02337E 00	-2.08099E 01	-5.37840E-01	4.31048E-04	-5.18695E-01	2.18187E 01	-1.28705E 03
21.20	1.02337E 00	-2.09108E 01	-5.42613E-01	4.31828E-04	-5.23364E-01	2.19196E 01	-1.28847E 03
21.30	1.02337E 00	-2.10117E 01	-5.47408E-01	4.32600E-04	-5.28053E-01	2.20205E 01	-1.28987E 03
21.40	1.02337E 00	-2.11125E 01	-5.52223E-01	4.33365E-04	-5.32764E-01	2.21214E 01	-1.29127E 03
21.50	1.02337E 00	-2.12134E 01	-5.57059E-01	4.34123E-04	-5.37495E-01	2.22222E 01	-1.29265E 03
21.60	1.02336E 00	-2.13143E 01	-5.61916E-01	4.34873E-04	-5.42247E-01	2.23231E 01	-1.29403E 03
21.70	1.02336E 00	-2.14151E 01	-5.66794E-01	4.35616E-04	-5.47020E-01	2.24239E 01	-1.29540E 03
21.80	1.02336E 00	-2.15160E 01	-5.71692E-01	4.36350E-04	-5.51814E-01	2.25248E 01	-1.29676E 03
21.90	1.02336E 00	-2.16169E 01	-5.76612E-01	4.37079E-04	-5.56628E-01	2.26256E 01	-1.29811E 03
22.00	1.02336E 00	-2.17177E 01	-5.81552E-01	4.37801E-04	-5.61464E-01	2.27265E 01	-1.29945E 03
22.10	1.02336E 00	-2.18186E 01	-5.86513E-01	4.38515E-04	-5.66320E-01	2.28273E 01	-1.30078E 03
22.20	1.02336E 00	-2.19194E 01	-5.91496E-01	4.39223E-04	-5.71197E-01	2.29282E 01	-1.30210E 03
22.30	1.02336E 00	-2.20203E 01	-5.96499E-01	4.39924E-04	-5.76095E-01	2.30290E 01	-1.30342E 03
22.40	1.02336E 00	-2.21211E 01	-6.01522E-01	4.40617E-04	-5.81014E-01	2.31299E 01	-1.30472E 03
22.50	1.02336E 00	-2.22220E 01	-6.06567E-01	4.41305E-04	-5.85954E-01	2.32307E 01	-1.30602E 03
22.60	1.02336E 00	-2.23228E 01	-6.11633E-01	4.41985E-04	-5.90915E-01	2.33315E 01	-1.30731E 03
22.70	1.02336E 00	-2.24237E 01	-6.16719E-01	4.42661E-04	-5.95897E-01	2.34324E 01	-1.30859E 03
22.80	1.02336E 00	-2.25245E 01	-6.21827E-01	4.43330E-04	-6.00899E-01	2.35332E 01	-1.30987E 03
22.90	1.02336E 00	-2.26253E 01	-6.26955E-01	4.43992E-04	-6.05922E-01	2.36340E 01	-1.31113E 03
23.00	1.02336E 00	-2.27262E 01	-6.32104E-01	4.44647E-04	-6.10967E-01	2.37348E 01	-1.31239E 03
23.10	1.02336E 00	-2.28270E 01	-6.37274E-01	4.45298E-04	-6.16032E-01	2.38357E 01	-1.31364E 03
23.20	1.02336E 00	-2.29278E 01	-6.42464E-01	4.45941E-04	-6.21118E-01	2.39365E 01	-1.31489E 03
23.30	1.02336E 00	-2.30286E 01	-6.47676E-01	4.46579E-04	-6.26224E-01	2.40373E 01	-1.31612E 03
23.40	1.02336E 00	-2.31295E 01	-6.52909E-01	4.47211E-04	-6.31352E-01	2.41381E 01	-1.31735E 03
23.50	1.02336E 00	-2.32303E 01	-6.58162E-01	4.47837E-04	-6.36500E-01	2.42389E 01	-1.31857E 03
23.60	1.02336E 00	-2.33311E 01	-6.63436E-01	4.48458E-04	-6.41670E-01	2.43397E 01	-1.31978E 03
23.70	1.02336E 00	-2.34319E 01	-6.68731E-01	4.49072E-04	-6.46860E-01	2.44405E 01	-1.32099E 03
23.80	1.02335E 00	-2.35327E 01	-6.74047E-01	4.49681E-04	-6.52071E-01	2.45413E 01	-1.32219E 03
23.90	1.02335E 00	-2.36335E 01	-6.79384E-01	4.50286E-04	-6.57303E-01	2.46421E 01	-1.32338E 03
24.00	1.02335E 00	-2.37343E 01	-6.84742E-01	4.50884E-04	-6.62556E-01	2.47429E 01	-1.32456E 03



## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
							Electron
							$Z=1$ $A=1$ $\rho=1.2 A^{1/3} F$
18.10	8.99297E-05	-3.33567E-01	-4.52237E-03	2.00181E 02	-4.34025E-03	3.52452E-01	-4.79260E-03
18.20	9.09261E-05	-3.37315E-01	-4.59413E-03	2.00206E 02	-4.40981E-03	3.56304E-01	-4.79308E-03
18.30	9.19280E-05	-3.41085E-01	-4.66664E-03	2.00231E 02	-4.48010E-03	3.60178E-01	-4.79354E-03
18.40	9.29354E-05	-3.44875E-01	-4.73992E-03	2.00256E 02	-4.55115E-03	3.64072E-01	-4.79401E-03
18.50	9.39482E-05	-3.48687E-01	-4.81395E-03	2.00281E 02	-4.62294E-03	3.67987E-01	-4.79446E-03
18.60	9.49666E-05	-3.52519E-01	-4.88874E-03	2.00305E 02	-4.69547E-03	3.71923E-01	-4.79492E-03
18.70	9.59904E-05	-3.56372E-01	-4.96430E-03	2.00329E 02	-4.76877E-03	3.75880E-01	-4.79537E-03
18.80	9.70198E-05	-3.60246E-01	-5.04064E-03	2.00353E 02	-4.84282E-03	3.79858E-01	-4.79581E-03
18.90	9.80546E-05	-3.64141E-01	-5.11774E-03	2.00377E 02	-4.91763E-03	3.83857E-01	-4.79625E-03
19.00	9.90949E-05	-3.68057E-01	-5.19563E-03	2.00400E 02	-4.99321E-03	3.87877E-01	-4.79669E-03
19.10	1.00141E-04	-3.71994E-01	-5.27430E-03	2.00423E 02	-5.06956E-03	3.91917E-01	-4.79712E-03
19.20	1.01192E-04	-3.75952E-01	-5.35376E-03	2.00446E 02	-5.14668E-03	3.95979E-01	-4.79755E-03
19.30	1.02249E-04	-3.79930E-01	-5.43401E-03	2.00468E 02	-5.22459E-03	4.00061E-01	-4.79797E-03
19.40	1.03311E-04	-3.83930E-01	-5.51505E-03	2.00491E 02	-5.30327E-03	4.04165E-01	-4.79839E-03
19.50	1.04379E-04	-3.87950E-01	-5.59689E-03	2.00513E 02	-5.38274E-03	4.08289E-01	-4.79880E-03
19.60	1.05452E-04	-3.91992E-01	-5.67954E-03	2.00535E 02	-5.46299E-03	4.12434E-01	-4.79922E-03
19.70	1.06531E-04	-3.96054E-01	-5.76299E-03	2.00556E 02	-5.54404E-03	4.16600E-01	-4.79962E-03
19.80	1.07615E-04	-4.00137E-01	-5.84725E-03	2.00578E 02	-5.62589E-03	4.20787E-01	-4.80003E-03
19.90	1.08705E-04	-4.04241E-01	-5.93233E-03	2.00599E 02	-5.70854E-03	4.24995E-01	-4.80043E-03
20.00	1.09800E-04	-4.08366E-01	-6.01822E-03	2.00620E 02	-5.79200E-03	4.29223E-01	-4.80083E-03
20.10	1.10901E-04	-4.12512E-01	-6.10494E-03	2.00641E 02	-5.87626E-03	4.33473E-01	-4.80122E-03
20.20	1.12007E-04	-4.16679E-01	-6.19248E-03	2.00661E 02	-5.96134E-03	4.37743E-01	-4.80161E-03
20.30	1.13119E-04	-4.20866E-01	-6.28086E-03	2.00681E 02	-6.04723E-03	4.42035E-01	-4.80199E-03
20.40	1.14236E-04	-4.25075E-01	-6.37006E-03	2.00701E 02	-6.13394E-03	4.46347E-01	-4.80238E-03
20.50	1.15358E-04	-4.29304E-01	-6.46011E-03	2.00721E 02	-6.22148E-03	4.50680E-01	-4.80276E-03
20.60	1.16486E-04	-4.33555E-01	-6.55099E-03	2.00741E 02	-6.30984E-03	4.55034E-01	-4.80313E-03
20.70	1.17620E-04	-4.37826E-01	-6.64272E-03	2.00761E 02	-6.39904E-03	4.59409E-01	-4.80350E-03
20.80	1.18759E-04	-4.42118E-01	-6.73530E-03	2.00780E 02	-6.48908E-03	4.63805E-01	-4.80387E-03
20.90	1.19904E-04	-4.46431E-01	-6.82874E-03	2.00799E 02	-6.57995E-03	4.68222E-01	-4.80424E-03
21.00	1.21054E-04	-4.50765E-01	-6.92303E-03	2.00818E 02	-6.67167E-03	4.72659E-01	-4.80460E-03
21.10	1.22210E-04	-4.55120E-01	-7.01818E-03	2.00837E 02	-6.76423E-03	4.77118E-01	-4.80496E-03
21.20	1.23371E-04	-4.59496E-01	-7.11420E-03	2.00855E 02	-6.85765E-03	4.81597E-01	-4.80532E-03
21.30	1.24537E-04	-4.63892E-01	-7.21108E-03	2.00874E 02	-6.95192E-03	4.86097E-01	-4.80567E-03
21.40	1.25709E-04	-4.68310E-01	-7.30884E-03	2.00892E 02	-7.04706E-03	4.90618E-01	-4.80602E-03
21.50	1.26887E-04	-4.72748E-01	-7.40747E-03	2.00910E 02	-7.14305E-03	4.95160E-01	-4.80637E-03
21.60	1.28070E-04	-4.77208E-01	-7.50699E-03	2.00928E 02	-7.23991E-03	4.99723E-01	-4.80671E-03
21.70	1.29258E-04	-4.81688E-01	-7.60739E-03	2.00945E 02	-7.33765E-03	5.04307E-01	-4.80705E-03
21.80	1.30452E-04	-4.86189E-01	-7.70868E-03	2.00963E 02	-7.43626E-03	5.08912E-01	-4.80739E-03
21.90	1.31652E-04	-4.90711E-01	-7.81086E-03	2.00980E 02	-7.53575E-03	5.13537E-01	-4.80772E-03
22.00	1.32857E-04	-4.95254E-01	-7.91393E-03	2.00997E 02	-7.63612E-03	5.18184E-01	-4.80806E-03
22.10	1.34067E-04	-4.99818E-01	-8.01791E-03	2.01014E 02	-7.73737E-03	5.22851E-01	-4.80838E-03
22.20	1.35283E-04	-5.04403E-01	-8.12279E-03	2.01031E 02	-7.83952E-03	5.27539E-01	-4.80871E-03
22.30	1.36505E-04	-5.09008E-01	-8.22858E-03	2.01048E 02	-7.94257E-03	5.32248E-01	-4.80903E-03
22.40	1.37732E-04	-5.13635E-01	-8.33528E-03	2.01064E 02	-8.04651E-03	5.36978E-01	-4.80936E-03
22.50	1.38964E-04	-5.18282E-01	-8.44289E-03	2.01081E 02	-8.15135E-03	5.41729E-01	-4.80967E-03
22.60	1.40202E-04	-5.22950E-01	-8.55143E-03	2.01097E 02	-8.25710E-03	5.46501E-01	-4.80999E-03
22.70	1.41446E-04	-5.27639E-01	-8.66088E-03	2.01113E 02	-8.36376E-03	5.51294E-01	-4.81030E-03
22.80	1.42695E-04	-5.32350E-01	-8.77127E-03	2.01129E 02	-8.47133E-03	5.56107E-01	-4.81062E-03
22.90	1.43949E-04	-5.37080E-01	-8.88258E-03	2.01145E 02	-8.57982E-03	5.60941E-01	-4.81092E-03
23.00	1.45209E-04	-5.41832E-01	-8.99483E-03	2.01161E 02	-8.68924E-03	5.65797E-01	-4.81123E-03
23.10	1.46474E-04	-5.46605E-01	-9.10802E-03	2.01176E 02	-8.79958E-03	5.70673E-01	-4.81153E-03
23.20	1.47745E-04	-5.51398E-01	-9.22216E-03	2.01192E 02	-8.91084E-03	5.75570E-01	-4.81183E-03
23.30	1.49021E-04	-5.56213E-01	-9.33724E-03	2.01207E 02	-9.02305E-03	5.80488E-01	-4.81213E-03
23.40	1.50303E-04	-5.61048E-01	-9.45327E-03	2.01222E 02	-9.13618E-03	5.85426E-01	-4.81243E-03
23.50	1.51591E-04	-5.65905E-01	-9.57025E-03	2.01237E 02	-9.25027E-03	5.90386E-01	-4.81272E-03
23.60	1.52883E-04	-5.70782E-01	-9.68819E-03	2.01252E 02	-9.36529E-03	5.95366E-01	-4.81301E-03
23.70	1.54182E-04	-5.75680E-01	-9.80710E-03	2.01266E 02	-9.48126E-03	6.00368E-01	-4.81330E-03
23.80	1.55486E-04	-5.80598E-01	-9.92697E-03	2.01281E 02	-9.59819E-03	6.05390E-01	-4.81359E-03
23.90	1.56795E-04	-5.85538E-01	-1.00478E-02	2.01296E 02	-9.71607E-03	6.10433E-01	-4.81387E-03
24.00	1.58110E-04	-5.90499E-01	-1.01696E-02	2.01310E 02	-9.83492E-03	6.15497E-01	-4.81416E-03

## ELECTRON RADIAL FUNCTIONS

Electron	$Z=1$		$A=1$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
24.10	1.02335 E 00	-2.38351 E 01	-6.90120 E-01	4.51477 E-04	-6.67830 E-01	2.48437 E 01	-1.32574 E 03	03
24.20	1.02335 E 00	-2.39359 E 01	-6.95520 E-01	4.52065 E-04	-6.73124 E-01	2.49445 E 01	-1.32691 E 03	03
24.30	1.02335 E 00	-2.40367 E 01	-7.00940 E-01	4.52647 E-04	-6.78439 E-01	2.50453 E 01	-1.32807 E 03	03
24.40	1.02335 E 00	-2.41375 E 01	-7.06381 E-01	4.53225 E-04	-6.83776 E-01	2.51460 E 01	-1.32923 E 03	03
24.50	1.02335 E 00	-2.42383 E 01	-7.11843 E-01	4.53796 E-04	-6.89133 E-01	2.52468 E 01	-1.33038 E 03	03
24.60	1.02335 E 00	-2.43391 E 01	-7.17325 E-01	4.54364 E-04	-6.94511 E-01	2.53476 E 01	-1.33152 E 03	03
24.70	1.02335 E 00	-2.44399 E 01	-7.22829 E-01	4.54927 E-04	-6.99909 E-01	2.54484 E 01	-1.33266 E 03	03
24.80	1.02335 E 00	-2.45406 E 01	-7.28354 E-01	4.55484 E-04	-7.05329 E-01	2.55491 E 01	-1.33379 E 03	03
24.90	1.02335 E 00	-2.46414 E 01	-7.33899 E-01	4.56037 E-04	-7.10769 E-01	2.56499 E 01	-1.33491 E 03	03
25.00	1.02335 E 00	-2.47422 E 01	-7.39465 E-01	4.56583 E-04	-7.16231 E-01	2.57507 E 01	-1.33603 E 03	03
25.10	1.02335 E 00	-2.48430 E 01	-7.45052 E-01	4.57127 E-04	-7.21713 E-01	2.58514 E 01	-1.33714 E 03	03
25.20	1.02335 E 00	-2.49437 E 01	-7.50660 E-01	4.57665 E-04	-7.27216 E-01	2.59522 E 01	-1.33824 E 03	03
25.30	1.02335 E 00	-2.50445 E 01	-7.56289 E-01	4.58198 E-04	-7.32740 E-01	2.60529 E 01	-1.33934 E 03	03
25.40	1.02335 E 00	-2.51453 E 01	-7.61938 E-01	4.58727 E-04	-7.38284 E-01	2.61537 E 01	-1.34043 E 03	03
25.50	1.02335 E 00	-2.52460 E 01	-7.67608 E-01	4.59251 E-04	-7.43850 E-01	2.62544 E 01	-1.34152 E 03	03
25.60	1.02335 E 00	-2.53468 E 01	-7.73300 E-01	4.59771 E-04	-7.49436 E-01	2.63552 E 01	-1.34260 E 03	03
25.70	1.02335 E 00	-2.54475 E 01	-7.79012 E-01	4.60286 E-04	-7.55043 E-01	2.64559 E 01	-1.34368 E 03	03
25.80	1.02335 E 00	-2.55483 E 01	-7.84745 E-01	4.60797 E-04	-7.60672 E-01	2.65566 E 01	-1.34474 E 03	03
25.90	1.02335 E 00	-2.56490 E 01	-7.90498 E-01	4.61304 E-04	-7.66320 E-01	2.66574 E 01	-1.34581 E 03	03
26.00	1.02335 E 00	-2.57498 E 01	-7.96273 E-01	4.61806 E-04	-7.71990 E-01	2.67581 E 01	-1.34686 E 03	03
26.10	1.02335 E 00	-2.58505 E 01	-8.02068 E-01	4.62304 E-04	-7.77681 E-01	2.68588 E 01	-1.34791 E 03	03
26.20	1.02335 E 00	-2.59512 E 01	-8.07885 E-01	4.62797 E-04	-7.83392 E-01	2.69596 E 01	-1.34896 E 03	03
26.30	1.02335 E 00	-2.60520 E 01	-8.13722 E-01	4.63287 E-04	-7.89125 E-01	2.70603 E 01	-1.35000 E 03	03
26.40	1.02335 E 00	-2.61527 E 01	-8.19580 E-01	4.63773 E-04	-7.94878 E-01	2.71610 E 01	-1.35103 E 03	03
26.50	1.02335 E 00	-2.62534 E 01	-8.25459 E-01	4.64254 E-04	-8.00652 E-01	2.72617 E 01	-1.35206 E 03	03
26.60	1.02334 E 00	-2.63542 E 01	-8.31358 E-01	4.64732 E-04	-8.06446 E-01	2.73624 E 01	-1.35309 E 03	03
26.70	1.02334 E 00	-2.64549 E 01	-8.37279 E-01	4.65204 E-04	-8.12262 E-01	2.74631 E 01	-1.35411 E 03	03
26.80	1.02334 E 00	-2.65556 E 01	-8.43220 E-01	4.65674 E-04	-8.18098 E-01	2.75638 E 01	-1.35512 E 03	03
26.90	1.02334 E 00	-2.66563 E 01	-8.49182 E-01	4.66140 E-04	-8.23956 E-01	2.76645 E 01	-1.35613 E 03	03
27.00	1.02334 E 00	-2.67570 E 01	-8.55165 E-01	4.66601 E-04	-8.29834 E-01	2.77652 E 01	-1.35713 E 03	03
27.10	1.02334 E 00	-2.68577 E 01	-8.61169 E-01	4.67059 E-04	-8.35733 E-01	2.78659 E 01	-1.35813 E 03	03
27.20	1.02334 E 00	-2.69584 E 01	-8.67193 E-01	4.67513 E-04	-8.41653 E-01	2.79666 E 01	-1.35912 E 03	03
27.30	1.02334 E 00	-2.70591 E 01	-8.73239 E-01	4.67963 E-04	-8.47593 E-01	2.80673 E 01	-1.36011 E 03	03
27.40	1.02334 E 00	-2.71598 E 01	-8.79305 E-01	4.68410 E-04	-8.53555 E-01	2.81680 E 01	-1.36109 E 03	03
27.50	1.02334 E 00	-2.72605 E 01	-8.85392 E-01	4.68853 E-04	-8.59537 E-01	2.82687 E 01	-1.36207 E 03	03
27.60	1.02334 E 00	-2.73612 E 01	-8.91500 E-01	4.69292 E-04	-8.65540 E-01	2.83694 E 01	-1.36304 E 03	03
27.70	1.02334 E 00	-2.74619 E 01	-8.97629 E-01	4.69728 E-04	-8.71564 E-01	2.84700 E 01	-1.36401 E 03	03
27.80	1.02334 E 00	-2.75626 E 01	-9.03779 E-01	4.70160 E-04	-8.77609 E-01	2.85707 E 01	-1.36497 E 03	03
27.90	1.02334 E 00	-2.76633 E 01	-9.09949 E-01	4.70589 E-04	-8.83674 E-01	2.86714 E 01	-1.36593 E 03	03
28.00	1.02334 E 00	-2.77640 E 01	-9.16140 E-01	4.71015 E-04	-8.89761 E-01	2.87720 E 01	-1.36688 E 03	03
28.10	1.02334 E 00	-2.78646 E 01	-9.22352 E-01	4.71436 E-04	-8.95868 E-01	2.88727 E 01	-1.36783 E 03	03
28.20	1.02334 E 00	-2.79653 E 01	-9.28585 E-01	4.71855 E-04	-9.01996 E-01	2.89734 E 01	-1.36877 E 03	03
28.30	1.02334 E 00	-2.80660 E 01	-9.34839 E-01	4.72270 E-04	-9.08145 E-01	2.90740 E 01	-1.36971 E 03	03
28.40	1.02334 E 00	-2.81667 E 01	-9.41114 E-01	4.72681 E-04	-9.14315 E-01	2.91747 E 01	-1.37065 E 03	03
28.50	1.02334 E 00	-2.82673 E 01	-9.47409 E-01	4.73089 E-04	-9.20505 E-01	2.92753 E 01	-1.37158 E 03	03
28.60	1.02334 E 00	-2.83680 E 01	-9.53725 E-01	4.73494 E-04	-9.26717 E-01	2.93760 E 01	-1.37251 E 03	03
28.70	1.02334 E 00	-2.84686 E 01	-9.60062 E-01	4.73896 E-04	-9.32949 E-01	2.94766 E 01	-1.37343 E 03	03
28.80	1.02334 E 00	-2.85693 E 01	-9.66420 E-01	4.74295 E-04	-9.39202 E-01	2.95773 E 01	-1.37435 E 03	03
28.90	1.02334 E 00	-2.86699 E 01	-9.72799 E-01	4.74690 E-04	-9.45476 E-01	2.96779 E 01	-1.37526 E 03	03
29.00	1.02334 E 00	-2.87706 E 01	-9.79198 E-01	4.75083 E-04	-9.51770 E-01	2.97785 E 01	-1.37617 E 03	03
29.10	1.02334 E 00	-2.88712 E 01	-9.85618 E-01	4.75472 E-04	-9.58086 E-01	2.98792 E 01	-1.37707 E 03	03
29.20	1.02334 E 00	-2.89719 E 01	-9.92059 E-01	4.75859 E-04	-9.64422 E-01	2.99798 E 01	-1.37797 E 03	03
29.30	1.02334 E 00	-2.90725 E 01	-9.98521 E-01	4.76241 E-04	-9.70779 E-01	3.00804 E 01	-1.37887 E 03	03
29.40	1.02334 E 00	-2.91731 E 01	-1.00500 E 00	4.76621 E-04	-9.77157 E-01	3.01810 E 01	-1.37976 E 03	03
29.50	1.02334 E 00	-2.92738 E 01	-1.01151 E 00	4.76999 E-04	-9.83556 E-01	3.02816 E 01	-1.38065 E 03	03
29.60	1.02334 E 00	-2.93744 E 01	-1.01803 E 00	4.77373 E-04	-9.89975 E-01	3.03822 E 01	-1.38153 E 03	03
29.70	1.02334 E 00	-2.94750 E 01	-1.02458 E 00	4.77744 E-04	-9.96416 E-01	3.04829 E 01	-1.38241 E 03	03
29.80	1.02334 E 00	-2.95757 E 01	-1.03114 E 00	4.78113 E-04	-1.00288 E 00	3.05835 E 01	-1.38329 E 03	03
29.90	1.02333 E 00	-2.96763 E 01	-1.03773 E 00	4.78477 E-04	-1.00936 E 00	3.06841 E 01	-1.38416 E 03	03
30.00	1.02333 E 00	-2.97769 E 01	-1.04434 E 00	4.78841 E-04	-1.01586 E 00	3.07847 E 01	-1.38502 E 03	03



## ELECTRON RADIAL FUNCTIONS

 $Z = 1$  $A = 1$  $\rho = 1.2 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
24.10	1.59430E-04	-5.95481E-01	-1.02924E-02	2.01324E 02	-9.95473E-03	6.20582E-01	-4.81444E-03
24.20	1.60756E-04	-6.00483E-01	-1.04162E-02	2.01338E 02	-1.00755E-02	6.25688E-01	-4.81471E-03
24.30	1.62087E-04	-6.05506E-01	-1.05410E-02	2.01352E 02	-1.01973E-02	6.30814E-01	-4.81499E-03
24.40	1.63424E-04	-6.10550E-01	-1.06667E-02	2.01366E 02	-1.03200E-02	6.35962E-01	-4.81526E-03
24.50	1.64766E-04	-6.15615E-01	-1.07934E-02	2.01380E 02	-1.04437E-02	6.41130E-01	-4.81554E-03
24.60	1.66114E-04	-6.20701E-01	-1.09212E-02	2.01393E 02	-1.05684E-02	6.46319E-01	-4.81581E-03
24.70	1.67467E-04	-6.25808E-01	-1.10499E-02	2.01407E 02	-1.06941E-02	6.51529E-01	-4.81607E-03
24.80	1.68826E-04	-6.30936E-01	-1.11797E-02	2.01420E 02	-1.08207E-02	6.56760E-01	-4.81634E-03
24.90	1.70190E-04	-6.36084E-01	-1.13104E-02	2.01434E 02	-1.09484E-02	6.62012E-01	-4.81660E-03
25.00	1.71560E-04	-6.41254E-01	-1.14422E-02	2.01447E 02	-1.10771E-02	6.67285E-01	-4.81686E-03
25.10	1.72935E-04	-6.46444E-01	-1.15750E-02	2.01460E 02	-1.12067E-02	6.72578E-01	-4.81712E-03
25.20	1.74315E-04	-6.51655E-01	-1.17088E-02	2.01473E 02	-1.13374E-02	6.77893E-01	-4.81738E-03
25.30	1.75702E-04	-6.56887E-01	-1.18436E-02	2.01486E 02	-1.14691E-02	6.83228E-01	-4.81764E-03
25.40	1.77093E-04	-6.62140E-01	-1.19795E-02	2.01498E 02	-1.16018E-02	6.88584E-01	-4.81789E-03
25.50	1.78490E-04	-6.67413E-01	-1.21164E-02	2.01511E 02	-1.17355E-02	6.93961E-01	-4.81814E-03
25.60	1.79893E-04	-6.72708E-01	-1.22543E-02	2.01524E 02	-1.18702E-02	6.99359E-01	-4.81839E-03
25.70	1.81301E-04	-6.78024E-01	-1.23932E-02	2.01536E 02	-1.20060E-02	7.04777E-01	-4.81864E-03
25.80	1.82715E-04	-6.83360E-01	-1.25333E-02	2.01548E 02	-1.21428E-02	7.10217E-01	-4.81889E-03
25.90	1.84134E-04	-6.88717E-01	-1.26743E-02	2.01561E 02	-1.22806E-02	7.15677E-01	-4.81913E-03
26.00	1.85558E-04	-6.94095E-01	-1.28164E-02	2.01573E 02	-1.24195E-02	7.21158E-01	-4.81937E-03
26.10	1.86989E-04	-6.99494E-01	-1.29596E-02	2.01585E 02	-1.25594E-02	7.26661E-01	-4.81961E-03
26.20	1.88424E-04	-7.04914E-01	-1.31038E-02	2.01597E 02	-1.27004E-02	7.32184E-01	-4.81985E-03
26.30	1.89865E-04	-7.10355E-01	-1.32491E-02	2.01609E 02	-1.28424E-02	7.37727E-01	-4.82009E-03
26.40	1.91312E-04	-7.15816E-01	-1.33955E-02	2.01621E 02	-1.29855E-02	7.43292E-01	-4.82033E-03
26.50	1.92764E-04	-7.21299E-01	-1.35429E-02	2.01632E 02	-1.31296E-02	7.48877E-01	-4.82056E-03
26.60	1.94221E-04	-7.26802E-01	-1.36914E-02	2.01644E 02	-1.32748E-02	7.54484E-01	-4.82079E-03
26.70	1.95684E-04	-7.32326E-01	-1.38409E-02	2.01655E 02	-1.34210E-02	7.60111E-01	-4.82103E-03
26.80	1.97153E-04	-7.37871E-01	-1.39916E-02	2.01667E 02	-1.35683E-02	7.65759E-01	-4.82125E-03
26.90	1.98627E-04	-7.43437E-01	-1.41434E-02	2.01678E 02	-1.37167E-02	7.71428E-01	-4.82148E-03
27.00	2.00106E-04	-7.49023E-01	-1.42962E-02	2.01689E 02	-1.38662E-02	7.77118E-01	-4.82171E-03
27.10	2.01591E-04	-7.54631E-01	-1.44501E-02	2.01701E 02	-1.40168E-02	7.82828E-01	-4.82193E-03
27.20	2.03082E-04	-7.60259E-01	-1.46052E-02	2.01712E 02	-1.41684E-02	7.88560E-01	-4.82216E-03
27.30	2.04578E-04	-7.65909E-01	-1.47613E-02	2.01723E 02	-1.43211E-02	7.94312E-01	-4.82238E-03
27.40	2.06079E-04	-7.71579E-01	-1.49185E-02	2.01733E 02	-1.44749E-02	8.00085E-01	-4.82260E-03
27.50	2.07586E-04	-7.77270E-01	-1.50769E-02	2.01744E 02	-1.46299E-02	8.05879E-01	-4.82282E-03
27.60	2.09098E-04	-7.82982E-01	-1.52363E-02	2.01755E 02	-1.47859E-02	8.11694E-01	-4.82303E-03
27.70	2.10616E-04	-7.88714E-01	-1.53969E-02	2.01766E 02	-1.49430E-02	8.17530E-01	-4.82325E-03
27.80	2.12140E-04	-7.94468E-01	-1.55586E-02	2.01776E 02	-1.51012E-02	8.23386E-01	-4.82346E-03
27.90	2.13669E-04	-8.00242E-01	-1.57215E-02	2.01787E 02	-1.52606E-02	8.29264E-01	-4.82367E-03
28.00	2.15203E-04	-8.06038E-01	-1.58854E-02	2.01797E 02	-1.54210E-02	8.35162E-01	-4.82389E-03
28.10	2.16743E-04	-8.11854E-01	-1.60505E-02	2.01808E 02	-1.55826E-02	8.41081E-01	-4.82410E-03
28.20	2.18288E-04	-8.17691E-01	-1.62167E-02	2.01818E 02	-1.57453E-02	8.47021E-01	-4.82430E-03
28.30	2.19839E-04	-8.23548E-01	-1.63841E-02	2.01828E 02	-1.59091E-02	8.52982E-01	-4.82451E-03
28.40	2.21395E-04	-8.29427E-01	-1.65526E-02	2.01838E 02	-1.60741E-02	8.58963E-01	-4.82472E-03
28.50	2.22957E-04	-8.35327E-01	-1.67223E-02	2.01848E 02	-1.62402E-02	8.64966E-01	-4.82492E-03
28.60	2.24524E-04	-8.41247E-01	-1.68931E-02	2.01858E 02	-1.64074E-02	8.70989E-01	-4.82512E-03
28.70	2.26097E-04	-8.47188E-01	-1.70651E-02	2.01868E 02	-1.65758E-02	8.77033E-01	-4.82532E-03
28.80	2.27676E-04	-8.53150E-01	-1.72382E-02	2.01878E 02	-1.67453E-02	8.83098E-01	-4.82552E-03
28.90	2.29259E-04	-8.59133E-01	-1.74125E-02	2.01888E 02	-1.69160E-02	8.89184E-01	-4.82572E-03
29.00	2.30849E-04	-8.65137E-01	-1.75879E-02	2.01897E 02	-1.70878E-02	8.95290E-01	-4.82592E-03
29.10	2.32443E-04	-8.71161E-01	-1.77646E-02	2.01907E 02	-1.72608E-02	9.01418E-01	-4.82612E-03
29.20	2.34044E-04	-8.77207E-01	-1.79424E-02	2.01917E 02	-1.74349E-02	9.07566E-01	-4.82631E-03
29.30	2.35649E-04	-8.83273E-01	-1.81214E-02	2.01926E 02	-1.76102E-02	9.13735E-01	-4.82651E-03
29.40	2.37261E-04	-8.89360E-01	-1.83016E-02	2.01936E 02	-1.77867E-02	9.19925E-01	-4.82670E-03
29.50	2.38877E-04	-8.95468E-01	-1.84829E-02	2.01945E 02	-1.79644E-02	9.26136E-01	-4.82689E-03
29.60	2.40499E-04	-9.01597E-01	-1.86655E-02	2.01954E 02	-1.81432E-02	9.32368E-01	-4.82708E-03
29.70	2.42127E-04	-9.07746E-01	-1.88492E-02	2.01964E 02	-1.83233E-02	9.38620E-01	-4.82727E-03
29.80	2.43760E-04	-9.13917E-01	-1.90342E-02	2.01973E 02	-1.85045E-02	9.44893E-01	-4.82746E-03
29.90	2.45399E-04	-9.20108E-01	-1.92203E-02	2.01982E 02	-1.86869E-02	9.51187E-01	-4.82764E-03
30.00	2.47043E-04	-9.26320E-01	-1.94077E-02	2.01991E 02	-1.88704E-02	9.57502E-01	-4.82783E-03

## ELECTRON RADIAL FUNCTIONS

Electron	$Z=1$			$A=1$			$\rho=1.2A^{1/3}F$		
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$		
30.10	1.02333E 00	-2.98775E 01	-1.05097E 00	4.79200E-04	-1.02239E 00	3.08853E 01	-1.38589E 03		
30.20	1.02333E 00	-2.99781E 01	-1.05762E 00	4.79557E-04	-1.02893E 00	3.09859E 01	-1.38675E 03		
30.30	1.02333E 00	-3.00787E 01	-1.06429E 00	4.79911E-04	-1.03550E 00	3.10864E 01	-1.38761E 03		
30.40	1.02333E 00	-3.01793E 01	-1.07098E 00	4.80263E-04	-1.04208E 00	3.11870E 01	-1.38846E 03		
30.50	1.02333E 00	-3.02799E 01	-1.07769E 00	4.80612E-04	-1.04869E 00	3.12876E 01	-1.38931E 03		
30.60	1.02333E 00	-3.03805E 01	-1.08442E 00	4.80958E-04	-1.05532E 00	3.13882E 01	-1.39015E 03		
30.70	1.02333E 00	-3.04811E 01	-1.09117E 00	4.81301E-04	-1.06196E 00	3.14888E 01	-1.39099E 03		
30.80	1.02333E 00	-3.05817E 01	-1.09795E 00	4.81642E-04	-1.06863E 00	3.15893E 01	-1.39183E 03		
30.90	1.02333E 00	-3.06822E 01	-1.10474E 00	4.81980E-04	-1.07532E 00	3.16899E 01	-1.39266E 03		
31.00	1.02333E 00	-3.07828E 01	-1.11156E 00	4.82316E-04	-1.08203E 00	3.17905E 01	-1.39350E 03		
31.10	1.02333E 00	-3.08834E 01	-1.11839E 00	4.82648E-04	-1.08877E 00	3.18910E 01	-1.39432E 03		
31.20	1.02333E 00	-3.09840E 01	-1.12525E 00	4.82979E-04	-1.09552E 00	3.19916E 01	-1.39515E 03		
31.30	1.02333E 00	-3.10845E 01	-1.13213E 00	4.83306E-04	-1.10229E 00	3.20921E 01	-1.39597E 03		
31.40	1.02333E 00	-3.11851E 01	-1.13903E 00	4.83632E-04	-1.10909E 00	3.21927E 01	-1.39679E 03		
31.50	1.02333E 00	-3.12857E 01	-1.14595E 00	4.83955E-04	-1.11590E 00	3.22932E 01	-1.39760E 03		
31.60	1.02333E 00	-3.13862E 01	-1.15289E 00	4.84275E-04	-1.12274E 00	3.23938E 01	-1.39841E 03		
31.70	1.02333E 00	-3.14868E 01	-1.15985E 00	4.84593E-04	-1.12959E 00	3.24943E 01	-1.39922E 03		
31.80	1.02333E 00	-3.15873E 01	-1.16683E 00	4.84908E-04	-1.13647E 00	3.25948E 01	-1.40002E 03		
31.90	1.02333E 00	-3.16879E 01	-1.17383E 00	4.85221E-04	-1.14337E 00	3.26954E 01	-1.40082E 03		
32.00	1.02333E 00	-3.17884E 01	-1.18086E 00	4.85532E-04	-1.15029E 00	3.27959E 01	-1.40162E 03		
32.10	1.02333E 00	-3.18890E 01	-1.18790E 00	4.85840E-04	-1.15723E 00	3.28964E 01	-1.40241E 03		
32.20	1.02333E 00	-3.19895E 01	-1.19497E 00	4.86147E-04	-1.16419E 00	3.29969E 01	-1.40320E 03		
32.30	1.02333E 00	-3.20900E 01	-1.20205E 00	4.86450E-04	-1.17117E 00	3.30974E 01	-1.40399E 03		
32.40	1.02333E 00	-3.21906E 01	-1.20916E 00	4.86752E-04	-1.17817E 00	3.31980E 01	-1.40477E 03		
32.50	1.02333E 00	-3.22911E 01	-1.21629E 00	4.87051E-04	-1.18519E 00	3.32985E 01	-1.40555E 03		
32.60	1.02333E 00	-3.23916E 01	-1.22344E 00	4.87348E-04	-1.19224E 00	3.33990E 01	-1.40633E 03		
32.70	1.02333E 00	-3.24921E 01	-1.23061E 00	4.87643E-04	-1.19930E 00	3.34995E 01	-1.40711E 03		
32.80	1.02333E 00	-3.25926E 01	-1.23780E 00	4.87935E-04	-1.20639E 00	3.36000E 01	-1.40788E 03		
32.90	1.02333E 00	-3.26932E 01	-1.24501E 00	4.88226E-04	-1.21349E 00	3.37005E 01	-1.40865E 03		
33.00	1.02333E 00	-3.27937E 01	-1.25224E 00	4.88514E-04	-1.22062E 00	3.38010E 01	-1.40941E 03		
33.10	1.02333E 00	-3.28942E 01	-1.25949E 00	4.88799E-04	-1.22777E 00	3.39014E 01	-1.41018E 03		
33.20	1.02333E 00	-3.29947E 01	-1.26676E 00	4.89083E-04	-1.23493E 00	3.40019E 01	-1.41094E 03		
33.30	1.02333E 00	-3.30952E 01	-1.27406E 00	4.89365E-04	-1.24212E 00	3.41024E 01	-1.41169E 03		
33.40	1.02333E 00	-3.31957E 01	-1.28137E 00	4.89644E-04	-1.24933E 00	3.42029E 01	-1.41245E 03		
33.50	1.02333E 00	-3.32961E 01	-1.28871E 00	4.89922E-04	-1.25656E 00	3.43034E 01	-1.41320E 03		
33.60	1.02333E 00	-3.33966E 01	-1.29606E 00	4.90197E-04	-1.26381E 00	3.44038E 01	-1.41395E 03		
33.70	1.02333E 00	-3.34971E 01	-1.30344E 00	4.90471E-04	-1.27109E 00	3.45043E 01	-1.41469E 03		
33.80	1.02333E 00	-3.35976E 01	-1.31084E 00	4.90743E-04	-1.27838E 00	3.46047E 01	-1.41544E 03		
33.90	1.02333E 00	-3.36981E 01	-1.31826E 00	4.91012E-04	-1.28569E 00	3.47052E 01	-1.41618E 03		
34.00	1.02333E 00	-3.37985E 01	-1.32569E 00	4.91279E-04	-1.29303E 00	3.48057E 01	-1.41692E 03		
34.10	1.02332E 00	-3.38990E 01	-1.33315E 00	4.91544E-04	-1.30038E 00	3.49061E 01	-1.41765E 03		
34.20	1.02332E 00	-3.39995E 01	-1.34064E 00	4.91808E-04	-1.30776E 00	3.50065E 01	-1.41838E 03		
34.30	1.02332E 00	-3.40999E 01	-1.34814E 00	4.92069E-04	-1.31516E 00	3.51070E 01	-1.41911E 03		
34.40	1.02332E 00	-3.42004E 01	-1.35566E 00	4.92329E-04	-1.32257E 00	3.52074E 01	-1.41984E 03		
34.50	1.02332E 00	-3.43008E 01	-1.36320E 00	4.92586E-04	-1.33001E 00	3.53079E 01	-1.42056E 03		
34.60	1.02332E 00	-3.44013E 01	-1.37077E 00	4.92842E-04	-1.33747E 00	3.54083E 01	-1.42129E 03		
34.70	1.02332E 00	-3.45017E 01	-1.37835E 00	4.93096E-04	-1.34495E 00	3.55087E 01	-1.42201E 03		
34.80	1.02332E 00	-3.46022E 01	-1.38596E 00	4.93347E-04	-1.35245E 00	3.56091E 01	-1.42272E 03		
34.90	1.02332E 00	-3.47026E 01	-1.39358E 00	4.93598E-04	-1.35997E 00	3.57096E 01	-1.42344E 03		
35.00	1.02332E 00	-3.48030E 01	-1.40123E 00	4.93847E-04	-1.36751E 00	3.58100E 01	-1.42415E 03		
35.10	1.02332E 00	-3.49034E 01	-1.40890E 00	4.94093E-04	-1.37508E 00	3.59104E 01	-1.42486E 03		
35.20	1.02332E 00	-3.50039E 01	-1.41659E 00	4.94337E-04	-1.38266E 00	3.60108E 01	-1.42556E 03		
35.30	1.02332E 00	-3.51043E 01	-1.42429E 00	4.94580E-04	-1.39027E 00	3.61112E 01	-1.42627E 03		
35.40	1.02332E 00	-3.52047E 01	-1.43202E 00	4.94821E-04	-1.39789E 00	3.62116E 01	-1.42697E 03		
35.50	1.02332E 00	-3.53051E 01	-1.43978E 00	4.95060E-04	-1.40554E 00	3.63120E 01	-1.42767E 03		
35.60	1.02332E 00	-3.54055E 01	-1.44755E 00	4.95298E-04	-1.41320E 00	3.64124E 01	-1.42837E 03		
35.70	1.02332E 00	-3.55059E 01	-1.45534E 00	4.95533E-04	-1.42089E 00	3.65127E 01	-1.42906E 03		
35.80	1.02332E 00	-3.56063E 01	-1.46315E 00	4.95767E-04	-1.42860E 00	3.66131E 01	-1.42975E 03		
35.90	1.02332E 00	-3.57067E 01	-1.47099E 00	4.95999E-04	-1.43633E 00	3.67135E 01	-1.43044E 03		
36.00	1.02332E 00	-3.58071E 01	-1.47884E 00	4.96230E-04	-1.44408E 00	3.68139E 01	-1.43113E 03		



## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=1$		$A=1$		$\rho=1.2A^{1/3}F$		Electron	
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$		
30.10	2.48693E-04	-9.32554E-01	-1.95963E-02	2.02000E 02	-1.90552E-02	9.63838E-01	-4.82801E-03		
30.20	2.50348E-04	-9.38807E-01	-1.97861E-02	2.02009E 02	-1.92412E-02	9.70195E-01	-4.82819E-03		
30.30	2.52009E-04	-9.45082E-01	-1.99771E-02	2.02018E 02	-1.94284E-02	9.76572E-01	-4.82838E-03		
30.40	2.53675E-04	-9.51377E-01	-2.01693E-02	2.02026E 02	-1.96168E-02	9.82970E-01	-4.82856E-03		
30.50	2.55347E-04	-9.57694E-01	-2.03627E-02	2.02035E 02	-1.98064E-02	9.89390E-01	-4.82873E-03		
30.60	2.57024E-04	-9.64031E-01	-2.05574E-02	2.02044E 02	-1.99973E-02	9.95829E-01	-4.82891E-03		
30.70	2.58706E-04	-9.70389E-01	-2.07533E-02	2.02052E 02	-2.01893E-02	1.00229E 00	-4.82909E-03		
30.80	2.60394E-04	-9.76768E-01	-2.09505E-02	2.02061E 02	-2.03826E-02	1.00877E 00	-4.82927E-03		
30.90	2.62088E-04	-9.83167E-01	-2.11489E-02	2.02070E 02	-2.05771E-02	1.01527E 00	-4.82944E-03		
31.00	2.63787E-04	-9.89588E-01	-2.13485E-02	2.02078E 02	-2.07729E-02	1.02180E 00	-4.82962E-03		
31.10	2.65491E-04	-9.96029E-01	-2.15494E-02	2.02086E 02	-2.09698E-02	1.02834E 00	-4.82979E-03		
31.20	2.67201E-04	-1.00249E 00	-2.17516E-02	2.02095E 02	-2.11680E-02	1.03491E 00	-4.82996E-03		
31.30	2.68917E-04	-1.00897E 00	-2.19549E-02	2.02103E 02	-2.13675E-02	1.04149E 00	-4.83013E-03		
31.40	2.70638E-04	-1.01548E 00	-2.21596E-02	2.02111E 02	-2.15682E-02	1.04810E 00	-4.83030E-03		
31.50	2.72365E-04	-1.02200E 00	-2.23655E-02	2.02119E 02	-2.17702E-02	1.05472E 00	-4.83047E-03		
31.60	2.74097E-04	-1.02855E 00	-2.25727E-02	2.02128E 02	-2.19734E-02	1.06137E 00	-4.83064E-03		
31.70	2.75834E-04	-1.03511E 00	-2.27812E-02	2.02136E 02	-2.21779E-02	1.06804E 00	-4.83080E-03		
31.80	2.77577E-04	-1.04170E 00	-2.29910E-02	2.02144E 02	-2.23836E-02	1.07473E 00	-4.83097E-03		
31.90	2.79325E-04	-1.04831E 00	-2.32020E-02	2.02152E 02	-2.25906E-02	1.08144E 00	-4.83113E-03		
32.00	2.81079E-04	-1.05494E 00	-2.34143E-02	2.02160E 02	-2.27989E-02	1.08817E 00	-4.83130E-03		
32.10	2.82839E-04	-1.06159E 00	-2.36279E-02	2.02168E 02	-2.30084E-02	1.09493E 00	-4.83146E-03		
32.20	2.84604E-04	-1.06826E 00	-2.38428E-02	2.02175E 02	-2.32193E-02	1.10170E 00	-4.83162E-03		
32.30	2.86374E-04	-1.07495E 00	-2.40590E-02	2.02183E 02	-2.34314E-02	1.10849E 00	-4.83178E-03		
32.40	2.88150E-04	-1.08166E 00	-2.42765E-02	2.02191E 02	-2.36448E-02	1.11531E 00	-4.83194E-03		
32.50	2.89932E-04	-1.08839E 00	-2.44952E-02	2.02199E 02	-2.38595E-02	1.12214E 00	-4.83210E-03		
32.60	2.91718E-04	-1.09515E 00	-2.47153E-02	2.02206E 02	-2.40755E-02	1.12900E 00	-4.83226E-03		
32.70	2.93511E-04	-1.10192E 00	-2.49368E-02	2.02214E 02	-2.42927E-02	1.13587E 00	-4.83242E-03		
32.80	2.95309E-04	-1.10872E 00	-2.51595E-02	2.02221E 02	-2.45113E-02	1.14277E 00	-4.83257E-03		
32.90	2.97112E-04	-1.11553E 00	-2.53835E-02	2.02229E 02	-2.47312E-02	1.14969E 00	-4.83273E-03		
33.00	2.98921E-04	-1.12237E 00	-2.56089E-02	2.02236E 02	-2.49524E-02	1.15663E 00	-4.83288E-03		
33.10	3.00735E-04	-1.12923E 00	-2.58356E-02	2.02244E 02	-2.51749E-02	1.16359E 00	-4.83304E-03		
33.20	3.02555E-04	-1.13611E 00	-2.60636E-02	2.02251E 02	-2.53988E-02	1.17057E 00	-4.83319E-03		
33.30	3.04380E-04	-1.14300E 00	-2.62930E-02	2.02258E 02	-2.56239E-02	1.17757E 00	-4.83334E-03		
33.40	3.06211E-04	-1.14992E 00	-2.65237E-02	2.02265E 02	-2.58504E-02	1.18460E 00	-4.83349E-03		
33.50	3.08048E-04	-1.15687E 00	-2.67557E-02	2.02273E 02	-2.60782E-02	1.19164E 00	-4.83364E-03		
33.60	3.09889E-04	-1.16383E 00	-2.69891E-02	2.02280E 02	-2.63073E-02	1.19870E 00	-4.83379E-03		
33.70	3.11737E-04	-1.17081E 00	-2.72239E-02	2.02287E 02	-2.65378E-02	1.20579E 00	-4.83394E-03		
33.80	3.13589E-04	-1.17781E 00	-2.74600E-02	2.02294E 02	-2.67696E-02	1.21289E 00	-4.83409E-03		
33.90	3.15448E-04	-1.18484E 00	-2.76974E-02	2.02301E 02	-2.70028E-02	1.22002E 00	-4.83423E-03		
34.00	3.17311E-04	-1.19188E 00	-2.79362E-02	2.02308E 02	-2.72373E-02	1.22717E 00	-4.83438E-03		
34.10	3.19181E-04	-1.19895E 00	-2.81764E-02	2.02315E 02	-2.74732E-02	1.23434E 00	-4.83452E-03		
34.20	3.21055E-04	-1.20603E 00	-2.84179E-02	2.02322E 02	-2.77104E-02	1.24152E 00	-4.83467E-03		
34.30	3.22936E-04	-1.21314E 00	-2.86609E-02	2.02329E 02	-2.79490E-02	1.24873E 00	-4.83481E-03		
34.40	3.24821E-04	-1.22027E 00	-2.89052E-02	2.02336E 02	-2.81889E-02	1.25596E 00	-4.83495E-03		
34.50	3.26712E-04	-1.22742E 00	-2.91509E-02	2.02342E 02	-2.84302E-02	1.26322E 00	-4.83509E-03		
34.60	3.28609E-04	-1.23459E 00	-2.93979E-02	2.02349E 02	-2.86729E-02	1.27049E 00	-4.83524E-03		
34.70	3.30511E-04	-1.24178E 00	-2.96464E-02	2.02356E 02	-2.89170E-02	1.27778E 00	-4.83538E-03		
34.80	3.32419E-04	-1.24899E 00	-2.98962E-02	2.02363E 02	-2.91624E-02	1.28509E 00	-4.83552E-03		
34.90	3.34332E-04	-1.25622E 00	-3.01475E-02	2.02369E 02	-2.94093E-02	1.29243E 00	-4.83565E-03		
35.00	3.36251E-04	-1.26348E 00	-3.04001E-02	2.02376E 02	-2.96575E-02	1.29978E 00	-4.83579E-03		
35.10	3.38175E-04	-1.27075E 00	-3.06542E-02	2.02382E 02	-2.99071E-02	1.30716E 00	-4.83593E-03		
35.20	3.40105E-04	-1.27804E 00	-3.09096E-02	2.02389E 02	-3.01581E-02	1.31456E 00	-4.83607E-03		
35.30	3.42040E-04	-1.28536E 00	-3.11665E-02	2.02395E 02	-3.04105E-02	1.32197E 00	-4.83620E-03		
35.40	3.43980E-04	-1.29269E 00	-3.14248E-02	2.02402E 02	-3.06643E-02	1.32941E 00	-4.83634E-03		
35.50	3.45926E-04	-1.30005E 00	-3.16845E-02	2.02408E 02	-3.09195E-02	1.33687E 00	-4.83647E-03		
35.60	3.47878E-04	-1.30743E 00	-3.19456E-02	2.02415E 02	-3.11761E-02	1.34435E 00	-4.83660E-03		
35.70	3.49835E-04	-1.31483E 00	-3.22082E-02	2.02421E 02	-3.14341E-02	1.35185E 00	-4.83674E-03		
35.80	3.51798E-04	-1.32225E 00	-3.24722E-02	2.02427E 02	-3.16936E-02	1.35937E 00	-4.83687E-03		
35.90	3.53766E-04	-1.32969E 00	-3.27376E-02	2.02433E 02	-3.19544E-02	1.36692E 00	-4.83700E-03		
36.00	3.55739E-04	-1.33715E 00	-3.30045E-02	2.02440E 02	-3.22167E-02	1.37448E 00	-4.83713E-03		

ELECTRON RADIAL FUNCTIONS

Electron	$Z=1$		$A=1$		$\rho=1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
36.10	1.02332E 00	-3.59075E 01	-1.48672E 00	4.96459E-04	-1.45185E 00	3.69143E 01	-1.43182E 03			
36.20	1.02332E 00	-3.60079E 01	-1.49461E 00	4.96686E-04	-1.45964E 00	3.70146E 01	-1.43250E 03			
36.30	1.02332E 00	-3.61083E 01	-1.50253E 00	4.96911E-04	-1.46745E 00	3.71150E 01	-1.43318E 03			
36.40	1.02332E 00	-3.62087E 01	-1.51047E 00	4.97135E-04	-1.47529E 00	3.72153E 01	-1.43386E 03			
36.50	1.02332E 00	-3.63090E 01	-1.51842E 00	4.97357E-04	-1.48314E 00	3.73157E 01	-1.43454E 03			
36.60	1.02332E 00	-3.64094E 01	-1.52640E 00	4.97577E-04	-1.49101E 00	3.74160E 01	-1.43521E 03			
36.70	1.02332E 00	-3.65098E 01	-1.53440E 00	4.97797E-04	-1.49891E 00	3.75164E 01	-1.43588E 03			
36.80	1.02332E 00	-3.66101E 01	-1.54242E 00	4.98014E-04	-1.50682E 00	3.76167E 01	-1.43655E 03			
36.90	1.02332E 00	-3.67105E 01	-1.55046E 00	4.98230E-04	-1.51476E 00	3.77171E 01	-1.43722E 03			
37.00	1.02332E 00	-3.68108E 01	-1.55853E 00	4.98444E-04	-1.52272E 00	3.78174E 01	-1.43789E 03			
37.10	1.02332E 00	-3.69112E 01	-1.56661E 00	4.98657E-04	-1.53070E 00	3.79177E 01	-1.43855E 03			
37.20	1.02332E 00	-3.70115E 01	-1.57471E 00	4.98867E-04	-1.53869E 00	3.80181E 01	-1.43922E 03			
37.30	1.02332E 00	-3.71119E 01	-1.58284E 00	4.99077E-04	-1.54671E 00	3.81184E 01	-1.43987E 03			
37.40	1.02332E 00	-3.72122E 01	-1.59098E 00	4.99284E-04	-1.55475E 00	3.82187E 01	-1.44053E 03			
37.50	1.02332E 00	-3.73125E 01	-1.59915E 00	4.99491E-04	-1.56281E 00	3.83190E 01	-1.44119E 03			
37.60	1.02332E 00	-3.74129E 01	-1.60733E 00	4.99696E-04	-1.57090E 00	3.84193E 01	-1.44184E 03			
37.70	1.02332E 00	-3.75132E 01	-1.61554E 00	4.99899E-04	-1.57900E 00	3.85196E 01	-1.44249E 03			
37.80	1.02332E 00	-3.76135E 01	-1.62377E 00	5.00100E-04	-1.58712E 00	3.86199E 01	-1.44314E 03			
37.90	1.02332E 00	-3.77138E 01	-1.63202E 00	5.00300E-04	-1.59527E 00	3.87202E 01	-1.44379E 03			
38.00	1.02332E 00	-3.78141E 01	-1.64029E 00	5.00500E-04	-1.60343E 00	3.88205E 01	-1.44444E 03			
38.10	1.02332E 00	-3.79145E 01	-1.64858E 00	5.00697E-04	-1.61162E 00	3.89208E 01	-1.44508E 03			
38.20	1.02332E 00	-3.80148E 01	-1.65689E 00	5.00893E-04	-1.61982E 00	3.90211E 01	-1.44572E 03			
38.30	1.02332E 00	-3.81151E 01	-1.66522E 00	5.01088E-04	-1.62805E 00	3.91214E 01	-1.44636E 03			
38.40	1.02332E 00	-3.82153E 01	-1.67357E 00	5.01281E-04	-1.63630E 00	3.92216E 01	-1.44700E 03			
38.50	1.02332E 00	-3.83156E 01	-1.68194E 00	5.01472E-04	-1.64456E 00	3.93219E 01	-1.44764E 03			
38.60	1.02332E 00	-3.84159E 01	-1.69034E 00	5.01663E-04	-1.65285E 00	3.94222E 01	-1.44827E 03			
38.70	1.02332E 00	-3.85162E 01	-1.69875E 00	5.01851E-04	-1.66116E 00	3.95224E 01	-1.44891E 03			
38.80	1.02332E 00	-3.86165E 01	-1.70719E 00	5.02039E-04	-1.66949E 00	3.96227E 01	-1.44954E 03			
38.90	1.02332E 00	-3.87168E 01	-1.71564E 00	5.02225E-04	-1.67785E 00	3.97230E 01	-1.45017E 03			
39.00	1.02332E 00	-3.88170E 01	-1.72412E 00	5.02409E-04	-1.68622E 00	3.98232E 01	-1.45079E 03			
39.10	1.02331E 00	-3.89173E 01	-1.73262E 00	5.02594E-04	-1.69461E 00	3.99235E 01	-1.45142E 03			
39.20	1.02331E 00	-3.90176E 01	-1.74114E 00	5.02774E-04	-1.70302E 00	4.00237E 01	-1.45205E 03			
39.30	1.02331E 00	-3.91178E 01	-1.74967E 00	5.02956E-04	-1.71146E 00	4.01239E 01	-1.45267E 03			
39.40	1.02331E 00	-3.92181E 01	-1.75823E 00	5.03135E-04	-1.71991E 00	4.02242E 01	-1.45329E 03			
39.50	1.02331E 00	-3.93183E 01	-1.76681E 00	5.03313E-04	-1.72839E 00	4.03244E 01	-1.45390E 03			
39.60	1.02331E 00	-3.94186E 01	-1.77542E 00	5.03490E-04	-1.73688E 00	4.04246E 01	-1.45452E 03			
39.70	1.02331E 00	-3.95188E 01	-1.78404E 00	5.03665E-04	-1.74540E 00	4.05248E 01	-1.45514E 03			
39.80	1.02331E 00	-3.96190E 01	-1.79268E 00	5.03840E-04	-1.75394E 00	4.06250E 01	-1.45575E 03			
39.90	1.02331E 00	-3.97193E 01	-1.80134E 00	5.04012E-04	-1.76250E 00	4.07253E 01	-1.45636E 03			
40.00	1.02331E 00	-3.98195E 01	-1.81003E 00	5.04183E-04	-1.77108E 00	4.08255E 01	-1.45697E 03			
40.10	1.02331E 00	-3.99197E 01	-1.81873E 00	5.04354E-04	-1.77968E 00	4.09257E 01	-1.45758E 03			
40.20	1.02331E 00	-4.00199E 01	-1.82746E 00	5.04522E-04	-1.78830E 00	4.10259E 01	-1.45819E 03			
40.30	1.02331E 00	-4.01201E 01	-1.83620E 00	5.04690E-04	-1.79694E 00	4.11261E 01	-1.45880E 03			
40.40	1.02331E 00	-4.02204E 01	-1.84497E 00	5.04857E-04	-1.80560E 00	4.12262E 01	-1.45940E 03			
40.50	1.02331E 00	-4.03206E 01	-1.85376E 00	5.05022E-04	-1.81428E 00	4.13264E 01	-1.46000E 03			
40.60	1.02331E 00	-4.04208E 01	-1.86256E 00	5.05186E-04	-1.82299E 00	4.14266E 01	-1.46060E 03			
40.70	1.02331E 00	-4.05210E 01	-1.87139E 00	5.05349E-04	-1.83171E 00	4.15268E 01	-1.46120E 03			
40.80	1.02331E 00	-4.06211E 01	-1.88024E 00	5.05510E-04	-1.84045E 00	4.16270E 01	-1.46180E 03			
40.90	1.02331E 00	-4.07213E 01	-1.88911E 00	5.05671E-04	-1.84922E 00	4.17271E 01	-1.46240E 03			
41.00	1.02331E 00	-4.08215E 01	-1.89800E 00	5.05830E-04	-1.85801E 00	4.18273E 01	-1.46299E 03			
41.10	1.02331E 00	-4.09217E 01	-1.90691E 00	5.05988E-04	-1.86681E 00	4.19274E 01	-1.46359E 03			
41.20	1.02331E 00	-4.10219E 01	-1.91585E 00	5.06144E-04	-1.87564E 00	4.20276E 01	-1.46418E 03			
41.30	1.02331E 00	-4.11220E 01	-1.92480E 00	5.06300E-04	-1.88449E 00	4.21277E 01	-1.46477E 03			
41.40	1.02331E 00	-4.12222E 01	-1.93377E 00	5.06454E-04	-1.89336E 00	4.22279E 01	-1.46536E 03			
41.50	1.02331E 00	-4.13224E 01	-1.94277E 00	5.06608E-04	-1.90225E 00	4.23280E 01	-1.46594E 03			
41.60	1.02331E 00	-4.14225E 01	-1.95178E 00	5.06759E-04	-1.91116E 00	4.24282E 01	-1.46653E 03			
41.70	1.02331E 00	-4.15227E 01	-1.96082E 00	5.06910E-04	-1.92009E 00	4.25283E 01	-1.46712E 03			
41.80	1.02331E 00	-4.16228E 01	-1.96987E 00	5.07060E-04	-1.92904E 00	4.26284E 01	-1.46770E 03			
41.90	1.02331E 00	-4.17230E 01	-1.97895E 00	5.07209E-04	-1.93801E 00	4.27285E 01	-1.46828E 03			
42.00	1.02331E 00	-4.18231E 01	-1.98805E 00	5.07356E-04	-1.94701E 00	4.28287E 01	-1.46886E 03			



## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$f_2$	$Z=1$	$A=1$	$\rho=1.2 A^{1/3} F$	Electron	
			$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$
36.10	3.57718E-04	-1.34463E 00	-3.32728E-02	2.02446E 02	-3.24805E-02	1.38206E 00	-4.83726E-03
36.20	3.59703E-04	-1.35213E 00	-3.35426E-02	2.02452E 02	-3.27456E-02	1.38967E 00	-4.83739E-03
36.30	3.61693E-04	-1.35965E 00	-3.38138E-02	2.02458E 02	-3.30122E-02	1.39729E 00	-4.83752E-03
36.40	3.63688E-04	-1.36720E 00	-3.40864E-02	2.02464E 02	-3.32803E-02	1.40494E 00	-4.83765E-03
36.50	3.65689E-04	-1.37476E 00	-3.43606E-02	2.02470E 02	-3.35498E-02	1.41261E 00	-4.83777E-03
36.60	3.67696E-04	-1.38235E 00	-3.46361E-02	2.02476E 02	-3.38207E-02	1.42029E 00	-4.83790E-03
36.70	3.69708E-04	-1.38996E 00	-3.49132E-02	2.02482E 02	-3.40931E-02	1.42800E 00	-4.83803E-03
36.80	3.71725E-04	-1.39758E 00	-3.51917E-02	2.02488E 02	-3.43669E-02	1.43573E 00	-4.83815E-03
36.90	3.73748E-04	-1.40523E 00	-3.54717E-02	2.02494E 02	-3.46422E-02	1.44348E 00	-4.83828E-03
37.00	3.75777E-04	-1.41290E 00	-3.57532E-02	2.02500E 02	-3.49190E-02	1.45125E 00	-4.83840E-03
37.10	3.77810E-04	-1.42059E 00	-3.60361E-02	2.02506E 02	-3.51972E-02	1.45904E 00	-4.83852E-03
37.20	3.79850E-04	-1.42830E 00	-3.63206E-02	2.02512E 02	-3.54769E-02	1.46686E 00	-4.83865E-03
37.30	3.81895E-04	-1.43603E 00	-3.66065E-02	2.02517E 02	-3.57581E-02	1.47469E 00	-4.83877E-03
37.40	3.83945E-04	-1.44378E 00	-3.68939E-02	2.02523E 02	-3.60408E-02	1.48254E 00	-4.83889E-03
37.50	3.86001E-04	-1.45155E 00	-3.71829E-02	2.02529E 02	-3.63249E-02	1.49042E 00	-4.83901E-03
37.60	3.88062E-04	-1.45935E 00	-3.74733E-02	2.02535E 02	-3.66106E-02	1.49831E 00	-4.83913E-03
37.70	3.90129E-04	-1.46716E 00	-3.77652E-02	2.02540E 02	-3.68977E-02	1.50623E 00	-4.83925E-03
37.80	3.92202E-04	-1.47500E 00	-3.80586E-02	2.02546E 02	-3.71863E-02	1.51417E 00	-4.83937E-03
37.90	3.94279E-04	-1.48285E 00	-3.83536E-02	2.02551E 02	-3.74765E-02	1.52212E 00	-4.83949E-03
38.00	3.96363E-04	-1.49073E 00	-3.86501E-02	2.02557E 02	-3.77681E-02	1.53010E 00	-4.83960E-03
38.10	3.98452E-04	-1.49862E 00	-3.89480E-02	2.02563E 02	-3.80612E-02	1.53810E 00	-4.83972E-03
38.20	4.00546E-04	-1.50654E 00	-3.92476E-02	2.02568E 02	-3.83559E-02	1.54612E 00	-4.83984E-03
38.30	4.02646E-04	-1.51448E 00	-3.95486E-02	2.02574E 02	-3.86520E-02	1.55416E 00	-4.83995E-03
38.40	4.04751E-04	-1.52244E 00	-3.98512E-02	2.02579E 02	-3.89497E-02	1.56222E 00	-4.84007E-03
38.50	4.06862E-04	-1.53042E 00	-4.01553E-02	2.02584E 02	-3.92489E-02	1.57030E 00	-4.84018E-03
38.60	4.08978E-04	-1.53842E 00	-4.04609E-02	2.02590E 02	-3.95497E-02	1.57841E 00	-4.84030E-03
38.70	4.11100E-04	-1.54644E 00	-4.07681E-02	2.02595E 02	-3.98519E-02	1.58653E 00	-4.84041E-03
38.80	4.13227E-04	-1.55448E 00	-4.10768E-02	2.02600E 02	-4.01557E-02	1.59467E 00	-4.84052E-03
38.90	4.15360E-04	-1.56255E 00	-4.13871E-02	2.02606E 02	-4.04610E-02	1.60284E 00	-4.84064E-03
39.00	4.17498E-04	-1.57063E 00	-4.16990E-02	2.02611E 02	-4.07679E-02	1.61103E 00	-4.84075E-03
39.10	4.19642E-04	-1.57874E 00	-4.20124E-02	2.02616E 02	-4.10763E-02	1.61923E 00	-4.84086E-03
39.20	4.21791E-04	-1.58686E 00	-4.23274E-02	2.02622E 02	-4.13863E-02	1.62746E 00	-4.84097E-03
39.30	4.23946E-04	-1.59501E 00	-4.26439E-02	2.02627E 02	-4.16978E-02	1.63571E 00	-4.84108E-03
39.40	4.26106E-04	-1.60318E 00	-4.29620E-02	2.02632E 02	-4.20109E-02	1.64398E 00	-4.84119E-03
39.50	4.28272E-04	-1.61136E 00	-4.32817E-02	2.02637E 02	-4.23255E-02	1.65227E 00	-4.84130E-03
39.60	4.30443E-04	-1.61957E 00	-4.36029E-02	2.02642E 02	-4.26417E-02	1.66058E 00	-4.84141E-03
39.70	4.32619E-04	-1.62780E 00	-4.39258E-02	2.02647E 02	-4.29595E-02	1.66891E 00	-4.84152E-03
39.80	4.34801E-04	-1.63605E 00	-4.42502E-02	2.02652E 02	-4.32789E-02	1.67726E 00	-4.84163E-03
39.90	4.36989E-04	-1.64432E 00	-4.45762E-02	2.02657E 02	-4.35998E-02	1.68563E 00	-4.84173E-03
40.00	4.39182E-04	-1.65261E 00	-4.49038E-02	2.02662E 02	-4.39223E-02	1.69402E 00	-4.84184E-03
40.10	4.41381E-04	-1.66092E 00	-4.52330E-02	2.02667E 02	-4.42464E-02	1.70244E 00	-4.84195E-03
40.20	4.43585E-04	-1.66926E 00	-4.55638E-02	2.02672E 02	-4.45721E-02	1.71087E 00	-4.84205E-03
40.30	4.45795E-04	-1.67761E 00	-4.58963E-02	2.02677E 02	-4.48993E-02	1.71933E 00	-4.84216E-03
40.40	4.48010E-04	-1.68599E 00	-4.62303E-02	2.02682E 02	-4.52282E-02	1.72780E 00	-4.84226E-03
40.50	4.50230E-04	-1.69438E 00	-4.65659E-02	2.02687E 02	-4.55587E-02	1.73630E 00	-4.84237E-03
40.60	4.52456E-04	-1.70280E 00	-4.69032E-02	2.02692E 02	-4.58907E-02	1.74482E 00	-4.84247E-03
40.70	4.54688E-04	-1.71123E 00	-4.72421E-02	2.02697E 02	-4.62244E-02	1.75336E 00	-4.84257E-03
40.80	4.56925E-04	-1.71969E 00	-4.75826E-02	2.02702E 02	-4.65597E-02	1.76192E 00	-4.84267E-03
40.90	4.59167E-04	-1.72817E 00	-4.79247E-02	2.02706E 02	-4.68966E-02	1.77050E 00	-4.84278E-03
41.00	4.61415E-04	-1.73667E 00	-4.82684E-02	2.02711E 02	-4.72351E-02	1.77910E 00	-4.84288E-03
41.10	4.63669E-04	-1.74519E 00	-4.86138E-02	2.02716E 02	-4.75753E-02	1.78772E 00	-4.84298E-03
41.20	4.65928E-04	-1.75373E 00	-4.89609E-02	2.02721E 02	-4.79170E-02	1.79636E 00	-4.84308E-03
41.30	4.68192E-04	-1.76229E 00	-4.93096E-02	2.02725E 02	-4.82604E-02	1.80502E 00	-4.84318E-03
41.40	4.70462E-04	-1.77087E 00	-4.96599E-02	2.02730E 02	-4.86055E-02	1.81371E 00	-4.84328E-03
41.50	4.72738E-04	-1.77947E 00	-5.00119E-02	2.02735E 02	-4.89521E-02	1.82241E 00	-4.84338E-03
41.60	4.75019E-04	-1.78810E 00	-5.03655E-02	2.02739E 02	-4.93004E-02	1.83113E 00	-4.84348E-03
41.70	4.77305E-04	-1.79674E 00	-5.07208E-02	2.02744E 02	-4.96504E-02	1.83988E 00	-4.84358E-03
41.80	4.79597E-04	-1.80540E 00	-5.10778E-02	2.02748E 02	-5.00020E-02	1.84865E 00	-4.84368E-03
41.90	4.81894E-04	-1.81409E 00	-5.14364E-02	2.02753E 02	-5.03553E-02	1.85743E 00	-4.84377E-03
42.00	4.84197E-04	-1.82280E 00	-5.17967E-02	2.02757E 02	-5.07102E-02	1.86624E 00	-4.84387E-03

## ELECTRON RADIAL FUNCTIONS

Electron	$Z=2$		$A=4$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
0.10	1.53362E 00	-8.66162E-03	-7.91236E-05	-6.17684E-02	-1.02246E-03	1.74892E-01	-1.19854E 01	01
0.20	1.25425E 00	-3.11565E-02	-2.85373E-04	-3.06084E-02	-1.85027E-03	3.15176E-01	-2.36547E 01	01
0.30	1.17009E 00	-6.65830E-02	-6.12509E-04	-2.02450E-02	-2.68332E-03	4.53995E-01	-3.52376E 01	01
0.40	1.13044E 00	-1.13675E-01	-1.05188E-03	-1.50451E-02	-3.52221E-03	5.90506E-01	-4.66592E 01	01
0.50	1.10785E 00	-1.70925E-01	-1.59317E-03	-1.19086E-02	-4.36870E-03	7.24236E-01	-5.78820E 01	01
0.60	1.09352E 00	-2.36775E-01	-2.22570E-03	-9.80461E-03	-5.22510E-03	8.54984E-01	-6.88806E 01	01
0.70	1.08379E 00	-3.09744E-01	-2.93936E-03	-8.29181E-03	-6.09394E-03	9.82749E-01	-7.96379E 01	01
0.80	1.07685E 00	-3.88513E-01	-3.72517E-03	-7.14956E-03	-6.97781E-03	1.10767E 00	-9.01430E 01	01
0.90	1.07173E 00	-4.71951E-01	-4.57543E-03	-6.25521E-03	-7.87920E-03	1.22997E 00	-1.00390E 02	02
1.00	1.06784E 00	-5.59121E-01	-5.48384E-03	-5.53512E-03	-8.80038E-03	1.34992E 00	-1.10378E 02	02
1.10	1.06482E 00	-6.49265E-01	-6.44526E-03	-4.94235E-03	-9.74340E-03	1.46776E 00	-1.20107E 02	02
1.20	1.06242E 00	-7.41775E-01	-7.45563E-03	-4.44551E-03	-1.07100E-02	1.58378E 00	-1.29582E 02	02
1.30	1.06049E 00	-8.36168E-01	-8.51174E-03	-4.02284E-03	-1.17017E-02	1.69819E 00	-1.38806E 02	02
1.40	1.05891E 00	-9.32063E-01	-9.61106E-03	-3.65873E-03	-1.27199E-02	1.81122E 00	-1.47787E 02	02
1.50	1.05761E 00	-1.02916E 00	-1.07516E-02	-3.34169E-03	-1.37655E-02	1.92304E 00	-1.56529E 02	02
1.60	1.05652E 00	-1.12722E 00	-1.19318E-02	-3.06309E-03	-1.48395E-02	2.03382E 00	-1.65042E 02	02
1.70	1.05560E 00	-1.22606E 00	-1.31505E-02	-2.81626E-03	-1.59427E-02	2.14369E 00	-1.73330E 02	02
1.80	1.05481E 00	-1.32554E 00	-1.44067E-02	-2.59606E-03	-1.70756E-02	2.25279E 00	-1.81403E 02	02
1.90	1.05414E 00	-1.42552E 00	-1.56996E-02	-2.39835E-03	-1.82389E-02	2.36119E 00	-1.89267E 02	02
2.00	1.05356E 00	-1.52593E 00	-1.70287E-02	-2.21985E-03	-1.94330E-02	2.46900E 00	-1.96930E 02	02
2.10	1.05305E 00	-1.62667E 00	-1.83934E-02	-2.05787E-03	-2.06582E-02	2.57629E 00	-2.04397E 02	02
2.20	1.05261E 00	-1.72770E 00	-1.97934E-02	-1.91020E-03	-2.19149E-02	2.68312E 00	-2.11676E 02	02
2.30	1.05222E 00	-1.82896E 00	-2.12283E-02	-1.77504E-03	-2.32033E-02	2.78954E 00	-2.18775E 02	02
2.40	1.05187E 00	-1.93042E 00	-2.26980E-02	-1.65084E-03	-2.45238E-02	2.89561E 00	-2.25698E 02	02
2.50	1.05156E 00	-2.03203E 00	-2.42022E-02	-1.53632E-03	-2.58764E-02	3.00136E 00	-2.32452E 02	02
2.60	1.05129E 00	-2.13378E 00	-2.57408E-02	-1.43039E-03	-2.72613E-02	3.10682E 00	-2.39042E 02	02
2.70	1.05104E 00	-2.23564E 00	-2.73136E-02	-1.33211E-03	-2.86787E-02	3.21204E 00	-2.45476E 02	02
2.80	1.05082E 00	-2.33760E 00	-2.89205E-02	-1.24069E-03	-3.01288E-02	3.31703E 00	-2.51757E 02	02
2.90	1.05062E 00	-2.43963E 00	-3.05615E-02	-1.15543E-03	-3.16116E-02	3.42181E 00	-2.57892E 02	02
3.00	1.05044E 00	-2.54173E 00	-3.22364E-02	-1.07572E-03	-3.31272E-02	3.52641E 00	-2.63885E 02	02
3.10	1.05027E 00	-2.64388E 00	-3.39452E-02	-1.00105E-03	-3.46757E-02	3.63085E 00	-2.69741E 02	02
3.20	1.05012E 00	-2.74608E 00	-3.56878E-02	-9.30938E-04	-3.62572E-02	3.73514E 00	-2.75464E 02	02
3.30	1.04998E 00	-2.84832E 00	-3.74642E-02	-8.64988E-04	-3.78717E-02	3.83929E 00	-2.81059E 02	02
3.40	1.04985E 00	-2.95059E 00	-3.92744E-02	-8.02837E-04	-3.95193E-02	3.94332E 00	-2.86530E 02	02
3.50	1.04973E 00	-3.05288E 00	-4.11183E-02	-7.44171E-04	-4.12000E-02	4.04723E 00	-2.91881E 02	02
3.60	1.04963E 00	-3.15520E 00	-4.29959E-02	-6.88696E-04	-4.29139E-02	4.15104E 00	-2.97117E 02	02
3.70	1.04953E 00	-3.25754E 00	-4.49073E-02	-6.36168E-04	-4.46611E-02	4.25476E 00	-3.02240E 02	02
3.80	1.04943E 00	-3.35990E 00	-4.68523E-02	-5.86354E-04	-4.64415E-02	4.35839E 00	-3.07254E 02	02
3.90	1.04935E 00	-3.46226E 00	-4.88309E-02	-5.39046E-04	-4.82551E-02	4.46194E 00	-3.12163E 02	02
4.00	1.04927E 00	-3.56464E 00	-5.08432E-02	-4.94063E-04	-5.01021E-02	4.56541E 00	-3.16970E 02	02
4.10	1.04919E 00	-3.66702E 00	-5.28891E-02	-4.51236E-04	-5.19824E-02	4.66881E 00	-3.21678E 02	02
4.20	1.04912E 00	-3.76941E 00	-5.49686E-02	-4.10417E-04	-5.38961E-02	4.77216E 00	-3.26291E 02	02
4.30	1.04906E 00	-3.87181E 00	-5.70817E-02	-3.71464E-04	-5.58432E-02	4.87544E 00	-3.30810E 02	02
4.40	1.04900E 00	-3.97421E 00	-5.92285E-02	-3.34257E-04	-5.78236E-02	4.97867E 00	-3.35240E 02	02
4.50	1.04894E 00	-4.07661E 00	-6.14088E-02	-2.98676E-04	-5.98375E-02	5.08184E 00	-3.39582E 02	02
4.60	1.04888E 00	-4.17901E 00	-6.36228E-02	-2.64620E-04	-6.18847E-02	5.18497E 00	-3.43839E 02	02
4.70	1.04883E 00	-4.28141E 00	-6.58703E-02	-2.31991E-04	-6.39654E-02	5.28806E 00	-3.48013E 02	02
4.80	1.04879E 00	-4.38381E 00	-6.81514E-02	-2.00704E-04	-6.60796E-02	5.39110E 00	-3.52108E 02	02
4.90	1.04874E 00	-4.48621E 00	-7.04661E-02	-1.70675E-04	-6.82272E-02	5.49410E 00	-3.56124E 02	02
5.00	1.04870E 00	-4.58861E 00	-7.28144E-02	-1.41832E-04	-7.04082E-02	5.59707E 00	-3.60066E 02	02
5.10	1.04866E 00	-4.69101E 00	-7.51962E-02	-1.14106E-04	-7.26227E-02	5.70000E 00	-3.63933E 02	02
5.20	1.04862E 00	-4.79341E 00	-7.76117E-02	-8.74324E-05	-7.48708E-02	5.80289E 00	-3.67730E 02	02
5.30	1.04858E 00	-4.89580E 00	-8.00607E-02	-6.17519E-05	-7.71523E-02	5.90576E 00	-3.71457E 02	02
5.40	1.04855E 00	-4.99819E 00	-8.25433E-02	-3.70122E-05	-7.94672E-02	6.00859E 00	-3.75116E 02	02
5.50	1.04851E 00	-5.10058E 00	-8.50594E-02	-1.31618E-05	-8.18158E-02	6.11141E 00	-3.78710E 02	02
5.60	1.04848E 00	-5.20296E 00	-8.76092E-02	9.84750E-06	-8.41977E-02	6.21419E 00	-3.82240E 02	02
5.70	1.04845E 00	-5.30534E 00	-9.01924E-02	3.20555E-05	-8.66132E-02	6.31694E 00	-3.85708E 02	02
5.80	1.04843E 00	-5.40771E 00	-9.28093E-02	5.35081E-05	-8.90622E-02	6.41968E 00	-3.89116E 02	02
5.90	1.04840E 00	-5.51008E 00	-9.54597E-02	7.42379E-05	-9.15448E-02	6.52239E 00	-3.92465E 02	02
6.00	1.04837E 00	-5.61245E 00	-9.81437E-02	9.42857E-05	-9.40608E-02	6.62508E 00	-3.95756E 02	02



## ELECTRON RADIAL FUNCTIONS

 $Z=2$  $A=4$  $\rho = 1.2A^{1/3}F$ 

Electron

$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$
0.10	1.05791E-08	-1.41357E-06	-7.51183E-09	7.35323E 00	-9.70661E-08	2.90541E-05	-6.23948E-02
0.20	3.40690E-08	-1.02251E-05	-5.44867E-08	1.46320E 01	-3.48634E-07	1.03899E-04	-3.17737E-02
0.30	7.13041E-08	-3.28095E-05	-1.75616E-07	2.16053E 01	-7.57551E-07	2.24168E-04	-2.19333E-02
0.40	1.22345E-07	-7.47115E-05	-4.02333E-07	2.81759E 01	-1.32578E-06	3.88568E-04	-1.72350E-02
0.50	1.87258E-07	-1.40447E-04	-7.62010E-07	3.42736E 01	-2.05616E-06	5.95573E-04	-1.45746E-02
0.60	2.66100E-07	-2.33488E-04	-1.27791E-06	3.98628E 01	-2.95257E-06	8.43611E-04	-1.29186E-02
0.70	3.58918E-07	-3.56374E-04	-1.96963E-06	4.49376E 01	-4.01994E-06	1.13121E-03	-1.18244E-02
0.80	4.65751E-07	-5.10881E-04	-2.85379E-06	4.95143E 01	-5.26421E-06	1.45709E-03	-1.10715E-02
0.90	5.86629E-07	-6.98195E-04	-3.94474E-06	5.36234E 01	-6.69222E-06	1.82017E-03	-1.05379E-02
1.00	7.21576E-07	-9.19084E-04	-5.25517E-06	5.73035E 01	-8.31154E-06	2.21959E-03	-1.01514E-02
1.10	8.70610E-07	-1.17401E-03	-6.79666E-06	6.05960E 01	-1.01304E-05	2.65467E-03	-9.86690E-03
1.20	1.03375E-06	-1.46325E-03	-8.58006E-06	6.35423E 01	-1.21573E-05	3.12488E-03	-9.65475E-03
1.30	1.21100E-06	-1.78694E-03	-1.06157E-05	6.61815E 01	-1.44014E-05	3.62983E-03	-9.49509E-03
1.40	1.40237E-06	-2.14512E-03	-1.29136E-05	6.85496E 01	-1.68719E-05	4.16921E-03	-9.37418E-03
1.50	1.60787E-06	-2.53781E-03	-1.54837E-05	7.06790E 01	-1.95783E-05	4.74280E-03	-9.28227E-03
1.60	1.82750E-06	-2.96496E-03	-1.83357E-05	7.25984E 01	-2.25301E-05	5.35042E-03	-9.21234E-03
1.70	2.06128E-06	-3.42655E-03	-2.14792E-05	7.43330E 01	-2.57370E-05	5.99195E-03	-9.15926E-03
1.80	2.30919E-06	-3.92250E-03	-2.49241E-05	7.59049E 01	-2.92089E-05	6.66730E-03	-9.11920E-03
1.90	2.57125E-06	-4.45277E-03	-2.86800E-05	7.73333E 01	-3.29556E-05	7.37639E-03	-9.08929E-03
2.00	2.84746E-06	-5.01730E-03	-3.27566E-05	7.86348E 01	-3.69869E-05	8.11917E-03	-9.06734E-03
2.10	3.13781E-06	-5.61604E-03	-3.71635E-05	7.98240E 01	-4.13128E-05	8.89561E-03	-9.05167E-03
2.20	3.44232E-06	-6.24894E-03	-4.19107E-05	8.09135E 01	-4.59431E-05	9.70568E-03	-9.04097E-03
2.30	3.76097E-06	-6.91594E-03	-4.70077E-05	8.19142E 01	-5.08879E-05	1.05494E-02	-9.03423E-03
2.40	4.09378E-06	-7.61701E-03	-5.24644E-05	8.28357E 01	-5.61570E-05	1.14266E-02	-9.03066E-03
2.50	4.44074E-06	-8.35211E-03	-5.82906E-05	8.36863E 01	-6.17605E-05	1.23375E-02	-9.02960E-03
2.60	4.80186E-06	-9.12121E-03	-6.44960E-05	8.44733E 01	-6.77082E-05	1.32819E-02	-9.03057E-03
2.70	5.17713E-06	-9.92427E-03	-7.10906E-05	8.52030E 01	-7.40102E-05	1.42599E-02	-9.03314E-03
2.80	5.56655E-06	-1.07613E-02	-7.80841E-05	8.58812E 01	-8.06764E-05	1.52715E-02	-9.03701E-03
2.90	5.97013E-06	-1.16322E-02	-8.54486E-05	8.65127E 01	-8.77168E-05	1.63166E-02	-9.04189E-03
3.00	6.38787E-06	-1.25370E-02	-9.33074E-05	8.71020E 01	-9.51414E-05	1.73954E-02	-9.04759E-03
3.10	6.81976E-06	-1.34756E-02	-1.01557E-04	8.76528E 01	-1.02960E-04	1.85076E-02	-9.05392E-03
3.20	7.26581E-06	-1.44481E-02	-1.10245E-04	8.81687E 01	-1.11183E-04	1.96535E-02	-9.06074E-03
3.30	7.72601E-06	-1.54545E-02	-1.19381E-04	8.86526E 01	-1.19820E-04	2.08329E-02	-9.06795E-03
3.40	8.20037E-06	-1.64946E-02	-1.28975E-04	8.91074E 01	-1.28880E-04	2.20459E-02	-9.07543E-03
3.50	8.68889E-06	-1.75686E-02	-1.39038E-04	8.95354E 01	-1.38375E-04	2.32925E-02	-9.08312E-03
3.60	9.19155E-06	-1.86763E-02	-1.49578E-04	8.99388E 01	-1.48314E-04	2.45726E-02	-9.09094E-03
3.70	9.70838E-06	-1.98178E-02	-1.60606E-04	9.03197E 01	-1.58707E-04	2.58864E-02	-9.09885E-03
3.80	1.02394E-05	-2.09931E-02	-1.72132E-04	9.06797E 01	-1.69563E-04	2.72337E-02	-9.10680E-03
3.90	1.07845E-05	-2.22021E-02	-1.84166E-04	9.10205E 01	-1.80894E-04	2.86146E-02	-9.11477E-03
4.00	1.13438E-05	-2.34449E-02	-1.96717E-04	9.13434E 01	-1.92708E-04	3.00290E-02	-9.12271E-03
4.10	1.19173E-05	-2.47214E-02	-2.09796E-04	9.16499E 01	-2.05016E-04	3.14771E-02	-9.13060E-03
4.20	1.25049E-05	-2.60316E-02	-2.23413E-04	9.19411E 01	-2.17828E-04	3.29587E-02	-9.13843E-03
4.30	1.31066E-05	-2.73756E-02	-2.37576E-04	9.22180E 01	-2.31153E-04	3.44740E-02	-9.14618E-03
4.40	1.37226E-05	-2.87533E-02	-2.52297E-04	9.24817E 01	-2.45002E-04	3.60228E-02	-9.15384E-03
4.50	1.43526E-05	-3.01646E-02	-2.67586E-04	9.27331E 01	-2.59385E-04	3.76052E-02	-9.16139E-03
4.60	1.49969E-05	-3.16097E-02	-2.83451E-04	9.29729E 01	-2.74311E-04	3.92212E-02	-9.16883E-03
4.70	1.56553E-05	-3.30885E-02	-2.99904E-04	9.32019E 01	-2.89791E-04	4.08708E-02	-9.17616E-03
4.80	1.63278E-05	-3.46010E-02	-3.16954E-04	9.34209E 01	-3.05834E-04	4.25540E-02	-9.18337E-03
4.90	1.70145E-05	-3.61472E-02	-3.34610E-04	9.36304E 01	-3.22451E-04	4.42707E-02	-9.19045E-03
5.00	1.77154E-05	-3.77271E-02	-3.52884E-04	9.38309E 01	-3.39651E-04	4.60211E-02	-9.19740E-03
5.10	1.84304E-05	-3.93406E-02	-3.71784E-04	9.40232E 01	-3.57444E-04	4.78050E-02	-9.20423E-03
5.20	1.91596E-05	-4.09878E-02	-3.91322E-04	9.42076E 01	-3.75841E-04	4.96226E-02	-9.21093E-03
5.30	1.99029E-05	-4.26687E-02	-4.11506E-04	9.43847E 01	-3.94851E-04	5.14737E-02	-9.21751E-03
5.40	2.06604E-05	-4.43833E-02	-4.32346E-04	9.45547E 01	-4.14484E-04	5.33585E-02	-9.22395E-03
5.50	2.14321E-05	-4.61315E-02	-4.53853E-04	9.47182E 01	-4.34750E-04	5.52768E-02	-9.23027E-03
5.60	2.22179E-05	-4.79134E-02	-4.76037E-04	9.48755E 01	-4.55660E-04	5.72287E-02	-9.23646E-03
5.70	2.30179E-05	-4.97290E-02	-4.98907E-04	9.50270E 01	-4.77222E-04	5.92142E-02	-9.24253E-03
5.80	2.38320E-05	-5.15782E-02	-5.22474E-04	9.51728E 01	-4.99447E-04	6.12334E-02	-9.24848E-03
5.90	2.46603E-05	-5.34611E-02	-5.46747E-04	9.53134E 01	-5.22346E-04	6.32861E-02	-9.25431E-03
6.00	2.55027E-05	-5.53776E-02	-5.71736E-04	9.54490E 01	-5.45927E-04	6.53724E-02	-9.26002E-03

## ELECTRON RADIAL FUNCTIONS

Electron	$Z=2 \quad A=4 \quad \rho=1.2A^{1/3}F$								
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	1.04835E 00	-5.71481E 00	-1.00861E-01	1.13682E-04	-9.66104E-02	6.72775E 00	-3.98991E 02		
6.20	1.04832E 00	-5.81717E 00	-1.03612E-01	1.32458E-04	-9.91935E-02	6.83039E 00	-4.02172E 02		
6.30	1.04830E 00	-5.91952E 00	-1.06397E-01	1.50643E-04	-1.01810E-01	6.93302E 00	-4.05299E 02		
6.40	1.04828E 00	-6.02187E 00	-1.09245E-01	1.68266E-04	-1.04460E-01	7.03563E 00	-4.08375E 02		
6.50	1.04826E 00	-6.12422E 00	-1.12067E-01	1.85348E-04	-1.07144E-01	7.13823E 00	-4.11401E 02		
6.60	1.04824E 00	-6.22655E 00	-1.14953E-01	2.01919E-04	-1.09861E-01	7.24080E 00	-4.14377E 02		
6.70	1.04822E 00	-6.32889E 00	-1.17871E-01	2.17998E-04	-1.12612E-01	7.34336E 00	-4.17305E 02		
6.80	1.04820E 00	-6.43122E 00	-1.20824E-01	2.33607E-04	-1.15396E-01	7.44591E 00	-4.20187E 02		
6.90	1.04818E 00	-6.53354E 00	-1.23810E-01	2.48767E-04	-1.18214E-01	7.54844E 00	-4.23022E 02		
7.00	1.04817E 00	-6.63586E 00	-1.26830E-01	2.63494E-04	-1.21065E-01	7.65096E 00	-4.25814E 02		
7.10	1.04815E 00	-6.73818E 00	-1.29883E-01	2.77812E-04	-1.23950E-01	7.75346E 00	-4.28562E 02		
7.20	1.04813E 00	-6.84048E 00	-1.32969E-01	2.91733E-04	-1.26869E-01	7.85595E 00	-4.31267E 02		
7.30	1.04812E 00	-6.94279E 00	-1.36090E-01	3.05275E-04	-1.29821E-01	7.95842E 00	-4.33931E 02		
7.40	1.04810E 00	-7.04509E 00	-1.39243E-01	3.18451E-04	-1.32806E-01	8.06088E 00	-4.36554E 02		
7.50	1.04809E 00	-7.14738E 00	-1.42431E-01	3.31280E-04	-1.35825E-01	8.16333E 00	-4.39137E 02		
7.60	1.04807E 00	-7.24967E 00	-1.45652E-01	3.43772E-04	-1.38878E-01	8.26577E 00	-4.41682E 02		
7.70	1.04806E 00	-7.35195E 00	-1.48906E-01	3.55938E-04	-1.41964E-01	8.36820E 00	-4.44190E 02		
7.80	1.04805E 00	-7.45423E 00	-1.52194E-01	3.67796E-04	-1.45083E-01	8.47061E 00	-4.46660E 02		
7.90	1.04804E 00	-7.55651E 00	-1.55516E-01	3.79354E-04	-1.48237E-01	8.57302E 00	-4.49095E 02		
8.00	1.04802E 00	-7.65878E 00	-1.58871E-01	3.90622E-04	-1.51423E-01	8.67541E 00	-4.51494E 02		
8.10	1.04801E 00	-7.76104E 00	-1.62259E-01	4.01614E-04	-1.54644E-01	8.77779E 00	-4.53858E 02		
8.20	1.04800E 00	-7.86330E 00	-1.65682E-01	4.12338E-04	-1.57897E-01	8.88017E 00	-4.56189E 02		
8.30	1.04799E 00	-7.96555E 00	-1.69137E-01	4.22806E-04	-1.61185E-01	8.98253E 00	-4.58487E 02		
8.40	1.04798E 00	-8.06780E 00	-1.72627E-01	4.33020E-04	-1.64506E-01	9.08488E 00	-4.60752E 02		
8.50	1.04797E 00	-8.17004E 00	-1.76149E-01	4.42999E-04	-1.67860E-01	9.18723E 00	-4.62986E 02		
8.60	1.04796E 00	-8.27228E 00	-1.79706E-01	4.52741E-04	-1.71248E-01	9.28956E 00	-4.65190E 02		
8.70	1.04795E 00	-8.37452E 00	-1.83296E-01	4.62261E-04	-1.74670E-01	9.39189E 00	-4.67363E 02		
8.80	1.04794E 00	-8.47674E 00	-1.86919E-01	4.71563E-04	-1.78125E-01	9.49420E 00	-4.69506E 02		
8.90	1.04793E 00	-8.57897E 00	-1.90576E-01	4.80660E-04	-1.81613E-01	9.59651E 00	-4.71620E 02		
9.00	1.04792E 00	-8.68118E 00	-1.94267E-01	4.89552E-04	-1.85135E-01	9.69881E 00	-4.73706E 02		
9.10	1.04791E 00	-8.78340E 00	-1.97991E-01	4.98246E-04	-1.88691E-01	9.80110E 00	-4.75764E 02		
9.20	1.04790E 00	-8.88561E 00	-2.01748E-01	5.06755E-04	-1.92280E-01	9.90338E 00	-4.77795E 02		
9.30	1.04789E 00	-8.98781E 00	-2.05539E-01	5.15076E-04	-1.95903E-01	1.00057E 01	-4.79799E 02		
9.40	1.04789E 00	-9.09001E 00	-2.09364E-01	5.23221E-04	-1.99559E-01	1.01079E 01	-4.81778E 02		
9.50	1.04788E 00	-9.19220E 00	-2.13222E-01	5.31196E-04	-2.03249E-01	1.02102E 01	-4.83730E 02		
9.60	1.04787E 00	-9.29439E 00	-2.17114E-01	5.39001E-04	-2.06972E-01	1.03124E 01	-4.85657E 02		
9.70	1.04786E 00	-9.39657E 00	-2.21039E-01	5.46647E-04	-2.10729E-01	1.04147E 01	-4.87560E 02		
9.80	1.04786E 00	-9.49875E 00	-2.24998E-01	5.54134E-04	-2.14519E-01	1.05169E 01	-4.89439E 02		
9.90	1.04785E 00	-9.60092E 00	-2.28990E-01	5.61467E-04	-2.18343E-01	1.06191E 01	-4.91295E 02		
10.00	1.04784E 00	-9.70309E 00	-2.33016E-01	5.68656E-04	-2.22200E-01	1.07214E 01	-4.93127E 02		
10.10	1.04783E 00	-9.80525E 00	-2.37075E-01	5.75699E-04	-2.26091E-01	1.08236E 01	-4.94936E 02		
10.20	1.04783E 00	-9.90741E 00	-2.41168E-01	5.82606E-04	-2.30016E-01	1.09258E 01	-4.96723E 02		
10.30	1.04782E 00	-1.00096E 01	-2.45294E-01	5.89373E-04	-2.33974E-01	1.10280E 01	-4.98489E 02		
10.40	1.04782E 00	-1.01117E 01	-2.49454E-01	5.96014E-04	-2.37965E-01	1.11302E 01	-5.00233E 02		
10.50	1.04781E 00	-1.02139E 01	-2.53648E-01	6.02522E-04	-2.41990E-01	1.12324E 01	-5.01956E 02		
10.60	1.04780E 00	-1.03160E 01	-2.57874E-01	6.08909E-04	-2.46049E-01	1.13345E 01	-5.03659E 02		
10.70	1.04780E 00	-1.04181E 01	-2.62135E-01	6.15177E-04	-2.50141E-01	1.14367E 01	-5.05341E 02		
10.80	1.04779E 00	-1.05202E 01	-2.66429E-01	6.21325E-04	-2.54266E-01	1.15389E 01	-5.07003E 02		
10.90	1.04779E 00	-1.06224E 01	-2.70756E-01	6.27359E-04	-2.58425E-01	1.16410E 01	-5.08646E 02		
11.00	1.04778E 00	-1.07245E 01	-2.75117E-01	6.33282E-04	-2.62618E-01	1.17432E 01	-5.10270E 02		
11.10	1.04777E 00	-1.08266E 01	-2.79512E-01	6.39100E-04	-2.66844E-01	1.18453E 01	-5.11875E 02		
11.20	1.04777E 00	-1.09287E 01	-2.83939E-01	6.44808E-04	-2.71103E-01	1.19474E 01	-5.13462E 02		
11.30	1.04776E 00	-1.10308E 01	-2.88401E-01	6.50417E-04	-2.75396E-01	1.20496E 01	-5.15031E 02		
11.40	1.04776E 00	-1.11329E 01	-2.92896E-01	6.55927E-04	-2.79723E-01	1.21517E 01	-5.16581E 02		
11.50	1.04775E 00	-1.12350E 01	-2.97424E-01	6.61335E-04	-2.84083E-01	1.22538E 01	-5.18115E 02		
11.60	1.04775E 00	-1.13371E 01	-3.01986E-01	6.66650E-04	-2.88477E-01	1.23559E 01	-5.19632E 02		
11.70	1.04774E 00	-1.14392E 01	-3.06582E-01	6.71873E-04	-2.92904E-01	1.24580E 01	-5.21132E 02		
11.80	1.04774E 00	-1.15412E 01	-3.11211E-01	6.77009E-04	-2.97364E-01	1.25601E 01	-5.22614E 02		
11.90	1.04773E 00	-1.16433E 01	-3.15873E-01	6.82052E-04	-3.01858E-01	1.26622E 01	-5.24082E 02		
12.00	1.04773E 00	-1.17454E 01	-3.20569E-01	6.87011E-04	-3.06386E-01	1.27643E 01	-5.25533E 02		



## ELECTRON RADIAL FUNCTIONS

	$Z=2$	$A=4$	$\rho=1.2A^{1/3}F$	Electron				
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
6.10	2.63593E-05	-5.73278E-02	-5.97452E-04	9.55799E 01	-5.70201E-04	6.74923E-02	-9.26561E-03	
6.20	2.72301E-05	-5.93116E-02	-6.23904E-04	9.57063E 01	-5.95178E-04	6.96458E-02	-9.27109E-03	
6.30	2.81150E-05	-6.13290E-02	-6.51102E-04	9.58284E 01	-6.20868E-04	7.18329E-02	-9.27646E-03	
6.40	2.90140E-05	-6.33801E-02	-6.79055E-04	9.59465E 01	-6.47280E-04	7.40536E-02	-9.28172E-03	
6.50	2.99272E-05	-6.54649E-02	-7.07775E-04	9.60607E 01	-6.74425E-04	7.63078E-02	-9.28688E-03	
6.60	3.08546E-05	-6.75833E-02	-7.37271E-04	9.61712E 01	-7.02313E-04	7.85957E-02	-9.29193E-03	
6.70	3.17962E-05	-6.97353E-02	-7.67553E-04	9.62782E 01	-7.30953E-04	8.09172E-02	-9.29688E-03	
6.80	3.27519E-05	-7.19210E-02	-7.98630E-04	9.63818E 01	-7.60355E-04	8.32722E-02	-9.30173E-03	
6.90	3.37217E-05	-7.41403E-02	-8.30513E-04	9.64823E 01	-7.90530E-04	8.56609E-02	-9.30648E-03	
7.00	3.47057E-05	-7.63932E-02	-8.63212E-04	9.65797E 01	-8.21488E-04	8.80831E-02	-9.31114E-03	
7.10	3.57039E-05	-7.86797E-02	-8.96737E-04	9.66741E 01	-8.53237E-04	9.05390E-02	-9.31571E-03	
7.20	3.67162E-05	-8.09999E-02	-9.31097E-04	9.67658E 01	-8.85789E-04	9.30284E-02	-9.32019E-03	
7.30	3.77427E-05	-8.33537E-02	-9.66302E-04	9.68548E 01	-9.19153E-04	9.55514E-02	-9.32458E-03	
7.40	3.87833E-05	-8.57411E-02	-1.00236E-03	9.69413E 01	-9.53339E-04	9.81080E-02	-9.32888E-03	
7.50	3.98381E-05	-8.81622E-02	-1.03929E-03	9.70253E 01	-9.88358E-04	1.00698E-01	-9.33310E-03	
7.60	4.09070E-05	-9.06168E-02	-1.07709E-03	9.71069E 01	-1.02422E-03	1.03322E-01	-9.33724E-03	
7.70	4.19901E-05	-9.31051E-02	-1.11578E-03	9.71863E 01	-1.06093E-03	1.05979E-01	-9.34130E-03	
7.80	4.30874E-05	-9.56270E-02	-1.15536E-03	9.72635E 01	-1.09850E-03	1.08670E-01	-9.34528E-03	
7.90	4.41988E-05	-9.81825E-02	-1.19585E-03	9.73386E 01	-1.13695E-03	1.11395E-01	-9.34919E-03	
8.00	4.53244E-05	-1.00772E-01	-1.23725E-03	9.74118E 01	-1.17628E-03	1.14153E-01	-9.35302E-03	
8.10	4.64641E-05	-1.03394E-01	-1.27958E-03	9.74830E 01	-1.21650E-03	1.16945E-01	-9.35679E-03	
8.20	4.76180E-05	-1.06051E-01	-1.32284E-03	9.75524E 01	-1.25762E-03	1.19770E-01	-9.36048E-03	
8.30	4.87860E-05	-1.08741E-01	-1.36705E-03	9.76200E 01	-1.29965E-03	1.22629E-01	-9.36411E-03	
8.40	4.99682E-05	-1.11464E-01	-1.41221E-03	9.76859E 01	-1.34261E-03	1.25521E-01	-9.36766E-03	
8.50	5.11646E-05	-1.14221E-01	-1.45833E-03	9.77501E 01	-1.38649E-03	1.28447E-01	-9.37116E-03	
8.60	5.23751E-05	-1.17012E-01	-1.50544E-03	9.78128E 01	-1.43132E-03	1.31407E-01	-9.37459E-03	
8.70	5.35997E-05	-1.19836E-01	-1.55352E-03	9.78739E 01	-1.47710E-03	1.34400E-01	-9.37796E-03	
8.80	5.48385E-05	-1.22694E-01	-1.60260E-03	9.79335E 01	-1.52384E-03	1.37427E-01	-9.38127E-03	
8.90	5.60915E-05	-1.25586E-01	-1.65269E-03	9.79918E 01	-1.57155E-03	1.40487E-01	-9.38452E-03	
9.00	5.73587E-05	-1.28511E-01	-1.70379E-03	9.80486E 01	-1.62024E-03	1.43581E-01	-9.38772E-03	
9.10	5.86399E-05	-1.31470E-01	-1.75591E-03	9.81041E 01	-1.66992E-03	1.46708E-01	-9.39085E-03	
9.20	5.99354E-05	-1.34462E-01	-1.80907E-03	9.81584E 01	-1.72061E-03	1.49870E-01	-9.39394E-03	
9.30	6.12450E-05	-1.37488E-01	-1.86327E-03	9.82114E 01	-1.77230E-03	1.53064E-01	-9.39697E-03	
9.40	6.25687E-05	-1.40548E-01	-1.91852E-03	9.82632E 01	-1.82502E-03	1.56292E-01	-9.39995E-03	
9.50	6.39066E-05	-1.43641E-01	-1.97484E-03	9.83139E 01	-1.87876E-03	1.59554E-01	-9.40288E-03	
9.60	6.52587E-05	-1.46768E-01	-2.03224E-03	9.83634E 01	-1.93355E-03	1.62849E-01	-9.40576E-03	
9.70	6.66249E-05	-1.49928E-01	-2.09072E-03	9.84119E 01	-1.98939E-03	1.66178E-01	-9.40859E-03	
9.80	6.80053E-05	-1.53122E-01	-2.15029E-03	9.84593E 01	-2.04629E-03	1.69541E-01	-9.41137E-03	
9.90	6.93998E-05	-1.56349E-01	-2.21096E-03	9.85057E 01	-2.10426E-03	1.72937E-01	-9.41411E-03	
10.00	7.08085E-05	-1.59610E-01	-2.27275E-03	9.85511E 01	-2.16331E-03	1.76366E-01	-9.41680E-03	
10.10	7.22314E-05	-1.62905E-01	-2.33567E-03	9.85956E 01	-2.22345E-03	1.79830E-01	-9.41946E-03	
10.20	7.36684E-05	-1.66233E-01	-2.39971E-03	9.86391E 01	-2.28469E-03	1.83326E-01	-9.42206E-03	
10.30	7.51196E-05	-1.69595E-01	-2.46490E-03	9.86818E 01	-2.34704E-03	1.86857E-01	-9.42463E-03	
10.40	7.65849E-05	-1.72990E-01	-2.53125E-03	9.87235E 01	-2.41051E-03	1.90421E-01	-9.42715E-03	
10.50	7.80644E-05	-1.76419E-01	-2.59875E-03	9.87645E 01	-2.47511E-03	1.94018E-01	-9.42964E-03	
10.60	7.95580E-05	-1.79882E-01	-2.66743E-03	9.88046E 01	-2.54085E-03	1.97649E-01	-9.43208E-03	
10.70	8.10658E-05	-1.83378E-01	-2.73730E-03	9.88439E 01	-2.60774E-03	2.01313E-01	-9.43449E-03	
10.80	8.25878E-05	-1.86907E-01	-2.80835E-03	9.88825E 01	-2.67579E-03	2.05011E-01	-9.43686E-03	
10.90	8.41239E-05	-1.90471E-01	-2.88061E-03	9.89203E 01	-2.74501E-03	2.08743E-01	-9.43920E-03	
11.00	8.56741E-05	-1.94067E-01	-2.95408E-03	9.89574E 01	-2.81541E-03	2.12508E-01	-9.44149E-03	
11.10	8.72385E-05	-1.97698E-01	-3.02878E-03	9.89938E 01	-2.88700E-03	2.16307E-01	-9.44376E-03	
11.20	8.88171E-05	-2.01362E-01	-3.10471E-03	9.90295E 01	-2.95979E-03	2.20139E-01	-9.44599E-03	
11.30	9.04098E-05	-2.05059E-01	-3.18188E-03	9.90645E 01	-3.03379E-03	2.24005E-01	-9.44818E-03	
11.40	9.20167E-05	-2.08790E-01	-3.26030E-03	9.90989E 01	-3.10901E-03	2.27904E-01	-9.45035E-03	
11.50	9.36377E-05	-2.12555E-01	-3.33999E-03	9.91326E 01	-3.18546E-03	2.31837E-01	-9.45248E-03	
11.60	9.52729E-05	-2.16353E-01	-3.42094E-03	9.91658E 01	-3.26315E-03	2.35804E-01	-9.45458E-03	
11.70	9.69223E-05	-2.20185E-01	-3.50319E-03	9.91983E 01	-3.34208E-03	2.39804E-01	-9.45665E-03	
11.80	9.85858E-05	-2.24050E-01	-3.58672E-03	9.92303E 01	-3.42228E-03	2.43837E-01	-9.45869E-03	
11.90	1.00263E-04	-2.27949E-01	-3.67155E-03	9.92616E 01	-3.50374E-03	2.47904E-01	-9.46070E-03	
12.00	1.01955E-04	-2.31881E-01	-3.75770E-03	9.92925E 01	-3.58649E-03	2.52005E-01	-9.46268E-03	

## ELECTRON RADIAL FUNCTIONS

Electron	$Z=2$		$A=4$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	1.04772E 00	-1.18474E 01	-3.25299E-01	6.91888E-04	-3.10947E-01	1.28664E 01	-5.26969E 02	
12.20	1.04772E 00	-1.19495E 01	-3.30062E-01	6.96685E-04	-3.15542E-01	1.29685E 01	-5.28388E 02	
12.30	1.04772E 00	-1.20515E 01	-3.34858E-01	7.01398E-04	-3.20170E-01	1.30705E 01	-5.29793E 02	
12.40	1.04771E 00	-1.21536E 01	-3.39688E-01	7.06035E-04	-3.24831E-01	1.31726E 01	-5.31184E 02	
12.50	1.04771E 00	-1.22556E 01	-3.44551E-01	7.10597E-04	-3.29526E-01	1.32746E 01	-5.32559E 02	
12.60	1.04770E 00	-1.23577E 01	-3.49448E-01	7.15083E-04	-3.34255E-01	1.33767E 01	-5.33920E 02	
12.70	1.04770E 00	-1.24597E 01	-3.54378E-01	7.19498E-04	-3.39017E-01	1.34787E 01	-5.35267E 02	
12.80	1.04769E 00	-1.25617E 01	-3.59342E-01	7.23843E-04	-3.43812E-01	1.35808E 01	-5.36600E 02	
12.90	1.04769E 00	-1.26637E 01	-3.64339E-01	7.28117E-04	-3.48641E-01	1.36828E 01	-5.37920E 02	
13.00	1.04769E 00	-1.27657E 01	-3.69370E-01	7.32326E-04	-3.53503E-01	1.37848E 01	-5.39226E 02	
13.10	1.04768E 00	-1.28678E 01	-3.74434E-01	7.36469E-04	-3.58399E-01	1.38868E 01	-5.40519E 02	
13.20	1.04768E 00	-1.29698E 01	-3.79532E-01	7.40546E-04	-3.63329E-01	1.39888E 01	-5.41799E 02	
13.30	1.04768E 00	-1.30718E 01	-3.84663E-01	7.44559E-04	-3.68292E-01	1.40908E 01	-5.43066E 02	
13.40	1.04767E 00	-1.31738E 01	-3.89828E-01	7.48511E-04	-3.73288E-01	1.41928E 01	-5.44321E 02	
13.50	1.04767E 00	-1.32757E 01	-3.95026E-01	7.52403E-04	-3.78318E-01	1.42948E 01	-5.45563E 02	
13.60	1.04766E 00	-1.33777E 01	-4.00257E-01	7.56236E-04	-3.83381E-01	1.43968E 01	-5.46794E 02	
13.70	1.04766E 00	-1.34797E 01	-4.05523E-01	7.60011E-04	-3.88478E-01	1.44988E 01	-5.48012E 02	
13.80	1.04766E 00	-1.35817E 01	-4.10821E-01	7.63729E-04	-3.93608E-01	1.46008E 01	-5.49219E 02	
13.90	1.04765E 00	-1.36836E 01	-4.16153E-01	7.67394E-04	-3.98771E-01	1.47027E 01	-5.50413E 02	
14.00	1.04765E 00	-1.37856E 01	-4.21518E-01	7.71003E-04	-4.03968E-01	1.48047E 01	-5.51597E 02	
14.10	1.04765E 00	-1.38875E 01	-4.26917E-01	7.74558E-04	-4.09199E-01	1.49067E 01	-5.52769E 02	
14.20	1.04764E 00	-1.39895E 01	-4.32349E-01	7.78061E-04	-4.14463E-01	1.50086E 01	-5.53931E 02	
14.30	1.04764E 00	-1.40914E 01	-4.37815E-01	7.81516E-04	-4.19761E-01	1.51106E 01	-5.55081E 02	
14.40	1.04764E 00	-1.41934E 01	-4.43314E-01	7.84919E-04	-4.25091E-01	1.52125E 01	-5.56221E 02	
14.50	1.04764E 00	-1.42953E 01	-4.48847E-01	7.88273E-04	-4.30456E-01	1.53144E 01	-5.57351E 02	
14.60	1.04763E 00	-1.43972E 01	-4.54413E-01	7.91579E-04	-4.35854E-01	1.54163E 01	-5.58470E 02	
14.70	1.04763E 00	-1.44992E 01	-4.60013E-01	7.94838E-04	-4.41285E-01	1.55183E 01	-5.59579E 02	
14.80	1.04763E 00	-1.46011E 01	-4.65646E-01	7.98053E-04	-4.46750E-01	1.56202E 01	-5.60678E 02	
14.90	1.04762E 00	-1.47030E 01	-4.71312E-01	8.01220E-04	-4.52248E-01	1.57221E 01	-5.61767E 02	
15.00	1.04762E 00	-1.48049E 01	-4.77012E-01	8.04344E-04	-4.57779E-01	1.58240E 01	-5.62847E 02	
15.10	1.04762E 00	-1.49068E 01	-4.82745E-01	8.07425E-04	-4.63344E-01	1.59259E 01	-5.63916E 02	
15.20	1.04761E 00	-1.50087E 01	-4.88512E-01	8.10463E-04	-4.68943E-01	1.60278E 01	-5.64977E 02	
15.30	1.04761E 00	-1.51106E 01	-4.94312E-01	8.13461E-04	-4.74575E-01	1.61297E 01	-5.66028E 02	
15.40	1.04761E 00	-1.52125E 01	-5.00145E-01	8.16417E-04	-4.80240E-01	1.62315E 01	-5.67069E 02	
15.50	1.04761E 00	-1.53143E 01	-5.06012E-01	8.19333E-04	-4.85939E-01	1.63334E 01	-5.68102E 02	
15.60	1.04760E 00	-1.54162E 01	-5.11913E-01	8.22209E-04	-4.91671E-01	1.64353E 01	-5.69126E 02	
15.70	1.04760E 00	-1.55181E 01	-5.17847E-01	8.25048E-04	-4.97436E-01	1.65371E 01	-5.70141E 02	
15.80	1.04760E 00	-1.56199E 01	-5.23814E-01	8.27848E-04	-5.03235E-01	1.66390E 01	-5.71148E 02	
15.90	1.04760E 00	-1.57218E 01	-5.29814E-01	8.30611E-04	-5.09068E-01	1.67408E 01	-5.72146E 02	
16.00	1.04759E 00	-1.58236E 01	-5.35849E-01	8.33338E-04	-5.14934E-01	1.68427E 01	-5.73135E 02	
16.10	1.04759E 00	-1.59255E 01	-5.41916E-01	8.36029E-04	-5.20833E-01	1.69445E 01	-5.74117E 02	
16.20	1.04759E 00	-1.60273E 01	-5.48017E-01	8.38684E-04	-5.26766E-01	1.70463E 01	-5.75091E 02	
16.30	1.04759E 00	-1.61291E 01	-5.54151E-01	8.41305E-04	-5.32732E-01	1.71481E 01	-5.76056E 02	
16.40	1.04758E 00	-1.62310E 01	-5.60319E-01	8.43889E-04	-5.38731E-01	1.72500E 01	-5.77014E 02	
16.50	1.04758E 00	-1.63328E 01	-5.66520E-01	8.46444E-04	-5.44764E-01	1.73518E 01	-5.77963E 02	
16.60	1.04758E 00	-1.64346E 01	-5.72754E-01	8.48964E-04	-5.50831E-01	1.74536E 01	-5.78906E 02	
16.70	1.04758E 00	-1.65364E 01	-5.79022E-01	8.51453E-04	-5.56930E-01	1.75554E 01	-5.79840E 02	
16.80	1.04757E 00	-1.66382E 01	-5.85324E-01	8.53909E-04	-5.63063E-01	1.76571E 01	-5.80767E 02	
16.90	1.04757E 00	-1.67400E 01	-5.91658E-01	8.56336E-04	-5.69230E-01	1.77589E 01	-5.81687E 02	
17.00	1.04757E 00	-1.68418E 01	-5.98026E-01	8.58731E-04	-5.75430E-01	1.78607E 01	-5.82599E 02	
17.10	1.04757E 00	-1.69436E 01	-6.04428E-01	8.61096E-04	-5.81663E-01	1.79625E 01	-5.83505E 02	
17.20	1.04756E 00	-1.70454E 01	-6.10863E-01	8.63430E-04	-5.87930E-01	1.80642E 01	-5.84403E 02	
17.30	1.04756E 00	-1.71471E 01	-6.17331E-01	8.65738E-04	-5.94230E-01	1.81660E 01	-5.85294E 02	
17.40	1.04756E 00	-1.72489E 01	-6.23833E-01	8.68014E-04	-6.00563E-01	1.82678E 01	-5.86179E 02	
17.50	1.04756E 00	-1.73507E 01	-6.30368E-01	8.70264E-04	-6.06930E-01	1.83695E 01	-5.87057E 02	
17.60	1.04756E 00	-1.74524E 01	-6.36936E-01	8.72486E-04	-6.13331E-01	1.84712E 01	-5.87929E 02	
17.70	1.04755E 00	-1.75542E 01	-6.43538E-01	8.74681E-04	-6.19764E-01	1.85730E 01	-5.88793E 02	
17.80	1.04755E 00	-1.76559E 01	-6.50173E-01	8.76851E-04	-6.26231E-01	1.86747E 01	-5.89651E 02	
17.90	1.04755E 00	-1.77576E 01	-6.56842E-01	8.78994E-04	-6.32732E-01	1.87764E 01	-5.90502E 02	
18.00	1.04755E 00	-1.78594E 01	-6.63543E-01	8.81108E-04	-6.39265E-01	1.88781E 01	-5.91349E 02	



## ELECTRON RADIAL FUNCTIONS

 $Z=2$        $A=4$        $\rho=1.2A^{1/3}F$       Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	1.03661E-04	-2.35847E-01	-3.84518E-03	9.93228E 01	-3.67052E-03	2.56139E-01	-9.46464E-03
12.20	1.05381E-04	-2.39847E-01	-3.93398E-03	9.93526E 01	-3.75586E-03	2.60307E-01	-9.46656E-03
12.30	1.07116E-04	-2.43880E-01	-4.02412E-03	9.93818E 01	-3.84250E-03	2.64508E-01	-9.46846E-03
12.40	1.08864E-04	-2.47946E-01	-4.11562E-03	9.94106E 01	-3.93045E-03	2.68743E-01	-9.47033E-03
12.50	1.10627E-04	-2.52046E-01	-4.20847E-03	9.94389E 01	-4.01974E-03	2.73011E-01	-9.47218E-03
12.60	1.12404E-04	-2.56180E-01	-4.30270E-03	9.94667E 01	-4.11037E-03	2.77313E-01	-9.47400E-03
12.70	1.14194E-04	-2.60347E-01	-4.39831E-03	9.94941E 01	-4.20234E-03	2.81649E-01	-9.47580E-03
12.80	1.16000E-04	-2.64548E-01	-4.49531E-03	9.95210E 01	-4.29567E-03	2.86017E-01	-9.47757E-03
12.90	1.17819E-04	-2.68782E-01	-4.59372E-03	9.95474E 01	-4.39037E-03	2.90420E-01	-9.47932E-03
13.00	1.19652E-04	-2.73050E-01	-4.69353E-03	9.95735E 01	-4.48645E-03	2.94856E-01	-9.48104E-03
13.10	1.21500E-04	-2.77351E-01	-4.79477E-03	9.95991E 01	-4.58392E-03	2.99325E-01	-9.48275E-03
13.20	1.23361E-04	-2.81686E-01	-4.89743E-03	9.96243E 01	-4.68278E-03	3.03828E-01	-9.48443E-03
13.30	1.25237E-04	-2.86054E-01	-5.00154E-03	9.96491E 01	-4.78306E-03	3.08365E-01	-9.48608E-03
13.40	1.27127E-04	-2.90456E-01	-5.10710E-03	9.96736E 01	-4.88475E-03	3.12935E-01	-9.48772E-03
13.50	1.29031E-04	-2.94892E-01	-5.21412E-03	9.96976E 01	-4.98786E-03	3.17538E-01	-9.48934E-03
13.60	1.30950E-04	-2.99360E-01	-5.32261E-03	9.97213E 01	-5.09242E-03	3.22175E-01	-9.49093E-03
13.70	1.32882E-04	-3.03863E-01	-5.43258E-03	9.97446E 01	-5.19842E-03	3.26846E-01	-9.49250E-03
13.80	1.34829E-04	-3.08399E-01	-5.54404E-03	9.97676E 01	-5.30588E-03	3.31550E-01	-9.49406E-03
13.90	1.36789E-04	-3.12968E-01	-5.65701E-03	9.97902E 01	-5.41481E-03	3.36287E-01	-9.49559E-03
14.00	1.38764E-04	-3.17571E-01	-5.77148E-03	9.98125E 01	-5.52522E-03	3.41058E-01	-9.49710E-03
14.10	1.40754E-04	-3.22208E-01	-5.88747E-03	9.98344E 01	-5.63711E-03	3.45863E-01	-9.49860E-03
14.20	1.42757E-04	-3.26878E-01	-6.00500E-03	9.98560E 01	-5.75050E-03	3.50701E-01	-9.50008E-03
14.30	1.44774E-04	-3.31582E-01	-6.12406E-03	9.98773E 01	-5.86539E-03	3.55572E-01	-9.50153E-03
14.40	1.46806E-04	-3.36319E-01	-6.24467E-03	9.98983E 01	-5.98181E-03	3.60477E-01	-9.50297E-03
14.50	1.48851E-04	-3.41089E-01	-6.36685E-03	9.99190E 01	-6.09975E-03	3.65416E-01	-9.50440E-03
14.60	1.50911E-04	-3.45893E-01	-6.49059E-03	9.99394E 01	-6.21922E-03	3.70388E-01	-9.50580E-03
14.70	1.52985E-04	-3.50731E-01	-6.61591E-03	9.99595E 01	-6.34025E-03	3.75394E-01	-9.50719E-03
14.80	1.55074E-04	-3.55602E-01	-6.74283E-03	9.99793E 01	-6.46283E-03	3.80433E-01	-9.50856E-03
14.90	1.57176E-04	-3.60507E-01	-6.87134E-03	9.99988E 01	-6.58697E-03	3.85505E-01	-9.50992E-03
15.00	1.59292E-04	-3.65445E-01	-7.00146E-03	1.00018E 02	-6.71269E-03	3.90611E-01	-9.51126E-03
15.10	1.61423E-04	-3.70416E-01	-7.13320E-03	1.00037E 02	-6.84000E-03	3.95751E-01	-9.51258E-03
15.20	1.63568E-04	-3.75421E-01	-7.26657E-03	1.00056E 02	-6.96891E-03	4.00924E-01	-9.51389E-03
15.30	1.65727E-04	-3.80460E-01	-7.40158E-03	1.00074E 02	-7.09942E-03	4.06130E-01	-9.51518E-03
15.40	1.67900E-04	-3.85532E-01	-7.53824E-03	1.00093E 02	-7.23154E-03	4.11370E-01	-9.51646E-03
15.50	1.70087E-04	-3.90638E-01	-7.67656E-03	1.00110E 02	-7.36529E-03	4.16643E-01	-9.51772E-03
15.60	1.72289E-04	-3.95777E-01	-7.81655E-03	1.00128E 02	-7.50068E-03	4.21950E-01	-9.51897E-03
15.70	1.74504E-04	-4.00949E-01	-7.95821E-03	1.00146E 02	-7.63771E-03	4.27291E-01	-9.52021E-03
15.80	1.76734E-04	-4.06155E-01	-8.10156E-03	1.00163E 02	-7.77640E-03	4.32665E-01	-9.52143E-03
15.90	1.78978E-04	-4.11395E-01	-8.24662E-03	1.00180E 02	-7.91676E-03	4.38072E-01	-9.52263E-03
16.00	1.81236E-04	-4.16668E-01	-8.39338E-03	1.00197E 02	-8.05879E-03	4.43513E-01	-9.52383E-03
16.10	1.83508E-04	-4.21974E-01	-8.54185E-03	1.00213E 02	-8.20250E-03	4.48987E-01	-9.52501E-03
16.20	1.85794E-04	-4.27314E-01	-8.69206E-03	1.00230E 02	-8.34791E-03	4.54495E-01	-9.52617E-03
16.30	1.88095E-04	-4.32688E-01	-8.84401E-03	1.00246E 02	-8.49503E-03	4.60036E-01	-9.52733E-03
16.40	1.90410E-04	-4.38095E-01	-8.99770E-03	1.00262E 02	-8.64385E-03	4.65611E-01	-9.52847E-03
16.50	1.92738E-04	-4.43535E-01	-9.15315E-03	1.00278E 02	-8.79441E-03	4.71219E-01	-9.52959E-03
16.60	1.95081E-04	-4.49009E-01	-9.31037E-03	1.00293E 02	-8.94670E-03	4.76860E-01	-9.53071E-03
16.70	1.97438E-04	-4.54516E-01	-9.46937E-03	1.00309E 02	-9.10073E-03	4.82535E-01	-9.53182E-03
16.80	1.99810E-04	-4.60057E-01	-9.63015E-03	1.00324E 02	-9.25652E-03	4.88244E-01	-9.53291E-03
16.90	2.02195E-04	-4.65631E-01	-9.79273E-03	1.00339E 02	-9.41407E-03	4.93986E-01	-9.53399E-03
17.00	2.04595E-04	-4.71239E-01	-9.95712E-03	1.00354E 02	-9.57339E-03	4.99761E-01	-9.53506E-03
17.10	2.07009E-04	-4.76880E-01	-1.01233E-02	1.00368E 02	-9.73450E-03	5.05570E-01	-9.53611E-03
17.20	2.09436E-04	-4.82554E-01	-1.02914E-02	1.00383E 02	-9.89741E-03	5.11412E-01	-9.53716E-03
17.30	2.11879E-04	-4.88263E-01	-1.04612E-02	1.00397E 02	-1.00621E-02	5.17288E-01	-9.53820E-03
17.40	2.14335E-04	-4.94004E-01	-1.06329E-02	1.00411E 02	-1.02286E-02	5.23197E-01	-9.53922E-03
17.50	2.16805E-04	-4.99779E-01	-1.08065E-02	1.00425E 02	-1.03970E-02	5.29140E-01	-9.54023E-03
17.60	2.19290E-04	-5.05587E-01	-1.09820E-02	1.00439E 02	-1.05672E-02	5.35116E-01	-9.54124E-03
17.70	2.21788E-04	-5.11429E-01	-1.11593E-02	1.00453E 02	-1.07392E-02	5.41126E-01	-9.54223E-03
17.80	2.24301E-04	-5.17305E-01	-1.13385E-02	1.00466E 02	-1.09131E-02	5.47168E-01	-9.54321E-03
17.90	2.26828E-04	-5.23213E-01	-1.15196E-02	1.00479E 02	-1.10888E-02	5.53245E-01	-9.54419E-03
18.00	2.29369E-04	-5.29156E-01	-1.17026E-02	1.00493E 02	-1.12664E-02	5.59355E-01	-9.54515E-03

## ELECTRON RADIAL FUNCTIONS

Electron	$Z=2$		$A=4$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	1.04755 E 00	-1.79611 E 01	-6.70279 E-01	8.83200 E-04	-6.45833 E-01	1.89798 E 01	-5.92187 E 02	
18.20	1.04754 E 00	-1.80628 E 01	-6.77048 E-01	8.85265 E-04	-6.52433 E-01	1.90815 E 01	-5.93021 E 02	
18.30	1.04754 E 00	-1.81645 E 01	-6.83850 E-01	8.87307 E-04	-6.59067 E-01	1.91832 E 01	-5.93848 E 02	
18.40	1.04754 E 00	-1.82662 E 01	-6.90685 E-01	8.89323 E-04	-6.65734 E-01	1.92849 E 01	-5.94669 E 02	
18.50	1.04754 E 00	-1.83679 E 01	-6.97554 E-01	8.91316 E-04	-6.72435 E-01	1.93866 E 01	-5.95484 E 02	
18.60	1.04754 E 00	-1.84696 E 01	-7.04456 E-01	8.93286 E-04	-6.79169 E-01	1.94883 E 01	-5.96294 E 02	
18.70	1.04753 E 00	-1.85713 E 01	-7.11391 E-01	8.95233 E-04	-6.85936 E-01	1.95899 E 01	-5.97097 E 02	
18.80	1.04753 E 00	-1.86730 E 01	-7.18360 E-01	8.97154 E-04	-6.92737 E-01	1.96916 E 01	-5.97896 E 02	
18.90	1.04753 E 00	-1.87747 E 01	-7.25362 E-01	8.99058 E-04	-6.99571 E-01	1.97933 E 01	-5.98688 E 02	
19.00	1.04753 E 00	-1.88763 E 01	-7.32397 E-01	9.00936 E-04	-7.06438 E-01	1.98949 E 01	-5.99475 E 02	
19.10	1.04753 E 00	-1.89780 E 01	-7.39466 E-01	9.02793 E-04	-7.13339 E-01	1.99966 E 01	-6.00257 E 02	
19.20	1.04752 E 00	-1.90796 E 01	-7.46568 E-01	9.04629 E-04	-7.20273 E-01	2.00982 E 01	-6.01033 E 02	
19.30	1.04752 E 00	-1.91813 E 01	-7.53704 E-01	9.06444 E-04	-7.27240 E-01	2.01998 E 01	-6.01804 E 02	
19.40	1.04752 E 00	-1.92829 E 01	-7.60872 E-01	9.08239 E-04	-7.34241 E-01	2.03014 E 01	-6.02570 E 02	
19.50	1.04752 E 00	-1.93846 E 01	-7.68075 E-01	9.10011 E-04	-7.41275 E-01	2.04031 E 01	-6.03331 E 02	
19.60	1.04752 E 00	-1.94862 E 01	-7.75310 E-01	9.11764 E-04	-7.48343 E-01	2.05047 E 01	-6.04087 E 02	
19.70	1.04752 E 00	-1.95878 E 01	-7.82579 E-01	9.13498 E-04	-7.55443 E-01	2.06063 E 01	-6.04837 E 02	
19.80	1.04751 E 00	-1.96894 E 01	-7.89881 E-01	9.15212 E-04	-7.62578 E-01	2.07079 E 01	-6.05583 E 02	
19.90	1.04751 E 00	-1.97910 E 01	-7.97216 E-01	9.16906 E-04	-7.69745 E-01	2.08094 E 01	-6.06323 E 02	
20.00	1.04751 E 00	-1.98926 E 01	-8.04585 E-01	9.18580 E-04	-7.76946 E-01	2.09110 E 01	-6.07060 E 02	
20.10	1.04751 E 00	-1.99942 E 01	-8.11987 E-01	9.20238 E-04	-7.84180 E-01	2.10126 E 01	-6.07790 E 02	
20.20	1.04751 E 00	-2.00958 E 01	-8.19422 E-01	9.21877 E-04	-7.91447 E-01	2.11142 E 01	-6.08517 E 02	
20.30	1.04751 E 00	-2.01974 E 01	-8.26891 E-01	9.23497 E-04	-7.98748 E-01	2.12157 E 01	-6.09239 E 02	
20.40	1.04750 E 00	-2.02990 E 01	-8.34393 E-01	9.25097 E-04	-8.06082 E-01	2.13173 E 01	-6.09956 E 02	
20.50	1.04750 E 00	-2.04006 E 01	-8.41929 E-01	9.26682 E-04	-8.13449 E-01	2.14188 E 01	-6.10669 E 02	
20.60	1.04750 E 00	-2.05021 E 01	-8.49497 E-01	9.28250 E-04	-8.20850 E-01	2.15204 E 01	-6.11377 E 02	
20.70	1.04750 E 00	-2.06037 E 01	-8.57099 E-01	9.29798 E-04	-8.28283 E-01	2.16219 E 01	-6.12081 E 02	
20.80	1.04750 E 00	-2.07052 E 01	-8.64734 E-01	9.31329 E-04	-8.35751 E-01	2.17234 E 01	-6.12781 E 02	
20.90	1.04750 E 00	-2.08068 E 01	-8.72403 E-01	9.32845 E-04	-8.43251 E-01	2.18250 E 01	-6.13476 E 02	
21.00	1.04749 E 00	-2.09083 E 01	-8.80104 E-01	9.34345 E-04	-8.50785 E-01	2.19265 E 01	-6.14167 E 02	
21.10	1.04749 E 00	-2.10098 E 01	-8.87840 E-01	9.35828 E-04	-8.58352 E-01	2.20280 E 01	-6.14854 E 02	
21.20	1.04749 E 00	-2.11114 E 01	-8.95608 E-01	9.37294 E-04	-8.65953 E-01	2.21295 E 01	-6.15537 E 02	
21.30	1.04749 E 00	-2.12129 E 01	-9.03409 E-01	9.38746 E-04	-8.73586 E-01	2.22310 E 01	-6.16215 E 02	
21.40	1.04749 E 00	-2.13144 E 01	-9.11244 E-01	9.40181 E-04	-8.81253 E-01	2.23324 E 01	-6.16890 E 02	
21.50	1.04749 E 00	-2.14159 E 01	-9.19113 E-01	9.41600 E-04	-8.88953 E-01	2.24339 E 01	-6.17560 E 02	
21.60	1.04748 E 00	-2.15174 E 01	-9.27014 E-01	9.43004 E-04	-8.96687 E-01	2.25354 E 01	-6.18227 E 02	
21.70	1.04748 E 00	-2.16189 E 01	-9.34949 E-01	9.44394 E-04	-9.04454 E-01	2.26369 E 01	-6.18890 E 02	
21.80	1.04748 E 00	-2.17203 E 01	-9.42917 E-01	9.45768 E-04	-9.12254 E-01	2.27383 E 01	-6.19549 E 02	
21.90	1.04748 E 00	-2.18218 E 01	-9.50918 E-01	9.47126 E-04	-9.20087 E-01	2.28398 E 01	-6.20205 E 02	
22.00	1.04748 E 00	-2.19233 E 01	-9.58953 E-01	9.48473 E-04	-9.27954 E-01	2.29412 E 01	-6.20856 E 02	
22.10	1.04748 E 00	-2.20247 E 01	-9.67021 E-01	9.49805 E-04	-9.35854 E-01	2.30426 E 01	-6.21503 E 02	
22.20	1.04748 E 00	-2.21262 E 01	-9.75122 E-01	9.51122 E-04	-9.43787 E-01	2.31441 E 01	-6.22147 E 02	
22.30	1.04747 E 00	-2.22276 E 01	-9.83256 E-01	9.52425 E-04	-9.51753 E-01	2.32455 E 01	-6.22788 E 02	
22.40	1.04747 E 00	-2.23291 E 01	-9.91424 E-01	9.53711 E-04	-9.59753 E-01	2.33469 E 01	-6.23426 E 02	
22.50	1.04747 E 00	-2.24305 E 01	-9.99624 E-01	9.54989 E-04	-9.67786 E-01	2.34483 E 01	-6.24058 E 02	
22.60	1.04747 E 00	-2.25319 E 01	-1.00786 E 00	9.56251 E-04	-9.75852 E-01	2.35497 E 01	-6.24688 E 02	
22.70	1.04747 E 00	-2.26334 E 01	-1.01613 E 00	9.57499 E-04	-9.83952 E-01	2.36511 E 01	-6.25315 E 02	
22.80	1.04747 E 00	-2.27348 E 01	-1.02443 E 00	9.58735 E-04	-9.92084 E-01	2.37525 E 01	-6.25938 E 02	
22.90	1.04747 E 00	-2.28362 E 01	-1.03276 E 00	9.59959 E-04	-1.00025 E 00	2.38539 E 01	-6.26557 E 02	
23.00	1.04746 E 00	-2.29376 E 01	-1.04113 E 00	9.61169 E-04	-1.00845 E 00	2.39552 E 01	-6.27174 E 02	
23.10	1.04746 E 00	-2.30390 E 01	-1.04953 E 00	9.62366 E-04	-1.01668 E 00	2.40566 E 01	-6.27787 E 02	
23.20	1.04746 E 00	-2.31403 E 01	-1.05796 E 00	9.63551 E-04	-1.02495 E 00	2.41579 E 01	-6.28397 E 02	
23.30	1.04746 E 00	-2.32417 E 01	-1.06643 E 00	9.64725 E-04	-1.03325 E 00	2.42593 E 01	-6.29004 E 02	
23.40	1.04746 E 00	-2.33431 E 01	-1.07493 E 00	9.65886 E-04	-1.04158 E 00	2.43606 E 01	-6.29607 E 02	
23.50	1.04746 E 00	-2.34444 E 01	-1.08346 E 00	9.67034 E-04	-1.04994 E 00	2.44620 E 01	-6.30208 E 02	
23.60	1.04746 E 00	-2.35458 E 01	-1.09203 E 00	9.68171 E-04	-1.05834 E 00	2.45633 E 01	-6.30805 E 02	
23.70	1.04746 E 00	-2.36471 E 01	-1.10063 E 00	9.69296 E-04	-1.06677 E 00	2.46646 E 01	-6.31399 E 02	
23.80	1.04745 E 00	-2.37485 E 01	-1.10926 E 00	9.70410 E-04	-1.07524 E 00	2.47659 E 01	-6.31990 E 02	
23.90	1.04745 E 00	-2.38498 E 01	-1.11793 E 00	9.71510 E-04	-1.08374 E 00	2.48672 E 01	-6.32580 E 02	
24.00	1.04745 E 00	-2.39511 E 01	-1.12663 E 00	9.72601 E-04	-1.09227 E 00	2.49685 E 01	-6.33165 E 02	



## ELECTRON RADIAL FUNCTIONS

 $Z=2$  $A=4$  $\rho = 1.2 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	2.31925E-04	-5.35131E-01	-1.18875E-02	1.00506E 02	-1.14459E-02	5.65498E-01	-9.54610E-03
18.20	2.34494E-04	-5.41141E-01	-1.20744E-02	1.00518E 02	-1.16273E-02	5.71675E-01	-9.54705E-03
18.30	2.37078E-04	-5.47183E-01	-1.22631E-02	1.00531E 02	-1.18106E-02	5.77885E-01	-9.54798E-03
18.40	2.39676E-04	-5.53259E-01	-1.24539E-02	1.00544E 02	-1.19958E-02	5.84128E-01	-9.54891E-03
18.50	2.42288E-04	-5.59368E-01	-1.26466E-02	1.00556E 02	-1.21829E-02	5.90405E-01	-9.54982E-03
18.60	2.44914E-04	-5.65511E-01	-1.28412E-02	1.00568E 02	-1.23720E-02	5.96716E-01	-9.55073E-03
18.70	2.47554E-04	-5.71687E-01	-1.30378E-02	1.00580E 02	-1.25630E-02	6.03060E-01	-9.55163E-03
18.80	2.50208E-04	-5.77897E-01	-1.32365E-02	1.00592E 02	-1.27559E-02	6.09437E-01	-9.55252E-03
18.90	2.52877E-04	-5.84140E-01	-1.34371E-02	1.00604E 02	-1.29508E-02	6.15847E-01	-9.55340E-03
19.00	2.55560E-04	-5.90416E-01	-1.36397E-02	1.00616E 02	-1.31477E-02	6.22291E-01	-9.55427E-03
19.10	2.58256E-04	-5.96726E-01	-1.38443E-02	1.00628E 02	-1.33466E-02	6.28769E-01	-9.55513E-03
19.20	2.60967E-04	-6.03070E-01	-1.40509E-02	1.00639E 02	-1.35474E-02	6.35280E-01	-9.55599E-03
19.30	2.63693E-04	-6.09446E-01	-1.42596E-02	1.00651E 02	-1.37503E-02	6.41824E-01	-9.55683E-03
19.40	2.66432E-04	-6.15857E-01	-1.44704E-02	1.00662E 02	-1.39552E-02	6.48401E-01	-9.55767E-03
19.50	2.69185E-04	-6.22300E-01	-1.46831E-02	1.00673E 02	-1.41621E-02	6.55012E-01	-9.55851E-03
19.60	2.71953E-04	-6.28777E-01	-1.48980E-02	1.00684E 02	-1.43710E-02	6.61657E-01	-9.55933E-03
19.70	2.74735E-04	-6.35287E-01	-1.51149E-02	1.00695E 02	-1.45819E-02	6.68335E-01	-9.56015E-03
19.80	2.77531E-04	-6.41831E-01	-1.53339E-02	1.00706E 02	-1.47950E-02	6.75046E-01	-9.56095E-03
19.90	2.80341E-04	-6.48408E-01	-1.55550E-02	1.00716E 02	-1.50100E-02	6.81790E-01	-9.56175E-03
20.00	2.83165E-04	-6.55019E-01	-1.57782E-02	1.00727E 02	-1.52272E-02	6.88568E-01	-9.56255E-03
20.10	2.86004E-04	-6.61663E-01	-1.60035E-02	1.00737E 02	-1.54464E-02	6.95380E-01	-9.56333E-03
20.20	2.88856E-04	-6.68340E-01	-1.62310E-02	1.00748E 02	-1.56677E-02	7.02224E-01	-9.56411E-03
20.30	2.91723E-04	-6.75051E-01	-1.64605E-02	1.00758E 02	-1.58911E-02	7.09102E-01	-9.56488E-03
20.40	2.94604E-04	-6.81795E-01	-1.66923E-02	1.00768E 02	-1.61167E-02	7.16014E-01	-9.56565E-03
20.50	2.97499E-04	-6.88572E-01	-1.69261E-02	1.00778E 02	-1.63443E-02	7.22959E-01	-9.56641E-03
20.60	3.00408E-04	-6.95383E-01	-1.71622E-02	1.00788E 02	-1.65741E-02	7.29937E-01	-9.56716E-03
20.70	3.03331E-04	-7.02227E-01	-1.74004E-02	1.00798E 02	-1.68060E-02	7.36949E-01	-9.56790E-03
20.80	3.06269E-04	-7.09105E-01	-1.76407E-02	1.00807E 02	-1.70401E-02	7.43994E-01	-9.56864E-03
20.90	3.09221E-04	-7.16016E-01	-1.78833E-02	1.00817E 02	-1.72763E-02	7.51072E-01	-9.56937E-03
21.00	3.12186E-04	-7.22961E-01	-1.81281E-02	1.00827E 02	-1.75147E-02	7.58184E-01	-9.57010E-03
21.10	3.15166E-04	-7.29938E-01	-1.83751E-02	1.00836E 02	-1.77552E-02	7.65329E-01	-9.57081E-03
21.20	3.18160E-04	-7.36949E-01	-1.86243E-02	1.00845E 02	-1.79980E-02	7.72507E-01	-9.57153E-03
21.30	3.21169E-04	-7.43994E-01	-1.88758E-02	1.00855E 02	-1.82430E-02	7.79719E-01	-9.57223E-03
21.40	3.24191E-04	-7.51071E-01	-1.91294E-02	1.00864E 02	-1.84901E-02	7.86964E-01	-9.57293E-03
21.50	3.27228E-04	-7.58183E-01	-1.93854E-02	1.00873E 02	-1.87395E-02	7.94243E-01	-9.57363E-03
21.60	3.30278E-04	-7.65327E-01	-1.96436E-02	1.00882E 02	-1.89911E-02	8.01554E-01	-9.57431E-03
21.70	3.33343E-04	-7.72505E-01	-1.99040E-02	1.00891E 02	-1.92450E-02	8.08900E-01	-9.57500E-03
21.80	3.36422E-04	-7.79716E-01	-2.01668E-02	1.00900E 02	-1.95011E-02	8.16278E-01	-9.57567E-03
21.90	3.39516E-04	-7.86961E-01	-2.04318E-02	1.00908E 02	-1.97594E-02	8.23690E-01	-9.57634E-03
22.00	3.42623E-04	-7.94239E-01	-2.06992E-02	1.00917E 02	-2.00201E-02	8.31135E-01	-9.57701E-03
22.10	3.45745E-04	-8.01550E-01	-2.09688E-02	1.00926E 02	-2.02830E-02	8.38614E-01	-9.57767E-03
22.20	3.48880E-04	-8.08895E-01	-2.12408E-02	1.00934E 02	-2.05482E-02	8.46126E-01	-9.57832E-03
22.30	3.52030E-04	-8.16273E-01	-2.15151E-02	1.00943E 02	-2.08156E-02	8.53671E-01	-9.57897E-03
22.40	3.55194E-04	-8.23684E-01	-2.17918E-02	1.00951E 02	-2.10854E-02	8.61249E-01	-9.57961E-03
22.50	3.58372E-04	-8.31129E-01	-2.20708E-02	1.00959E 02	-2.13575E-02	8.68861E-01	-9.58025E-03
22.60	3.61564E-04	-8.38607E-01	-2.23521E-02	1.00967E 02	-2.16320E-02	8.76506E-01	-9.58088E-03
22.70	3.64771E-04	-8.46118E-01	-2.26358E-02	1.00975E 02	-2.19087E-02	8.84185E-01	-9.58151E-03
22.80	3.67991E-04	-8.53663E-01	-2.29219E-02	1.00984E 02	-2.21879E-02	8.91897E-01	-9.58213E-03
22.90	3.71226E-04	-8.61241E-01	-2.32104E-02	1.00991E 02	-2.24693E-02	8.99642E-01	-9.58275E-03
23.00	3.74475E-04	-8.68852E-01	-2.35013E-02	1.00999E 02	-2.27532E-02	9.07420E-01	-9.58336E-03
23.10	3.77738E-04	-8.76497E-01	-2.37946E-02	1.01007E 02	-2.30394E-02	9.15232E-01	-9.58396E-03
23.20	3.81015E-04	-8.84175E-01	-2.40903E-02	1.01015E 02	-2.33280E-02	9.23077E-01	-9.58457E-03
23.30	3.84307E-04	-8.91886E-01	-2.43885E-02	1.01023E 02	-2.36190E-02	9.30956E-01	-9.58516E-03
23.40	3.87612E-04	-8.99631E-01	-2.46891E-02	1.01030E 02	-2.39124E-02	9.38867E-01	-9.58576E-03
23.50	3.90932E-04	-9.07409E-01	-2.49921E-02	1.01038E 02	-2.42082E-02	9.46812E-01	-9.58634E-03
23.60	3.94266E-04	-9.15220E-01	-2.52976E-02	1.01045E 02	-2.45065E-02	9.54791E-01	-9.58693E-03
23.70	3.97614E-04	-9.23065E-01	-2.56056E-02	1.01053E 02	-2.48072E-02	9.62802E-01	-9.58750E-03
23.80	4.00976E-04	-9.30942E-01	-2.59160E-02	1.01060E 02	-2.51103E-02	9.70847E-01	-9.58808E-03
23.90	4.04352E-04	-9.38853E-01	-2.62289E-02	1.01067E 02	-2.54159E-02	9.78925E-01	-9.58865E-03
24.00	4.07743E-04	-9.46798E-01	-2.65444E-02	1.01075E 02	-2.57239E-02	9.87037E-01	-9.58921E-03

## ELECTRON RADIAL FUNCTIONS

Electron	Z=2		A=4		$\rho=1.2 A^{1/3} F$					
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$		
24.10	1.04745 E 00	-2.40525 E 01	-1.13536 E 00	9.73682 E-04	-1.10083 E 00	2.50698 E 01	-6.33747 E 02			
24.20	1.04745 E 00	-2.41538 E 01	-1.14412 E 00	9.74749 E-04	-1.10943 E 00	2.51711 E 01	-6.34327 E 02			
24.30	1.04745 E 00	-2.42551 E 01	-1.15292 E 00	9.75805 E-04	-1.11806 E 00	2.52724 E 01	-6.34905 E 02			
24.40	1.04745 E 00	-2.43564 E 01	-1.16175 E 00	9.76854 E-04	-1.12673 E 00	2.53736 E 01	-6.35478 E 02			
24.50	1.04745 E 00	-2.44576 E 01	-1.17062 E 00	9.77889 E-04	-1.13542 E 00	2.54749 E 01	-6.36049 E 02			
24.60	1.04744 E 00	-2.45589 E 01	-1.17952 E 00	9.78915 E-04	-1.14416 E 00	2.55761 E 01	-6.36618 E 02			
24.70	1.04744 E 00	-2.46602 E 01	-1.18845 E 00	9.79931 E-04	-1.15292 E 00	2.56774 E 01	-6.37183 E 02			
24.80	1.04744 E 00	-2.47615 E 01	-1.19742 E 00	9.80935 E-04	-1.16172 E 00	2.57786 E 01	-6.37746 E 02			
24.90	1.04744 E 00	-2.48627 E 01	-1.20641 E 00	9.81929 E-04	-1.17055 E 00	2.58798 E 01	-6.38307 E 02			
25.00	1.04744 E 00	-2.49640 E 01	-1.21544 E 00	9.82913 E-04	-1.17941 E 00	2.59810 E 01	-6.38865 E 02			
25.10	1.04744 E 00	-2.50652 E 01	-1.22451 E 00	9.83887 E-04	-1.18831 E 00	2.60822 E 01	-6.39421 E 02			
25.20	1.04744 E 00	-2.51664 E 01	-1.23361 E 00	9.84850 E-04	-1.19724 E 00	2.61834 E 01	-6.39974 E 02			
25.30	1.04744 E 00	-2.52676 E 01	-1.24274 E 00	9.85806 E-04	-1.20620 E 00	2.62846 E 01	-6.40524 E 02			
25.40	1.04743 E 00	-2.53689 E 01	-1.25190 E 00	9.86752 E-04	-1.21520 E 00	2.63858 E 01	-6.41071 E 02			
25.50	1.04743 E 00	-2.54701 E 01	-1.26110 E 00	9.87687 E-04	-1.22422 E 00	2.64870 E 01	-6.41617 E 02			
25.60	1.04743 E 00	-2.55713 E 01	-1.27033 E 00	9.88610 E-04	-1.23329 E 00	2.65882 E 01	-6.42161 E 02			
25.70	1.04743 E 00	-2.56725 E 01	-1.27959 E 00	9.89529 E-04	-1.24238 E 00	2.66893 E 01	-6.42701 E 02			
25.80	1.04743 E 00	-2.57737 E 01	-1.28889 E 00	9.90437 E-04	-1.25151 E 00	2.67905 E 01	-6.43238 E 02			
25.90	1.04743 E 00	-2.58748 E 01	-1.29822 E 00	9.91334 E-04	-1.26067 E 00	2.68916 E 01	-6.43775 E 02			
26.00	1.04743 E 00	-2.59760 E 01	-1.30758 E 00	9.92224 E-04	-1.26987 E 00	2.69928 E 01	-6.44308 E 02			
26.10	1.04743 E 00	-2.60772 E 01	-1.31698 E 00	9.93103 E-04	-1.27910 E 00	2.70939 E 01	-6.44840 E 02			
26.20	1.04743 E 00	-2.61783 E 01	-1.32640 E 00	9.93973 E-04	-1.28836 E 00	2.71950 E 01	-6.45369 E 02			
26.30	1.04742 E 00	-2.62795 E 01	-1.33587 E 00	9.94837 E-04	-1.29765 E 00	2.72961 E 01	-6.45895 E 02			
26.40	1.04742 E 00	-2.63806 E 01	-1.34536 E 00	9.95692 E-04	-1.30698 E 00	2.73972 E 01	-6.46419 E 02			
26.50	1.04742 E 00	-2.64817 E 01	-1.35489 E 00	9.96537 E-04	-1.31634 E 00	2.74983 E 01	-6.46941 E 02			
26.60	1.04742 E 00	-2.65828 E 01	-1.36445 E 00	9.97374 E-04	-1.32574 E 00	2.75994 E 01	-6.47461 E 02			
26.70	1.04742 E 00	-2.66840 E 01	-1.37405 E 00	9.98204 E-04	-1.33516 E 00	2.77005 E 01	-6.47979 E 02			
26.80	1.04742 E 00	-2.67851 E 01	-1.38367 E 00	9.99022 E-04	-1.34462 E 00	2.78016 E 01	-6.48495 E 02			
26.90	1.04742 E 00	-2.68862 E 01	-1.39334 E 00	9.99835 E-04	-1.35412 E 00	2.79027 E 01	-6.49009 E 02			
27.00	1.04742 E 00	-2.69873 E 01	-1.40303 E 00	1.00064 E-03	-1.36364 E 00	2.80037 E 01	-6.49521 E 02			
27.10	1.04742 E 00	-2.70883 E 01	-1.41276 E 00	1.00143 E-03	-1.37320 E 00	2.81048 E 01	-6.50030 E 02			
27.20	1.04741 E 00	-2.71894 E 01	-1.42252 E 00	1.00222 E-03	-1.38279 E 00	2.82058 E 01	-6.50539 E 02			
27.30	1.04741 E 00	-2.72905 E 01	-1.43231 E 00	1.00300 E-03	-1.39242 E 00	2.83068 E 01	-6.51045 E 02			
27.40	1.04741 E 00	-2.73915 E 01	-1.44214 E 00	1.00377 E-03	-1.40208 E 00	2.84079 E 01	-6.51548 E 02			
27.50	1.04741 E 00	-2.74926 E 01	-1.45200 E 00	1.00454 E-03	-1.41177 E 00	2.85089 E 01	-6.52050 E 02			
27.60	1.04741 E 00	-2.75936 E 01	-1.46189 E 00	1.00529 E-03	-1.42150 E 00	2.86099 E 01	-6.52549 E 02			
27.70	1.04741 E 00	-2.76947 E 01	-1.47182 E 00	1.00604 E-03	-1.43125 E 00	2.87109 E 01	-6.53048 E 02			
27.80	1.04741 E 00	-2.77957 E 01	-1.48177 E 00	1.00678 E-03	-1.44105 E 00	2.88119 E 01	-6.53543 E 02			
27.90	1.04741 E 00	-2.78967 E 01	-1.49177 E 00	1.00751 E-03	-1.45087 E 00	2.89128 E 01	-6.54037 E 02			
28.00	1.04741 E 00	-2.79977 E 01	-1.50179 E 00	1.00824 E-03	-1.46073 E 00	2.90138 E 01	-6.54530 E 02			
28.10	1.04741 E 00	-2.80987 E 01	-1.51185 E 00	1.00896 E-03	-1.47062 E 00	2.91148 E 01	-6.55020 E 02			
28.20	1.04740 E 00	-2.81997 E 01	-1.52194 E 00	1.00967 E-03	-1.48054 E 00	2.92157 E 01	-6.55509 E 02			
28.30	1.04740 E 00	-2.83007 E 01	-1.53206 E 00	1.01038 E-03	-1.49050 E 00	2.93167 E 01	-6.55996 E 02			
28.40	1.04740 E 00	-2.84016 E 01	-1.54222 E 00	1.01107 E-03	-1.50049 E 00	2.94176 E 01	-6.56481 E 02			
28.50	1.04740 E 00	-2.85026 E 01	-1.55241 E 00	1.01176 E-03	-1.51051 E 00	2.95186 E 01	-6.56965 E 02			
28.60	1.04740 E 00	-2.86036 E 01	-1.56264 E 00	1.01245 E-03	-1.52057 E 00	2.96195 E 01	-6.57447 E 02			
28.70	1.04740 E 00	-2.87045 E 01	-1.57289 E 00	1.01312 E-03	-1.53066 E 00	2.97204 E 01	-6.57926 E 02			
28.80	1.04740 E 00	-2.88054 E 01	-1.58318 E 00	1.01379 E-03	-1.54078 E 00	2.98213 E 01	-6.58405 E 02			
28.90	1.04740 E 00	-2.89064 E 01	-1.59350 E 00	1.01446 E-03	-1.55093 E 00	2.99222 E 01	-6.58881 E 02			
29.00	1.04740 E 00	-2.90073 E 01	-1.60386 E 00	1.01511 E-03	-1.56112 E 00	3.00231 E 01	-6.59356 E 02			
29.10	1.04740 E 00	-2.91082 E 01	-1.61425 E 00	1.01576 E-03	-1.57134 E 00	3.01240 E 01	-6.59830 E 02			
29.20	1.04739 E 00	-2.92091 E 01	-1.62467 E 00	1.01640 E-03	-1.58160 E 00	3.02248 E 01	-6.60302 E 02			
29.30	1.04739 E 00	-2.93100 E 01	-1.63512 E 00	1.01704 E-03	-1.59188 E 00	3.03257 E 01	-6.60772 E 02			
29.40	1.04739 E 00	-2.94109 E 01	-1.64561 E 00	1.01767 E-03	-1.60220 E 00	3.04265 E 01	-6.61241 E 02			
29.50	1.04739 E 00	-2.95118 E 01	-1.65613 E 00	1.01829 E-03	-1.61256 E 00	3.05274 E 01	-6.61708 E 02			
29.60	1.04739 E 00	-2.96127 E 01	-1.66669 E 00	1.01891 E-03	-1.62294 E 00	3.06282 E 01	-6.62174 E 02			
29.70	1.04739 E 00	-2.97135 E 01	-1.67727 E 00	1.01952 E-03	-1.63336 E 00	3.07290 E 01	-6.62638 E 02			
29.80	1.04739 E 00	-2.98144 E 01	-1.68789 E 00	1.02013 E-03	-1.64381 E 00	3.08299 E 01	-6.63100 E 02			
29.90	1.04739 E 00	-2.99152 E 01	-1.69855 E 00	1.02072 E-03	-1.65430 E 00	3.09307 E 01	-6.63561 E 02			
30.00	1.04739 E 00	-3.00160 E 01	-1.70923 E 00	1.02131 E-03	-1.66482 E 00	3.10315 E 01	-6.64021 E 02			





## ELECTRON RADIAL FUNCTIONS

Electron	$Z=2$		$A=4$		$\rho=1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
30.10	1.04739E 00	-3.01169E 01	-1.71995E 00	1.02190E-03	-1.67537E 00	3.11323E 01	-6.64478E 02			
30.20	1.04739E 00	-3.02177E 01	-1.73070E 00	1.02248E-03	-1.68596E 00	3.12330E 01	-6.64936E 02			
30.30	1.04738E 00	-3.03185E 01	-1.74149E 00	1.02305E-03	-1.69657E 00	3.13338E 01	-6.65392E 02			
30.40	1.04738E 00	-3.04193E 01	-1.75231E 00	1.02362E-03	-1.70722E 00	3.14346E 01	-6.65845E 02			
30.50	1.04738E 00	-3.05201E 01	-1.76316E 00	1.02418E-03	-1.71791E 00	3.15353E 01	-6.66298E 02			
30.60	1.04738E 00	-3.06209E 01	-1.77404E 00	1.02474E-03	-1.72862E 00	3.16361E 01	-6.66749E 02			
30.70	1.04738E 00	-3.07216E 01	-1.78496E 00	1.02529E-03	-1.73937E 00	3.17368E 01	-6.67199E 02			
30.80	1.04738E 00	-3.08224E 01	-1.79591E 00	1.02584E-03	-1.75016E 00	3.18375E 01	-6.67648E 02			
30.90	1.04738E 00	-3.09232E 01	-1.80689E 00	1.02637E-03	-1.76097E 00	3.19382E 01	-6.68095E 02			
31.00	1.04738E 00	-3.10239E 01	-1.81791E 00	1.02691E-03	-1.77182E 00	3.20390E 01	-6.68541E 02			
31.10	1.04738E 00	-3.11246E 01	-1.82896E 00	1.02743E-03	-1.78270E 00	3.21396E 01	-6.68986E 02			
31.20	1.04738E 00	-3.12254E 01	-1.84004E 00	1.02796E-03	-1.79361E 00	3.22403E 01	-6.69429E 02			
31.30	1.04738E 00	-3.13261E 01	-1.85115E 00	1.02847E-03	-1.80456E 00	3.23410E 01	-6.69872E 02			
31.40	1.04737E 00	-3.14268E 01	-1.86230E 00	1.02898E-03	-1.81554E 00	3.24417E 01	-6.70312E 02			
31.50	1.04737E 00	-3.15275E 01	-1.87348E 00	1.02949E-03	-1.82656E 00	3.25424E 01	-6.70752E 02			
31.60	1.04737E 00	-3.16282E 01	-1.88469E 00	1.02999E-03	-1.83760E 00	3.26430E 01	-6.71190E 02			
31.70	1.04737E 00	-3.17289E 01	-1.89594E 00	1.03049E-03	-1.84868E 00	3.27436E 01	-6.71627E 02			
31.80	1.04737E 00	-3.18295E 01	-1.90722E 00	1.03098E-03	-1.85979E 00	3.28443E 01	-6.72063E 02			
31.90	1.04737E 00	-3.19302E 01	-1.91853E 00	1.03146E-03	-1.87094E 00	3.29449E 01	-6.72498E 02			
32.00	1.04737E 00	-3.20309E 01	-1.92988E 00	1.03194E-03	-1.88212E 00	3.30455E 01	-6.72932E 02			
32.10	1.04737E 00	-3.21315E 01	-1.94126E 00	1.03242E-03	-1.89333E 00	3.31461E 01	-6.73364E 02			
32.20	1.04737E 00	-3.22321E 01	-1.95267E 00	1.03289E-03	-1.90457E 00	3.32467E 01	-6.73796E 02			
32.30	1.04737E 00	-3.23328E 01	-1.96411E 00	1.03335E-03	-1.91585E 00	3.33473E 01	-6.74226E 02			
32.40	1.04737E 00	-3.24334E 01	-1.97559E 00	1.03381E-03	-1.92716E 00	3.34479E 01	-6.74656E 02			
32.50	1.04737E 00	-3.25340E 01	-1.98710E 00	1.03426E-03	-1.93850E 00	3.35485E 01	-6.75084E 02			
32.60	1.04736E 00	-3.26346E 01	-1.99864E 00	1.03471E-03	-1.94988E 00	3.36490E 01	-6.75511E 02			
32.70	1.04736E 00	-3.27352E 01	-2.01022E 00	1.03516E-03	-1.96128E 00	3.37496E 01	-6.75937E 02			
32.80	1.04736E 00	-3.28357E 01	-2.02183E 00	1.03559E-03	-1.97273E 00	3.38501E 01	-6.76362E 02			
32.90	1.04736E 00	-3.29363E 01	-2.03347E 00	1.03603E-03	-1.98420E 00	3.39506E 01	-6.76785E 02			
33.00	1.04736E 00	-3.30369E 01	-2.04514E 00	1.03646E-03	-1.99571E 00	3.40511E 01	-6.77209E 02			
33.10	1.04736E 00	-3.31374E 01	-2.05685E 00	1.03688E-03	-2.00725E 00	3.41517E 01	-6.77631E 02			
33.20	1.04736E 00	-3.32380E 01	-2.06859E 00	1.03730E-03	-2.01882E 00	3.42522E 01	-6.78052E 02			
33.30	1.04736E 00	-3.33385E 01	-2.08036E 00	1.03772E-03	-2.03043E 00	3.43526E 01	-6.78471E 02			
33.40	1.04736E 00	-3.34390E 01	-2.09217E 00	1.03813E-03	-2.04207E 00	3.44531E 01	-6.78890E 02			
33.50	1.04736E 00	-3.35395E 01	-2.10401E 00	1.03854E-03	-2.05374E 00	3.45536E 01	-6.79309E 02			
33.60	1.04736E 00	-3.36400E 01	-2.11588E 00	1.03894E-03	-2.06544E 00	3.46541E 01	-6.79726E 02			
33.70	1.04736E 00	-3.37405E 01	-2.12778E 00	1.03933E-03	-2.07718E 00	3.47545E 01	-6.80143E 02			
33.80	1.04735E 00	-3.38410E 01	-2.13972E 00	1.03973E-03	-2.08895E 00	3.48550E 01	-6.80558E 02			
33.90	1.04735E 00	-3.39415E 01	-2.15169E 00	1.04011E-03	-2.10075E 00	3.49554E 01	-6.80973E 02			
34.00	1.04735E 00	-3.40419E 01	-2.16370E 00	1.04050E-03	-2.11259E 00	3.50558E 01	-6.81385E 02			
34.10	1.04735E 00	-3.41424E 01	-2.17573E 00	1.04088E-03	-2.12446E 00	3.51562E 01	-6.81798E 02			
34.20	1.04735E 00	-3.42428E 01	-2.18780E 00	1.04125E-03	-2.13636E 00	3.52566E 01	-6.82210E 02			
34.30	1.04735E 00	-3.43433E 01	-2.19990E 00	1.04162E-03	-2.14830E 00	3.53570E 01	-6.82620E 02			
34.40	1.04735E 00	-3.44437E 01	-2.21204E 00	1.04199E-03	-2.16026E 00	3.54574E 01	-6.83030E 02			
34.50	1.04735E 00	-3.45441E 01	-2.22420E 00	1.04235E-03	-2.17226E 00	3.55578E 01	-6.83439E 02			
34.60	1.04735E 00	-3.46445E 01	-2.23640E 00	1.04271E-03	-2.18430E 00	3.56581E 01	-6.83847E 02			
34.70	1.04735E 00	-3.47449E 01	-2.24864E 00	1.04306E-03	-2.19636E 00	3.57585E 01	-6.84255E 02			
34.80	1.04735E 00	-3.48453E 01	-2.26090E 00	1.04341E-03	-2.20846E 00	3.58588E 01	-6.84660E 02			
34.90	1.04735E 00	-3.49456E 01	-2.27320E 00	1.04376E-03	-2.22059E 00	3.59592E 01	-6.85067E 02			
35.00	1.04735E 00	-3.50460E 01	-2.28553E 00	1.04410E-03	-2.23276E 00	3.60595E 01	-6.85472E 02			
35.10	1.04734E 00	-3.51463E 01	-2.29790E 00	1.04443E-03	-2.24496E 00	3.61598E 01	-6.85876E 02			
35.20	1.04734E 00	-3.52467E 01	-2.31030E 00	1.04477E-03	-2.25719E 00	3.62601E 01	-6.86278E 02			
35.30	1.04734E 00	-3.53470E 01	-2.32273E 00	1.04510E-03	-2.26945E 00	3.63604E 01	-6.86681E 02			
35.40	1.04734E 00	-3.54474E 01	-2.33519E 00	1.04542E-03	-2.28174E 00	3.64607E 01	-6.87083E 02			
35.50	1.04734E 00	-3.55477E 01	-2.34768E 00	1.04574E-03	-2.29407E 00	3.65609E 01	-6.87484E 02			
35.60	1.04734E 00	-3.56480E 01	-2.36021E 00	1.04606E-03	-2.30643E 00	3.66612E 01	-6.87885E 02			
35.70	1.04734E 00	-3.57483E 01	-2.37277E 00	1.04637E-03	-2.31883E 00	3.67614E 01	-6.88285E 02			
35.80	1.04734E 00	-3.58485E 01	-2.38537E 00	1.04668E-03	-2.33126E 00	3.68617E 01	-6.88684E 02			
35.90	1.04734E 00	-3.59488E 01	-2.39800E 00	1.04699E-03	-2.34372E 00	3.69619E 01	-6.89081E 02			
36.00	1.04734E 00	-3.60491E 01	-2.41066E 00	1.04729E-03	-2.35621E 00	3.70621E 01	-6.89479E 02			



ELECTRON RADIAL FUNCTIONS

$p$	Electron							
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
30.10	6.41328E-04	-1.49426E 00	-5.08975E-02	1.01422E 02	-4.95643E-02	1.54467E 00	-9.61693E-03	
30.20	6.45596E-04	-1.50426E 00	-5.13869E-02	1.01427E 02	-5.00443E-02	1.55484E 00	-9.61730E-03	
30.30	6.49878E-04	-1.51430E 00	-5.18795E-02	1.01431E 02	-5.05273E-02	1.56504E 00	-9.61766E-03	
30.40	6.54175E-04	-1.52437E 00	-5.23751E-02	1.01436E 02	-5.10135E-02	1.57528E 00	-9.61802E-03	
30.50	6.58485E-04	-1.53447E 00	-5.28739E-02	1.01440E 02	-5.15028E-02	1.58555E 00	-9.61838E-03	
30.60	6.62810E-04	-1.54461E 00	-5.33758E-02	1.01444E 02	-5.19951E-02	1.59585E 00	-9.61874E-03	
30.70	6.67149E-04	-1.55478E 00	-5.38809E-02	1.01449E 02	-5.24906E-02	1.60618E 00	-9.61909E-03	
30.80	6.71502E-04	-1.56498E 00	-5.43892E-02	1.01453E 02	-5.29892E-02	1.61655E 00	-9.61945E-03	
30.90	6.75869E-04	-1.57521E 00	-5.49006E-02	1.01457E 02	-5.34910E-02	1.62695E 00	-9.61980E-03	
31.00	6.80250E-04	-1.58548E 00	-5.54152E-02	1.01462E 02	-5.39959E-02	1.63739E 00	-9.62014E-03	
31.10	6.84645E-04	-1.59578E 00	-5.59330E-02	1.01466E 02	-5.45040E-02	1.64786E 00	-9.62049E-03	
31.20	6.89055E-04	-1.60612E 00	-5.64540E-02	1.01470E 02	-5.50152E-02	1.65836E 00	-9.62084E-03	
31.30	6.93479E-04	-1.61648E 00	-5.69782E-02	1.01474E 02	-5.55296E-02	1.66889E 00	-9.62118E-03	
31.40	6.97917E-04	-1.62688E 00	-5.75056E-02	1.01478E 02	-5.60472E-02	1.67946E 00	-9.62152E-03	
31.50	7.02369E-04	-1.63732E 00	-5.80363E-02	1.01482E 02	-5.65680E-02	1.69006E 00	-9.62185E-03	
31.60	7.06835E-04	-1.64778E 00	-5.85702E-02	1.01487E 02	-5.70921E-02	1.70069E 00	-9.62219E-03	
31.70	7.11315E-04	-1.65828E 00	-5.91074E-02	1.01491E 02	-5.76193E-02	1.71135E 00	-9.62252E-03	
31.80	7.15810E-04	-1.66882E 00	-5.96478E-02	1.01495E 02	-5.81498E-02	1.72205E 00	-9.62285E-03	
31.90	7.20319E-04	-1.67938E 00	-6.01915E-02	1.01499E 02	-5.86834E-02	1.73278E 00	-9.62318E-03	
32.00	7.24841E-04	-1.68998E 00	-6.07384E-02	1.01503E 02	-5.92204E-02	1.74355E 00	-9.62351E-03	
32.10	7.29378E-04	-1.70061E 00	-6.12887E-02	1.01507E 02	-5.97606E-02	1.75435E 00	-9.62384E-03	
32.20	7.33930E-04	-1.71128E 00	-6.18423E-02	1.01511E 02	-6.03041E-02	1.76518E 00	-9.62416E-03	
32.30	7.38495E-04	-1.72198E 00	-6.23991E-02	1.01514E 02	-6.08508E-02	1.77604E 00	-9.62448E-03	
32.40	7.43074E-04	-1.73271E 00	-6.29593E-02	1.01518E 02	-6.14008E-02	1.78694E 00	-9.62480E-03	
32.50	7.47668E-04	-1.74347E 00	-6.35228E-02	1.01522E 02	-6.19542E-02	1.79787E 00	-9.62512E-03	
32.60	7.52276E-04	-1.75427E 00	-6.40897E-02	1.01526E 02	-6.25108E-02	1.80883E 00	-9.62544E-03	
32.70	7.56898E-04	-1.76510E 00	-6.46599E-02	1.01530E 02	-6.30708E-02	1.81983E 00	-9.62575E-03	
32.80	7.61534E-04	-1.77596E 00	-6.52334E-02	1.01534E 02	-6.36340E-02	1.83086E 00	-9.62607E-03	
32.90	7.66184E-04	-1.78686E 00	-6.58104E-02	1.01537E 02	-6.42006E-02	1.84192E 00	-9.62638E-03	
33.00	7.70848E-04	-1.79778E 00	-6.63907E-02	1.01541E 02	-6.47706E-02	1.85301E 00	-9.62669E-03	
33.10	7.75527E-04	-1.80875E 00	-6.69744E-02	1.01545E 02	-6.53439E-02	1.86414E 00	-9.62699E-03	
33.20	7.80220E-04	-1.81974E 00	-6.75615E-02	1.01549E 02	-6.59206E-02	1.87530E 00	-9.62730E-03	
33.30	7.84926E-04	-1.83077E 00	-6.81520E-02	1.01552E 02	-6.65006E-02	1.88650E 00	-9.62760E-03	
33.40	7.89647E-04	-1.84183E 00	-6.87459E-02	1.01556E 02	-6.70840E-02	1.89773E 00	-9.62790E-03	
33.50	7.94383E-04	-1.85293E 00	-6.93432E-02	1.01560E 02	-6.76709E-02	1.90899E 00	-9.62820E-03	
33.60	7.99132E-04	-1.86405E 00	-6.99440E-02	1.01563E 02	-6.82611E-02	1.92028E 00	-9.62850E-03	
33.70	8.03895E-04	-1.87521E 00	-7.05482E-02	1.01567E 02	-6.88547E-02	1.93160E 00	-9.62880E-03	
33.80	8.08673E-04	-1.88641E 00	-7.11559E-02	1.01570E 02	-6.94518E-02	1.94296E 00	-9.62909E-03	
33.90	8.13465E-04	-1.89763E 00	-7.17670E-02	1.01574E 02	-7.00523E-02	1.95436E 00	-9.62939E-03	
34.00	8.18271E-04	-1.90889E 00	-7.23817E-02	1.01577E 02	-7.06562E-02	1.96578E 00	-9.62968E-03	
34.10	8.23091E-04	-1.92018E 00	-7.29997E-02	1.01581E 02	-7.12636E-02	1.97724E 00	-9.62997E-03	
34.20	8.27925E-04	-1.93151E 00	-7.36213E-02	1.01584E 02	-7.18745E-02	1.98873E 00	-9.63026E-03	
34.30	8.32773E-04	-1.94287E 00	-7.42465E-02	1.01588E 02	-7.24888E-02	2.00025E 00	-9.63054E-03	
34.40	8.37636E-04	-1.95426E 00	-7.48750E-02	1.01591E 02	-7.31066E-02	2.01181E 00	-9.63083E-03	
34.50	8.42513E-04	-1.96568E 00	-7.55072E-02	1.01595E 02	-7.37279E-02	2.02340E 00	-9.63111E-03	
34.60	8.47403E-04	-1.97714E 00	-7.61429E-02	1.01598E 02	-7.43527E-02	2.03502E 00	-9.63140E-03	
34.70	8.52308E-04	-1.98863E 00	-7.67821E-02	1.01601E 02	-7.49810E-02	2.04668E 00	-9.63168E-03	
34.80	8.57228E-04	-2.00015E 00	-7.74248E-02	1.01605E 02	-7.56128E-02	2.05837E 00	-9.63196E-03	
34.90	8.62161E-04	-2.01171E 00	-7.80712E-02	1.01608E 02	-7.62481E-02	2.07009E 00	-9.63223E-03	
35.00	8.67108E-04	-2.02329E 00	-7.87211E-02	1.01611E 02	-7.68870E-02	2.08184E 00	-9.63251E-03	
35.10	8.72070E-04	-2.03491E 00	-7.93745E-02	1.01615E 02	-7.75294E-02	2.09363E 00	-9.63278E-03	
35.20	8.77046E-04	-2.04657E 00	-8.00316E-02	1.01618E 02	-7.81754E-02	2.10545E 00	-9.63306E-03	
35.30	8.82036E-04	-2.05826E 00	-8.06923E-02	1.01621E 02	-7.88250E-02	2.11730E 00	-9.63333E-03	
35.40	8.87040E-04	-2.06998E 00	-8.13566E-02	1.01625E 02	-7.94781E-02	2.12919E 00	-9.63360E-03	
35.50	8.92058E-04	-2.08173E 00	-8.20245E-02	1.01628E 02	-8.01349E-02	2.14111E 00	-9.63387E-03	
35.60	8.97090E-04	-2.09352E 00	-8.26960E-02	1.01631E 02	-8.07952E-02	2.15306E 00	-9.63413E-03	
35.70	9.02137E-04	-2.10534E 00	-8.33712E-02	1.01634E 02	-8.14591E-02	2.16505E 00	-9.63440E-03	
35.80	9.07198E-04	-2.11719E 00	-8.40500E-02	1.01637E 02	-8.21267E-02	2.17706E 00	-9.63467E-03	
35.90	9.12272E-04	-2.12907E 00	-8.47325E-02	1.01641E 02	-8.27979E-02	2.18911E 00	-9.63493E-03	
36.00	9.17362E-04	-2.14099E 00	-8.54186E-02	1.01644E 02	-8.34727E-02	2.20120E 00	-9.63519E-03	

## ELECTRON RADIAL FUNCTIONS

Electron	$Z=2$		$A=4$		$\rho=1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
36.10	1.04734E 00	-3.61493E 01	-2.42335E 00	1.04759E-03	-2.36873E 00	3.71623E 01	-6.89875E 02			
36.20	1.04734E 00	-3.62496E 01	-2.43607E 00	1.04788E-03	-2.38129E 00	3.72625E 01	-6.90272E 02			
36.30	1.04734E 00	-3.63498E 01	-2.44883E 00	1.04817E-03	-2.39388E 00	3.73627E 01	-6.90667E 02			
36.40	1.04734E 00	-3.64500E 01	-2.46162E 00	1.04845E-03	-2.40651E 00	3.74629E 01	-6.91062E 02			
36.50	1.04733E 00	-3.65502E 01	-2.47445E 00	1.04873E-03	-2.41916E 00	3.75631E 01	-6.91456E 02			
36.60	1.04733E 00	-3.66504E 01	-2.48730E 00	1.04901E-03	-2.43185E 00	3.76632E 01	-6.91849E 02			
36.70	1.04733E 00	-3.67506E 01	-2.50019E 00	1.04929E-03	-2.44458E 00	3.77634E 01	-6.92242E 02			
36.80	1.04733E 00	-3.68508E 01	-2.51311E 00	1.04956E-03	-2.45733E 00	3.78635E 01	-6.92635E 02			
36.90	1.04733E 00	-3.69510E 01	-2.52607E 00	1.04983E-03	-2.47012E 00	3.79636E 01	-6.93026E 02			
37.00	1.04733E 00	-3.70511E 01	-2.53905E 00	1.05009E-03	-2.48294E 00	3.80637E 01	-6.93417E 02			
37.10	1.04733E 00	-3.71513E 01	-2.55207E 00	1.05035E-03	-2.49579E 00	3.81639E 01	-6.93808E 02			
37.20	1.04733E 00	-3.72514E 01	-2.56513E 00	1.05061E-03	-2.50868E 00	3.82639E 01	-6.94197E 02			
37.30	1.04733E 00	-3.73515E 01	-2.57821E 00	1.05086E-03	-2.52160E 00	3.83640E 01	-6.94587E 02			
37.40	1.04733E 00	-3.74516E 01	-2.59133E 00	1.05111E-03	-2.53455E 00	3.84641E 01	-6.94976E 02			
37.50	1.04733E 00	-3.75517E 01	-2.60448E 00	1.05135E-03	-2.54753E 00	3.85642E 01	-6.95364E 02			
37.60	1.04733E 00	-3.76518E 01	-2.61766E 00	1.05160E-03	-2.56055E 00	3.86642E 01	-6.95750E 02			
37.70	1.04733E 00	-3.77519E 01	-2.63088E 00	1.05184E-03	-2.57360E 00	3.87643E 01	-6.96137E 02			
37.80	1.04733E 00	-3.78520E 01	-2.64413E 00	1.05207E-03	-2.58668E 00	3.88643E 01	-6.96524E 02			
37.90	1.04732E 00	-3.79521E 01	-2.65741E 00	1.05230E-03	-2.59979E 00	3.89643E 01	-6.96910E 02			
38.00	1.04732E 00	-3.80521E 01	-2.67073E 00	1.05253E-03	-2.61294E 00	3.90643E 01	-6.97296E 02			
38.10	1.04732E 00	-3.81522E 01	-2.68407E 00	1.05276E-03	-2.62612E 00	3.91643E 01	-6.97680E 02			
38.20	1.04732E 00	-3.82522E 01	-2.69745E 00	1.05298E-03	-2.63933E 00	3.92643E 01	-6.98065E 02			
38.30	1.04732E 00	-3.83522E 01	-2.71086E 00	1.05320E-03	-2.65258E 00	3.93643E 01	-6.98448E 02			
38.40	1.04732E 00	-3.84522E 01	-2.72431E 00	1.05342E-03	-2.66586E 00	3.94642E 01	-6.98831E 02			
38.50	1.04732E 00	-3.85522E 01	-2.73779E 00	1.05363E-03	-2.67917E 00	3.95642E 01	-6.99214E 02			
38.60	1.04732E 00	-3.86522E 01	-2.75130E 00	1.05384E-03	-2.69251E 00	3.96641E 01	-6.99596E 02			
38.70	1.04732E 00	-3.87522E 01	-2.76484E 00	1.05404E-03	-2.70589E 00	3.97641E 01	-6.99978E 02			
38.80	1.04732E 00	-3.88521E 01	-2.77842E 00	1.05425E-03	-2.71930E 00	3.98640E 01	-7.00359E 02			
38.90	1.04732E 00	-3.89521E 01	-2.79202E 00	1.05445E-03	-2.73274E 00	3.99639E 01	-7.00741E 02			
39.00	1.04732E 00	-3.90520E 01	-2.80567E 00	1.05464E-03	-2.74621E 00	4.00638E 01	-7.01120E 02			
39.10	1.04732E 00	-3.91520E 01	-2.81934E 00	1.05483E-03	-2.75972E 00	4.01637E 01	-7.01502E 02			
39.20	1.04732E 00	-3.92519E 01	-2.83305E 00	1.05503E-03	-2.77326E 00	4.02635E 01	-7.01880E 02			
39.30	1.04732E 00	-3.93518E 01	-2.84678E 00	1.05521E-03	-2.78683E 00	4.03634E 01	-7.02259E 02			
39.40	1.04732E 00	-3.94517E 01	-2.86056E 00	1.05540E-03	-2.80044E 00	4.04633E 01	-7.02638E 02			
39.50	1.04731E 00	-3.95516E 01	-2.87436E 00	1.05558E-03	-2.81407E 00	4.05631E 01	-7.03016E 02			
39.60	1.04731E 00	-3.96514E 01	-2.88820E 00	1.05576E-03	-2.82775E 00	4.06629E 01	-7.03394E 02			
39.70	1.04731E 00	-3.97513E 01	-2.90207E 00	1.05593E-03	-2.84145E 00	4.07627E 01	-7.03772E 02			
39.80	1.04731E 00	-3.98512E 01	-2.91597E 00	1.05610E-03	-2.85518E 00	4.08626E 01	-7.04149E 02			
39.90	1.04731E 00	-3.99510E 01	-2.92990E 00	1.05627E-03	-2.86895E 00	4.09624E 01	-7.04525E 02			
40.00	1.04731E 00	-4.00508E 01	-2.94387E 00	1.05643E-03	-2.88275E 00	4.10621E 01	-7.04902E 02			
40.10	1.04731E 00	-4.01507E 01	-2.95787E 00	1.05660E-03	-2.89659E 00	4.11619E 01	-7.05278E 02			
40.20	1.04731E 00	-4.02505E 01	-2.97190E 00	1.05675E-03	-2.91045E 00	4.12617E 01	-7.05654E 02			
40.30	1.04731E 00	-4.03503E 01	-2.98597E 00	1.05691E-03	-2.92435E 00	4.13614E 01	-7.06029E 02			
40.40	1.04731E 00	-4.04501E 01	-3.00007E 00	1.05707E-03	-2.93828E 00	4.14612E 01	-7.06403E 02			
40.50	1.04731E 00	-4.05498E 01	-3.01420E 00	1.05722E-03	-2.95224E 00	4.15609E 01	-7.06778E 02			
40.60	1.04731E 00	-4.06496E 01	-3.02836E 00	1.05736E-03	-2.96624E 00	4.16606E 01	-7.07152E 02			
40.70	1.04731E 00	-4.07494E 01	-3.04255E 00	1.05751E-03	-2.98027E 00	4.17603E 01	-7.07526E 02			
40.80	1.04731E 00	-4.08491E 01	-3.05678E 00	1.05765E-03	-2.99433E 00	4.18600E 01	-7.07899E 02			
40.90	1.04731E 00	-4.09488E 01	-3.07104E 00	1.05779E-03	-3.00842E 00	4.19597E 01	-7.08272E 02			
41.00	1.04730E 00	-4.10485E 01	-3.08534E 00	1.05793E-03	-3.02255E 00	4.20594E 01	-7.08645E 02			
41.10	1.04730E 00	-4.11482E 01	-3.09966E 00	1.05806E-03	-3.03671E 00	4.21590E 01	-7.09018E 02			
41.20	1.04730E 00	-4.12479E 01	-3.11402E 00	1.05819E-03	-3.05090E 00	4.22587E 01	-7.09391E 02			
41.30	1.04730E 00	-4.13476E 01	-3.12841E 00	1.05832E-03	-3.06513E 00	4.23583E 01	-7.09762E 02			
41.40	1.04730E 00	-4.14473E 01	-3.14283E 00	1.05844E-03	-3.07938E 00	4.24579E 01	-7.10134E 02			
41.50	1.04730E 00	-4.15470E 01	-3.15729E 00	1.05857E-03	-3.09367E 00	4.25575E 01	-7.10504E 02			
41.60	1.04730E 00	-4.16466E 01	-3.17178E 00	1.05868E-03	-3.10799E 00	4.26572E 01	-7.10875E 02			
41.70	1.04730E 00	-4.17462E 01	-3.18630E 00	1.05880E-03	-3.12235E 00	4.27567E 01	-7.11247E 02			
41.80	1.04730E 00	-4.18459E 01	-3.20085E 00	1.05891E-03	-3.13674E 00	4.28563E 01	-7.11618E 02			
41.90	1.04730E 00	-4.19455E 01	-3.21544E 00	1.05902E-03	-3.15116E 00	4.29559E 01	-7.11988E 02			
42.00	1.04730E 00	-4.20451E 01	-3.23006E 00	1.05913E-03	-3.16561E 00	4.30554E 01	-7.12359E 02			



## ELECTRON RADIAL FUNCTIONS

	$Z=2$	$A=4$	$\rho=1.2 A^{1/3} F$	Electron				
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
36.10	9.22465E-04	-2.15294E 00	-8.61085E-02	1.01647E 02	-8.41512E-02	2.21331E 00	-9.63545E-03	
36.20	9.27582E-04	-2.16493E 00	-8.68020E-02	1.01650E 02	-8.48333E-02	2.22546E 00	-9.63571E-03	
36.30	9.32714E-04	-2.17694E 00	-8.74992E-02	1.01653E 02	-8.55190E-02	2.23765E 00	-9.63597E-03	
36.40	9.37859E-04	-2.18899E 00	-8.82002E-02	1.01656E 02	-8.62085E-02	2.24986E 00	-9.63622E-03	
36.50	9.43019E-04	-2.20107E 00	-8.89048E-02	1.01659E 02	-8.69016E-02	2.26211E 00	-9.63648E-03	
36.60	9.48193E-04	-2.21319E 00	-8.96132E-02	1.01662E 02	-8.75985E-02	2.27439E 00	-9.63673E-03	
36.70	9.53381E-04	-2.22534E 00	-9.03253E-02	1.01665E 02	-8.82990E-02	2.28670E 00	-9.63698E-03	
36.80	9.58583E-04	-2.23752E 00	-9.10411E-02	1.01668E 02	-8.90032E-02	2.29905E 00	-9.63723E-03	
36.90	9.63800E-04	-2.24973E 00	-9.17607E-02	1.01671E 02	-8.97112E-02	2.31143E 00	-9.63748E-03	
37.00	9.69030E-04	-2.26198E 00	-9.24841E-02	1.01674E 02	-9.04229E-02	2.32384E 00	-9.63773E-03	
37.10	9.74275E-04	-2.27426E 00	-9.32112E-02	1.01677E 02	-9.11384E-02	2.33629E 00	-9.63798E-03	
37.20	9.79534E-04	-2.28657E 00	-9.39422E-02	1.01680E 02	-9.18576E-02	2.34877E 00	-9.63822E-03	
37.30	9.84807E-04	-2.29892E 00	-9.46769E-02	1.01683E 02	-9.25805E-02	2.36128E 00	-9.63847E-03	
37.40	9.90094E-04	-2.31130E 00	-9.54154E-02	1.01686E 02	-9.33072E-02	2.37382E 00	-9.63871E-03	
37.50	9.95395E-04	-2.32371E 00	-9.61578E-02	1.01689E 02	-9.40378E-02	2.38640E 00	-9.63895E-03	
37.60	1.00071E-03	-2.33615E 00	-9.69039E-02	1.01691E 02	-9.47721E-02	2.39901E 00	-9.63919E-03	
37.70	1.00604E-03	-2.34863E 00	-9.76539E-02	1.01694E 02	-9.55102E-02	2.41165E 00	-9.63943E-03	
37.80	1.01138E-03	-2.36114E 00	-9.84078E-02	1.01697E 02	-9.62521E-02	2.42432E 00	-9.63967E-03	
37.90	1.01674E-03	-2.37368E 00	-9.91655E-02	1.01700E 02	-9.69978E-02	2.43703E 00	-9.63991E-03	
38.00	1.02211E-03	-2.38625E 00	-9.99270E-02	1.01703E 02	-9.77474E-02	2.44977E 00	-9.64014E-03	
38.10	1.02750E-03	-2.39886E 00	-1.00692E-01	1.01705E 02	-9.85008E-02	2.46255E 00	-9.64038E-03	
38.20	1.03290E-03	-2.41150E 00	-1.01462E-01	1.01708E 02	-9.92580E-02	2.47535E 00	-9.64061E-03	
38.30	1.03832E-03	-2.42418E 00	-1.02235E-01	1.01711E 02	-1.00019E-01	2.48819E 00	-9.64085E-03	
38.40	1.04374E-03	-2.43688E 00	-1.03012E-01	1.01714E 02	-1.00784E-01	2.50106E 00	-9.64108E-03	
38.50	1.04919E-03	-2.44962E 00	-1.03793E-01	1.01717E 02	-1.01553E-01	2.51397E 00	-9.64131E-03	
38.60	1.05464E-03	-2.46239E 00	-1.04578E-01	1.01719E 02	-1.02326E-01	2.52691E 00	-9.64154E-03	
38.70	1.06012E-03	-2.47520E 00	-1.05367E-01	1.01722E 02	-1.03102E-01	2.53988E 00	-9.64176E-03	
38.80	1.06560E-03	-2.48804E 00	-1.06160E-01	1.01725E 02	-1.03883E-01	2.55288E 00	-9.64199E-03	
38.90	1.07110E-03	-2.50091E 00	-1.06956E-01	1.01727E 02	-1.04667E-01	2.56591E 00	-9.64222E-03	
39.00	1.07661E-03	-2.51381E 00	-1.07757E-01	1.01730E 02	-1.05456E-01	2.57898E 00	-9.64244E-03	
39.10	1.08214E-03	-2.52675E 00	-1.08562E-01	1.01733E 02	-1.06248E-01	2.59208E 00	-9.64266E-03	
39.20	1.08768E-03	-2.53972E 00	-1.09371E-01	1.01735E 02	-1.07044E-01	2.60522E 00	-9.64289E-03	
39.30	1.09324E-03	-2.55272E 00	-1.10183E-01	1.01738E 02	-1.07845E-01	2.61839E 00	-9.64311E-03	
39.40	1.09881E-03	-2.56575E 00	-1.11000E-01	1.01740E 02	-1.08649E-01	2.63159E 00	-9.64333E-03	
39.50	1.10439E-03	-2.57882E 00	-1.11820E-01	1.01743E 02	-1.09457E-01	2.64482E 00	-9.64355E-03	
39.60	1.10999E-03	-2.59192E 00	-1.12645E-01	1.01746E 02	-1.10269E-01	2.65808E 00	-9.64376E-03	
39.70	1.11561E-03	-2.60505E 00	-1.13474E-01	1.01748E 02	-1.11085E-01	2.67138E 00	-9.64398E-03	
39.80	1.12123E-03	-2.61822E 00	-1.14307E-01	1.01751E 02	-1.11905E-01	2.68471E 00	-9.64420E-03	
39.90	1.12687E-03	-2.63141E 00	-1.15143E-01	1.01753E 02	-1.12729E-01	2.69807E 00	-9.64441E-03	
40.00	1.13253E-03	-2.64465E 00	-1.15984E-01	1.01756E 02	-1.13558E-01	2.71147E 00	-9.64463E-03	
40.10	1.13820E-03	-2.65791E 00	-1.16829E-01	1.01758E 02	-1.14390E-01	2.72490E 00	-9.64484E-03	
40.20	1.14388E-03	-2.67121E 00	-1.17678E-01	1.01761E 02	-1.15226E-01	2.73836E 00	-9.64505E-03	
40.30	1.14958E-03	-2.68453E 00	-1.18531E-01	1.01763E 02	-1.16066E-01	2.75186E 00	-9.64526E-03	
40.40	1.15529E-03	-2.69790E 00	-1.19388E-01	1.01766E 02	-1.16911E-01	2.76538E 00	-9.64547E-03	
40.50	1.16102E-03	-2.71129E 00	-1.20249E-01	1.01768E 02	-1.17759E-01	2.77894E 00	-9.64568E-03	
40.60	1.16676E-03	-2.72472E 00	-1.21115E-01	1.01771E 02	-1.18612E-01	2.79253E 00	-9.64589E-03	
40.70	1.17251E-03	-2.73818E 00	-1.21984E-01	1.01773E 02	-1.19468E-01	2.80616E 00	-9.64609E-03	
40.80	1.17828E-03	-2.75167E 00	-1.22858E-01	1.01775E 02	-1.20329E-01	2.81982E 00	-9.64630E-03	
40.90	1.18406E-03	-2.76520E 00	-1.23736E-01	1.01778E 02	-1.21194E-01	2.83351E 00	-9.64650E-03	
41.00	1.18986E-03	-2.77875E 00	-1.24618E-01	1.01780E 02	-1.22063E-01	2.84723E 00	-9.64671E-03	
41.10	1.19567E-03	-2.79235E 00	-1.25504E-01	1.01783E 02	-1.22936E-01	2.86099E 00	-9.64691E-03	
41.20	1.20150E-03	-2.80597E 00	-1.26394E-01	1.01785E 02	-1.23813E-01	2.87478E 00	-9.64711E-03	
41.30	1.20733E-03	-2.81963E 00	-1.27288E-01	1.01787E 02	-1.24694E-01	2.88860E 00	-9.64731E-03	
41.40	1.21319E-03	-2.83331E 00	-1.28187E-01	1.01790E 02	-1.25580E-01	2.90245E 00	-9.64751E-03	
41.50	1.21906E-03	-2.84704E 00	-1.29090E-01	1.01792E 02	-1.26470E-01	2.91634E 00	-9.64771E-03	
41.60	1.22494E-03	-2.86079E 00	-1.29997E-01	1.01794E 02	-1.27363E-01	2.93026E 00	-9.64791E-03	
41.70	1.23083E-03	-2.87458E 00	-1.30908E-01	1.01797E 02	-1.28261E-01	2.94421E 00	-9.64811E-03	
41.80	1.23674E-03	-2.88840E 00	-1.31823E-01	1.01799E 02	-1.29164E-01	2.95819E 00	-9.64831E-03	
41.90	1.24267E-03	-2.90225E 00	-1.32743E-01	1.01801E 02	-1.30070E-01	2.97221E 00	-9.64850E-03	
42.00	1.24860E-03	-2.91613E 00	-1.33667E-01	1.01804E 02	-1.30981E-01	2.98626E 00	-9.64870E-03	



ELECTRON RADIAL FUNCTIONS

Electron	$Z=3$		$A=6$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
0.10	1.85369E 00	-9.73605E-03	-1.22008E-04	-9.30462E-02	-1.68542E-03	1.92250E-01	-8.10595E 00	00
0.20	1.39703E 00	-3.30667E-02	-4.15299E-04	-4.58438E-02	-9.29497E-03	3.32584E-01	-1.57975E 01	01
0.30	1.26326E 00	-6.93556E-02	-8.74232E-04	-3.02550E-02	-4.16959E-03	4.71657E-01	-2.34599E 01	01
0.40	1.20108E 00	-1.17336E-01	-1.48631E-03	-2.24453E-02	-5.41790E-03	6.08587E-01	-3.10113E 01	01
0.50	1.16589E 00	-1.75501E-01	-2.23665E-03	-1.77374E-02	-6.67059E-03	7.42859E-01	-3.84211E 01	01
0.60	1.14368E 00	-2.42291E-01	-3.10982E-03	-1.45803E-02	-7.92964E-03	8.74245E-01	-4.56714E 01	01
0.70	1.12864E 00	-3.16227E-01	-4.09122E-03	-1.23106E-02	-9.19784E-03	1.00273E 00	-5.27507E 01	01
0.80	1.11794E 00	-3.95984E-01	-5.16779E-03	-1.05970E-02	-1.04783E-02	1.12843E 00	-5.96525E 01	01
0.90	1.11005E 00	-4.80431E-01	-6.32843E-03	-9.25536E-03	-1.17743E-02	1.25158E 00	-6.63737E 01	01
1.00	1.10406E 00	-5.68631E-01	-7.56394E-03	-8.17519E-03	-1.30889E-02	1.37240E 00	-7.29138E 01	01
1.10	1.09941E 00	-6.59820E-01	-8.86688E-03	-7.28602E-03	-1.44249E-02	1.49117E 00	-7.92746E 01	01
1.20	1.09572E 00	-7.53390E-01	-1.02313E-02	-6.54078E-03	-1.57848E-02	1.60814E 00	-8.54589E 01	01
1.30	1.09275E 00	-8.48857E-01	-1.16526E-02	-5.90679E-03	-1.71708E-02	1.72354E 00	-9.14708E 01	01
1.40	1.09032E 00	-9.45837E-01	-1.31269E-02	-5.36064E-03	-1.85848E-02	1.83757E 00	-9.73147E 01	01
1.50	1.08832E 00	-1.04403E 00	-1.46515E-02	-4.88510E-03	-2.00284E-02	1.95042E 00	-1.02996E 02	02
1.60	1.08664E 00	-1.14320E 00	-1.62240E-02	-4.46721E-03	-2.15029E-02	2.06224E 00	-1.08519E 02	02
1.70	1.08522E 00	-1.24315E 00	-1.78427E-02	-4.09700E-03	-2.30095E-02	2.17317E 00	-1.13890E 02	02
1.80	1.08401E 00	-1.34374E 00	-1.95061E-02	-3.76670E-03	-2.45490E-02	2.28333E 00	-1.19114E 02	02
1.90	1.08298E 00	-1.44484E 00	-2.12131E-02	-3.47016E-03	-2.61225E-02	2.39282E 00	-1.24196E 02	02
2.00	1.08208E 00	-1.54638E 00	-2.29628E-02	-3.20242E-03	-2.77304E-02	2.50171E 00	-1.29142E 02	02
2.10	1.08130E 00	-1.64825E 00	-2.47546E-02	-2.95947E-03	-2.93734E-02	2.61010E 00	-1.33955E 02	02
2.20	1.08061E 00	-1.75042E 00	-2.65878E-02	-2.73799E-03	-3.10520E-02	2.71802E 00	-1.38642E 02	02
2.30	1.08001E 00	-1.85282E 00	-2.84620E-02	-2.53525E-03	-3.27666E-02	2.82555E 00	-1.43207E 02	02
2.40	1.07947E 00	-1.95541E 00	-3.03768E-02	-2.34897E-03	-3.45176E-02	2.93273E 00	-1.47654E 02	02
2.50	1.07899E 00	-2.05817E 00	-3.23319E-02	-2.17721E-03	-3.63052E-02	3.03959E 00	-1.51987E 02	02
2.60	1.07857E 00	-2.16107E 00	-3.43271E-02	-2.01833E-03	-3.81298E-02	3.14618E 00	-1.56212E 02	02
2.70	1.07818E 00	-2.26407E 00	-3.63622E-02	-1.87093E-03	-3.99914E-02	3.25251E 00	-1.60331E 02	02
2.80	1.07784E 00	-2.36717E 00	-3.84369E-02	-1.73382E-03	-4.18905E-02	3.35862E 00	-1.64348E 02	02
2.90	1.07752E 00	-2.47036E 00	-4.05513E-02	-1.60593E-03	-4.38270E-02	3.46453E 00	-1.68268E 02	02
3.00	1.07724E 00	-2.57360E 00	-4.27050E-02	-1.48639E-03	-4.58011E-02	3.57026E 00	-1.72093E 02	02
3.10	1.07698E 00	-2.67690E 00	-4.48982E-02	-1.37439E-03	-4.78131E-02	3.67583E 00	-1.75827E 02	02
3.20	1.07674E 00	-2.78025E 00	-4.71306E-02	-1.26924E-03	-4.98629E-02	3.78125E 00	-1.79473E 02	02
3.30	1.07653E 00	-2.88364E 00	-4.94023E-02	-1.17033E-03	-5.19507E-02	3.88653E 00	-1.83035E 02	02
3.40	1.07633E 00	-2.98706E 00	-5.17130E-02	-1.07712E-03	-5.40766E-02	3.99169E 00	-1.86514E 02	02
3.50	1.07614E 00	-3.09051E 00	-5.40629E-02	-9.89131E-04	-5.62406E-02	4.09673E 00	-1.89914E 02	02
3.60	1.07597E 00	-3.19398E 00	-5.64519E-02	-9.05936E-04	-5.84429E-02	4.20168E 00	-1.93238E 02	02
3.70	1.07581E 00	-3.29747E 00	-5.88799E-02	-8.27160E-04	-6.06834E-02	4.30652E 00	-1.96488E 02	02
3.80	1.07567E 00	-3.40097E 00	-6.13469E-02	-7.52452E-04	-6.29622E-02	4.41129E 00	-1.99666E 02	02
3.90	1.07553E 00	-3.50448E 00	-6.38529E-02	-6.81505E-04	-6.52794E-02	4.51597E 00	-2.02775E 02	02
4.00	1.07541E 00	-3.60801E 00	-6.63978E-02	-6.14045E-04	-6.76350E-02	4.62057E 00	-2.05817E 02	02
4.10	1.07529E 00	-3.71154E 00	-6.89817E-02	-5.49825E-04	-7.00291E-02	4.72511E 00	-2.08794E 02	02
4.20	1.07518E 00	-3.81508E 00	-7.16046E-02	-4.88613E-04	-7.24617E-02	4.82959E 00	-2.11708E 02	02
4.30	1.07507E 00	-3.91862E 00	-7.42663E-02	-4.30199E-04	-7.49327E-02	4.93400E 00	-2.14562E 02	02
4.40	1.07498E 00	-4.02216E 00	-7.69670E-02	-3.74403E-04	-7.74424E-02	5.03836E 00	-2.17357E 02	02
4.50	1.07489E 00	-4.12571E 00	-7.97065E-02	-3.21050E-04	-7.99905E-02	5.14267E 00	-2.20094E 02	02
4.60	1.07480E 00	-4.22925E 00	-8.24849E-02	-2.69983E-04	-8.25773E-02	5.24692E 00	-2.22777E 02	02
4.70	1.07472E 00	-4.33280E 00	-8.53022E-02	-2.21057E-04	-8.52026E-02	5.35113E 00	-2.25405E 02	02
4.80	1.07464E 00	-4.43634E 00	-8.81584E-02	-1.74145E-04	-8.78666E-02	5.45530E 00	-2.27982E 02	02
4.90	1.07457E 00	-4.53988E 00	-9.10534E-02	-1.29120E-04	-9.05692E-02	5.55943E 00	-2.30508E 02	02
5.00	1.07450E 00	-4.64342E 00	-9.39873E-02	-8.58721E-05	-9.33105E-02	5.66352E 00	-2.32985E 02	02
5.10	1.07443E 00	-4.74696E 00	-9.69600E-02	-4.43008E-05	-9.60905E-02	5.76758E 00	-2.35415E 02	02
5.20	1.07437E 00	-4.85049E 00	-9.99716E-02	-4.30876E-06	-9.89091E-02	5.87160E 00	-2.37798E 02	02
5.30	1.07431E 00	-4.95402E 00	-1.03022E-01	3.41869E-05	-1.01766E-01	5.97559E 00	-2.40136E 02	02
5.40	1.07426E 00	-5.05754E 00	-1.06111E-01	7.12779E-05	-1.04662E-01	6.07955E 00	-2.42431E 02	02
5.50	1.07420E 00	-5.16106E 00	-1.09239E-01	1.07036E-04	-1.07597E-01	6.18348E 00	-2.44683E 02	02
5.60	1.07415E 00	-5.26458E 00	-1.12406E-01	1.41523E-04	-1.10571E-01	6.28738E 00	-2.46895E 02	02
5.70	1.07410E 00	-5.36809E 00	-1.15612E-01	1.74819E-04	-1.13583E-01	6.39126E 00	-2.49066E 02	02
5.80	1.07406E 00	-5.47159E 00	-1.18857E-01	2.06974E-04	-1.16634E-01	6.49511E 00	-2.51198E 02	02
5.90	1.07401E 00	-5.57509E 00	-1.22140E-01	2.38048E-04	-1.19723E-01	6.59893E 00	-2.53292E 02	02
6.00	1.07397E 00	-5.67859E 00	-1.25462E-01	2.68098E-04	-1.22851E-01	6.70274E 00	-2.55349E 02	02

## ELECTRON RADIAL FUNCTIONS

	$Z=3$	$A=6$	$\rho=1.2A^{1/3}F$	Electron			
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	1.71766E-08	-1.77913E-06	-1.29314E-08	4.86226E 00	-1.85455E-07	3.70197E-05	-9.40718E-02
0.20	5.00126E-08	-1.23503E-05	-8.99737E-08	9.73975E 00	-6.32716E-07	1.25879E-04	-4.76662E-02
0.30	1.01094E-07	-3.90103E-05	-2.85263E-07	1.44022E 01	-1.34888E-06	2.66906E-04	-3.28583E-02
0.40	1.70492E-07	-8.81199E-05	-6.47663E-07	1.87949E 01	-2.33512E-06	4.58676E-04	-2.57994E-02
0.50	2.58326E-07	-1.64862E-04	-1.21934E-06	2.28723E 01	-3.59348E-06	6.99485E-04	-2.18047E-02
0.60	3.64704E-07	-2.73225E-04	-2.03566E-06	2.66111E 01	-5.12720E-06	9.87573E-04	-1.93189E-02
0.70	4.89720E-07	-4.16131E-04	-3.12598E-06	3.00070E 01	-6.94105E-06	1.32129E-03	-1.76767E-02
0.80	6.33447E-07	-5.95620E-04	-4.51465E-06	3.30706E 01	-9.04134E-06	1.69919E-03	-1.65468E-02
0.90	7.95945E-07	-8.13065E-04	-6.22227E-06	3.58221E 01	-1.14358E-05	2.12006E-03	-1.57461E-02
1.00	9.77260E-07	-1.06935E-03	-8.26674E-06	3.82871E 01	-1.41334E-05	2.58293E-03	-1.51662E-02
1.10	1.17743E-06	-1.36501E-03	-1.06640E-05	4.04931E 01	-1.71442E-05	3.08703E-03	-1.47393E-02
1.20	1.39648E-06	-1.70037E-03	-1.34289E-05	4.24675E 01	-2.04789E-05	3.63177E-03	-1.44209E-02
1.30	1.63443E-06	-2.07559E-03	-1.65752E-05	4.42366E 01	-2.41490E-05	4.21670E-03	-1.41814E-02
1.40	1.89131E-06	-2.49073E-03	-2.01165E-05	4.58243E 01	-2.81664E-05	4.84147E-03	-1.40000E-02
1.50	2.16712E-06	-2.94579E-03	-2.40657E-05	4.72522E 01	-3.25434E-05	5.50583E-03	-1.38621E-02
1.60	2.46187E-06	-3.44075E-03	-2.84357E-05	4.85395E 01	-3.72924E-05	6.20959E-03	-1.37572E-02
1.70	2.77558E-06	-3.97555E-03	-3.32395E-05	4.97030E 01	-4.24261E-05	6.95260E-03	-1.36775E-02
1.80	3.10824E-06	-4.55013E-03	-3.84898E-05	5.07575E 01	-4.79575E-05	7.73476E-03	-1.36174E-02
1.90	3.45987E-06	-5.16443E-03	-4.41993E-05	5.17159E 01	-5.38994E-05	8.55599E-03	-1.35725E-02
2.00	3.83047E-06	-5.81839E-03	-5.03809E-05	5.25892E 01	-6.02649E-05	9.41623E-03	-1.35396E-02
2.10	4.22004E-06	-6.51195E-03	-5.70474E-05	5.33873E 01	-6.70670E-05	1.03154E-02	-1.35161E-02
2.20	4.62859E-06	-7.24504E-03	-6.42116E-05	5.41185E 01	-7.43190E-05	1.12536E-02	-1.35000E-02
2.30	5.05611E-06	-8.01762E-03	-7.18864E-05	5.47902E 01	-8.20338E-05	1.22306E-02	-1.34899E-02
2.40	5.50262E-06	-8.82964E-03	-8.00847E-05	5.54087E 01	-9.02248E-05	1.32466E-02	-1.34846E-02
2.50	5.96811E-06	-9.68106E-03	-8.88195E-05	5.59797E 01	-9.89050E-05	1.43014E-02	-1.34830E-02
2.60	6.45257E-06	-1.05718E-02	-9.81035E-05	5.65081E 01	-1.08088E-04	1.53952E-02	-1.34844E-02
2.70	6.95602E-06	-1.15019E-02	-1.07950E-04	5.69980E 01	-1.17786E-04	1.65278E-02	-1.34883E-02
2.80	7.47845E-06	-1.24713E-02	-1.18372E-04	5.74534E 01	-1.28013E-04	1.76992E-02	-1.34941E-02
2.90	8.01987E-06	-1.34799E-02	-1.29382E-04	5.78774E 01	-1.38783E-04	1.89095E-02	-1.35014E-02
3.00	8.58027E-06	-1.45278E-02	-1.40994E-04	5.82731E 01	-1.50107E-04	2.01587E-02	-1.35100E-02
3.10	9.15967E-06	-1.56149E-02	-1.53220E-04	5.86430E 01	-1.62001E-04	2.14468E-02	-1.35194E-02
3.20	9.75804E-06	-1.67411E-02	-1.66074E-04	5.89895E 01	-1.74476E-04	2.27737E-02	-1.35297E-02
3.30	1.03754E-05	-1.79066E-02	-1.79568E-04	5.93145E 01	-1.87545E-04	2.41396E-02	-1.35405E-02
3.40	1.10118E-05	-1.91111E-02	-1.93716E-04	5.96199E 01	-2.01223E-04	2.55442E-02	-1.35517E-02
3.50	1.16671E-05	-2.03548E-02	-2.08531E-04	5.99074E 01	-2.15523E-04	2.69878E-02	-1.35632E-02
3.60	1.23414E-05	-2.16376E-02	-2.24026E-04	6.01783E 01	-2.30457E-04	2.84702E-02	-1.35750E-02
3.70	1.30347E-05	-2.29595E-02	-2.40213E-04	6.04342E 01	-2.46038E-04	2.99915E-02	-1.35868E-02
3.80	1.37470E-05	-2.43206E-02	-2.57107E-04	6.06760E 01	-2.62281E-04	3.15516E-02	-1.35988E-02
3.90	1.44783E-05	-2.57206E-02	-2.74720E-04	6.09049E 01	-2.79198E-04	3.31507E-02	-1.36107E-02
4.00	1.52286E-05	-2.71598E-02	-2.93066E-04	6.11218E 01	-2.96802E-04	3.47886E-02	-1.36226E-02
4.10	1.59978E-05	-2.86380E-02	-3.12157E-04	6.13277E 01	-3.15107E-04	3.64654E-02	-1.36345E-02
4.20	1.67861E-05	-3.01552E-02	-3.32007E-04	6.15233E 01	-3.34125E-04	3.81811E-02	-1.36462E-02
4.30	1.75933E-05	-3.17115E-02	-3.52629E-04	6.17094E 01	-3.53870E-04	3.99357E-02	-1.36578E-02
4.40	1.84195E-05	-3.33069E-02	-3.74035E-04	6.18865E 01	-3.74356E-04	4.17291E-02	-1.36693E-02
4.50	1.92647E-05	-3.49412E-02	-3.96240E-04	6.20554E 01	-3.95595E-04	4.35615E-02	-1.36807E-02
4.60	2.01289E-05	-3.66146E-02	-4.19256E-04	6.22165E 01	-4.17601E-04	4.54327E-02	-1.36918E-02
4.70	2.10121E-05	-3.83269E-02	-4.43096E-04	6.23704E 01	-4.40386E-04	4.73428E-02	-1.37028E-02
4.80	2.19143E-05	-4.00783E-02	-4.67774E-04	6.25174E 01	-4.63964E-04	4.92918E-02	-1.37136E-02
4.90	2.28354E-05	-4.18687E-02	-4.93303E-04	6.26582E 01	-4.88349E-04	5.12796E-02	-1.37243E-02
5.00	2.37756E-05	-4.36980E-02	-5.19695E-04	6.27930E 01	-5.13552E-04	5.33064E-02	-1.37347E-02
5.10	2.47347E-05	-4.55664E-02	-5.46965E-04	6.29222E 01	-5.39589E-04	5.53721E-02	-1.37449E-02
5.20	2.57128E-05	-4.74737E-02	-5.75125E-04	6.30461E 01	-5.66470E-04	5.74766E-02	-1.37550E-02
5.30	2.67099E-05	-4.94201E-02	-6.04188E-04	6.31650E 01	-5.94211E-04	5.96200E-02	-1.37648E-02
5.40	2.77260E-05	-5.14053E-02	-6.34167E-04	6.32793E 01	-6.22824E-04	6.18023E-02	-1.37745E-02
5.50	2.87611E-05	-5.34296E-02	-6.65077E-04	6.33892E 01	-6.52322E-04	6.40235E-02	-1.37840E-02
5.60	2.98152E-05	-5.54929E-02	-6.96929E-04	6.34948E 01	-6.82719E-04	6.62836E-02	-1.37933E-02
5.70	3.08882E-05	-5.75950E-02	-7.29737E-04	6.35966E 01	-7.14027E-04	6.85825E-02	-1.38024E-02
5.80	3.19803E-05	-5.97362E-02	-7.63514E-04	6.36946E 01	-7.46260E-04	7.09203E-02	-1.38113E-02
5.90	3.30913E-05	-6.19163E-02	-7.98274E-04	6.37891E 01	-7.79431E-04	7.32971E-02	-1.38201E-02
6.00	3.42213E-05	-6.41353E-02	-8.34029E-04	6.38802E 01	-8.13553E-04	7.57127E-02	-1.38286E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=3$		$A=6$		$\rho=1.2 A^{1/3} F$		
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
6.10	1.07393E 00	-5.78207E 00	-1.28824E-01	2.97170E-04	-1.26019E-01	6.80652E 00	-2.57371E 02
6.20	1.07389E 00	-5.88555E 00	-1.32223E-01	3.25311E-04	-1.29224E-01	6.91028E 00	-2.59357E 02
6.30	1.07385E 00	-5.98903E 00	-1.35562E-01	3.52566E-04	-1.32469E-01	7.01402E 00	-2.61310E 02
6.40	1.07382E 00	-6.09250E 00	-1.39140E-01	3.78973E-04	-1.35752E-01	7.11774E 00	-2.63229E 02
6.50	1.07378E 00	-6.19596E 00	-1.42656E-01	4.04578E-04	-1.39074E-01	7.22144E 00	-2.65116E 02
6.60	1.07375E 00	-6.29942E 00	-1.46211E-01	4.29410E-04	-1.42435E-01	7.32512E 00	-2.66971E 02
6.70	1.07372E 00	-6.40287E 00	-1.49805E-01	4.53502E-04	-1.45835E-01	7.42879E 00	-2.68796E 02
6.80	1.07369E 00	-6.50631E 00	-1.53438E-01	4.76889E-04	-1.49273E-01	7.53244E 00	-2.70591E 02
6.90	1.07366E 00	-6.60975E 00	-1.57110E-01	4.99607E-04	-1.52750E-01	7.63607E 00	-2.72356E 02
7.00	1.07363E 00	-6.71318E 00	-1.60820E-01	5.21673E-04	-1.56266E-01	7.73968E 00	-2.74094E 02
7.10	1.07360E 00	-6.81660E 00	-1.64569E-01	5.43121E-04	-1.59821E-01	7.84328E 00	-2.75803E 02
7.20	1.07358E 00	-6.92002E 00	-1.68357E-01	5.63978E-04	-1.63414E-01	7.94687E 00	-2.77486E 02
7.30	1.07355E 00	-7.02343E 00	-1.72184E-01	5.84266E-04	-1.67046E-01	8.05044E 00	-2.79142E 02
7.40	1.07352E 00	-7.12684E 00	-1.76049E-01	6.04002E-04	-1.70717E-01	8.15399E 00	-2.80772E 02
7.50	1.07350E 00	-7.23024E 00	-1.79954E-01	6.23217E-04	-1.74427E-01	8.25754E 00	-2.82377E 02
7.60	1.07348E 00	-7.33363E 00	-1.83897E-01	6.41926E-04	-1.78176E-01	8.36107E 00	-2.83958E 02
7.70	1.07345E 00	-7.43701E 00	-1.87879E-01	6.60150E-04	-1.81963E-01	8.46458E 00	-2.85515E 02
7.80	1.07343E 00	-7.54039E 00	-1.91900E-01	6.77908E-04	-1.85789E-01	8.56809E 00	-2.87048E 02
7.90	1.07341E 00	-7.64376E 00	-1.95959E-01	6.95214E-04	-1.89654E-01	8.67158E 00	-2.88559E 02
8.00	1.07339E 00	-7.74713E 00	-2.00057E-01	7.12093E-04	-1.93557E-01	8.77505E 00	-2.90046E 02
8.10	1.07337E 00	-7.85048E 00	-2.04194E-01	7.28552E-04	-1.97500E-01	8.87852E 00	-2.91512E 02
8.20	1.07335E 00	-7.95383E 00	-2.08370E-01	7.44607E-04	-2.01481E-01	8.98197E 00	-2.92957E 02
8.30	1.07333E 00	-8.05718E 00	-2.12585E-01	7.60275E-04	-2.05500E-01	9.08542E 00	-2.94382E 02
8.40	1.07331E 00	-8.16051E 00	-2.16838E-01	7.75570E-04	-2.09559E-01	9.18885E 00	-2.95785E 02
8.50	1.07329E 00	-8.26384E 00	-2.21131E-01	7.90503E-04	-2.13656E-01	9.29227E 00	-2.97169E 02
8.60	1.07328E 00	-8.36717E 00	-2.25462E-01	8.05088E-04	-2.17793E-01	9.39568E 00	-2.98533E 02
8.70	1.07326E 00	-8.47049E 00	-2.29831E-01	8.19338E-04	-2.21967E-01	9.49907E 00	-2.99878E 02
8.80	1.07324E 00	-8.57380E 00	-2.34240E-01	8.33261E-04	-2.26181E-01	9.60246E 00	-3.01205E 02
8.90	1.07323E 00	-8.67710E 00	-2.38687E-01	8.46874E-04	-2.30433E-01	9.70584E 00	-3.02513E 02
9.00	1.07321E 00	-8.78040E 00	-2.43173E-01	8.60176E-04	-2.34725E-01	9.80920E 00	-3.03804E 02
9.10	1.07320E 00	-8.88369E 00	-2.47698E-01	8.73184E-04	-2.39055E-01	9.91256E 00	-3.05077E 02
9.20	1.07318E 00	-8.98697E 00	-2.52261E-01	8.85913E-04	-2.43423E-01	1.00159E 01	-3.06332E 02
9.30	1.07317E 00	-9.09025E 00	-2.56864E-01	8.98364E-04	-2.47831E-01	1.01192E 01	-3.07571E 02
9.40	1.07315E 00	-9.19351E 00	-2.61505E-01	9.10549E-04	-2.52277E-01	1.02226E 01	-3.08794E 02
9.50	1.07314E 00	-9.29678E 00	-2.66185E-01	9.22473E-04	-2.56762E-01	1.03259E 01	-3.10001E 02
9.60	1.07313E 00	-9.40003E 00	-2.70903E-01	9.34146E-04	-2.61285E-01	1.04292E 01	-3.11192E 02
9.70	1.07311E 00	-9.50328E 00	-2.75660E-01	9.45578E-04	-2.65848E-01	1.05325E 01	-3.12367E 02
9.80	1.07310E 00	-9.60652E 00	-2.80456E-01	9.56770E-04	-2.70449E-01	1.06358E 01	-3.13528E 02
9.90	1.07309E 00	-9.70976E 00	-2.85291E-01	9.67739E-04	-2.75089E-01	1.07391E 01	-3.14674E 02
10.00	1.07307E 00	-9.81298E 00	-2.90165E-01	9.78485E-04	-2.79767E-01	1.08423E 01	-3.15805E 02
10.10	1.07306E 00	-9.91620E 00	-2.95077E-01	9.89014E-04	-2.84485E-01	1.09456E 01	-3.16922E 02
10.20	1.07305E 00	-1.00194E 01	-3.00028E-01	9.99337E-04	-2.89241E-01	1.10488E 01	-3.18025E 02
10.30	1.07304E 00	-1.01226E 01	-3.05018E-01	1.00945E-03	-2.94036E-01	1.11521E 01	-3.19114E 02
10.40	1.07303E 00	-1.02258E 01	-3.10046E-01	1.01937E-03	-2.98869E-01	1.12553E 01	-3.20191E 02
10.50	1.07302E 00	-1.03290E 01	-3.15113E-01	1.02910E-03	-3.03741E-01	1.13585E 01	-3.21254E 02
10.60	1.07300E 00	-1.04322E 01	-3.20219E-01	1.03864E-03	-3.08652E-01	1.14617E 01	-3.22304E 02
10.70	1.07299E 00	-1.05354E 01	-3.25364E-01	1.04800E-03	-3.13602E-01	1.15650E 01	-3.23342E 02
10.80	1.07298E 00	-1.06386E 01	-3.30547E-01	1.05719E-03	-3.18590E-01	1.16682E 01	-3.24367E 02
10.90	1.07297E 00	-1.07417E 01	-3.35769E-01	1.06620E-03	-3.23618E-01	1.17713E 01	-3.25380E 02
11.00	1.07296E 00	-1.08449E 01	-3.41030E-01	1.07504E-03	-3.28683E-01	1.18745E 01	-3.26381E 02
11.10	1.07295E 00	-1.09480E 01	-3.46329E-01	1.08372E-03	-3.33788E-01	1.19777E 01	-3.27371E 02
11.20	1.07294E 00	-1.10512E 01	-3.51667E-01	1.09225E-03	-3.38931E-01	1.20809E 01	-3.28349E 02
11.30	1.07293E 00	-1.11543E 01	-3.57044E-01	1.10062E-03	-3.44113E-01	1.21840E 01	-3.29316E 02
11.40	1.07292E 00	-1.12574E 01	-3.62460E-01	1.10884E-03	-3.49334E-01	1.22872E 01	-3.30272E 02
11.50	1.07291E 00	-1.13606E 01	-3.67914E-01	1.11692E-03	-3.54593E-01	1.23903E 01	-3.31217E 02
11.60	1.07291E 00	-1.14637E 01	-3.73407E-01	1.12485E-03	-3.59891E-01	1.24934E 01	-3.32152E 02
11.70	1.07290E 00	-1.15668E 01	-3.78939E-01	1.13264E-03	-3.65228E-01	1.25965E 01	-3.33076E 02
11.80	1.07289E 00	-1.16699E 01	-3.84509E-01	1.14029E-03	-3.70604E-01	1.26996E 01	-3.33990E 02
11.90	1.07288E 00	-1.17730E 01	-3.90118E-01	1.14782E-03	-3.76018E-01	1.28028E 01	-3.34894E 02
12.00	1.07287E 00	-1.18761E 01	-3.95766E-01	1.15521E-03	-3.81471E-01	1.29058E 01	-3.35788E 02



## ELECTRON RADIAL FUNCTIONS

	$Z=3$	$A=6$	$\rho=1.2A^{1/3}F$				Electron
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	3.53703E-05	-6.63933E-02	-8.70793E-04	6.39682E 01	-8.48640E-04	7.81672E-02	-1.38370E-02
6.20	3.65383E-05	-6.86903E-02	-9.08579E-04	6.40531E 01	-8.84703E-04	8.06606E-02	-1.38452E-02
6.30	3.77253E-05	-7.10262E-02	-9.47399E-04	6.41352E 01	-9.21758E-04	8.31928E-02	-1.38533E-02
6.40	3.89312E-05	-7.34010E-02	-9.87268E-04	6.42145E 01	-9.59816E-04	8.57639E-02	-1.38612E-02
6.50	4.01562E-05	-7.58147E-02	-1.02820E-03	6.42913E 01	-9.98892E-04	8.83739E-02	-1.38689E-02
6.60	4.14001E-05	-7.82674E-02	-1.07020E-03	6.43655E 01	-1.03900E-03	9.10228E-02	-1.38765E-02
6.70	4.26630E-05	-8.07590E-02	-1.11329E-03	6.44374E 01	-1.08015E-03	9.37106E-02	-1.38839E-02
6.80	4.39450E-05	-8.32896E-02	-1.15749E-03	6.45071E 01	-1.12235E-03	9.64372E-02	-1.38912E-02
6.90	4.52458E-05	-8.58590E-02	-1.20279E-03	6.45746E 01	-1.16563E-03	9.92027E-02	-1.38983E-02
7.00	4.65657E-05	-8.84674E-02	-1.24923E-03	6.46400E 01	-1.20999E-03	1.02007E-01	-1.39053E-02
7.10	4.79046E-05	-9.11147E-02	-1.29680E-03	6.47035E 01	-1.25544E-03	1.04850E-01	-1.39122E-02
7.20	4.92624E-05	-9.38009E-02	-1.34553E-03	6.47651E 01	-1.30200E-03	1.07732E-01	-1.39189E-02
7.30	5.06393E-05	-9.65260E-02	-1.39542E-03	6.48250E 01	-1.34969E-03	1.10653E-01	-1.39255E-02
7.40	5.20351E-05	-9.92901E-02	-1.44650E-03	6.48830E 01	-1.39851E-03	1.13613E-01	-1.39319E-02
7.50	5.34499E-05	-1.02093E-01	-1.49876E-03	6.49395E 01	-1.44848E-03	1.16612E-01	-1.39382E-02
7.60	5.48837E-05	-1.04935E-01	-1.55224E-03	6.49944E 01	-1.49961E-03	1.19650E-01	-1.39445E-02
7.70	5.63365E-05	-1.07816E-01	-1.60693E-03	6.50477E 01	-1.55192E-03	1.22726E-01	-1.39506E-02
7.80	5.78083E-05	-1.10735E-01	-1.66285E-03	6.50996E 01	-1.60541E-03	1.25841E-01	-1.39565E-02
7.90	5.92990E-05	-1.13694E-01	-1.72002E-03	6.51501E 01	-1.66011E-03	1.28996E-01	-1.39624E-02
8.00	6.08088E-05	-1.16691E-01	-1.77845E-03	6.51993E 01	-1.71602E-03	1.32189E-01	-1.39681E-02
8.10	6.23375E-05	-1.19728E-01	-1.83815E-03	6.52471E 01	-1.77316E-03	1.35421E-01	-1.39738E-02
8.20	6.38852E-05	-1.22803E-01	-1.89914E-03	6.52938E 01	-1.83154E-03	1.38691E-01	-1.39793E-02
8.30	6.54519E-05	-1.25917E-01	-1.96142E-03	6.53392E 01	-1.89117E-03	1.42001E-01	-1.39848E-02
8.40	6.70376E-05	-1.29070E-01	-2.02501E-03	6.53835E 01	-1.95207E-03	1.45349E-01	-1.39901E-02
8.50	6.86422E-05	-1.32262E-01	-2.08993E-03	6.54266E 01	-2.01426E-03	1.48737E-01	-1.39953E-02
8.60	7.02659E-05	-1.35492E-01	-2.15619E-03	6.54688E 01	-2.07773E-03	1.52163E-01	-1.40005E-02
8.70	7.19085E-05	-1.38762E-01	-2.22380E-03	6.55098E 01	-2.14251E-03	1.55628E-01	-1.40055E-02
8.80	7.35701E-05	-1.42071E-01	-2.29277E-03	6.55499E 01	-2.20861E-03	1.59132E-01	-1.40105E-02
8.90	7.52507E-05	-1.45418E-01	-2.36311E-03	6.55891E 01	-2.27605E-03	1.62674E-01	-1.40154E-02
9.00	7.69504E-05	-1.48804E-01	-2.43485E-03	6.56273E 01	-2.34483E-03	1.66256E-01	-1.40202E-02
9.10	7.86689E-05	-1.52229E-01	-2.50800E-03	6.56646E 01	-2.41497E-03	1.69876E-01	-1.40249E-02
9.20	8.04065E-05	-1.55693E-01	-2.58255E-03	6.57011E 01	-2.48648E-03	1.73536E-01	-1.40295E-02
9.30	8.21631E-05	-1.59196E-01	-2.65854E-03	6.57367E 01	-2.55937E-03	1.77234E-01	-1.40341E-02
9.40	8.39386E-05	-1.62738E-01	-2.73597E-03	6.57715E 01	-2.63367E-03	1.80970E-01	-1.40385E-02
9.50	8.57331E-05	-1.66318E-01	-2.81486E-03	6.58056E 01	-2.70938E-03	1.84746E-01	-1.40429E-02
9.60	8.75466E-05	-1.69938E-01	-2.89521E-03	6.58389E 01	-2.78651E-03	1.88561E-01	-1.40472E-02
9.70	8.93791E-05	-1.73596E-01	-2.97705E-03	6.58715E 01	-2.86508E-03	1.92414E-01	-1.40515E-02
9.80	9.12306E-05	-1.77293E-01	-3.06038E-03	6.59033E 01	-2.94510E-03	1.96306E-01	-1.40557E-02
9.90	9.31010E-05	-1.81029E-01	-3.14522E-03	6.59345E 01	-3.02659E-03	2.00237E-01	-1.40598E-02
10.00	9.49905E-05	-1.84804E-01	-3.23159E-03	6.59650E 01	-3.10955E-03	2.04207E-01	-1.40638E-02
10.10	9.68989E-05	-1.88618E-01	-3.31949E-03	6.59949E 01	-3.19401E-03	2.08216E-01	-1.40678E-02
10.20	9.88263E-05	-1.92470E-01	-3.40893E-03	6.60242E 01	-3.27997E-03	2.12263E-01	-1.40717E-02
10.30	1.00773E-04	-1.96361E-01	-3.49994E-03	6.60528E 01	-3.36744E-03	2.16350E-01	-1.40756E-02
10.40	1.02738E-04	-2.00292E-01	-3.59252E-03	6.60809E 01	-3.45645E-03	2.20475E-01	-1.40793E-02
10.50	1.04722E-04	-2.04261E-01	-3.68669E-03	6.61084E 01	-3.54700E-03	2.24639E-01	-1.40831E-02
10.60	1.06726E-04	-2.08268E-01	-3.78246E-03	6.61354E 01	-3.63910E-03	2.28842E-01	-1.40867E-02
10.70	1.08748E-04	-2.12315E-01	-3.87984E-03	6.61619E 01	-3.73278E-03	2.33083E-01	-1.40904E-02
10.80	1.10789E-04	-2.16401E-01	-3.97885E-03	6.61878E 01	-3.82803E-03	2.37364E-01	-1.40939E-02
10.90	1.12850E-04	-2.20525E-01	-4.07950E-03	6.62132E 01	-3.92489E-03	2.41683E-01	-1.40974E-02
11.00	1.14929E-04	-2.24688E-01	-4.18180E-03	6.62381E 01	-4.02335E-03	2.46041E-01	-1.41009E-02
11.10	1.17027E-04	-2.28890E-01	-4.28576E-03	6.62626E 01	-4.12343E-03	2.50437E-01	-1.41043E-02
11.20	1.19145E-04	-2.33131E-01	-4.39141E-03	6.62866E 01	-4.22515E-03	2.54873E-01	-1.41076E-02
11.30	1.21281E-04	-2.37410E-01	-4.49875E-03	6.63101E 01	-4.32852E-03	2.59347E-01	-1.41109E-02
11.40	1.23436E-04	-2.41729E-01	-4.60780E-03	6.63332E 01	-4.43355E-03	2.63861E-01	-1.41141E-02
11.50	1.25610E-04	-2.46086E-01	-4.71856E-03	6.63559E 01	-4.54025E-03	2.68412E-01	-1.41173E-02
11.60	1.27803E-04	-2.50482E-01	-4.83105E-03	6.63782E 01	-4.64864E-03	2.73003E-01	-1.41205E-02
11.70	1.30016E-04	-2.54917E-01	-4.94529E-03	6.64000E 01	-4.75874E-03	2.77633E-01	-1.41236E-02
11.80	1.32247E-04	-2.59390E-01	-5.06129E-03	6.64215E 01	-4.87054E-03	2.82301E-01	-1.41267E-02
11.90	1.34497E-04	-2.63903E-01	-5.17906E-03	6.64426E 01	-4.98407E-03	2.87008E-01	-1.41297E-02
12.00	1.36766E-04	-2.68454E-01	-5.29861E-03	6.64634E 01	-5.09935E-03	2.91754E-01	-1.41326E-02

## ELECTRON RADIAL FUNCTIONS

Electron	$Z=3$		$A=6$		$\rho = 1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	1.07286E 00	-1.19791E 01	-4.01452E-01	1.16248E-03	-3.86962E-01	1.30089E 01	-3.36672E 02	
12.20	1.07285E 00	-1.20822E 01	-4.07177E-01	1.16963E-03	-3.92493E-01	1.31120E 01	-3.37547E 02	
12.30	1.07285E 00	-1.21853E 01	-4.12941E-01	1.17666E-03	-3.98061E-01	1.32151E 01	-3.38413E 02	
12.40	1.07284E 00	-1.22883E 01	-4.18744E-01	1.18357E-03	-4.03669E-01	1.33181E 01	-3.39268E 02	
12.50	1.07283E 00	-1.23914E 01	-4.24585E-01	1.19037E-03	-4.09315E-01	1.34212E 01	-3.40116E 02	
12.60	1.07282E 00	-1.24944E 01	-4.30465E-01	1.19705E-03	-4.15000E-01	1.35242E 01	-3.40954E 02	
12.70	1.07281E 00	-1.25975E 01	-4.36383E-01	1.20363E-03	-4.20724E-01	1.36273E 01	-3.41784E 02	
12.80	1.07281E 00	-1.27005E 01	-4.42340E-01	1.21010E-03	-4.26486E-01	1.37303E 01	-3.42605E 02	
12.90	1.07280E 00	-1.28035E 01	-4.48336E-01	1.21646E-03	-4.32287E-01	1.38333E 01	-3.43418E 02	
13.00	1.07279E 00	-1.29065E 01	-4.54370E-01	1.22273E-03	-4.38126E-01	1.39363E 01	-3.44222E 02	
13.10	1.07278E 00	-1.30095E 01	-4.60443E-01	1.22889E-03	-4.44005E-01	1.40393E 01	-3.45019E 02	
13.20	1.07278E 00	-1.31125E 01	-4.66555E-01	1.23496E-03	-4.49922E-01	1.41423E 01	-3.45807E 02	
13.30	1.07277E 00	-1.32155E 01	-4.72705E-01	1.24093E-03	-4.55877E-01	1.42453E 01	-3.46588E 02	
13.40	1.07276E 00	-1.33185E 01	-4.78894E-01	1.24681E-03	-4.61871E-01	1.43483E 01	-3.47361E 02	
13.50	1.07276E 00	-1.34215E 01	-4.85122E-01	1.25260E-03	-4.67904E-01	1.44513E 01	-3.48126E 02	
13.60	1.07275E 00	-1.35245E 01	-4.91388E-01	1.25830E-03	-4.73975E-01	1.45542E 01	-3.48884E 02	
13.70	1.07274E 00	-1.36274E 01	-4.97693E-01	1.26391E-03	-4.80086E-01	1.46572E 01	-3.49634E 02	
13.80	1.07274E 00	-1.37304E 01	-5.04036E-01	1.26944E-03	-4.86234E-01	1.47601E 01	-3.50377E 02	
13.90	1.07273E 00	-1.38333E 01	-5.10418E-01	1.27488E-03	-4.92422E-01	1.48631E 01	-3.51114E 02	
14.00	1.07272E 00	-1.39362E 01	-5.16839E-01	1.28024E-03	-4.98648E-01	1.49660E 01	-3.51843E 02	
14.10	1.07272E 00	-1.40392E 01	-5.23299E-01	1.28552E-03	-5.04912E-01	1.50689E 01	-3.52565E 02	
14.20	1.07271E 00	-1.41421E 01	-5.29797E-01	1.29073E-03	-5.11215E-01	1.51718E 01	-3.53281E 02	
14.30	1.07271E 00	-1.42450E 01	-5.36333E-01	1.29586E-03	-5.17557E-01	1.52747E 01	-3.53990E 02	
14.40	1.07270E 00	-1.43479E 01	-5.42908E-01	1.30091E-03	-5.23938E-01	1.53776E 01	-3.54692E 02	
14.50	1.07269E 00	-1.44508E 01	-5.49522E-01	1.30588E-03	-5.30357E-01	1.54805E 01	-3.55388E 02	
14.60	1.07269E 00	-1.45537E 01	-5.56175E-01	1.31079E-03	-5.36815E-01	1.55834E 01	-3.56078E 02	
14.70	1.07268E 00	-1.46566E 01	-5.62866E-01	1.31563E-03	-5.43311E-01	1.56863E 01	-3.56761E 02	
14.80	1.07268E 00	-1.47595E 01	-5.69595E-01	1.32040E-03	-5.49846E-01	1.57891E 01	-3.57438E 02	
14.90	1.07267E 00	-1.48623E 01	-5.76363E-01	1.32509E-03	-5.56419E-01	1.58920E 01	-3.58110E 02	
15.00	1.07266E 00	-1.49652E 01	-5.83170E-01	1.32973E-03	-5.63031E-01	1.59948E 01	-3.58775E 02	
15.10	1.07266E 00	-1.50681E 01	-5.90016E-01	1.33429E-03	-5.69682E-01	1.60977E 01	-3.59435E 02	
15.20	1.07265E 00	-1.51709E 01	-5.96900E-01	1.33879E-03	-5.76371E-01	1.62005E 01	-3.60089E 02	
15.30	1.07265E 00	-1.52737E 01	-6.03822E-01	1.34323E-03	-5.83099E-01	1.63033E 01	-3.60736E 02	
15.40	1.07264E 00	-1.53766E 01	-6.10783E-01	1.34761E-03	-5.89865E-01	1.64061E 01	-3.61379E 02	
15.50	1.07264E 00	-1.54794E 01	-6.17783E-01	1.35193E-03	-5.96670E-01	1.65089E 01	-3.62016E 02	
15.60	1.07263E 00	-1.55822E 01	-6.24821E-01	1.35618E-03	-6.03514E-01	1.66117E 01	-3.62648E 02	
15.70	1.07263E 00	-1.56850E 01	-6.31898E-01	1.36038E-03	-6.10396E-01	1.67145E 01	-3.63274E 02	
15.80	1.07262E 00	-1.57878E 01	-6.39013E-01	1.36452E-03	-6.17317E-01	1.68173E 01	-3.63895E 02	
15.90	1.07262E 00	-1.58906E 01	-6.46167E-01	1.36861E-03	-6.24276E-01	1.69201E 01	-3.64511E 02	
16.00	1.07261E 00	-1.59934E 01	-6.53360E-01	1.37264E-03	-6.31274E-01	1.70228E 01	-3.65122E 02	
16.10	1.07261E 00	-1.60962E 01	-6.60591E-01	1.37662E-03	-6.38310E-01	1.71256E 01	-3.65728E 02	
16.20	1.07260E 00	-1.61989E 01	-6.67860E-01	1.38054E-03	-6.45385E-01	1.72283E 01	-3.66329E 02	
16.30	1.07260E 00	-1.63017E 01	-6.75168E-01	1.38441E-03	-6.52499E-01	1.73310E 01	-3.66925E 02	
16.40	1.07259E 00	-1.64044E 01	-6.82515E-01	1.38823E-03	-6.59651E-01	1.74338E 01	-3.67516E 02	
16.50	1.07259E 00	-1.65072E 01	-6.89900E-01	1.39200E-03	-6.66841E-01	1.75365E 01	-3.68103E 02	
16.60	1.07258E 00	-1.66099E 01	-6.97324E-01	1.39572E-03	-6.74070E-01	1.76392E 01	-3.68685E 02	
16.70	1.07258E 00	-1.67126E 01	-7.04786E-01	1.39939E-03	-6.81338E-01	1.77419E 01	-3.69262E 02	
16.80	1.07257E 00	-1.68153E 01	-7.12287E-01	1.40301E-03	-6.88644E-01	1.78446E 01	-3.69835E 02	
16.90	1.07257E 00	-1.69180E 01	-7.19826E-01	1.40659E-03	-6.95989E-01	1.79473E 01	-3.70403E 02	
17.00	1.07256E 00	-1.70207E 01	-7.27404E-01	1.41012E-03	-7.03372E-01	1.80499E 01	-3.70968E 02	
17.10	1.07256E 00	-1.71234E 01	-7.35020E-01	1.41361E-03	-7.10794E-01	1.81526E 01	-3.71527E 02	
17.20	1.07256E 00	-1.72261E 01	-7.42675E-01	1.41705E-03	-7.18254E-01	1.82553E 01	-3.72083E 02	
17.30	1.07255E 00	-1.73288E 01	-7.50368E-01	1.42044E-03	-7.25753E-01	1.83579E 01	-3.72634E 02	
17.40	1.07255E 00	-1.74315E 01	-7.58100E-01	1.42380E-03	-7.33290E-01	1.84606E 01	-3.73181E 02	
17.50	1.07254E 00	-1.75341E 01	-7.65870E-01	1.42711E-03	-7.40866E-01	1.85632E 01	-3.73724E 02	
17.60	1.07254E 00	-1.76368E 01	-7.73679E-01	1.43038E-03	-7.48480E-01	1.86658E 01	-3.74263E 02	
17.70	1.07253E 00	-1.77394E 01	-7.81526E-01	1.43360E-03	-7.56133E-01	1.87684E 01	-3.74799E 02	
17.80	1.07253E 00	-1.78420E 01	-7.89412E-01	1.43679E-03	-7.63824E-01	1.88710E 01	-3.75330E 02	
17.90	1.07253E 00	-1.79447E 01	-7.97337E-01	1.43994E-03	-7.71554E-01	1.89736E 01	-3.75857E 02	
18.00	1.07252E 00	-1.80473E 01	-8.05299E-01	1.44305E-03	-7.79322E-01	1.90762E 01	-3.76381E 02	



## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
$Z=3 \quad A=6 \quad \rho=1.2 A^{1/3} F$ Electron							
12.10	1.39054E-04	-2.73044E-01	-5.41997E-03	6.64837E 01	-5.21638E-03	2.96539E-01	-1.41356E-02
12.20	1.41361E-04	-2.77673E-01	-5.54313E-03	6.65037E 01	-5.33517E-03	3.01362E-01	-1.41385E-02
12.30	1.43688E-04	-2.82341E-01	-5.66812E-03	6.65234E 01	-5.45575E-03	3.06225E-01	-1.41413E-02
12.40	1.46033E-04	-2.87047E-01	-5.79494E-03	6.65428E 01	-5.57811E-03	3.11126E-01	-1.41441E-02
12.50	1.48397E-04	-2.91792E-01	-5.92361E-03	6.65618E 01	-5.70228E-03	3.16065E-01	-1.41469E-02
12.60	1.50780E-04	-2.96576E-01	-6.05414E-03	6.65805E 01	-5.82828E-03	3.21044E-01	-1.41496E-02
12.70	1.53182E-04	-3.01399E-01	-6.18655E-03	6.65989E 01	-5.95610E-03	3.26061E-01	-1.41523E-02
12.80	1.55603E-04	-3.06260E-01	-6.32085E-03	6.66170E 01	-6.08576E-03	3.31117E-01	-1.41550E-02
12.90	1.58043E-04	-3.11161E-01	-6.45706E-03	6.66347E 01	-6.21729E-03	3.36212E-01	-1.41576E-02
13.00	1.60502E-04	-3.16100E-01	-6.59517E-03	6.66522E 01	-6.35069E-03	3.41345E-01	-1.41602E-02
13.10	1.62980E-04	-3.21078E-01	-6.73522E-03	6.66695E 01	-6.48597E-03	3.46518E-01	-1.41627E-02
13.20	1.65477E-04	-3.26094E-01	-6.87720E-03	6.66864E 01	-6.62315E-03	3.51729E-01	-1.41653E-02
13.30	1.67992E-04	-3.31149E-01	-7.02115E-03	6.67031E 01	-6.76224E-03	3.56978E-01	-1.41678E-02
13.40	1.70527E-04	-3.36244E-01	-7.17606E-03	6.67195E 01	-6.90325E-03	3.62267E-01	-1.41702E-02
13.50	1.73081E-04	-3.41376E-01	-7.31495E-03	6.67357E 01	-7.04620E-03	3.67594E-01	-1.41726E-02
13.60	1.75654E-04	-3.46548E-01	-7.46483E-03	6.67516E 01	-7.19110E-03	3.72960E-01	-1.41750E-02
13.70	1.78246E-04	-3.51758E-01	-7.61672E-03	6.67673E 01	-7.33797E-03	3.78365E-01	-1.41774E-02
13.80	1.80857E-04	-3.57007E-01	-7.77063E-03	6.67827E 01	-7.48681E-03	3.83808E-01	-1.41797E-02
13.90	1.83487E-04	-3.62295E-01	-7.92658E-03	6.67979E 01	-7.63763E-03	3.89290E-01	-1.41820E-02
14.00	1.86135E-04	-3.67622E-01	-8.08457E-03	6.68129E 01	-7.79047E-03	3.94811E-01	-1.41843E-02
14.10	1.88803E-04	-3.72987E-01	-8.24462E-03	6.68276E 01	-7.94531E-03	4.00371E-01	-1.41865E-02
14.20	1.91490E-04	-3.78391E-01	-8.40674E-03	6.68422E 01	-8.10219E-03	4.05969E-01	-1.41887E-02
14.30	1.94196E-04	-3.83834E-01	-8.57095E-03	6.68565E 01	-8.26111E-03	4.11607E-01	-1.41909E-02
14.40	1.96921E-04	-3.89316E-01	-8.73726E-03	6.68706E 01	-8.42208E-03	4.17282E-01	-1.41931E-02
14.50	1.99664E-04	-3.94836E-01	-8.90568E-03	6.68845E 01	-8.58512E-03	4.22997E-01	-1.41952E-02
14.60	2.02427E-04	-4.00395E-01	-9.07623E-03	6.68982E 01	-8.75024E-03	4.28750E-01	-1.41973E-02
14.70	2.05209E-04	-4.05993E-01	-9.24891E-03	6.69117E 01	-8.91746E-03	4.34542E-01	-1.41994E-02
14.80	2.08009E-04	-4.11629E-01	-9.42374E-03	6.69250E 01	-9.08678E-03	4.40373E-01	-1.42015E-02
14.90	2.10829E-04	-4.17304E-01	-9.60074E-03	6.69382E 01	-9.25822E-03	4.46242E-01	-1.42035E-02
15.00	2.13668E-04	-4.23018E-01	-9.77992E-03	6.69511E 01	-9.43180E-03	4.52150E-01	-1.42055E-02
15.10	2.16525E-04	-4.28771E-01	-9.96128E-03	6.69639E 01	-9.60752E-03	4.58097E-01	-1.42075E-02
15.20	2.19402E-04	-4.34562E-01	-1.01449E-02	6.69765E 01	-9.78540E-03	4.64082E-01	-1.42095E-02
15.30	2.22297E-04	-4.40392E-01	-1.03306E-02	6.69889E 01	-9.96546E-03	4.70106E-01	-1.42114E-02
15.40	2.25212E-04	-4.46261E-01	-1.05187E-02	6.70011E 01	-1.01477E-02	4.76169E-01	-1.42133E-02
15.50	2.28145E-04	-4.52168E-01	-1.07089E-02	6.70132E 01	-1.03321E-02	4.82271E-01	-1.42152E-02
15.60	2.31098E-04	-4.58114E-01	-1.09014E-02	6.70252E 01	-1.05188E-02	4.88411E-01	-1.42171E-02
15.70	2.34070E-04	-4.64099E-01	-1.10962E-02	6.70369E 01	-1.07077E-02	4.94590E-01	-1.42189E-02
15.80	2.37060E-04	-4.70123E-01	-1.12933E-02	6.70485E 01	-1.08988E-02	5.00807E-01	-1.42208E-02
15.90	2.40070E-04	-4.76185E-01	-1.14926E-02	6.70600E 01	-1.10921E-02	5.07063E-01	-1.42226E-02
16.00	2.43098E-04	-4.82286E-01	-1.16943E-02	6.70713E 01	-1.12878E-02	5.13358E-01	-1.42244E-02
16.10	2.46145E-04	-4.88425E-01	-1.18983E-02	6.70825E 01	-1.14857E-02	5.19692E-01	-1.42261E-02
16.20	2.49212E-04	-4.94603E-01	-1.21046E-02	6.70935E 01	-1.16859E-02	5.26064E-01	-1.42279E-02
16.30	2.52297E-04	-5.00820E-01	-1.23133E-02	6.71044E 01	-1.18884E-02	5.32475E-01	-1.42296E-02
16.40	2.55402E-04	-5.07076E-01	-1.25243E-02	6.71151E 01	-1.20932E-02	5.38924E-01	-1.42313E-02
16.50	2.58525E-04	-5.13370E-01	-1.27377E-02	6.71257E 01	-1.23003E-02	5.45412E-01	-1.42330E-02
16.60	2.61667E-04	-5.19703E-01	-1.29535E-02	6.71362E 01	-1.25098E-02	5.51939E-01	-1.42347E-02
16.70	2.64829E-04	-5.26074E-01	-1.31717E-02	6.71465E 01	-1.27217E-02	5.58505E-01	-1.42364E-02
16.80	2.68009E-04	-5.32485E-01	-1.33923E-02	6.71567E 01	-1.29359E-02	5.65109E-01	-1.42380E-02
16.90	2.71208E-04	-5.38934E-01	-1.36154E-02	6.71668E 01	-1.31525E-02	5.71752E-01	-1.42396E-02
17.00	2.74427E-04	-5.45421E-01	-1.38408E-02	6.71768E 01	-1.33715E-02	5.78433E-01	-1.42412E-02
17.10	2.77664E-04	-5.51947E-01	-1.40687E-02	6.71866E 01	-1.35929E-02	5.85153E-01	-1.42428E-02
17.20	2.80920E-04	-5.58512E-01	-1.42991E-02	6.71963E 01	-1.38167E-02	5.91912E-01	-1.42444E-02
17.30	2.84195E-04	-5.65116E-01	-1.45320E-02	6.72059E 01	-1.40430E-02	5.98709E-01	-1.42459E-02
17.40	2.87490E-04	-5.71758E-01	-1.47673E-02	6.72154E 01	-1.42717E-02	6.05545E-01	-1.42475E-02
17.50	2.90803E-04	-5.78438E-01	-1.50052E-02	6.72248E 01	-1.45028E-02	6.12419E-01	-1.42490E-02
17.60	2.94135E-04	-5.85158E-01	-1.52456E-02	6.72341E 01	-1.47364E-02	6.19333E-01	-1.42505E-02
17.70	2.97486E-04	-5.91916E-01	-1.54885E-02	6.72432E 01	-1.49726E-02	6.26284E-01	-1.42520E-02
17.80	3.00856E-04	-5.98713E-01	-1.57339E-02	6.72523E 01	-1.52112E-02	6.33275E-01	-1.42535E-02
17.90	3.04245E-04	-6.05548E-01	-1.59819E-02	6.72612E 01	-1.54523E-02	6.40304E-01	-1.42549E-02
18.00	3.07654E-04	-6.12422E-01	-1.62325E-02	6.72700E 01	-1.56960E-02	6.47371E-01	-1.42564E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=3$	$A=6$	$\rho=1.2 A^{1/3} F$						
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$		
18.10	1.07252E 00	-1.81499E 01	-8.13301E-01	1.44612E-03	-7.87129E-01	1.91788E 01	-3.76901E 02		
18.20	1.07251E 00	-1.82525E 01	-8.21341E-01	1.44914E-03	-7.94975E-01	1.92814E 01	-3.77417E 02		
18.30	1.07251E 00	-1.83551E 01	-8.29419E-01	1.45214E-03	-8.02858E-01	1.93839E 01	-3.77930E 02		
18.40	1.07251E 00	-1.84576E 01	-8.37535E-01	1.45510E-03	-8.10780E-01	1.94865E 01	-3.78438E 02		
18.50	1.07250E 00	-1.85602E 01	-8.45690E-01	1.45802E-03	-8.18741E-01	1.95890E 01	-3.78944E 02		
18.60	1.07250E 00	-1.86628E 01	-8.53884E-01	1.46090E-03	-8.26740E-01	1.96915E 01	-3.79446E 02		
18.70	1.07249E 00	-1.87653E 01	-8.62116E-01	1.46376E-03	-8.34777E-01	1.97941E 01	-3.79945E 02		
18.80	1.07249E 00	-1.88679E 01	-8.70386E-01	1.46657E-03	-8.42853E-01	1.98966E 01	-3.80440E 02		
18.90	1.07249E 00	-1.89704E 01	-8.78695E-01	1.46935E-03	-8.50968E-01	1.99991E 01	-3.80932E 02		
19.00	1.07248E 00	-1.90729E 01	-8.87042E-01	1.47210E-03	-8.59121E-01	2.01016E 01	-3.81421E 02		
19.10	1.07248E 00	-1.91754E 01	-8.95428E-01	1.47482E-03	-8.67312E-01	2.02041E 01	-3.81906E 02		
19.20	1.07248E 00	-1.92780E 01	-9.03852E-01	1.47750E-03	-8.75542E-01	2.03065E 01	-3.82389E 02		
19.30	1.07247E 00	-1.93804E 01	-9.12315E-01	1.48015E-03	-8.83810E-01	2.04090E 01	-3.82867E 02		
19.40	1.07247E 00	-1.94829E 01	-9.20816E-01	1.48277E-03	-8.92117E-01	2.05115E 01	-3.83343E 02		
19.50	1.07246E 00	-1.95854E 01	-9.29355E-01	1.48536E-03	-9.00462E-01	2.06139E 01	-3.83816E 02		
19.60	1.07246E 00	-1.96879E 01	-9.37933E-01	1.48791E-03	-9.08845E-01	2.07163E 01	-3.84286E 02		
19.70	1.07246E 00	-1.97904E 01	-9.46549E-01	1.49044E-03	-9.17267E-01	2.08188E 01	-3.84753E 02		
19.80	1.07245E 00	-1.98928E 01	-9.55204E-01	1.49294E-03	-9.25727E-01	2.09212E 01	-3.85217E 02		
19.90	1.07245E 00	-1.99953E 01	-9.63897E-01	1.49541E-03	-9.34226E-01	2.10236E 01	-3.85677E 02		
20.00	1.07245E 00	-2.00977E 01	-9.72628E-01	1.49785E-03	-9.42763E-01	2.11260E 01	-3.86136E 02		
20.10	1.07244E 00	-2.02001E 01	-9.81398E-01	1.50026E-03	-9.51338E-01	2.12284E 01	-3.86591E 02		
20.20	1.07244E 00	-2.03025E 01	-9.90206E-01	1.50264E-03	-9.59952E-01	2.13308E 01	-3.87044E 02		
20.30	1.07244E 00	-2.04049E 01	-9.99053E-01	1.50500E-03	-9.68605E-01	2.14332E 01	-3.87494E 02		
20.40	1.07243E 00	-2.05073E 01	-1.00794E 00	1.50733E-03	-9.77295E-01	2.15355E 01	-3.87940E 02		
20.50	1.07243E 00	-2.06097E 01	-1.01686E 00	1.50962E-03	-9.86024E-01	2.16379E 01	-3.88385E 02		
20.60	1.07243E 00	-2.07121E 01	-1.02582E 00	1.51190E-03	-9.94792E-01	2.17402E 01	-3.88827E 02		
20.70	1.07242E 00	-2.08145E 01	-1.03482E 00	1.51414E-03	-1.00360E 00	2.18426E 01	-3.89267E 02		
20.80	1.07242E 00	-2.09168E 01	-1.04386E 00	1.51636E-03	-1.01244E 00	2.19449E 01	-3.89703E 02		
20.90	1.07242E 00	-2.10192E 01	-1.05294E 00	1.51856E-03	-1.02132E 00	2.20472E 01	-3.90137E 02		
21.00	1.07241E 00	-2.11215E 01	-1.06205E 00	1.52073E-03	-1.03025E 00	2.21495E 01	-3.90568E 02		
21.10	1.07241E 00	-2.12239E 01	-1.07121E 00	1.52288E-03	-1.03920E 00	2.22518E 01	-3.90998E 02		
21.20	1.07241E 00	-2.13262E 01	-1.08040E 00	1.52500E-03	-1.04820E 00	2.23541E 01	-3.91424E 02		
21.30	1.07240E 00	-2.14285E 01	-1.08963E 00	1.52710E-03	-1.05724E 00	2.24564E 01	-3.91848E 02		
21.40	1.07240E 00	-2.15308E 01	-1.09890E 00	1.52917E-03	-1.06631E 00	2.25586E 01	-3.92270E 02		
21.50	1.07240E 00	-2.16331E 01	-1.10820E 00	1.53122E-03	-1.07542E 00	2.26609E 01	-3.92689E 02		
21.60	1.07239E 00	-2.17354E 01	-1.11755E 00	1.53325E-03	-1.08458E 00	2.27631E 01	-3.93106E 02		
21.70	1.07239E 00	-2.18377E 01	-1.12693E 00	1.53525E-03	-1.09376E 00	2.28654E 01	-3.93522E 02		
21.80	1.07239E 00	-2.19399E 01	-1.13635E 00	1.53723E-03	-1.10299E 00	2.29676E 01	-3.93934E 02		
21.90	1.07239E 00	-2.20422E 01	-1.14581E 00	1.53919E-03	-1.11226E 00	2.30698E 01	-3.94344E 02		
22.00	1.07238E 00	-2.21444E 01	-1.15531E 00	1.54113E-03	-1.12156E 00	2.31720E 01	-3.94753E 02		
22.10	1.07238E 00	-2.22467E 01	-1.16485E 00	1.54304E-03	-1.13091E 00	2.32742E 01	-3.95159E 02		
22.20	1.07238E 00	-2.23489E 01	-1.17442E 00	1.54494E-03	-1.14029E 00	2.33764E 01	-3.95563E 02		
22.30	1.07237E 00	-2.24511E 01	-1.18404E 00	1.54681E-03	-1.14971E 00	2.34786E 01	-3.95964E 02		
22.40	1.07237E 00	-2.25533E 01	-1.19369E 00	1.54866E-03	-1.15916E 00	2.35807E 01	-3.96364E 02		
22.50	1.07237E 00	-2.26555E 01	-1.20338E 00	1.55049E-03	-1.16866E 00	2.36829E 01	-3.96762E 02		
22.60	1.07236E 00	-2.27577E 01	-1.21311E 00	1.55230E-03	-1.17819E 00	2.37850E 01	-3.97158E 02		
22.70	1.07236E 00	-2.28599E 01	-1.22287E 00	1.55409E-03	-1.18776E 00	2.38872E 01	-3.97551E 02		
22.80	1.07236E 00	-2.29620E 01	-1.23268E 00	1.55586E-03	-1.19738E 00	2.39893E 01	-3.97943E 02		
22.90	1.07236E 00	-2.30642E 01	-1.24252E 00	1.55761E-03	-1.20702E 00	2.40914E 01	-3.98333E 02		
23.00	1.07235E 00	-2.31663E 01	-1.25240E 00	1.55934E-03	-1.21671E 00	2.41935E 01	-3.98720E 02		
23.10	1.07235E 00	-2.32685E 01	-1.26232E 00	1.56105E-03	-1.22644E 00	2.42956E 01	-3.99106E 02		
23.20	1.07235E 00	-2.33706E 01	-1.27228E 00	1.56274E-03	-1.23620E 00	2.43977E 01	-3.99490E 02		
23.30	1.07234E 00	-2.34727E 01	-1.28228E 00	1.56441E-03	-1.24600E 00	2.44998E 01	-3.99872E 02		
23.40	1.07234E 00	-2.35748E 01	-1.29231E 00	1.56607E-03	-1.25584E 00	2.46018E 01	-4.00252E 02		
23.50	1.07234E 00	-2.36769E 01	-1.30238E 00	1.56770E-03	-1.26572E 00	2.47039E 01	-4.00631E 02		
23.60	1.07234E 00	-2.37790E 01	-1.31249E 00	1.56932E-03	-1.27564E 00	2.48059E 01	-4.01007E 02		
23.70	1.07233E 00	-2.38811E 01	-1.32264E 00	1.57092E-03	-1.28559E 00	2.49080E 01	-4.01383E 02		
23.80	1.07233E 00	-2.39831E 01	-1.33283E 00	1.57250E-03	-1.29559E 00	2.50100E 01	-4.01756E 02		
23.90	1.07233E 00	-2.40852E 01	-1.34306E 00	1.57407E-03	-1.30562E 00	2.51120E 01	-4.02127E 02		
24.00	1.07233E 00	-2.41872E 01	-1.35332E 00	1.57562E-03	-1.31569E 00	2.52140E 01	-4.02497E 02		

## ELECTRON RADIAL FUNCTIONS

$\rho$	$\bar{F}$	$Z=3$			$A=6$			$\rho=1.2 A^{1/3} F$			Electron
		$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$	
18.10	3.11081E-04	-6.19334E-01	-1.64857E-02	6.72788E 01	-1.59422E-02	6.54478E-01	-1.12578E-02				
18.20	3.14527E-04	-6.26286E-01	-1.67414E-02	6.72874E 01	-1.61909E-02	6.61623E-01	-1.12592E-02				
18.30	3.17992E-04	-6.33275E-01	-1.69998E-02	6.72960E 01	-1.64423E-02	6.68806E-01	-1.12606E-02				
18.40	3.21476E-04	-6.40304E-01	-1.72608E-02	6.73044E 01	-1.66961E-02	6.76028E-01	-1.12620E-02				
18.50	3.24979E-04	-6.47371E-01	-1.75244E-02	6.73127E 01	-1.69526E-02	6.83289E-01	-1.12634E-02				
18.60	3.28501E-04	-6.54476E-01	-1.77907E-02	6.73210E 01	-1.72117E-02	6.90588E-01	-1.12647E-02				
18.70	3.32042E-04	-6.61620E-01	-1.80596E-02	6.73292E 01	-1.74734E-02	6.97926E-01	-1.12661E-02				
18.80	3.35602E-04	-6.68803E-01	-1.83312E-02	6.73372E 01	-1.77377E-02	7.05302E-01	-1.12674E-02				
18.90	3.39181E-04	-6.76024E-01	-1.86055E-02	6.73452E 01	-1.80047E-02	7.12717E-01	-1.12687E-02				
19.00	3.42779E-04	-6.83284E-01	-1.88825E-02	6.73531E 01	-1.82743E-02	7.20170E-01	-1.12700E-02				
19.10	3.46396E-04	-6.90583E-01	-1.91622E-02	6.73609E 01	-1.85466E-02	7.27662E-01	-1.12713E-02				
19.20	3.50032E-04	-6.97920E-01	-1.94446E-02	6.73686E 01	-1.88216E-02	7.35193E-01	-1.12726E-02				
19.30	3.53687E-04	-7.05295E-01	-1.97298E-02	6.73763E 01	-1.90993E-02	7.42762E-01	-1.12739E-02				
19.40	3.57360E-04	-7.12710E-01	-2.00177E-02	6.73839E 01	-1.93797E-02	7.50370E-01	-1.12752E-02				
19.50	3.61053E-04	-7.20162E-01	-2.03084E-02	6.73913E 01	-1.96628E-02	7.58016E-01	-1.12764E-02				
19.60	3.64765E-04	-7.27654E-01	-2.06018E-02	6.73987E 01	-1.99486E-02	7.65701E-01	-1.12776E-02				
19.70	3.68496E-04	-7.35183E-01	-2.08981E-02	6.74061E 01	-2.02372E-02	7.73424E-01	-1.12789E-02				
19.80	3.72246E-04	-7.42752E-01	-2.11971E-02	6.74133E 01	-2.05286E-02	7.81186E-01	-1.12801E-02				
19.90	3.76014E-04	-7.50359E-01	-2.14990E-02	6.74205E 01	-2.08227E-02	7.88987E-01	-1.12813E-02				
20.00	3.79802E-04	-7.58005E-01	-2.18037E-02	6.74276E 01	-2.11196E-02	7.96826E-01	-1.12825E-02				
20.10	3.83609E-04	-7.65689E-01	-2.21112E-02	6.74346E 01	-2.14193E-02	8.04703E-01	-1.12836E-02				
20.20	3.87435E-04	-7.73411E-01	-2.24216E-02	6.74415E 01	-2.17218E-02	8.12619E-01	-1.12848E-02				
20.30	3.91279E-04	-7.81172E-01	-2.27349E-02	6.74484E 01	-2.20272E-02	8.20574E-01	-1.12860E-02				
20.40	3.95143E-04	-7.88972E-01	-2.30511E-02	6.74552E 01	-2.23353E-02	8.28567E-01	-1.12871E-02				
20.50	3.99026E-04	-7.96810E-01	-2.33701E-02	6.74620E 01	-2.26464E-02	8.36598E-01	-1.12883E-02				
20.60	4.02927E-04	-8.04687E-01	-2.36921E-02	6.74686E 01	-2.29603E-02	8.44669E-01	-1.12894E-02				
20.70	4.06848E-04	-8.12603E-01	-2.40169E-02	6.74752E 01	-2.32770E-02	8.52777E-01	-1.12905E-02				
20.80	4.10788E-04	-8.20556E-01	-2.43448E-02	6.74818E 01	-2.35967E-02	8.60924E-01	-1.12916E-02				
20.90	4.14746E-04	-8.28549E-01	-2.46755E-02	6.74882E 01	-2.39193E-02	8.69110E-01	-1.12927E-02				
21.00	4.18724E-04	-8.36580E-01	-2.50092E-02	6.74947E 01	-2.42448E-02	8.77334E-01	-1.12938E-02				
21.10	4.22720E-04	-8.44649E-01	-2.53459E-02	6.75010E 01	-2.45732E-02	8.85597E-01	-1.12949E-02				
21.20	4.26736E-04	-8.52757E-01	-2.56856E-02	6.75073E 01	-2.49045E-02	8.93898E-01	-1.12959E-02				
21.30	4.30770E-04	-8.60904E-01	-2.60283E-02	6.75135E 01	-2.52388E-02	9.02238E-01	-1.12970E-02				
21.40	4.34824E-04	-8.69088E-01	-2.63740E-02	6.75197E 01	-2.55761E-02	9.10616E-01	-1.12980E-02				
21.50	4.38896E-04	-8.77312E-01	-2.67227E-02	6.75258E 01	-2.59164E-02	9.19032E-01	-1.12991E-02				
21.60	4.42988E-04	-8.85574E-01	-2.70744E-02	6.75318E 01	-2.62596E-02	9.27487E-01	-1.13001E-02				
21.70	4.47098E-04	-8.93874E-01	-2.74292E-02	6.75378E 01	-2.66059E-02	9.35981E-01	-1.13011E-02				
21.80	4.51228E-04	-9.02213E-01	-2.77871E-02	6.75438E 01	-2.69552E-02	9.44513E-01	-1.13022E-02				
21.90	4.55376E-04	-9.10590E-01	-2.81480E-02	6.75496E 01	-2.73075E-02	9.53083E-01	-1.13032E-02				
22.00	4.59543E-04	-9.19006E-01	-2.85121E-02	6.75554E 01	-2.76628E-02	9.61692E-01	-1.13042E-02				
22.10	4.63730E-04	-9.27460E-01	-2.88792E-02	6.75612E 01	-2.80213E-02	9.70339E-01	-1.13051E-02				
22.20	4.67935E-04	-9.35953E-01	-2.92495E-02	6.75669E 01	-2.83828E-02	9.79025E-01	-1.13061E-02				
22.30	4.72159E-04	-9.44484E-01	-2.96228E-02	6.75726E 01	-2.87473E-02	9.87750E-01	-1.13071E-02				
22.40	4.76403E-04	-9.53054E-01	-2.99994E-02	6.75782E 01	-2.91150E-02	9.96512E-01	-1.13081E-02				
22.50	4.80665E-04	-9.61662E-01	-3.03791E-02	6.75837E 01	-2.94858E-02	1.00531E 00	-1.13090E-02				
22.60	4.84946E-04	-9.70308E-01	-3.07619E-02	6.75892E 01	-2.98597E-02	1.01415E 00	-1.13100E-02				
22.70	4.89246E-04	-9.78994E-01	-3.11479E-02	6.75947E 01	-3.02368E-02	1.02303E 00	-1.13109E-02				
22.80	4.93566E-04	-9.87717E-01	-3.15371E-02	6.76001E 01	-3.06170E-02	1.03195E 00	-1.13118E-02				
22.90	4.97904E-04	-9.96479E-01	-3.19296E-02	6.76055E 01	-3.10003E-02	1.04090E 00	-1.13128E-02				
23.00	5.02261E-04	-1.00528E 00	-3.23252E-02	6.76108E 01	-3.13869E-02	1.04990E 00	-1.13137E-02				
23.10	5.06637E-04	-1.01412E 00	-3.27241E-02	6.76160E 01	-3.17766E-02	1.05893E 00	-1.13146E-02				
23.20	5.11032E-04	-1.02300E 00	-3.31262E-02	6.76212E 01	-3.21695E-02	1.06800E 00	-1.13155E-02				
23.30	5.15446E-04	-1.03191E 00	-3.35316E-02	6.76264E 01	-3.25657E-02	1.07711E 00	-1.13164E-02				
23.40	5.19880E-04	-1.04086E 00	-3.39403E-02	6.76315E 01	-3.29650E-02	1.08625E 00	-1.13173E-02				
23.50	5.24332E-04	-1.04986E 00	-3.43522E-02	6.76366E 01	-3.33677E-02	1.09544E 00	-1.13182E-02				
23.60	5.28803E-04	-1.05889E 00	-3.47675E-02	6.76416E 01	-3.37735E-02	1.10466E 00	-1.13190E-02				
23.70	5.33293E-04	-1.06796E 00	-3.51860E-02	6.76466E 01	-3.41827E-02	1.11392E 00	-1.13199E-02				
23.80	5.37802E-04	-1.07706E 00	-3.56079E-02	6.76516E 01	-3.45951E-02	1.12322E 00	-1.13208E-02				
23.90	5.42330E-04	-1.08621E 00	-3.60331E-02	6.76565E 01	-3.50108E-02	1.13256E 00	-1.13216E-02				
24.00	5.46877E-04	-1.09540E 00	-3.64617E-02	6.76613E 01	-3.54298E-02	1.14194E 00	-1.13225E-02				



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=3$		$A=6$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
30.10	1.07219E 00	-3.03910E 01	-2.05146E 00	1.64344E-03	-2.00201E 00	3.14150E 01	-4.22559E 02	
30.20	1.07218E 00	-3.04923E 01	-2.06408E 00	1.64420E-03	-2.01444E 00	3.15162E 01	-4.22857E 02	
30.30	1.07218E 00	-3.05937E 01	-2.07674E 00	1.64495E-03	-2.02691E 00	3.16175E 01	-4.23154E 02	
30.40	1.07218E 00	-3.06950E 01	-2.08944E 00	1.64569E-03	-2.03942E 00	3.17188E 01	-4.23450E 02	
30.50	1.07218E 00	-3.07963E 01	-2.10218E 00	1.64642E-03	-2.05196E 00	3.18200E 01	-4.23745E 02	
30.60	1.07218E 00	-3.08976E 01	-2.11495E 00	1.64714E-03	-2.06454E 00	3.19213E 01	-4.24040E 02	
30.70	1.07218E 00	-3.09989E 01	-2.12776E 00	1.64785E-03	-2.07716E 00	3.20225E 01	-4.24334E 02	
30.80	1.07217E 00	-3.11001E 01	-2.14061E 00	1.64855E-03	-2.08982E 00	3.21237E 01	-4.24628E 02	
30.90	1.07217E 00	-3.12014E 01	-2.15350E 00	1.64925E-03	-2.10251E 00	3.22249E 01	-4.24920E 02	
31.00	1.07217E 00	-3.13026E 01	-2.16643E 00	1.64993E-03	-2.11524E 00	3.23261E 01	-4.25212E 02	
31.10	1.07217E 00	-3.14038E 01	-2.17939E 00	1.65061E-03	-2.12801E 00	3.24273E 01	-4.25503E 02	
31.20	1.07217E 00	-3.15050E 01	-2.19239E 00	1.65127E-03	-2.14082E 00	3.25284E 01	-4.25794E 02	
31.30	1.07216E 00	-3.16062E 01	-2.20543E 00	1.65193E-03	-2.15367E 00	3.26296E 01	-4.26084E 02	
31.40	1.07216E 00	-3.17074E 01	-2.21851E 00	1.65258E-03	-2.16655E 00	3.27307E 01	-4.26373E 02	
31.50	1.07216E 00	-3.18086E 01	-2.23162E 00	1.65323E-03	-2.17947E 00	3.28318E 01	-4.26661E 02	
31.60	1.07216E 00	-3.19098E 01	-2.24477E 00	1.65386E-03	-2.19243E 00	3.29330E 01	-4.26950E 02	
31.70	1.07216E 00	-3.20109E 01	-2.25797E 00	1.65448E-03	-2.20543E 00	3.30341E 01	-4.27237E 02	
31.80	1.07215E 00	-3.21121E 01	-2.27119E 00	1.65510E-03	-2.21846E 00	3.31351E 01	-4.27524E 02	
31.90	1.07215E 00	-3.22132E 01	-2.28446E 00	1.65571E-03	-2.23154E 00	3.32362E 01	-4.27810E 02	
32.00	1.07215E 00	-3.23143E 01	-2.29776E 00	1.65631E-03	-2.24465E 00	3.33373E 01	-4.28095E 02	
32.10	1.07215E 00	-3.24154E 01	-2.31110E 00	1.65690E-03	-2.25780E 00	3.34383E 01	-4.28380E 02	
32.20	1.07215E 00	-3.25165E 01	-2.32448E 00	1.65749E-03	-2.27098E 00	3.35393E 01	-4.28665E 02	
32.30	1.07215E 00	-3.26176E 01	-2.33790E 00	1.65806E-03	-2.28421E 00	3.36404E 01	-4.28949E 02	
32.40	1.07214E 00	-3.27186E 01	-2.35136E 00	1.65863E-03	-2.29747E 00	3.37414E 01	-4.29232E 02	
32.50	1.07214E 00	-3.28197E 01	-2.36485E 00	1.65919E-03	-2.31077E 00	3.38424E 01	-4.29515E 02	
32.60	1.07214E 00	-3.29207E 01	-2.37838E 00	1.65975E-03	-2.32410E 00	3.39433E 01	-4.29797E 02	
32.70	1.07214E 00	-3.30217E 01	-2.39195E 00	1.66029E-03	-2.33748E 00	3.40443E 01	-4.30079E 02	
32.80	1.07214E 00	-3.31227E 01	-2.40555E 00	1.66083E-03	-2.35089E 00	3.41453E 01	-4.30360E 02	
32.90	1.07213E 00	-3.32237E 01	-2.41919E 00	1.66136E-03	-2.36434E 00	3.42462E 01	-4.30641E 02	
33.00	1.07213E 00	-3.33247E 01	-2.43288E 00	1.66188E-03	-2.37783E 00	3.43471E 01	-4.30921E 02	
33.10	1.07213E 00	-3.34257E 01	-2.44659E 00	1.66240E-03	-2.39136E 00	3.44480E 01	-4.31200E 02	
33.20	1.07213E 00	-3.35266E 01	-2.46035E 00	1.66290E-03	-2.40492E 00	3.45489E 01	-4.31480E 02	
33.30	1.07213E 00	-3.36276E 01	-2.47415E 00	1.66340E-03	-2.41852E 00	3.46498E 01	-4.31758E 02	
33.40	1.07213E 00	-3.37285E 01	-2.48798E 00	1.66389E-03	-2.43216E 00	3.47507E 01	-4.32036E 02	
33.50	1.07212E 00	-3.38294E 01	-2.50185E 00	1.66438E-03	-2.44584E 00	3.48516E 01	-4.32314E 02	
33.60	1.07212E 00	-3.39303E 01	-2.51575E 00	1.66486E-03	-2.45955E 00	3.49524E 01	-4.32591E 02	
33.70	1.07212E 00	-3.40312E 01	-2.52970E 00	1.66533E-03	-2.47330E 00	3.50532E 01	-4.32867E 02	
33.80	1.07212E 00	-3.41321E 01	-2.54368E 00	1.66579E-03	-2.48709E 00	3.51541E 01	-4.33144E 02	
33.90	1.07212E 00	-3.42329E 01	-2.55770E 00	1.66625E-03	-2.50092E 00	3.52549E 01	-4.33420E 02	
34.00	1.07212E 00	-3.43338E 01	-2.57176E 00	1.66670E-03	-2.51479E 00	3.53557E 01	-4.33695E 02	
34.10	1.07211E 00	-3.44346E 01	-2.58586E 00	1.66714E-03	-2.52869E 00	3.54564E 01	-4.33970E 02	
34.20	1.07211E 00	-3.45354E 01	-2.59999E 00	1.66757E-03	-2.54263E 00	3.55572E 01	-4.34245E 02	
34.30	1.07211E 00	-3.46363E 01	-2.61416E 00	1.66801E-03	-2.55661E 00	3.56580E 01	-4.34519E 02	
34.40	1.07211E 00	-3.47370E 01	-2.62837E 00	1.66843E-03	-2.57062E 00	3.57587E 01	-4.34793E 02	
34.50	1.07211E 00	-3.48378E 01	-2.64261E 00	1.66884E-03	-2.58468E 00	3.58594E 01	-4.35066E 02	
34.60	1.07211E 00	-3.49386E 01	-2.65690E 00	1.66925E-03	-2.59877E 00	3.59601E 01	-4.35339E 02	
34.70	1.07210E 00	-3.50394E 01	-2.67122E 00	1.66965E-03	-2.61290E 00	3.60608E 01	-4.35611E 02	
34.80	1.07210E 00	-3.51401E 01	-2.68558E 00	1.67005E-03	-2.62706E 00	3.61615E 01	-4.35883E 02	
34.90	1.07210E 00	-3.52408E 01	-2.69998E 00	1.67044E-03	-2.64127E 00	3.62622E 01	-4.36155E 02	
35.00	1.07210E 00	-3.53415E 01	-2.71441E 00	1.67082E-03	-2.65551E 00	3.63628E 01	-4.36426E 02	
35.10	1.07210E 00	-3.54422E 01	-2.72888E 00	1.67119E-03	-2.66979E 00	3.64635E 01	-4.36698E 02	
35.20	1.07210E 00	-3.55429E 01	-2.74339E 00	1.67156E-03	-2.68410E 00	3.65641E 01	-4.36968E 02	
35.30	1.07209E 00	-3.56436E 01	-2.75794E 00	1.67192E-03	-2.69846E 00	3.66647E 01	-4.37239E 02	
35.40	1.07209E 00	-3.57442E 01	-2.77252E 00	1.67228E-03	-2.71285E 00	3.67653E 01	-4.37509E 02	
35.50	1.07209E 00	-3.58449E 01	-2.78714E 00	1.67263E-03	-2.72728E 00	3.68659E 01	-4.37778E 02	
35.60	1.07209E 00	-3.59455E 01	-2.80180E 00	1.67297E-03	-2.74175E 00	3.69665E 01	-4.38048E 02	
35.70	1.07209E 00	-3.60461E 01	-2.81650E 00	1.67331E-03	-2.75625E 00	3.70670E 01	-4.38317E 02	
35.80	1.07209E 00	-3.61467E 01	-2.83124E 00	1.67364E-03	-2.77079E 00	3.71676E 01	-4.38585E 02	
35.90	1.07208E 00	-3.62473E 01	-2.84601E 00	1.67396E-03	-2.78537E 00	3.72681E 01	-4.38854E 02	
36.00	1.07208E 00	-3.63479E 01	-2.86082E 00	1.67428E-03	-2.79999E 00	3.73686E 01	-4.39122E 02	



## ELECTRON RADIAL FUNCTIONS

 $Z=3$  $A=6$  $\rho=1.2A^{1/3}F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$
30.10	8.60137E-04	-1.72808E 00	-6.94514E-02	6.78950E 01	-6.77543E-02	1.78635E 00	-1.43641E-02
30.20	8.65861E-04	-1.73963E 00	-7.01128E-02	6.78980E 01	-6.84035E-02	1.79810E 00	-1.43646E-02
30.30	8.71603E-04	-1.75123E 00	-7.07785E-02	6.79010E 01	-6.90568E-02	1.80989E 00	-1.43652E-02
30.40	8.77365E-04	-1.76286E 00	-7.14482E-02	6.79040E 01	-6.97142E-02	1.82171E 00	-1.43657E-02
30.50	8.83146E-04	-1.77453E 00	-7.21222E-02	6.79069E 01	-7.03758E-02	1.83357E 00	-1.43662E-02
30.60	8.88945E-04	-1.78624E 00	-7.28004E-02	6.79099E 01	-7.10416E-02	1.84547E 00	-1.43668E-02
30.70	8.94764E-04	-1.79798E 00	-7.34828E-02	6.79128E 01	-7.17115E-02	1.85741E 00	-1.43673E-02
30.80	9.00602E-04	-1.80977E 00	-7.41694E-02	6.79157E 01	-7.23856E-02	1.86939E 00	-1.43678E-02
30.90	9.06459E-04	-1.82159E 00	-7.48603E-02	6.79186E 01	-7.30639E-02	1.88140E 00	-1.43684E-02
31.00	9.12334E-04	-1.83345E 00	-7.55554E-02	6.79214E 01	-7.37464E-02	1.89345E 00	-1.43689E-02
31.10	9.18229E-04	-1.84535E 00	-7.62548E-02	6.79243E 01	-7.44331E-02	1.90554E 00	-1.43694E-02
31.20	9.24142E-04	-1.85729E 00	-7.69585E-02	6.79271E 01	-7.51241E-02	1.91767E 00	-1.43699E-02
31.30	9.30075E-04	-1.86926E 00	-7.76664E-02	6.79299E 01	-7.58193E-02	1.92984E 00	-1.43704E-02
31.40	9.36026E-04	-1.88127E 00	-7.83786E-02	6.79327E 01	-7.65188E-02	1.94204E 00	-1.43709E-02
31.50	9.41997E-04	-1.89333E 00	-7.90952E-02	6.79355E 01	-7.72225E-02	1.95429E 00	-1.43715E-02
31.60	9.47986E-04	-1.90541E 00	-7.98161E-02	6.79382E 01	-7.79305E-02	1.96657E 00	-1.43720E-02
31.70	9.53995E-04	-1.91754E 00	-8.05414E-02	6.79409E 01	-7.86429E-02	1.97888E 00	-1.43725E-02
31.80	9.60022E-04	-1.92971E 00	-8.12709E-02	6.79437E 01	-7.93595E-02	1.99124E 00	-1.43730E-02
31.90	9.66069E-04	-1.94191E 00	-8.20049E-02	6.79464E 01	-8.00804E-02	2.00364E 00	-1.43735E-02
32.00	9.72134E-04	-1.95415E 00	-8.27432E-02	6.79490E 01	-8.08057E-02	2.01607E 00	-1.43739E-02
32.10	9.78218E-04	-1.96643E 00	-8.34860E-02	6.79517E 01	-8.15354E-02	2.02854E 00	-1.43744E-02
32.20	9.84322E-04	-1.97875E 00	-8.42331E-02	6.79544E 01	-8.22694E-02	2.04105E 00	-1.43749E-02
32.30	9.90444E-04	-1.99110E 00	-8.49846E-02	6.79570E 01	-8.30078E-02	2.05359E 00	-1.43754E-02
32.40	9.96586E-04	-2.00349E 00	-8.57406E-02	6.79596E 01	-8.37505E-02	2.06618E 00	-1.43759E-02
32.50	1.00275E-03	-2.01593E 00	-8.65011E-02	6.79622E 01	-8.44977E-02	2.07880E 00	-1.43764E-02
32.60	1.00893E-03	-2.02839E 00	-8.72659E-02	6.79648E 01	-8.52493E-02	2.09146E 00	-1.43768E-02
32.70	1.01512E-03	-2.04090E 00	-8.80353E-02	6.79673E 01	-8.60053E-02	2.10416E 00	-1.43773E-02
32.80	1.02134E-03	-2.05345E 00	-8.88091E-02	6.79699E 01	-8.67657E-02	2.11690E 00	-1.43778E-02
32.90	1.02758E-03	-2.06603E 00	-8.95875E-02	6.79724E 01	-8.75306E-02	2.12967E 00	-1.43782E-02
33.00	1.03383E-03	-2.07865E 00	-9.03703E-02	6.79749E 01	-8.83000E-02	2.14248E 00	-1.43787E-02
33.10	1.04011E-03	-2.09131E 00	-9.11577E-02	6.79774E 01	-8.90738E-02	2.15533E 00	-1.43792E-02
33.20	1.04640E-03	-2.10401E 00	-9.19496E-02	6.79799E 01	-8.98521E-02	2.16822E 00	-1.43796E-02
33.30	1.05271E-03	-2.11674E 00	-9.27460E-02	6.79824E 01	-9.06350E-02	2.18115E 00	-1.43801E-02
33.40	1.05904E-03	-2.12951E 00	-9.35470E-02	6.79848E 01	-9.14223E-02	2.19411E 00	-1.43805E-02
33.50	1.06539E-03	-2.14232E 00	-9.43526E-02	6.79873E 01	-9.22142E-02	2.20711E 00	-1.43810E-02
33.60	1.07176E-03	-2.15517E 00	-9.51627E-02	6.79897E 01	-9.30106E-02	2.22015E 00	-1.43814E-02
33.70	1.07815E-03	-2.16806E 00	-9.59775E-02	6.79921E 01	-9.38115E-02	2.23323E 00	-1.43819E-02
33.80	1.08456E-03	-2.18098E 00	-9.67968E-02	6.79945E 01	-9.46171E-02	2.24634E 00	-1.43823E-02
33.90	1.09098E-03	-2.19395E 00	-9.76208E-02	6.79969E 01	-9.54272E-02	2.25950E 00	-1.43828E-02
34.00	1.09743E-03	-2.20695E 00	-9.84494E-02	6.79993E 01	-9.62419E-02	2.27269E 00	-1.43832E-02
34.10	1.10389E-03	-2.21998E 00	-9.92827E-02	6.80016E 01	-9.70612E-02	2.28592E 00	-1.43836E-02
34.20	1.11038E-03	-2.23306E 00	-1.00121E-01	6.80040E 01	-9.78851E-02	2.29918E 00	-1.43841E-02
34.30	1.11688E-03	-2.24617E 00	-1.00963E-01	6.80063E 01	-9.87137E-02	2.31249E 00	-1.43845E-02
34.40	1.12340E-03	-2.25933E 00	-1.01810E-01	6.80086E 01	-9.95469E-02	2.32583E 00	-1.43849E-02
34.50	1.12994E-03	-2.27251E 00	-1.02662E-01	6.80109E 01	-1.00385E-01	2.33921E 00	-1.43854E-02
34.60	1.13650E-03	-2.28574E 00	-1.03519E-01	6.80132E 01	-1.01227E-01	2.35263E 00	-1.43858E-02
34.70	1.14307E-03	-2.29901E 00	-1.04381E-01	6.80154E 01	-1.02074E-01	2.36609E 00	-1.43862E-02
34.80	1.14967E-03	-2.31231E 00	-1.05247E-01	6.80177E 01	-1.02926E-01	2.37958E 00	-1.43866E-02
34.90	1.15629E-03	-2.32565E 00	-1.06118E-01	6.80199E 01	-1.03783E-01	2.39311E 00	-1.43870E-02
35.00	1.16292E-03	-2.33903E 00	-1.06993E-01	6.80222E 01	-1.04644E-01	2.40668E 00	-1.43875E-02
35.10	1.16958E-03	-2.35245E 00	-1.07874E-01	6.80244E 01	-1.05510E-01	2.42029E 00	-1.43879E-02
35.20	1.17625E-03	-2.36590E 00	-1.08759E-01	6.80266E 01	-1.06381E-01	2.43394E 00	-1.43883E-02
35.30	1.18294E-03	-2.37939E 00	-1.09649E-01	6.80288E 01	-1.07257E-01	2.44762E 00	-1.43887E-02
35.40	1.18965E-03	-2.39292E 00	-1.10544E-01	6.80309E 01	-1.08137E-01	2.46134E 00	-1.43891E-02
35.50	1.19638E-03	-2.40649E 00	-1.11444E-01	6.80331E 01	-1.09022E-01	2.47510E 00	-1.43895E-02
35.60	1.20313E-03	-2.42010E 00	-1.12348E-01	6.80353E 01	-1.09912E-01	2.48890E 00	-1.43899E-02
35.70	1.20990E-03	-2.43374E 00	-1.13257E-01	6.80374E 01	-1.10807E-01	2.50273E 00	-1.43903E-02
35.80	1.21668E-03	-2.44742E 00	-1.14172E-01	6.80395E 01	-1.11706E-01	2.51660E 00	-1.43907E-02
35.90	1.22349E-03	-2.46114E 00	-1.15091E-01	6.80417E 01	-1.12611E-01	2.53051E 00	-1.43911E-02
36.00	1.23031E-03	-2.47490E 00	-1.16015E-01	6.80438E 01	-1.13520E-01	2.54446E 00	-1.43915E-02

## ELECTRON RADIAL FUNCTIONS

Electron	$Z=3$		$A=6$		$\rho=1.2A^{1/3}F$								
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$					
36.10	1.07208E	00	-3.64484E	01	-2.87567E	00	1.67460E-03	-2.81465E	00	3.74691E	01	-4.39389E	02
36.20	1.07208E	00	-3.65490E	01	-2.89055E	00	1.67490E-03	-2.82934E	00	3.75696E	01	-4.39657E	02
36.30	1.07208E	00	-3.66495E	01	-2.90547E	00	1.67520E-03	-2.84407E	00	3.76701E	01	-4.39924E	02
36.40	1.07208E	00	-3.67500E	01	-2.92043E	00	1.67549E-03	-2.85884E	00	3.77705E	01	-4.40191E	02
36.50	1.07208E	00	-3.68505E	01	-2.93543E	00	1.67578E-03	-2.87364E	00	3.78710E	01	-4.40458E	02
36.60	1.07207E	00	-3.69510E	01	-2.95047E	00	1.67606E-03	-2.88848E	00	3.79714E	01	-4.40724E	02
36.70	1.07207E	00	-3.70515E	01	-2.96554E	00	1.67634E-03	-2.90336E	00	3.80718E	01	-4.40990E	02
36.80	1.07207E	00	-3.71519E	01	-2.98065E	00	1.67661E-03	-2.91828E	00	3.81722E	01	-4.41256E	02
36.90	1.07207E	00	-3.72524E	01	-2.99579E	00	1.67688E-03	-2.93323E	00	3.82726E	01	-4.41521E	02
37.00	1.07207E	00	-3.73528E	01	-3.01098E	00	1.67713E-03	-2.94823E	00	3.83730E	01	-4.41787E	02
37.10	1.07207E	00	-3.74532E	01	-3.02620E	00	1.67739E-03	-2.96326E	00	3.84733E	01	-4.42052E	02
37.20	1.07206E	00	-3.75536E	01	-3.04146E	00	1.67763E-03	-2.97832E	00	3.85737E	01	-4.42317E	02
37.30	1.07206E	00	-3.76540E	01	-3.05676E	00	1.67787E-03	-2.99343E	00	3.86740E	01	-4.42582E	02
37.40	1.07206E	00	-3.77544E	01	-3.07209E	00	1.67811E-03	-3.00857E	00	3.87743E	01	-4.42846E	02
37.50	1.07206E	00	-3.78547E	01	-3.08747E	00	1.67834E-03	-3.02375E	00	3.88746E	01	-4.43110E	02
37.60	1.07206E	00	-3.79551E	01	-3.10287E	00	1.67857E-03	-3.03897E	00	3.89749E	01	-4.43374E	02
37.70	1.07206E	00	-3.80554E	01	-3.11832E	00	1.67879E-03	-3.05422E	00	3.90751E	01	-4.43637E	02
37.80	1.07206E	00	-3.81557E	01	-3.13381E	00	1.67900E-03	-3.06951E	00	3.91754E	01	-4.43901E	02
37.90	1.07205E	00	-3.82560E	01	-3.14933E	00	1.67921E-03	-3.08484E	00	3.92756E	01	-4.44164E	02
38.00	1.07205E	00	-3.83563E	01	-3.16489E	00	1.67941E-03	-3.10021E	00	3.93758E	01	-4.44427E	02
38.10	1.07205E	00	-3.84566E	01	-3.18048E	00	1.67961E-03	-3.11561E	00	3.94761E	01	-4.44690E	02
38.20	1.07205E	00	-3.85568E	01	-3.19612E	00	1.67980E-03	-3.13105E	00	3.95762E	01	-4.44953E	02
38.30	1.07205E	00	-3.86571E	01	-3.21179E	00	1.67999E-03	-3.14653E	00	3.96764E	01	-4.45215E	02
38.40	1.07205E	00	-3.87573E	01	-3.22750E	00	1.68017E-03	-3.16205E	00	3.97766E	01	-4.45478E	02
38.50	1.07205E	00	-3.88575E	01	-3.24324E	00	1.68034E-03	-3.17760E	00	3.98767E	01	-4.45740E	02
38.60	1.07204E	00	-3.89577E	01	-3.25902E	00	1.68051E-03	-3.19319E	00	3.99769E	01	-4.46002E	02
38.70	1.07204E	00	-3.90579E	01	-3.27485E	00	1.68068E-03	-3.20882E	00	4.00770E	01	-4.46264E	02
38.80	1.07204E	00	-3.91580E	01	-3.29070E	00	1.68084E-03	-3.22449E	00	4.01771E	01	-4.46526E	02
38.90	1.07204E	00	-3.92582E	01	-3.30660E	00	1.68099E-03	-3.24019E	00	4.02772E	01	-4.46787E	02
39.00	1.07204E	00	-3.93583E	01	-3.32253E	00	1.68115E-03	-3.25593E	00	4.03772E	01	-4.47048E	02
39.10	1.07204E	00	-3.94584E	01	-3.33850E	00	1.68129E-03	-3.27171E	00	4.04773E	01	-4.47310E	02
39.20	1.07204E	00	-3.95585E	01	-3.35451E	00	1.68143E-03	-3.28752E	00	4.05773E	01	-4.47571E	02
39.30	1.07203E	00	-3.96586E	01	-3.37055E	00	1.68156E-03	-3.30338E	00	4.06774E	01	-4.47832E	02
39.40	1.07203E	00	-3.97587E	01	-3.38663E	00	1.68169E-03	-3.31927E	00	4.07774E	01	-4.48092E	02
39.50	1.07203E	00	-3.98588E	01	-3.40275E	00	1.68182E-03	-3.33519E	00	4.08774E	01	-4.48353E	02
39.60	1.07203E	00	-3.99588E	01	-3.41891E	00	1.68194E-03	-3.35116E	00	4.09774E	01	-4.48613E	02
39.70	1.07203E	00	-4.00588E	01	-3.43510E	00	1.68205E-03	-3.36716E	00	4.10773E	01	-4.48874E	02
39.80	1.07203E	00	-4.01588E	01	-3.45133E	00	1.68216E-03	-3.38320E	00	4.11773E	01	-4.49134E	02
39.90	1.07203E	00	-4.02588E	01	-3.46760E	00	1.68226E-03	-3.39927E	00	4.12772E	01	-4.49395E	02
40.00	1.07202E	00	-4.03588E	01	-3.48391E	00	1.68237E-03	-3.41539E	00	4.13771E	01	-4.49655E	02
40.10	1.07202E	00	-4.04588E	01	-3.50025E	00	1.68246E-03	-3.43154E	00	4.14770E	01	-4.49915E	02
40.20	1.07202E	00	-4.05587E	01	-3.51663E	00	1.68255E-03	-3.44773E	00	4.15769E	01	-4.50174E	02
40.30	1.07202E	00	-4.06587E	01	-3.53305E	00	1.68264E-03	-3.46395E	00	4.16768E	01	-4.50434E	02
40.40	1.07202E	00	-4.07586E	01	-3.54950E	00	1.68271E-03	-3.48021E	00	4.17766E	01	-4.50694E	02
40.50	1.07202E	00	-4.08585E	01	-3.56599E	00	1.68279E-03	-3.49651E	00	4.18765E	01	-4.50954E	02
40.60	1.07202E	00	-4.09584E	01	-3.58252E	00	1.68286E-03	-3.51285E	00	4.19763E	01	-4.51214E	02
40.70	1.07201E	00	-4.10583E	01	-3.59909E	00	1.68293E-03	-3.52922E	00	4.20761E	01	-4.51473E	02
40.80	1.07201E	00	-4.11581E	01	-3.61569E	00	1.68299E-03	-3.54564E	00	4.21759E	01	-4.51732E	02
40.90	1.07201E	00	-4.12580E	01	-3.63233E	00	1.68305E-03	-3.56208E	00	4.22757E	01	-4.51992E	02
41.00	1.07201E	00	-4.13578E	01	-3.64901E	00	1.68310E-03	-3.57857E	00	4.23755E	01	-4.52251E	02
41.10	1.07201E	00	-4.14576E	01	-3.66572E	00	1.68315E-03	-3.59509E	00	4.24752E	01	-4.52510E	02
41.20	1.07201E	00	-4.15574E	01	-3.68248E	00	1.68319E-03	-3.61165E	00	4.25749E	01	-4.52769E	02
41.30	1.07201E	00	-4.16572E	01	-3.69926E	00	1.68323E-03	-3.62825E	00	4.26746E	01	-4.53028E	02
41.40	1.07200E	00	-4.17569E	01	-3.71609E	00	1.68327E-03	-3.64488E	00	4.27743E	01	-4.53288E	02
41.50	1.07200E	00	-4.18567E	01	-3.73295E	00	1.68330E-03	-3.66156E	00	4.28740E	01	-4.53546E	02
41.60	1.07200E	00	-4.19564E	01	-3.74985E	00	1.68332E-03	-3.67826E	00	4.29737E	01	-4.53805E	02
41.70	1.07200E	00	-4.20561E	01	-3.76679E	00	1.68334E-03	-3.69501E	00	4.30733E	01	-4.54064E	02
41.80	1.07200E	00	-4.21558E	01	-3.78377E	00	1.68336E-03	-3.71179E	00	4.31730E	01	-4.54323E	02
41.90	1.07200E	00	-4.22555E	01	-3.80078E	00	1.68337E-03	-3.72861E	00	4.32726E	01	-4.54583E	02
42.00	1.07200E	00	-4.23552E	01	-3.81783E	00	1.68337E-03	-3.74547E	00	4.33722E	01	-4.54842E	02



## ELECTRON RADIAL FUNCTIONS

$p$	Electron							
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
36.10	1.23716E-03	-2.48869E 00	-1.16944E-01	6.80458E 01	-1.14434E-01	2.55845E 00	-1.43919E-02	
36.20	1.24402E-03	-2.50253E 00	-1.17878E-01	6.80479E 01	-1.15353E-01	2.57247E 00	-1.43923E-02	
36.30	1.25090E-03	-2.51640E 00	-1.18816E-01	6.80500E 01	-1.16277E-01	2.58653E 00	-1.43926E-02	
36.40	1.25780E-03	-2.53030E 00	-1.19760E-01	6.80521E 01	-1.17205E-01	2.60063E 00	-1.43930E-02	
36.50	1.26472E-03	-2.54425E 00	-1.20709E-01	6.80541E 01	-1.18139E-01	2.61476E 00	-1.43934E-02	
36.60	1.27166E-03	-2.55823E 00	-1.21662E-01	6.80561E 01	-1.19078E-01	2.62894E 00	-1.43938E-02	
36.70	1.27862E-03	-2.57225E 00	-1.22621E-01	6.80582E 01	-1.20021E-01	2.64315E 00	-1.43942E-02	
36.80	1.28559E-03	-2.58631E 00	-1.23584E-01	6.80602E 01	-1.20969E-01	2.65740E 00	-1.43945E-02	
36.90	1.29259E-03	-2.60041E 00	-1.24553E-01	6.80622E 01	-1.21923E-01	2.67169E 00	-1.43949E-02	
37.00	1.29960E-03	-2.61454E 00	-1.25526E-01	6.80642E 01	-1.22881E-01	2.68601E 00	-1.43953E-02	
37.10	1.30664E-03	-2.62872E 00	-1.26505E-01	6.80661E 01	-1.23845E-01	2.70037E 00	-1.43957E-02	
37.20	1.31369E-03	-2.64293E 00	-1.27489E-01	6.80681E 01	-1.24813E-01	2.71478E 00	-1.43960E-02	
37.30	1.32076E-03	-2.65717E 00	-1.28477E-01	6.80700E 01	-1.25786E-01	2.72921E 00	-1.43964E-02	
37.40	1.32785E-03	-2.67146E 00	-1.29471E-01	6.80720E 01	-1.26765E-01	2.74369E 00	-1.43968E-02	
37.50	1.33496E-03	-2.68578E 00	-1.30470E-01	6.80739E 01	-1.27748E-01	2.75820E 00	-1.43971E-02	
37.60	1.34209E-03	-2.70014E 00	-1.31474E-01	6.80758E 01	-1.28737E-01	2.77275E 00	-1.43975E-02	
37.70	1.34924E-03	-2.71454E 00	-1.32483E-01	6.80778E 01	-1.29730E-01	2.78734E 00	-1.43979E-02	
37.80	1.35640E-03	-2.72898E 00	-1.33497E-01	6.80797E 01	-1.30729E-01	2.80197E 00	-1.43982E-02	
37.90	1.36359E-03	-2.74345E 00	-1.34517E-01	6.80815E 01	-1.31733E-01	2.81663E 00	-1.43986E-02	
38.00	1.37079E-03	-2.75796E 00	-1.35541E-01	6.80834E 01	-1.32741E-01	2.83133E 00	-1.43989E-02	
38.10	1.37801E-03	-2.77251E 00	-1.36571E-01	6.80853E 01	-1.33755E-01	2.84607E 00	-1.43993E-02	
38.20	1.38526E-03	-2.78710E 00	-1.37605E-01	6.80872E 01	-1.34774E-01	2.86085E 00	-1.43996E-02	
38.30	1.39252E-03	-2.80172E 00	-1.38645E-01	6.80890E 01	-1.35798E-01	2.87566E 00	-1.44000E-02	
38.40	1.39980E-03	-2.81638E 00	-1.39691E-01	6.80909E 01	-1.36828E-01	2.89052E 00	-1.44003E-02	
38.50	1.40710E-03	-2.83108E 00	-1.40741E-01	6.80927E 01	-1.37862E-01	2.90541E 00	-1.44007E-02	
38.60	1.41441E-03	-2.84582E 00	-1.41797E-01	6.80945E 01	-1.38902E-01	2.92033E 00	-1.44010E-02	
38.70	1.42175E-03	-2.86060E 00	-1.42857E-01	6.80963E 01	-1.39947E-01	2.93530E 00	-1.44014E-02	
38.80	1.42911E-03	-2.87541E 00	-1.43923E-01	6.80981E 01	-1.40997E-01	2.95030E 00	-1.44017E-02	
38.90	1.43648E-03	-2.89026E 00	-1.44995E-01	6.80999E 01	-1.42052E-01	2.96534E 00	-1.44020E-02	
39.00	1.44388E-03	-2.90515E 00	-1.46071E-01	6.81017E 01	-1.43113E-01	2.98042E 00	-1.44024E-02	
39.10	1.45129E-03	-2.92007E 00	-1.47153E-01	6.81035E 01	-1.44178E-01	2.99553E 00	-1.44027E-02	
39.20	1.45872E-03	-2.93503E 00	-1.48240E-01	6.81052E 01	-1.45249E-01	3.01069E 00	-1.44030E-02	
39.30	1.46617E-03	-2.95003E 00	-1.49333E-01	6.81070E 01	-1.46326E-01	3.02588E 00	-1.44034E-02	
39.40	1.47364E-03	-2.96507E 00	-1.50431E-01	6.81087E 01	-1.47407E-01	3.04111E 00	-1.44037E-02	
39.50	1.48113E-03	-2.98015E 00	-1.51534E-01	6.81105E 01	-1.48494E-01	3.05637E 00	-1.44040E-02	
39.60	1.48864E-03	-2.99526E 00	-1.52642E-01	6.81122E 01	-1.49586E-01	3.07167E 00	-1.44044E-02	
39.70	1.49617E-03	-3.01041E 00	-1.53756E-01	6.81139E 01	-1.50683E-01	3.08702E 00	-1.44047E-02	
39.80	1.50371E-03	-3.02560E 00	-1.54875E-01	6.81156E 01	-1.51786E-01	3.10239E 00	-1.44050E-02	
39.90	1.51128E-03	-3.04082E 00	-1.56000E-01	6.81173E 01	-1.52894E-01	3.11781E 00	-1.44053E-02	
40.00	1.51886E-03	-3.05609E 00	-1.57130E-01	6.81190E 01	-1.54008E-01	3.13326E 00	-1.44057E-02	
40.10	1.52646E-03	-3.07139E 00	-1.58265E-01	6.81207E 01	-1.55127E-01	3.14875E 00	-1.44060E-02	
40.20	1.53408E-03	-3.08673E 00	-1.59406E-01	6.81224E 01	-1.56251E-01	3.16428E 00	-1.44063E-02	
40.30	1.54173E-03	-3.10210E 00	-1.60552E-01	6.81241E 01	-1.57380E-01	3.17985E 00	-1.44066E-02	
40.40	1.54938E-03	-3.11752E 00	-1.61704E-01	6.81257E 01	-1.58515E-01	3.19545E 00	-1.44069E-02	
40.50	1.55706E-03	-3.13297E 00	-1.62861E-01	6.81274E 01	-1.59656E-01	3.21109E 00	-1.44072E-02	
40.60	1.56476E-03	-3.14846E 00	-1.64024E-01	6.81290E 01	-1.60802E-01	3.22677E 00	-1.44076E-02	
40.70	1.57248E-03	-3.16398E 00	-1.65192E-01	6.81306E 01	-1.61953E-01	3.24248E 00	-1.44079E-02	
40.80	1.58021E-03	-3.17954E 00	-1.66365E-01	6.81323E 01	-1.63110E-01	3.25824E 00	-1.44082E-02	
40.90	1.58797E-03	-3.19515E 00	-1.67544E-01	6.81339E 01	-1.64272E-01	3.27403E 00	-1.44085E-02	
41.00	1.59574E-03	-3.21078E 00	-1.68729E-01	6.81355E 01	-1.65440E-01	3.28986E 00	-1.44088E-02	
41.10	1.60353E-03	-3.22646E 00	-1.69919E-01	6.81371E 01	-1.66613E-01	3.30572E 00	-1.44091E-02	
41.20	1.61135E-03	-3.24217E 00	-1.71115E-01	6.81387E 01	-1.67791E-01	3.32162E 00	-1.44094E-02	
41.30	1.61918E-03	-3.25792E 00	-1.72316E-01	6.81403E 01	-1.68976E-01	3.33756E 00	-1.44097E-02	
41.40	1.62703E-03	-3.27371E 00	-1.73523E-01	6.81418E 01	-1.70165E-01	3.35354E 00	-1.44100E-02	
41.50	1.63489E-03	-3.28954E 00	-1.74735E-01	6.81434E 01	-1.71360E-01	3.36956E 00	-1.44103E-02	
41.60	1.64278E-03	-3.30540E 00	-1.75953E-01	6.81450E 01	-1.72561E-01	3.38561E 00	-1.44106E-02	
41.70	1.65069E-03	-3.32130E 00	-1.77177E-01	6.81465E 01	-1.73768E-01	3.40170E 00	-1.44109E-02	
41.80	1.65861E-03	-3.33724E 00	-1.78406E-01	6.81481E 01	-1.74980E-01	3.41783E 00	-1.44112E-02	
41.90	1.66656E-03	-3.35321E 00	-1.79641E-01	6.81496E 01	-1.76197E-01	3.43399E 00	-1.44115E-02	
42.00	1.67452E-03	-3.36923E 00	-1.80882E-01	6.81511E 01	-1.77420E-01	3.45019E 00	-1.44118E-02	



## ELECTRON RADIAL FUNCTIONS

Electron	$Z = 4$	$A = 8$	$\rho = 1.2 A^{1/3} F$				
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
0.10	2.20673E 00	-1.08695E-02	-1.72079E-04	-1.24874E-01	-2.45112E-03	2.09722E-01	-6.20553E 00
0.20	1.55047E 00	-3.50435E-02	-5.55861E-04	-6.10672E-02	-4.10498E-03	3.50309E-01	-1.18863E 01
0.30	1.36210E 00	-7.22089E-02	-1.14900E-03	-4.01989E-02	-5.76264E-03	4.89672E-01	-1.75819E 01
0.40	1.27551E 00	-1.21096E-01	-1.93518E-03	-2.97670E-02	-7.42220E-03	6.27046E-01	-2.31950E 01
0.50	1.22684E 00	-1.80197E-01	-2.89497E-03	-2.34836E-02	-9.08300E-03	7.61886E-01	-2.86966E 01
0.60	1.19624E 00	-2.47952E-01	-4.00824E-03	-1.92716E-02	-1.07465E-02	8.93939E-01	-3.40718E 01
0.70	1.17557E 00	-3.22879E-01	-5.25592E-03	-1.62443E-02	-1.24156E-02	1.02317E 00	-3.93120E 01
0.80	1.16090E 00	-4.03652E-01	-6.62093E-03	-1.39589E-02	-1.40937E-02	1.14969E 00	-4.44124E 01
0.90	1.15009E 00	-4.89137E-01	-8.08873E-03	-1.21698E-02	-1.57848E-02	1.27370E 00	-4.93712E 01
1.00	1.14189E 00	-5.78394E-01	-9.64729E-03	-1.07294E-02	-1.74926E-02	1.39544E 00	-5.41888E 01
1.10	1.13552E 00	-6.70658E-01	-1.12868E-02	-9.54379E-03	-1.92207E-02	1.51516E 00	-5.88667E 01
1.20	1.13048E 00	-7.65318E-01	-1.29996E-02	-8.55009E-03	-2.09724E-02	1.63312E 00	-6.34079E 01
1.30	1.12642E 00	-8.61887E-01	-1.47793E-02	-7.70475E-03	-2.27504E-02	1.74953E 00	-6.78158E 01
1.40	1.12310E 00	-9.59982E-01	-1.66213E-02	-6.97654E-03	-2.45571E-02	1.86459E 00	-7.20943E 01
1.50	1.12035E 00	-1.05930E 00	-1.85216E-02	-6.34250E-03	-2.63947E-02	1.97849E 00	-7.62475E 01
1.60	1.11805E 00	-1.15960E 00	-2.04772E-02	-5.78531E-03	-2.82650E-02	2.09138E 00	-8.02798E 01
1.70	1.11611E 00	-1.26069E 00	-2.24859E-02	-5.29170E-03	-3.01694E-02	2.20340E 00	-8.41956E 01
1.80	1.11446E 00	-1.36242E 00	-2.45456E-02	-4.85132E-03	-3.21091E-02	2.31465E 00	-8.79991E 01
1.90	1.11304E 00	-1.46468E 00	-2.66550E-02	-4.45594E-03	-3.40854E-02	2.42524E 00	-9.16947E 01
2.00	1.11180E 00	-1.56737E 00	-2.88128E-02	-4.09897E-03	-3.60991E-02	2.53525E 00	-9.52864E 01
2.10	1.11073E 00	-1.67041E 00	-3.10181E-02	-3.77504E-03	-3.81509E-02	2.64475E 00	-9.87781E 01
2.20	1.10979E 00	-1.77373E 00	-3.32701E-02	-3.47975E-03	-4.02415E-02	2.75380E 00	-1.02174E 02
2.30	1.10896E 00	-1.87730E 00	-3.55683E-02	-3.20945E-03	-4.23716E-02	2.86246E 00	-1.05477E 02
2.40	1.10822E 00	-1.98106E 00	-3.79121E-02	-2.96109E-03	-4.45414E-02	2.97077E 00	-1.08692E 02
2.50	1.10756E 00	-2.08499E 00	-4.03012E-02	-2.73209E-03	-4.67515E-02	3.07877E 00	-1.11821E 02
2.60	1.10697E 00	-2.18906E 00	-4.27351E-02	-2.52026E-03	-4.90022E-02	3.18650E 00	-1.14868E 02
2.70	1.10644E 00	-2.29323E 00	-4.52137E-02	-2.32374E-03	-5.12938E-02	3.29398E 00	-1.17836E 02
2.80	1.10596E 00	-2.39751E 00	-4.77366E-02	-2.14093E-03	-5.36266E-02	3.40123E 00	-1.20728E 02
2.90	1.10553E 00	-2.50186E 00	-5.03038E-02	-1.97044E-03	-5.60008E-02	3.50829E 00	-1.23547E 02
3.00	1.10514E 00	-2.60628E 00	-5.29151E-02	-1.81106E-03	-5.84165E-02	3.61517E 00	-1.26295E 02
3.10	1.10478E 00	-2.71076E 00	-5.55702E-02	-1.66174E-03	-6.08740E-02	3.72189E 00	-1.28976E 02
3.20	1.10445E 00	-2.81528E 00	-5.82692E-02	-1.52156E-03	-6.33734E-02	3.82845E 00	-1.31591E 02
3.30	1.10415E 00	-2.91985E 00	-6.10119E-02	-1.38970E-03	-6.59148E-02	3.93489E 00	-1.34143E 02
3.40	1.10387E 00	-3.02444E 00	-6.37983E-02	-1.26543E-03	-6.84985E-02	4.04120E 00	-1.36633E 02
3.50	1.10361E 00	-3.12906E 00	-6.66283E-02	-1.14813E-03	-7.11243E-02	4.14740E 00	-1.39066E 02
3.60	1.10338E 00	-3.23370E 00	-6.95018E-02	-1.03722E-03	-7.37925E-02	4.25350E 00	-1.41441E 02
3.70	1.10316E 00	-3.33836E 00	-7.24188E-02	-9.32200E-04	-7.65031E-02	4.35950E 00	-1.43762E 02
3.80	1.10295E 00	-3.44304E 00	-7.53792E-02	-8.32607E-04	-7.92562E-02	4.46541E 00	-1.46030E 02
3.90	1.10276E 00	-3.54772E 00	-7.83831E-02	-7.38033E-04	-8.20518E-02	4.57124E 00	-1.48247E 02
4.00	1.10258E 00	-3.65242E 00	-8.14303E-02	-6.48108E-04	-8.48901E-02	4.67700E 00	-1.50414E 02
4.10	1.10242E 00	-3.75712E 00	-8.45209E-02	-5.62493E-04	-8.77711E-02	4.78269E 00	-1.52534E 02
4.20	1.10226E 00	-3.86183E 00	-8.76548E-02	-4.80897E-04	-9.06947E-02	4.88831E 00	-1.54607E 02
4.30	1.10211E 00	-3.96653E 00	-9.08320E-02	-4.03032E-04	-9.36611E-02	4.99388E 00	-1.56636E 02
4.40	1.10198E 00	-4.07124E 00	-9.40526E-02	-3.28656E-04	-9.66703E-02	5.09939E 00	-1.58622E 02
4.50	1.10185E 00	-4.17596E 00	-9.73164E-02	-2.57537E-04	-9.97223E-02	5.20484E 00	-1.60566E 02
4.60	1.10172E 00	-4.28067E 00	-1.00623E-01	-1.89468E-04	-1.02817E-01	5.31025E 00	-1.62469E 02
4.70	1.10161E 00	-4.38537E 00	-1.03974E-01	-1.24260E-04	-1.05955E-01	5.41560E 00	-1.64334E 02
4.80	1.10150E 00	-4.49008E 00	-1.07367E-01	-6.17269E-05	-1.09135E-01	5.52092E 00	-1.66160E 02
4.90	1.10140E 00	-4.59478E 00	-1.10804E-01	-1.71787E-06	-1.12359E-01	5.62619E 00	-1.67949E 02
5.00	1.10130E 00	-4.69948E 00	-1.14284E-01	5.59231E-05	-1.15625E-01	5.73143E 00	-1.69703E 02
5.10	1.10120E 00	-4.80417E 00	-1.17808E-01	1.11329E-04	-1.18935E-01	5.83662E 00	-1.71421E 02
5.20	1.10112E 00	-4.90886E 00	-1.21374E-01	1.64630E-04	-1.22287E-01	5.94178E 00	-1.73106E 02
5.30	1.10103E 00	-5.01354E 00	-1.24984E-01	2.15934E-04	-1.25683E-01	6.04691E 00	-1.74759E 02
5.40	1.10095E 00	-5.11822E 00	-1.28637E-01	2.65361E-04	-1.29121E-01	6.15201E 00	-1.76380E 02
5.50	1.10088E 00	-5.22289E 00	-1.32333E-01	3.13014E-04	-1.32602E-01	6.25707E 00	-1.77970E 02
5.60	1.10080E 00	-5.32756E 00	-1.36072E-01	3.58976E-04	-1.36127E-01	6.36211E 00	-1.79530E 02
5.70	1.10073E 00	-5.43222E 00	-1.39854E-01	4.03345E-04	-1.39694E-01	6.46712E 00	-1.81061E 02
5.80	1.10067E 00	-5.53687E 00	-1.43680E-01	4.46187E-04	-1.43305E-01	6.57210E 00	-1.82564E 02
5.90	1.10060E 00	-5.64151E 00	-1.47549E-01	4.87599E-04	-1.46958E-01	6.67706E 00	-1.84040E 02
6.00	1.10054E 00	-5.74615E 00	-1.51461E-01	5.27637E-04	-1.50655E-01	6.78199E 00	-1.85489E 02

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z = 4$		$A = 8$		$\rho = 1.2 A^{1/3} F$		Electron	
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$		
0.10	2.56196E-08	-2.23568E-06	-2.04889E-08	3.60148E 00	-3.01922E-07	4.52092E-05	-1.26360E-01		
0.20	6.77821E-08	-1.44803E-05	-1.32971E-07	7.28799E 00	-9.81325E-07	1.46537E-04	-6.35976E-02		
0.30	1.32452E-07	-4.47951E-05	-4.12699E-07	1.07975E 01	-2.05501E-06	3.05492E-04	-4.37653E-02		
0.40	2.19623E-07	-1.00197E-04	-9.27229E-07	1.41025E 01	-3.52308E-06	5.20556E-04	-3.43319E-02		
0.50	3.29467E-07	-1.86407E-04	-1.73452E-06	1.71708E 01	-5.38628E-06	7.89906E-04	-2.89980E-02		
0.60	4.62154E-07	-3.07832E-04	-2.88281E-06	1.99850E 01	-7.64674E-06	1.11165E-03	-2.56803E-02		
0.70	6.17830E-07	-4.67702E-04	-4.41165E-06	2.25420E 01	-1.03085E-05	1.48400E-03	-2.34890E-02		
0.80	7.96611E-07	-6.68276E-04	-6.35341E-06	2.48496E 01	-1.33778E-05	1.90539E-03	-2.19814E-02		
0.90	9.98594E-07	-9.11077E-04	-8.73509E-06	2.69228E 01	-1.68626E-05	2.37451E-03	-2.09132E-02		
1.00	1.22385E-06	-1.19709E-03	-1.15797E-05	2.87806E 01	-2.07729E-05	2.89031E-03	-2.01397E-02		
1.10	1.47244E-06	-1.52691E-03	-1.49076E-05	3.04436E 01	-2.51202E-05	3.45195E-03	-1.95702E-02		
1.20	1.74442E-06	-1.90089E-03	-1.87372E-05	3.19325E 01	-2.99169E-05	4.05879E-03	-1.91456E-02		
1.30	2.03980E-06	-2.31923E-03	-2.30858E-05	3.32668E 01	-3.51766E-05	4.71034E-03	-1.88261E-02		
1.40	2.35863E-06	-2.78198E-03	-2.79700E-05	3.44646E 01	-4.09135E-05	5.40624E-03	-1.85841E-02		
1.50	2.70092E-06	-3.28916E-03	-3.34058E-05	3.55419E 01	-4.71422E-05	6.14618E-03	-1.84002E-02		
1.60	-3.06669E-06	-3.84074E-03	-3.94091E-05	3.65134E 01	-5.38779E-05	6.92998E-03	-1.82602E-02		
1.70	3.45595E-06	-4.43666E-03	-4.59954E-05	3.73915E 01	-6.11361E-05	7.75748E-03	-1.81540E-02		
1.80	3.86872E-06	-5.07687E-03	-5.31804E-05	3.81875E 01	-6.89323E-05	8.62856E-03	-1.80738E-02		
1.90	4.30500E-06	-5.76128E-03	-6.09797E-05	3.89110E 01	-7.72824E-05	9.54313E-03	-1.80140E-02		
2.00	4.76480E-06	-6.48983E-03	-6.94090E-05	3.95704E 01	-8.62021E-05	1.05011E-02	-1.79700E-02		
2.10	5.24812E-06	-7.26246E-03	-7.84837E-05	4.01731E 01	-9.57076E-05	1.15025E-02	-1.79387E-02		
2.20	5.75497E-06	-8.07910E-03	-8.82197E-05	4.07252E 01	-1.05815E-04	1.25472E-02	-1.79173E-02		
2.30	6.28535E-06	-8.93969E-03	-9.86327E-05	4.12325E 01	-1.16540E-04	1.36353E-02	-1.79038E-02		
2.40	6.83927E-06	-9.84419E-03	-1.09738E-04	4.16997E 01	-1.27899E-04	1.47667E-02	-1.78966E-02		
2.50	7.41672E-06	-1.07925E-02	-1.21552E-04	4.21310E 01	-1.39908E-04	1.59413E-02	-1.78945E-02		
2.60	8.01771E-06	-1.17847E-02	-1.34091E-04	4.25301E 01	-1.52583E-04	1.71593E-02	-1.78964E-02		
2.70	8.64224E-06	-1.28206E-02	-1.47369E-04	4.29003E 01	-1.65941E-04	1.84205E-02	-1.79016E-02		
2.80	9.29032E-06	-1.39003E-02	-1.61404E-04	4.32443E 01	-1.79997E-04	1.97250E-02	-1.79093E-02		
2.90	9.96193E-06	-1.50237E-02	-1.76211E-04	4.35646E 01	-1.94768E-04	2.10728E-02	-1.79191E-02		
3.00	1.06571E-05	-1.61907E-02	-1.91805E-04	4.38636E 01	-2.10270E-04	2.24638E-02	-1.79305E-02		
3.10	1.13758E-05	-1.74014E-02	-2.08204E-04	4.41431E 01	-2.26519E-04	2.38981E-02	-1.79431E-02		
3.20	1.21180E-05	-1.86557E-02	-2.25422E-04	4.44049E 01	-2.43531E-04	2.53757E-02	-1.79568E-02		
3.30	1.28838E-05	-1.99536E-02	-2.43476E-04	4.46505E 01	-2.61323E-04	2.68966E-02	-1.79712E-02		
3.40	1.36732E-05	-2.12951E-02	-2.62382E-04	4.48813E 01	-2.79911E-04	2.84607E-02	-1.79861E-02		
3.50	1.44861E-05	-2.26801E-02	-2.82156E-04	4.50985E 01	-2.99310E-04	3.00681E-02	-1.80015E-02		
3.60	1.53225E-05	-2.41087E-02	-3.02814E-04	4.53033E 01	-3.19538E-04	3.17188E-02	-1.80172E-02		
3.70	1.61825E-05	-2.55808E-02	-3.24372E-04	4.54967E 01	-3.40610E-04	3.34127E-02	-1.80330E-02		
3.80	1.70660E-05	-2.70964E-02	-3.46846E-04	4.56794E 01	-3.62542E-04	3.51500E-02	-1.80489E-02		
3.90	1.79730E-05	-2.86555E-02	-3.70251E-04	4.58524E 01	-3.85351E-04	3.69305E-02	-1.80648E-02		
4.00	1.89037E-05	-3.02581E-02	-3.94606E-04	4.60164E 01	-4.09052E-04	3.87543E-02	-1.80807E-02		
4.10	1.98578E-05	-3.19042E-02	-4.19924E-04	4.61720E 01	-4.33662E-04	4.06213E-02	-1.80965E-02		
4.20	2.08355E-05	-3.35937E-02	-4.46223E-04	4.63199E 01	-4.59198E-04	4.25317E-02	-1.81122E-02		
4.30	2.18368E-05	-3.53268E-02	-4.73518E-04	4.64605E 01	-4.85675E-04	4.44853E-02	-1.81277E-02		
4.40	2.28616E-05	-3.71032E-02	-5.01825E-04	4.65944E 01	-5.13109E-04	4.64822E-02	-1.81430E-02		
4.50	2.39099E-05	-3.89231E-02	-5.31162E-04	4.67221E 01	-5.41517E-04	4.85224E-02	-1.81581E-02		
4.60	2.49818E-05	-4.07864E-02	-5.61542E-04	4.68439E 01	-5.70914E-04	5.06058E-02	-1.81730E-02		
4.70	2.60772E-05	-4.26931E-02	-5.92984E-04	4.69602E 01	-6.01318E-04	5.27326E-02	-1.81876E-02		
4.80	2.71962E-05	-4.46432E-02	-6.25503E-04	4.70714E 01	-6.32743E-04	5.49026E-02	-1.82021E-02		
4.90	2.83387E-05	-4.66368E-02	-6.59114E-04	4.71778E 01	-6.65207E-04	5.71159E-02	-1.82162E-02		
5.00	2.95048E-05	-4.86737E-02	-6.93835E-04	4.72797E 01	-6.98725E-04	5.93725E-02	-1.82301E-02		
5.10	3.06944E-05	-5.07540E-02	-7.29681E-04	4.73773E 01	-7.33314E-04	6.16724E-02	-1.82438E-02		
5.20	3.19076E-05	-5.28778E-02	-7.66668E-04	4.74710E 01	-7.68990E-04	6.40156E-02	-1.82572E-02		
5.30	3.31443E-05	-5.50449E-02	-8.04813E-04	4.75609E 01	-8.05768E-04	6.64020E-02	-1.82703E-02		
5.40	3.44046E-05	-5.72553E-02	-8.44131E-04	4.76473E 01	-8.43665E-04	6.88317E-02	-1.82832E-02		
5.50	3.56884E-05	-5.95092E-02	-8.84639E-04	4.77304E 01	-8.82697E-04	7.13047E-02	-1.82959E-02		
5.60	3.69957E-05	-6.18064E-02	-9.26353E-04	4.78103E 01	-9.22881E-04	7.38209E-02	-1.83083E-02		
5.70	3.83266E-05	-6.41470E-02	-9.69288E-04	4.78872E 01	-9.64232E-04	7.63805E-02	-1.83204E-02		
5.80	3.96810E-05	-6.65309E-02	-1.01346E-03	4.79614E 01	-1.00677E-03	7.89833E-02	-1.83323E-02		
5.90	4.10590E-05	-6.89582E-02	-1.05889E-03	4.80328E 01	-1.05050E-03	8.16293E-02	-1.83440E-02		
6.00	4.24605E-05	-7.14288E-02	-1.10559E-03	4.81017E 01	-1.09545E-03	8.43187E-02	-1.83554E-02		



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=4$		$A=8$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	1.10048E 00	-5.85078E 00	-1.55416E-01	5.66373E-04	-1.54394E-01	6.88690E 00	-1.86912E 02	02
6.20	1.10042E 00	-5.95540E 00	-1.59414E-01	6.03869E-04	-1.58177E-01	6.99179E 00	-1.88309E 02	02
6.30	1.10037E 00	-6.06002E 00	-1.63456E-01	6.40180E-04	-1.62002E-01	7.09665E 00	-1.89682E 02	02
6.40	1.10032E 00	-6.16462E 00	-1.67541E-01	6.75361E-04	-1.65871E-01	7.20150E 00	-1.91032E 02	02
6.50	1.10027E 00	-6.26922E 00	-1.71668E-01	7.09468E-04	-1.69783E-01	7.30632E 00	-1.92358E 02	02
6.60	1.10022E 00	-6.37381E 00	-1.75839E-01	7.42545E-04	-1.73738E-01	7.41112E 00	-1.93661E 02	02
6.70	1.10017E 00	-6.47840E 00	-1.80054E-01	7.74643E-04	-1.77736E-01	7.51591E 00	-1.94942E 02	02
6.80	1.10013E 00	-6.58297E 00	-1.84311E-01	8.05794E-04	-1.81777E-01	7.62067E 00	-1.96202E 02	02
6.90	1.10008E 00	-6.68754E 00	-1.88611E-01	8.36050E-04	-1.85861E-01	7.72542E 00	-1.97441E 02	02
7.00	1.10004E 00	-6.79209E 00	-1.92955E-01	8.65441E-04	-1.89988E-01	7.83014E 00	-1.98759E 02	02
7.10	1.10000E 00	-6.89664E 00	-1.97341E-01	8.94011E-04	-1.94158E-01	7.93485E 00	-1.99858E 02	02
7.20	1.09996E 00	-7.00118E 00	-2.01771E-01	9.21788E-04	-1.98372E-01	8.03955E 00	-2.01037E 02	02
7.30	1.09992E 00	-7.10572E 00	-2.06244E-01	9.48804E-04	-2.02628E-01	8.14423E 00	-2.02197E 02	02
7.40	1.09988E 00	-7.21024E 00	-2.10760E-01	9.75090E-04	-2.06928E-01	8.24889E 00	-2.03339E 02	02
7.50	1.09985E 00	-7.31476E 00	-2.15319E-01	1.00067E-03	-2.11270E-01	8.35354E 00	-2.04463E 02	02
7.60	1.09981E 00	-7.41927E 00	-2.19922E-01	1.02559E-03	-2.15656E-01	8.45817E 00	-2.05569E 02	02
7.70	1.09978E 00	-7.52377E 00	-2.24567E-01	1.04985E-03	-2.20085E-01	8.56279E 00	-2.06659E 02	02
7.80	1.09974E 00	-7.62826E 00	-2.29255E-01	1.07349E-03	-2.24556E-01	8.66739E 00	-2.07731E 02	02
7.90	1.09971E 00	-7.73274E 00	-2.33987E-01	1.09653E-03	-2.29071E-01	8.77198E 00	-2.08787E 02	02
8.00	1.09968E 00	-7.83722E 00	-2.38762E-01	1.11900E-03	-2.33629E-01	8.87655E 00	-2.09828E 02	02
8.10	1.09965E 00	-7.94168E 00	-2.43580E-01	1.14090E-03	-2.38230E-01	8.98111E 00	-2.10853E 02	02
8.20	1.09962E 00	-8.04614E 00	-2.48441E-01	1.16228E-03	-2.42875E-01	9.08566E 00	-2.11862E 02	02
8.30	1.09959E 00	-8.15058E 00	-2.53345E-01	1.18313E-03	-2.47562E-01	9.19019E 00	-2.12857E 02	02
8.40	1.09957E 00	-8.25502E 00	-2.58292E-01	1.20348E-03	-2.52292E-01	9.29471E 00	-2.13837E 02	02
8.50	1.09954E 00	-8.35945E 00	-2.63282E-01	1.22336E-03	-2.57065E-01	9.39922E 00	-2.14803E 02	02
8.60	1.09951E 00	-8.46388E 00	-2.68315E-01	1.24276E-03	-2.61882E-01	9.50371E 00	-2.15755E 02	02
8.70	1.09949E 00	-8.56829E 00	-2.73392E-01	1.26172E-03	-2.66741E-01	9.60819E 00	-2.16694E 02	02
8.80	1.09946E 00	-8.67269E 00	-2.78511E-01	1.28025E-03	-2.71644E-01	9.71266E 00	-2.17620E 02	02
8.90	1.09944E 00	-8.77709E 00	-2.83674E-01	1.29836E-03	-2.76589E-01	9.81712E 00	-2.18532E 02	02
9.00	1.09941E 00	-8.88148E 00	-2.88879E-01	1.31605E-03	-2.81578E-01	9.92156E 00	-2.19432E 02	02
9.10	1.09939E 00	-8.98585E 00	-2.94128E-01	1.33336E-03	-2.86610E-01	1.00260E 01	-2.20320E 02	02
9.20	1.09937E 00	-9.09022E 00	-2.99420E-01	1.35029E-03	-2.91685E-01	1.01304E 01	-2.21195E 02	02
9.30	1.09934E 00	-9.19458E 00	-3.04754E-01	1.36685E-03	-2.96802E-01	1.02348E 01	-2.22059E 02	02
9.40	1.09932E 00	-9.29894E 00	-3.10132E-01	1.38305E-03	-3.01963E-01	1.03392E 01	-2.22911E 02	02
9.50	1.09930E 00	-9.40328E 00	-3.15553E-01	1.39891E-03	-3.07167E-01	1.04436E 01	-2.23751E 02	02
9.60	1.09928E 00	-9.50761E 00	-3.21017E-01	1.41443E-03	-3.12414E-01	1.05480E 01	-2.24581E 02	02
9.70	1.09926E 00	-9.61194E 00	-3.26524E-01	1.42963E-03	-3.17704E-01	1.06523E 01	-2.25399E 02	02
9.80	1.09924E 00	-9.71625E 00	-3.32074E-01	1.44451E-03	-3.23037E-01	1.07567E 01	-2.26207E 02	02
9.90	1.09922E 00	-9.82056E 00	-3.37667E-01	1.45909E-03	-3.28413E-01	1.08610E 01	-2.27005E 02	02
10.00	1.09920E 00	-9.92486E 00	-3.43303E-01	1.47337E-03	-3.33832E-01	1.09653E 01	-2.27793E 02	02
10.10	1.09918E 00	-1.00291E 01	-3.48982E-01	1.48736E-03	-3.39295E-01	1.10697E 01	-2.28570E 02	02
10.20	1.09916E 00	-1.01334E 01	-3.54705E-01	1.50107E-03	-3.44800E-01	1.11740E 01	-2.29338E 02	02
10.30	1.09914E 00	-1.02377E 01	-3.60470E-01	1.51452E-03	-3.50348E-01	1.12783E 01	-2.30096E 02	02
10.40	1.09913E 00	-1.03420E 01	-3.66278E-01	1.52770E-03	-3.55939E-01	1.13825E 01	-2.30844E 02	02
10.50	1.09911E 00	-1.04462E 01	-3.72129E-01	1.54062E-03	-3.61573E-01	1.14868E 01	-2.31584E 02	02
10.60	1.09909E 00	-1.05505E 01	-3.78023E-01	1.55329E-03	-3.67250E-01	1.15911E 01	-2.32314E 02	02
10.70	1.09907E 00	-1.06547E 01	-3.83961E-01	1.56572E-03	-3.72971E-01	1.16953E 01	-2.33036E 02	02
10.80	1.09906E 00	-1.07589E 01	-3.89941E-01	1.57792E-03	-3.78734E-01	1.17996E 01	-2.33749E 02	02
10.90	1.09904E 00	-1.08631E 01	-3.95964E-01	1.58989E-03	-3.84540E-01	1.19038E 01	-2.34453E 02	02
11.00	1.09903E 00	-1.09673E 01	-4.02030E-01	1.60163E-03	-3.90389E-01	1.20080E 01	-2.35149E 02	02
11.10	1.09901E 00	-1.10715E 01	-4.08140E-01	1.61316E-03	-3.96281E-01	1.21122E 01	-2.35837E 02	02
11.20	1.09899E 00	-1.11757E 01	-4.14292E-01	1.62447E-03	-4.02217E-01	1.22164E 01	-2.36517E 02	02
11.30	1.09898E 00	-1.12799E 01	-4.20487E-01	1.63558E-03	-4.08195E-01	1.23206E 01	-2.37189E 02	02
11.40	1.09896E 00	-1.13841E 01	-4.26725E-01	1.64649E-03	-4.14216E-01	1.24248E 01	-2.37854E 02	02
11.50	1.09895E 00	-1.14882E 01	-4.33006E-01	1.65720E-03	-4.20280E-01	1.25289E 01	-2.38510E 02	02
11.60	1.09894E 00	-1.15924E 01	-4.39330E-01	1.66772E-03	-4.26387E-01	1.26331E 01	-2.39160E 02	02
11.70	1.09892E 00	-1.16965E 01	-4.45698E-01	1.67806E-03	-4.32537E-01	1.27372E 01	-2.39802E 02	02
11.80	1.09891E 00	-1.18007E 01	-4.52107E-01	1.68821E-03	-4.38730E-01	1.28413E 01	-2.40437E 02	02
11.90	1.09889E 00	-1.19048E 01	-4.58560E-01	1.69819E-03	-4.44966E-01	1.29455E 01	-2.41065E 02	02
12.00	1.09888E 00	-1.20089E 01	-4.65056E-01	1.70800E-03	-4.51245E-01	1.30496E 01	-2.41686E 02	02

## ELECTRON RADIAL FUNCTIONS

$\rho$	$Z=4$		$A=8$		$\rho=1.2A^{1/3}F$		Electron	
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$	
6.10	4.38856E-05	-7.39428E-02	-1.15357E-03	4.81682E 01	-1.14163E-03	8.70513E-02	-1.83666E-02	
6.20	4.53342E-05	-7.65001E-02	-1.20286E-03	4.82324E 01	-1.18906E-03	8.98272E-02	-1.83775E-02	
6.30	4.68063E-05	-7.91007E-02	-1.25346E-03	4.82945E 01	-1.23776E-03	9.26463E-02	-1.83883E-02	
6.40	4.83020E-05	-8.17447E-02	-1.30540E-03	4.83545E 01	-1.28773E-03	9.55088E-02	-1.83988E-02	
6.50	4.98213E-05	-8.44320E-02	-1.35869E-03	4.84125E 01	-1.33900E-03	9.84144E-02	-1.84091E-02	
6.60	5.13641E-05	-8.71626E-02	-1.41335E-03	4.84686E 01	-1.39159E-03	1.01363E-01	-1.84192E-02	
6.70	5.29304E-05	-8.99365E-02	-1.46939E-03	4.85230E 01	-1.44550E-03	1.04356E-01	-1.84291E-02	
6.80	5.45203E-05	-9.27538E-02	-1.52683E-03	4.85757E 01	-1.50076E-03	1.07391E-01	-1.84388E-02	
6.90	5.61337E-05	-9.56143E-02	-1.58569E-03	4.86267E 01	-1.55737E-03	1.10470E-01	-1.84483E-02	
7.00	5.77706E-05	-9.85181E-02	-1.64597E-03	4.86762E 01	-1.61537E-03	1.13592E-01	-1.84577E-02	
7.10	5.94311E-05	-1.01465E-01	-1.70770E-03	4.87242E 01	-1.67476E-03	1.16757E-01	-1.84668E-02	
7.20	6.11151E-05	-1.04456E-01	-1.77090E-03	4.87708E 01	-1.73556E-03	1.19965E-01	-1.84758E-02	
7.30	6.28227E-05	-1.07490E-01	-1.83558E-03	4.88160E 01	-1.79778E-03	1.23217E-01	-1.84845E-02	
7.40	6.45539E-05	-1.10567E-01	-1.90175E-03	4.88600E 01	-1.86144E-03	1.26512E-01	-1.84931E-02	
7.50	6.63085E-05	-1.13687E-01	-1.96943E-03	4.89027E 01	-1.92657E-03	1.29850E-01	-1.85016E-02	
7.60	6.80867E-05	-1.16851E-01	-2.03865E-03	4.89441E 01	-1.99316E-03	1.33232E-01	-1.85099E-02	
7.70	6.98885E-05	-1.20057E-01	-2.10940E-03	4.89845E 01	-2.06125E-03	1.36656E-01	-1.85180E-02	
7.80	7.17138E-05	-1.23308E-01	-2.18172E-03	4.90237E 01	-2.13084E-03	1.40124E-01	-1.85260E-02	
7.90	7.35626E-05	-1.26601E-01	-2.25561E-03	4.90619E 01	-2.20196E-03	1.43635E-01	-1.85338E-02	
8.00	7.54350E-05	-1.29938E-01	-2.33110E-03	4.90991E 01	-2.27461E-03	1.47190E-01	-1.85414E-02	
8.10	7.73309E-05	-1.33318E-01	-2.40819E-03	4.91353E 01	-2.34882E-03	1.50787E-01	-1.85490E-02	
8.20	7.92504E-05	-1.36741E-01	-2.48691E-03	4.91705E 01	-2.42459E-03	1.54428E-01	-1.85564E-02	
8.30	8.11934E-05	-1.40208E-01	-2.56727E-03	4.92049E 01	-2.50196E-03	1.58112E-01	-1.85636E-02	
8.40	8.31599E-05	-1.43717E-01	-2.64928E-03	4.92384E 01	-2.58092E-03	1.61840E-01	-1.85707E-02	
8.50	8.51500E-05	-1.47270E-01	-2.73297E-03	4.92710E 01	-2.66151E-03	1.65610E-01	-1.85777E-02	
8.60	8.71636E-05	-1.50867E-01	-2.81835E-03	4.93029E 01	-2.74373E-03	1.69424E-01	-1.85846E-02	
8.70	8.92008E-05	-1.54506E-01	-2.90543E-03	4.93340E 01	-2.82760E-03	1.73281E-01	-1.85913E-02	
8.80	9.12615E-05	-1.58189E-01	-2.99423E-03	4.93643E 01	-2.91314E-03	1.77181E-01	-1.85979E-02	
8.90	9.33458E-05	-1.61915E-01	-3.08477E-03	4.93939E 01	-3.00036E-03	1.81124E-01	-1.86045E-02	
9.00	9.54536E-05	-1.65684E-01	-3.17706E-03	4.94228E 01	-3.08928E-03	1.85111E-01	-1.86108E-02	
9.10	9.75849E-05	-1.69497E-01	-3.27113E-03	4.94510E 01	-3.17992E-03	1.89141E-01	-1.86171E-02	
9.20	9.97398E-05	-1.73352E-01	-3.36697E-03	4.94786E 01	-3.27229E-03	1.93214E-01	-1.86233E-02	
9.30	1.01918E-04	-1.77251E-01	-3.46462E-03	4.95055E 01	-3.36640E-03	1.97330E-01	-1.86294E-02	
9.40	1.04120E-04	-1.81193E-01	-3.56409E-03	4.95319E 01	-3.46228E-03	2.01489E-01	-1.86353E-02	
9.50	1.06346E-04	-1.85179E-01	-3.66539E-03	4.95576E 01	-3.55994E-03	2.05692E-01	-1.86412E-02	
9.60	1.08595E-04	-1.89207E-01	-3.76854E-03	4.95828E 01	-3.65939E-03	2.09937E-01	-1.86469E-02	
9.70	1.10867E-04	-1.93279E-01	-3.87356E-03	4.96074E 01	-3.76066E-03	2.14226E-01	-1.86526E-02	
9.80	1.13163E-04	-1.97394E-01	-3.98046E-03	4.96315E 01	-3.86375E-03	2.18558E-01	-1.86582E-02	
9.90	1.15483E-04	-2.01552E-01	-4.08926E-03	4.96551E 01	-3.96869E-03	2.22934E-01	-1.86636E-02	
10.00	1.17826E-04	-2.05754E-01	-4.19997E-03	4.96782E 01	-4.07549E-03	2.27352E-01	-1.86690E-02	
10.10	1.20193E-04	-2.09998E-01	-4.31261E-03	4.97008E 01	-4.18417E-03	2.31814E-01	-1.86743E-02	
10.20	1.22583E-04	-2.14286E-01	-4.42719E-03	4.97229E 01	-4.29473E-03	2.36319E-01	-1.86796E-02	
10.30	1.24997E-04	-2.18617E-01	-4.54374E-03	4.97446E 01	-4.40721E-03	2.40867E-01	-1.86847E-02	
10.40	1.27434E-04	-2.22991E-01	-4.66227E-03	4.97659E 01	-4.52161E-03	2.45458E-01	-1.86897E-02	
10.50	1.29895E-04	-2.27409E-01	-4.78279E-03	4.97867E 01	-4.63795E-03	2.50092E-01	-1.86947E-02	
10.60	1.32380E-04	-2.31869E-01	-4.90532E-03	4.98071E 01	-4.75624E-03	2.54769E-01	-1.86996E-02	
10.70	1.34888E-04	-2.36373E-01	-5.02988E-03	4.98271E 01	-4.87651E-03	2.59490E-01	-1.87044E-02	
10.80	1.37419E-04	-2.40920E-01	-5.15648E-03	4.98467E 01	-4.99877E-03	2.64254E-01	-1.87092E-02	
10.90	1.39974E-04	-2.45510E-01	-5.28515E-03	4.98659E 01	-5.12303E-03	2.69061E-01	-1.87138E-02	
11.00	1.42553E-04	-2.50144E-01	-5.41588E-03	4.98847E 01	-5.24932E-03	2.73911E-01	-1.87184E-02	
11.10	1.45155E-04	-2.54820E-01	-5.54871E-03	4.99032E 01	-5.37764E-03	2.78804E-01	-1.87230E-02	
11.20	1.47780E-04	-2.59540E-01	-5.68364E-03	4.99214E 01	-5.50801E-03	2.83740E-01	-1.87274E-02	
11.30	1.50430E-04	-2.64302E-01	-5.82069E-03	4.99392E 01	-5.64045E-03	2.88720E-01	-1.87318E-02	
11.40	1.53102E-04	-2.69108E-01	-5.95989E-03	4.99567E 01	-5.77498E-03	2.93742E-01	-1.87361E-02	
11.50	1.55799E-04	-2.73957E-01	-6.10124E-03	4.99738E 01	-5.91161E-03	2.98808E-01	-1.87404E-02	
11.60	1.58518E-04	-2.78849E-01	-6.24476E-03	4.99907E 01	-6.05035E-03	3.03917E-01	-1.87446E-02	
11.70	1.61262E-04	-2.83785E-01	-6.39047E-03	5.00072E 01	-6.19123E-03	3.09069E-01	-1.87487E-02	
11.80	1.64029E-04	-2.88763E-01	-6.53838E-03	5.00234E 01	-6.33426E-03	3.14264E-01	-1.87528E-02	
11.90	1.66819E-04	-2.93785E-01	-6.68851E-03	5.00394E 01	-6.47945E-03	3.19502E-01	-1.87569E-02	
12.00	1.69633E-04	-2.98850E-01	-6.84087E-03	5.00551E 01	-6.62683E-03	3.24784E-01	-1.87608E-02	



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=4$	$A=8$	$\rho = 1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	1.09887E 00	-1.21130E 01	-4.71596E-01	1.71764E-03	-4.57567E-01	1.31537E 01	-2.42300E 02	
12.20	1.09885E 00	-1.22171E 01	-4.78177E-01	1.72711E-03	-4.63932E-01	1.32578E 01	-2.42907E 02	
12.30	1.09884E 00	-1.23212E 01	-4.84882E-01	1.73643E-03	-4.70340E-01	1.33619E 01	-2.43509E 02	
12.40	1.09883E 00	-1.24253E 01	-4.91470E-01	1.74558E-03	-4.76791E-01	1.34659E 01	-2.44103E 02	
12.50	1.09882E 00	-1.25294E 01	-4.98181E-01	1.75459E-03	-4.83285E-01	1.35700E 01	-2.44692E 02	
12.60	1.09880E 00	-1.26334E 01	-5.04934E-01	1.76344E-03	-4.89821E-01	1.36740E 01	-2.45274E 02	
12.70	1.09879E 00	-1.27375E 01	-5.11731E-01	1.77215E-03	-4.96401E-01	1.37781E 01	-2.45850E 02	
12.80	1.09878E 00	-1.28415E 01	-5.18570E-01	1.78072E-03	-5.03023E-01	1.38821E 01	-2.46421E 02	
12.90	1.09877E 00	-1.29455E 01	-5.25452E-01	1.78915E-03	-5.09689E-01	1.39861E 01	-2.46985E 02	
13.00	1.09876E 00	-1.30496E 01	-5.32378E-01	1.79744E-03	-5.16397E-01	1.40901E 01	-2.47544E 02	
13.10	1.09874E 00	-1.31536E 01	-5.39346E-01	1.80560E-03	-5.23148E-01	1.41941E 01	-2.48097E 02	
13.20	1.09873E 00	-1.32576E 01	-5.46357E-01	1.81363E-03	-5.29942E-01	1.42981E 01	-2.48644E 02	
13.30	1.09872E 00	-1.33616E 01	-5.53411E-01	1.82153E-03	-5.36779E-01	1.44021E 01	-2.49187E 02	
13.40	1.09871E 00	-1.34655E 01	-5.60507E-01	1.82931E-03	-5.43659E-01	1.45060E 01	-2.49723E 02	
13.50	1.09870E 00	-1.35695E 01	-5.67647E-01	1.83696E-03	-5.50582E-01	1.46100E 01	-2.50255E 02	
13.60	1.09869E 00	-1.36735E 01	-5.74830E-01	1.84450E-03	-5.57547E-01	1.47139E 01	-2.50781E 02	
13.70	1.09868E 00	-1.37774E 01	-5.82055E-01	1.85192E-03	-5.64556E-01	1.48179E 01	-2.51302E 02	
13.80	1.09867E 00	-1.38814E 01	-5.89323E-01	1.85923E-03	-5.71607E-01	1.49218E 01	-2.51818E 02	
13.90	1.09866E 00	-1.39853E 01	-5.96635E-01	1.86642E-03	-5.78702E-01	1.50257E 01	-2.52330E 02	
14.00	1.09865E 00	-1.40892E 01	-6.03989E-01	1.87350E-03	-5.85839E-01	1.51296E 01	-2.52836E 02	
14.10	1.09864E 00	-1.41931E 01	-6.11386E-01	1.88048E-03	-5.93019E-01	1.52335E 01	-2.53338E 02	
14.20	1.09863E 00	-1.42970E 01	-6.18825E-01	1.88736E-03	-6.00242E-01	1.53374E 01	-2.53835E 02	
14.30	1.09862E 00	-1.44009E 01	-6.26308E-01	1.89413E-03	-6.07508E-01	1.54412E 01	-2.54328E 02	
14.40	1.09861E 00	-1.45048E 01	-6.33833E-01	1.90080E-03	-6.14816E-01	1.55451E 01	-2.54815E 02	
14.50	1.09860E 00	-1.46087E 01	-6.41401E-01	1.90737E-03	-6.22168E-01	1.56489E 01	-2.55299E 02	
14.60	1.09859E 00	-1.47126E 01	-6.49013E-01	1.91384E-03	-6.29562E-01	1.57528E 01	-2.55778E 02	
14.70	1.09858E 00	-1.48164E 01	-6.56666E-01	1.92022E-03	-6.36999E-01	1.58566E 01	-2.56253E 02	
14.80	1.09857E 00	-1.49203E 01	-6.64363E-01	1.92651E-03	-6.44479E-01	1.59604E 01	-2.56724E 02	
14.90	1.09856E 00	-1.50241E 01	-6.72103E-01	1.93271E-03	-6.52002E-01	1.60642E 01	-2.57190E 02	
15.00	1.09855E 00	-1.51279E 01	-6.79885E-01	1.93881E-03	-6.59567E-01	1.61680E 01	-2.57653E 02	
15.10	1.09854E 00	-1.52317E 01	-6.87710E-01	1.94483E-03	-6.67176E-01	1.62718E 01	-2.58111E 02	
15.20	1.09853E 00	-1.53355E 01	-6.95578E-01	1.95076E-03	-6.74827E-01	1.63756E 01	-2.58566E 02	
15.30	1.09852E 00	-1.54393E 01	-7.03489E-01	1.95661E-03	-6.82521E-01	1.64793E 01	-2.59016E 02	
15.40	1.09851E 00	-1.55431E 01	-7.11442E-01	1.96238E-03	-6.90258E-01	1.65831E 01	-2.59463E 02	
15.50	1.09851E 00	-1.56469E 01	-7.19439E-01	1.96806E-03	-6.98037E-01	1.66868E 01	-2.59906E 02	
15.60	1.09850E 00	-1.57506E 01	-7.27478E-01	1.97367E-03	-7.05859E-01	1.67905E 01	-2.60345E 02	
15.70	1.09849E 00	-1.58544E 01	-7.35560E-01	1.97919E-03	-7.13725E-01	1.68942E 01	-2.60781E 02	
15.80	1.09848E 00	-1.59581E 01	-7.43684E-01	1.98465E-03	-7.21632E-01	1.69979E 01	-2.61213E 02	
15.90	1.09847E 00	-1.60618E 01	-7.51852E-01	1.99002E-03	-7.29583E-01	1.71016E 01	-2.61641E 02	
16.00	1.09846E 00	-1.61656E 01	-7.60062E-01	1.99532E-03	-7.37577E-01	1.72053E 01	-2.62066E 02	
16.10	1.09845E 00	-1.62693E 01	-7.68315E-01	2.00055E-03	-7.45613E-01	1.73090E 01	-2.62487E 02	
16.20	1.09845E 00	-1.63730E 01	-7.76610E-01	2.00570E-03	-7.53692E-01	1.74127E 01	-2.62906E 02	
16.30	1.09844E 00	-1.64766E 01	-7.84949E-01	2.01079E-03	-7.61814E-01	1.75163E 01	-2.63321E 02	
16.40	1.09843E 00	-1.65803E 01	-7.93330E-01	2.01581E-03	-7.69978E-01	1.76200E 01	-2.63732E 02	
16.50	1.09842E 00	-1.66840E 01	-8.01754E-01	2.02076E-03	-7.78185E-01	1.77236E 01	-2.64140E 02	
16.60	1.09841E 00	-1.67876E 01	-8.10220E-01	2.02564E-03	-7.86435E-01	1.78272E 01	-2.64546E 02	
16.70	1.09841E 00	-1.68913E 01	-8.18730E-01	2.03046E-03	-7.94728E-01	1.79308E 01	-2.64948E 02	
16.80	1.09840E 00	-1.69949E 01	-8.27282E-01	2.03521E-03	-8.03063E-01	1.80344E 01	-2.65347E 02	
16.90	1.09839E 00	-1.70985E 01	-8.35876E-01	2.03990E-03	-8.11442E-01	1.81380E 01	-2.65743E 02	
17.00	1.09838E 00	-1.72022E 01	-8.44514E-01	2.04453E-03	-8.19862E-01	1.82416E 01	-2.66136E 02	
17.10	1.09838E 00	-1.73058E 01	-8.53194E-01	2.04910E-03	-8.28326E-01	1.83451E 01	-2.66526E 02	
17.20	1.09837E 00	-1.74093E 01	-8.61917E-01	2.05361E-03	-8.36832E-01	1.84487E 01	-2.66913E 02	
17.30	1.09836E 00	-1.75129E 01	-8.70683E-01	2.05806E-03	-8.45381E-01	1.85522E 01	-2.67297E 02	
17.40	1.09836E 00	-1.76165E 01	-8.79491E-01	2.06245E-03	-8.53973E-01	1.86557E 01	-2.67678E 02	
17.50	1.09835E 00	-1.77200E 01	-8.88342E-01	2.06678E-03	-8.62607E-01	1.87593E 01	-2.68057E 02	
17.60	1.09834E 00	-1.78236E 01	-8.97235E-01	2.07106E-03	-8.71285E-01	1.88628E 01	-2.68433E 02	
17.70	1.09833E 00	-1.79271E 01	-9.06171E-01	2.07528E-03	-8.80004E-01	1.89663E 01	-2.68806E 02	
17.80	1.09833E 00	-1.80307E 01	-9.15150E-01	2.07944E-03	-8.88767E-01	1.90697E 01	-2.69177E 02	
17.90	1.09832E 00	-1.81342E 01	-9.24172E-01	2.08355E-03	-8.97572E-01	1.91732E 01	-2.69545E 02	
18.00	1.09831E 00	-1.82377E 01	-9.33236E-01	2.08761E-03	-9.06419E-01	1.92767E 01	-2.69911E 02	

## ELECTRON RADIAL FUNCTIONS

	$Z=4$	$A=8$	$\rho=1.2 A^{1/3} r$			Electron	
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$
12.10	1.72471E-04	-3.03958E-01	-6.99550E-03	5.00705E 01	-6.77641E-03	3.30108E-01	-1.87647E-02
12.20	1.75332E-04	-3.09109E-01	-7.15238E-03	5.00856E 01	-6.92819E-03	3.35476E-01	-1.87686E-02
12.30	1.78216E-04	-3.14303E-01	-7.31155E-03	5.01005E 01	-7.08221E-03	3.40887E-01	-1.87724E-02
12.40	1.81124E-04	-3.19540E-01	-7.47302E-03	5.01151E 01	-7.23847E-03	3.46340E-01	-1.87761E-02
12.50	1.84056E-04	-3.24821E-01	-7.63680E-03	5.01295E 01	-7.39699E-03	3.51837E-01	-1.87798E-02
12.60	1.87011E-04	-3.30144E-01	-7.80291E-03	5.01437E 01	-7.55779E-03	3.57377E-01	-1.87835E-02
12.70	1.89990E-04	-3.35511E-01	-7.97137E-03	5.01576E 01	-7.72089E-03	3.62960E-01	-1.87871E-02
12.80	1.92992E-04	-3.40921E-01	-8.14220E-03	5.01713E 01	-7.88629E-03	3.68586E-01	-1.87906E-02
12.90	1.96018E-04	-3.46373E-01	-8.31540E-03	5.01847E 01	-8.05402E-03	3.74256E-01	-1.87941E-02
13.00	1.99067E-04	-3.51869E-01	-8.49100E-03	5.01979E 01	-8.22409E-03	3.79968E-01	-1.87976E-02
13.10	2.02140E-04	-3.57408E-01	-8.66901E-03	5.02110E 01	-8.39652E-03	3.85723E-01	-1.88010E-02
13.20	2.05237E-04	-3.62990E-01	-8.84945E-03	5.02238E 01	-8.57132E-03	3.91522E-01	-1.88043E-02
13.30	2.08357E-04	-3.68615E-01	-9.03234E-03	5.02364E 01	-8.74852E-03	3.97363E-01	-1.88076E-02
13.40	2.11500E-04	-3.74284E-01	-9.21768E-03	5.02488E 01	-8.92812E-03	4.03248E-01	-1.88109E-02
13.50	2.14667E-04	-3.79995E-01	-9.40550E-03	5.02611E 01	-9.11014E-03	4.09175E-01	-1.88141E-02
13.60	2.17858E-04	-3.85749E-01	-9.59581E-03	5.02731E 01	-9.29459E-03	4.15146E-01	-1.88173E-02
13.70	2.21072E-04	-3.91547E-01	-9.78863E-03	5.02850E 01	-9.48151E-03	4.21160E-01	-1.88205E-02
13.80	2.24309E-04	-3.97387E-01	-9.98397E-03	5.02966E 01	-9.67089E-03	4.27216E-01	-1.88236E-02
13.90	2.27570E-04	-4.03271E-01	-1.01818E-02	5.03081E 01	-9.86276E-03	4.33316E-01	-1.88267E-02
14.00	2.30855E-04	-4.09198E-01	-1.03823E-02	5.03194E 01	-1.00571E-02	4.39459E-01	-1.88297E-02
14.10	2.34163E-04	-4.15167E-01	-1.05853E-02	5.03306E 01	-1.02540E-02	4.45645E-01	-1.88327E-02
14.20	2.37495E-04	-4.21180E-01	-1.07909E-02	5.03416E 01	-1.04534E-02	4.51874E-01	-1.88356E-02
14.30	2.40850E-04	-4.27236E-01	-1.09991E-02	5.03524E 01	-1.06554E-02	4.58146E-01	-1.88385E-02
14.40	2.44229E-04	-4.33335E-01	-1.12099E-02	5.03631E 01	-1.08599E-02	4.64461E-01	-1.88414E-02
14.50	2.47632E-04	-4.39477E-01	-1.14234E-02	5.03736E 01	-1.10671E-02	4.70819E-01	-1.88443E-02
14.60	2.51058E-04	-4.45661E-01	-1.16395E-02	5.03840E 01	-1.12768E-02	4.77220E-01	-1.88471E-02
14.70	2.54507E-04	-4.51889E-01	-1.18583E-02	5.03942E 01	-1.14891E-02	4.83664E-01	-1.88499E-02
14.80	2.57980E-04	-4.58160E-01	-1.20797E-02	5.04043E 01	-1.17041E-02	4.90151E-01	-1.88526E-02
14.90	2.61477E-04	-4.64474E-01	-1.23039E-02	5.04142E 01	-1.19217E-02	4.96681E-01	-1.88553E-02
15.00	2.64997E-04	-4.70831E-01	-1.25307E-02	5.04240E 01	-1.21420E-02	5.03254E-01	-1.88580E-02
15.10	2.68540E-04	-4.77231E-01	-1.27604E-02	5.04337E 01	-1.23649E-02	5.09870E-01	-1.88606E-02
15.20	2.72107E-04	-4.83674E-01	-1.29927E-02	5.04432E 01	-1.25906E-02	5.16529E-01	-1.88633E-02
15.30	2.75698E-04	-4.90160E-01	-1.32278E-02	5.04526E 01	-1.28189E-02	5.23231E-01	-1.88659E-02
15.40	2.79312E-04	-4.96689E-01	-1.34657E-02	5.04618E 01	-1.30500E-02	5.29975E-01	-1.88684E-02
15.50	2.82950E-04	-5.03261E-01	-1.37064E-02	5.04710E 01	-1.32838E-02	5.36763E-01	-1.88709E-02
15.60	2.86611E-04	-5.09876E-01	-1.39499E-02	5.04800E 01	-1.35204E-02	5.43594E-01	-1.88734E-02
15.70	2.90296E-04	-5.16534E-01	-1.41963E-02	5.04889E 01	-1.37597E-02	5.50468E-01	-1.88759E-02
15.80	2.94004E-04	-5.23235E-01	-1.44454E-02	5.04977E 01	-1.40019E-02	5.57385E-01	-1.88783E-02
15.90	2.97736E-04	-5.29979E-01	-1.46975E-02	5.05064E 01	-1.42468E-02	5.64345E-01	-1.88808E-02
16.00	3.01492E-04	-5.36766E-01	-1.49524E-02	5.05149E 01	-1.44946E-02	5.71348E-01	-1.88831E-02
16.10	3.05271E-04	-5.43596E-01	-1.52102E-02	5.05234E 01	-1.47452E-02	5.78393E-01	-1.88855E-02
16.20	3.09073E-04	-5.50469E-01	-1.54709E-02	5.05317E 01	-1.49987E-02	5.85482E-01	-1.88878E-02
16.30	3.12899E-04	-5.57385E-01	-1.57345E-02	5.05399E 01	-1.52550E-02	5.92613E-01	-1.88901E-02
16.40	3.16749E-04	-5.64344E-01	-1.60011E-02	5.05480E 01	-1.55142E-02	5.99788E-01	-1.88924E-02
16.50	3.20622E-04	-5.71345E-01	-1.62706E-02	5.05561E 01	-1.57763E-02	6.07005E-01	-1.88947E-02
16.60	3.24518E-04	-5.78390E-01	-1.65431E-02	5.05640E 01	-1.60414E-02	6.14266E-01	-1.88969E-02
16.70	3.28438E-04	-5.85478E-01	-1.68186E-02	5.05718E 01	-1.63093E-02	6.21569E-01	-1.88991E-02
16.80	3.32382E-04	-5.92608E-01	-1.70971E-02	5.05795E 01	-1.65803E-02	6.28915E-01	-1.89013E-02
16.90	3.36349E-04	-5.99782E-01	-1.73786E-02	5.05872E 01	-1.68541E-02	6.36305E-01	-1.89035E-02
17.00	3.40340E-04	-6.06998E-01	-1.76632E-02	5.05947E 01	-1.71310E-02	6.43737E-01	-1.89056E-02
17.10	3.44355E-04	-6.14258E-01	-1.79508E-02	5.06021E 01	-1.74109E-02	6.51212E-01	-1.89077E-02
17.20	3.48392E-04	-6.21560E-01	-1.82414E-02	5.06095E 01	-1.76938E-02	6.58730E-01	-1.89098E-02
17.30	3.52454E-04	-6.28905E-01	-1.85352E-02	5.06167E 01	-1.79797E-02	6.66290E-01	-1.89119E-02
17.40	3.56539E-04	-6.36293E-01	-1.88320E-02	5.06239E 01	-1.82686E-02	6.73894E-01	-1.89139E-02
17.50	3.60647E-04	-6.43724E-01	-1.91320E-02	5.06310E 01	-1.85606E-02	6.81541E-01	-1.89160E-02
17.60	3.64779E-04	-6.51198E-01	-1.94351E-02	5.06380E 01	-1.88557E-02	6.89230E-01	-1.89180E-02
17.70	3.68934E-04	-6.58715E-01	-1.97413E-02	5.06449E 01	-1.91539E-02	6.96963E-01	-1.89200E-02
17.80	3.73113E-04	-6.66275E-01	-2.00507E-02	5.06518E 01	-1.94552E-02	7.04738E-01	-1.89219E-02
17.90	3.77316E-04	-6.73877E-01	-2.03633E-02	5.06586E 01	-1.97596E-02	7.12556E-01	-1.89239E-02
18.00	3.81542E-04	-6.81523E-01	-2.06791E-02	5.06652E 01	-2.00672E-02	7.20417E-01	-1.89258E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=4$		$A=8$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	1.09831E 00	-1.83412E 01	-9.42343E-01	2.09163E-03	-9.15310E-01	1.93801E 01	-2.70273E 02	
18.20	1.09830E 00	-1.84446E 01	-9.51493E-01	2.09558E-03	-9.24243E-01	1.94836E 01	-2.70634E 02	
18.30	1.09829E 00	-1.85481E 01	-9.60685E-01	2.09949E-03	-9.33219E-01	1.95870E 01	-2.70992E 02	
18.40	1.09829E 00	-1.86516E 01	-9.69920E-01	2.10335E-03	-9.42237E-01	1.96904E 01	-2.71347E 02	
18.50	1.09828E 00	-1.87550E 01	-9.79197E-01	2.10716E-03	-9.51298E-01	1.97938E 01	-2.71700E 02	
18.60	1.09827E 00	-1.88584E 01	-9.88517E-01	2.11092E-03	-9.60402E-01	1.98972E 01	-2.72051E 02	
18.70	1.09827E 00	-1.89619E 01	-9.97880E-01	2.11464E-03	-9.69548E-01	2.00006E 01	-2.72399E 02	
18.80	1.09826E 00	-1.90653E 01	-1.00728E 00	2.11831E-03	-9.78737E-01	2.01039E 01	-2.72746E 02	
18.90	1.09825E 00	-1.91687E 01	-1.01673E 00	2.12193E-03	-9.87968E-01	2.02073E 01	-2.73090E 02	
19.00	1.09825E 00	-1.92721E 01	-1.02622E 00	2.12550E-03	-9.97242E-01	2.03106E 01	-2.73431E 02	
19.10	1.09824E 00	-1.93754E 01	-1.03576E 00	2.12904E-03	-1.00656E 00	2.04140E 01	-2.73771E 02	
19.20	1.09823E 00	-1.94788E 01	-1.04533E 00	2.13252E-03	-1.01592E 00	2.05173E 01	-2.74109E 02	
19.30	1.09823E 00	-1.95822E 01	-1.05495E 00	2.13597E-03	-1.02532E 00	2.06206E 01	-2.74444E 02	
19.40	1.09822E 00	-1.96855E 01	-1.06461E 00	2.13937E-03	-1.03476E 00	2.07239E 01	-2.74777E 02	
19.50	1.09822E 00	-1.97888E 01	-1.07431E 00	2.14273E-03	-1.04425E 00	2.08272E 01	-2.75108E 02	
19.60	1.09821E 00	-1.98921E 01	-1.08406E 00	2.14605E-03	-1.05378E 00	2.09304E 01	-2.75437E 02	
19.70	1.09820E 00	-1.99954E 01	-1.09385E 00	2.14933E-03	-1.06335E 00	2.10337E 01	-2.75764E 02	
19.80	1.09820E 00	-2.00987E 01	-1.10368E 00	2.15257E-03	-1.07297E 00	2.11369E 01	-2.76089E 02	
19.90	1.09819E 00	-2.02020E 01	-1.11355E 00	2.15577E-03	-1.08262E 00	2.12402E 01	-2.76412E 02	
20.00	1.09819E 00	-2.03053E 01	-1.12347E 00	2.15893E-03	-1.09232E 00	2.13434E 01	-2.76733E 02	
20.10	1.09818E 00	-2.04086E 01	-1.13343E 00	2.16205E-03	-1.10207E 00	2.14466E 01	-2.77052E 02	
20.20	1.09817E 00	-2.05118E 01	-1.14343E 00	2.16513E-03	-1.11185E 00	2.15498E 01	-2.77370E 02	
20.30	1.09817E 00	-2.06150E 01	-1.15347E 00	2.16818E-03	-1.12168E 00	2.16530E 01	-2.77685E 02	
20.40	1.09816E 00	-2.07183E 01	-1.16356E 00	2.17119E-03	-1.13155E 00	2.17562E 01	-2.77999E 02	
20.50	1.09816E 00	-2.08215E 01	-1.17369E 00	2.17416E-03	-1.14146E 00	2.18593E 01	-2.78311E 02	
20.60	1.09815E 00	-2.09247E 01	-1.18386E 00	2.17710E-03	-1.15141E 00	2.19625E 01	-2.78621E 02	
20.70	1.09815E 00	-2.10279E 01	-1.19407E 00	2.18000E-03	-1.16141E 00	2.20656E 01	-2.78930E 02	
20.80	1.09814E 00	-2.11310E 01	-1.20433E 00	2.18287E-03	-1.17145E 00	2.21687E 01	-2.79236E 02	
20.90	1.09813E 00	-2.12342E 01	-1.21462E 00	2.18570E-03	-1.18153E 00	2.22719E 01	-2.79541E 02	
21.00	1.09813E 00	-2.13373E 01	-1.22496E 00	2.18849E-03	-1.19166E 00	2.23750E 01	-2.79845E 02	
21.10	1.09812E 00	-2.14405E 01	-1.23535E 00	2.19126E-03	-1.20183E 00	2.24780E 01	-2.80146E 02	
21.20	1.09812E 00	-2.15436E 01	-1.24577E 00	2.19399E-03	-1.21204E 00	2.25811E 01	-2.80446E 02	
21.30	1.09811E 00	-2.16467E 01	-1.25624E 00	2.19669E-03	-1.22229E 00	2.26842E 01	-2.80745E 02	
21.40	1.09811E 00	-2.17498E 01	-1.26675E 00	2.19935E-03	-1.23258E 00	2.27872E 01	-2.81042E 02	
21.50	1.09810E 00	-2.18529E 01	-1.27731E 00	2.20199E-03	-1.24292E 00	2.28903E 01	-2.81337E 02	
21.60	1.09810E 00	-2.19560E 01	-1.28790E 00	2.20459E-03	-1.25330E 00	2.29933E 01	-2.81631E 02	
21.70	1.09809E 00	-2.20590E 01	-1.29854E 00	2.20716E-03	-1.26372E 00	2.30963E 01	-2.81923E 02	
21.80	1.09809E 00	-2.21621E 01	-1.30922E 00	2.20970E-03	-1.27419E 00	2.31993E 01	-2.82214E 02	
21.90	1.09808E 00	-2.22651E 01	-1.31994E 00	2.21221E-03	-1.28469E 00	2.33023E 01	-2.82503E 02	
22.00	1.09808E 00	-2.23681E 01	-1.33071E 00	2.21469E-03	-1.29524E 00	2.34052E 01	-2.82791E 02	
22.10	1.09807E 00	-2.24712E 01	-1.34152E 00	2.21714E-03	-1.30583E 00	2.35082E 01	-2.83077E 02	
22.20	1.09806E 00	-2.25742E 01	-1.35237E 00	2.21956E-03	-1.31647E 00	2.36112E 01	-2.83362E 02	
22.30	1.09806E 00	-2.26771E 01	-1.36326E 00	2.22196E-03	-1.32714E 00	2.37141E 01	-2.83645E 02	
22.40	1.09805E 00	-2.27801E 01	-1.37419E 00	2.22432E-03	-1.33786E 00	2.38170E 01	-2.83928E 02	
22.50	1.09805E 00	-2.28831E 01	-1.38517E 00	2.22666E-03	-1.34862E 00	2.39199E 01	-2.84209E 02	
22.60	1.09804E 00	-2.29860E 01	-1.39619E 00	2.22896E-03	-1.35943E 00	2.40228E 01	-2.84488E 02	
22.70	1.09804E 00	-2.30890E 01	-1.40725E 00	2.23125E-03	-1.37027E 00	2.41257E 01	-2.84766E 02	
22.80	1.09803E 00	-2.31919E 01	-1.41836E 00	2.23350E-03	-1.38116E 00	2.42286E 01	-2.85043E 02	
22.90	1.09803E 00	-2.32948E 01	-1.42950E 00	2.23573E-03	-1.39209E 00	2.43314E 01	-2.85319E 02	
23.00	1.09803E 00	-2.33977E 01	-1.44069E 00	2.23793E-03	-1.40307E 00	2.44343E 01	-2.85593E 02	
23.10	1.09802E 00	-2.35006E 01	-1.45192E 00	2.24010E-03	-1.41408E 00	2.45371E 01	-2.85866E 02	
23.20	1.09802E 00	-2.36035E 01	-1.46320E 00	2.24225E-03	-1.42514E 00	2.46399E 01	-2.86138E 02	
23.30	1.09801E 00	-2.37063E 01	-1.47451E 00	2.24437E-03	-1.43624E 00	2.47427E 01	-2.86408E 02	
23.40	1.09801E 00	-2.38092E 01	-1.48587E 00	2.24647E-03	-1.44738E 00	2.48455E 01	-2.86678E 02	
23.50	1.09800E 00	-2.39120E 01	-1.49727E 00	2.24854E-03	-1.45857E 00	2.49483E 01	-2.86946E 02	
23.60	1.09800E 00	-2.40148E 01	-1.50871E 00	2.25059E-03	-1.46979E 00	2.50510E 01	-2.87213E 02	
23.70	1.09799E 00	-2.41176E 01	-1.52020E 00	2.25261E-03	-1.48106E 00	2.51538E 01	-2.87479E 02	
23.80	1.09799E 00	-2.42204E 01	-1.53173E 00	2.25461E-03	-1.49237E 00	2.52565E 01	-2.87744E 02	
23.90	1.09798E 00	-2.43232E 01	-1.54330E 00	2.25659E-03	-1.50373E 00	2.53592E 01	-2.88007E 02	
24.00	1.09798E 00	-2.44259E 01	-1.55491E 00	2.25854E-03	-1.51512E 00	2.54619E 01	-2.88269E 02	

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	Electron						
		$Z=4$	$A=8$	$\rho=1.2A^{1/3}F$	$f_2$	$g_2$	$\tan \delta_2$	
18.10	3.85792E-04	-6.89211E-01	-2.09981E-02	5.06718E 01	-2.03779E-02	7.28321E-01	-1.89277E-02	
18.20	3.90065E-04	-6.96943E-01	-2.13203E-02	5.06784E 01	-2.06918E-02	7.36268E-01	-1.89296E-02	
18.30	3.94362E-04	-7.04717E-01	-2.16458E-02	5.06848E 01	-2.10089E-02	7.44257E-01	-1.89315E-02	
18.40	3.98682E-04	-7.12534E-01	-2.19745E-02	5.06912E 01	-2.13292E-02	7.52290E-01	-1.89333E-02	
18.50	4.03026E-04	-7.20394E-01	-2.23065E-02	5.06975E 01	-2.16527E-02	7.60365E-01	-1.89351E-02	
18.60	4.07393E-04	-7.28296E-01	-2.26417E-02	5.07038E 01	-2.19794E-02	7.68483E-01	-1.89370E-02	
18.70	4.11784E-04	-7.36241E-01	-2.29803E-02	5.07100E 01	-2.23094E-02	7.76643E-01	-1.89388E-02	
18.80	4.16198E-04	-7.44230E-01	-2.33222E-02	5.07161E 01	-2.26426E-02	7.84847E-01	-1.89405E-02	
18.90	4.20636E-04	-7.52261E-01	-2.36675E-02	5.07221E 01	-2.29792E-02	7.93094E-01	-1.89423E-02	
19.00	4.25097E-04	-7.60335E-01	-2.40161E-02	5.07281E 01	-2.33190E-02	8.01383E-01	-1.89440E-02	
19.10	4.29582E-04	-7.68452E-01	-2.43680E-02	5.07340E 01	-2.36622E-02	8.09715E-01	-1.89458E-02	
19.20	4.34091E-04	-7.76612E-01	-2.47234E-02	5.07398E 01	-2.40087E-02	8.18090E-01	-1.89475E-02	
19.30	4.38623E-04	-7.84814E-01	-2.50821E-02	5.07456E 01	-2.43585E-02	8.26508E-01	-1.89492E-02	
19.40	4.43178E-04	-7.93060E-01	-2.54443E-02	5.07513E 01	-2.47117E-02	8.34968E-01	-1.89509E-02	
19.50	4.47757E-04	-8.01348E-01	-2.58099E-02	5.07570E 01	-2.50683E-02	8.43472E-01	-1.89525E-02	
19.60	4.52360E-04	-8.09679E-01	-2.61790E-02	5.07626E 01	-2.54283E-02	8.52018E-01	-1.89542E-02	
19.70	4.56986E-04	-8.18052E-01	-2.65515E-02	5.07681E 01	-2.57917E-02	8.60607E-01	-1.89558E-02	
19.80	4.61636E-04	-8.26469E-01	-2.69275E-02	5.07736E 01	-2.61585E-02	8.69239E-01	-1.89574E-02	
19.90	4.66309E-04	-8.34928E-01	-2.73070E-02	5.07790E 01	-2.65288E-02	8.77913E-01	-1.89590E-02	
20.00	4.71006E-04	-8.43430E-01	-2.76900E-02	5.07844E 01	-2.69025E-02	8.86630E-01	-1.89606E-02	
20.10	4.75726E-04	-8.51975E-01	-2.80765E-02	5.07897E 01	-2.72797E-02	8.95390E-01	-1.89622E-02	
20.20	4.80470E-04	-8.60563E-01	-2.84666E-02	5.07950E 01	-2.76604E-02	9.04193E-01	-1.89637E-02	
20.30	4.85237E-04	-8.69194E-01	-2.88603E-02	5.08002E 01	-2.80446E-02	9.13039E-01	-1.89653E-02	
20.40	4.90028E-04	-8.77867E-01	-2.92575E-02	5.08053E 01	-2.84323E-02	9.21927E-01	-1.89668E-02	
20.50	4.94842E-04	-8.86583E-01	-2.96583E-02	5.08104E 01	-2.88235E-02	9.30858E-01	-1.89683E-02	
20.60	4.99680E-04	-8.95341E-01	-3.00627E-02	5.08154E 01	-2.92184E-02	9.39832E-01	-1.89698E-02	
20.70	5.04542E-04	-9.04143E-01	-3.04707E-02	5.08204E 01	-2.96167E-02	9.48848E-01	-1.89713E-02	
20.80	5.09427E-04	-9.12987E-01	-3.08824E-02	5.08254E 01	-3.00187E-02	9.57907E-01	-1.89728E-02	
20.90	5.14335E-04	-9.21874E-01	-3.12978E-02	5.08303E 01	-3.04243E-02	9.67009E-01	-1.89743E-02	
21.00	5.19268E-04	-9.30804E-01	-3.17168E-02	5.08351E 01	-3.08335E-02	9.76154E-01	-1.89757E-02	
21.10	5.24223E-04	-9.39776E-01	-3.21395E-02	5.08399E 01	-3.12463E-02	9.85341E-01	-1.89772E-02	
21.20	5.29202E-04	-9.48791E-01	-3.25659E-02	5.08447E 01	-3.16627E-02	9.94571E-01	-1.89786E-02	
21.30	5.34205E-04	-9.57849E-01	-3.29960E-02	5.08494E 01	-3.20829E-02	1.00384E 00	-1.89800E-02	
21.40	5.39231E-04	-9.66950E-01	-3.34299E-02	5.08541E 01	-3.25067E-02	1.01316E 00	-1.89814E-02	
21.50	5.44281E-04	-9.76093E-01	-3.38675E-02	5.08587E 01	-3.29342E-02	1.02252E 00	-1.89828E-02	
21.60	5.49354E-04	-9.85279E-01	-3.43088E-02	5.08633E 01	-3.33654E-02	1.03192E 00	-1.89842E-02	
21.70	5.54451E-04	-9.94508E-01	-3.47540E-02	5.08678E 01	-3.38004E-02	1.04136E 00	-1.89855E-02	
21.80	5.59571E-04	-1.00378E 00	-3.52029E-02	5.08723E 01	-3.42391E-02	1.05085E 00	-1.89869E-02	
21.90	5.64715E-04	-1.01309E 00	-3.56557E-02	5.08767E 01	-3.46816E-02	1.06038E 00	-1.89882E-02	
22.00	5.69883E-04	-1.02245E 00	-3.61123E-02	5.08811E 01	-3.51278E-02	1.06995E 00	-1.89895E-02	
22.10	5.75073E-04	-1.03185E 00	-3.65728E-02	5.08855E 01	-3.55778E-02	1.07956E 00	-1.89909E-02	
22.20	5.80288E-04	-1.04129E 00	-3.70371E-02	5.08898E 01	-3.60317E-02	1.08922E 00	-1.89922E-02	
22.30	5.85526E-04	-1.05078E 00	-3.75052E-02	5.08941E 01	-3.64893E-02	1.09892E 00	-1.89935E-02	
22.40	5.90787E-04	-1.06030E 00	-3.79773E-02	5.08983E 01	-3.69508E-02	1.10866E 00	-1.89948E-02	
22.50	5.96072E-04	-1.06987E 00	-3.84533E-02	5.09025E 01	-3.74162E-02	1.11845E 00	-1.89960E-02	
22.60	6.01381E-04	-1.07949E 00	-3.89332E-02	5.09067E 01	-3.78854E-02	1.12827E 00	-1.89973E-02	
22.70	6.06713E-04	-1.08914E 00	-3.94171E-02	5.09108E 01	-3.83585E-02	1.13814E 00	-1.89985E-02	
22.80	6.12069E-04	-1.09884E 00	-3.99049E-02	5.09149E 01	-3.88356E-02	1.14806E 00	-1.89998E-02	
22.90	6.17448E-04	-1.10858E 00	-4.03967E-02	5.09189E 01	-3.93165E-02	1.15801E 00	-1.90010E-02	
23.00	6.22851E-04	-1.11836E 00	-4.08924E-02	5.09230E 01	-3.98014E-02	1.16801E 00	-1.90022E-02	
23.10	6.28277E-04	-1.12819E 00	-4.13922E-02	5.09269E 01	-4.02902E-02	1.17805E 00	-1.90035E-02	
23.20	6.33727E-04	-1.13806E 00	-4.18960E-02	5.09309E 01	-4.07830E-02	1.18813E 00	-1.90047E-02	
23.30	6.39200E-04	-1.14797E 00	-4.24038E-02	5.09348E 01	-4.12798E-02	1.19826E 00	-1.90059E-02	
23.40	6.44697E-04	-1.15792E 00	-4.29157E-02	5.09386E 01	-4.17805E-02	1.20843E 00	-1.90071E-02	
23.50	6.50217E-04	-1.16792E 00	-4.34316E-02	5.09425E 01	-4.22853E-02	1.21864E 00	-1.90082E-02	
23.60	6.55761E-04	-1.17796E 00	-4.39517E-02	5.09463E 01	-4.27941E-02	1.22889E 00	-1.90094E-02	
23.70	6.61328E-04	-1.18804E 00	-4.44758E-02	5.09501E 01	-4.33070E-02	1.23919E 00	-1.90106E-02	
23.80	6.66919E-04	-1.19816E 00	-4.50040E-02	5.09538E 01	-4.38239E-02	1.24952E 00	-1.90117E-02	
23.90	6.72534E-04	-1.20833E 00	-4.55364E-02	5.09575E 01	-4.43449E-02	1.25991E 00	-1.90128E-02	
24.00	6.78172E-04	-1.21854E 00	-4.60729E-02	5.09612E 01	-4.48700E-02	1.27033E 00	-1.90140E-02	



ELECTRON RADIAL FUNCTIONS

Electron	$Z=4 \quad A=8 \quad \rho=1.2 A^{1/3} F$							
$\rho$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
24.10	1.09797 E 00	-2.45287 E 01	-1.56656 E 00	2.26047 E-03	-1.52656 E 00	2.55646 E 01	-2.88531 E 02	
24.20	1.09797 E 00	-2.46314 E 01	-1.57826 E 00	2.26237 E-03	-1.53804 E 00	2.56673 E 01	-2.88791 E 02	
24.30	1.09796 E 00	-2.47342 E 01	-1.59000 E 00	2.26426 E-03	-1.54957 E 00	2.57700 E 01	-2.89050 E 02	
24.40	1.09796 E 00	-2.48369 E 01	-1.60178 E 00	2.26612 E-03	-1.56113 E 00	2.58727 E 01	-2.89309 E 02	
24.50	1.09796 E 00	-2.49396 E 01	-1.61360 E 00	2.26796 E-03	-1.57274 E 00	2.59753 E 01	-2.89565 E 02	
24.60	1.09795 E 00	-2.50423 E 01	-1.62547 E 00	2.26977 E-03	-1.58439 E 00	2.60779 E 01	-2.89822 E 02	
24.70	1.09795 E 00	-2.51449 E 01	-1.63737 E 00	2.27157 E-03	-1.59608 E 00	2.61805 E 01	-2.90077 E 02	
24.80	1.09794 E 00	-2.52476 E 01	-1.64932 E 00	2.27334 E-03	-1.60781 E 00	2.62831 E 01	-2.90331 E 02	
24.90	1.09794 E 00	-2.53502 E 01	-1.66132 E 00	2.27509 E-03	-1.61959 E 00	2.63857 E 01	-2.90584 E 02	
25.00	1.09793 E 00	-2.54529 E 01	-1.67335 E 00	2.27682 E-03	-1.63141 E 00	2.64883 E 01	-2.90836 E 02	
25.10	1.09793 E 00	-2.55555 E 01	-1.68543 E 00	2.27853 E-03	-1.64327 E 00	2.65908 E 01	-2.91088 E 02	
25.20	1.09792 E 00	-2.56581 E 01	-1.69755 E 00	2.28021 E-03	-1.65517 E 00	2.66934 E 01	-2.91338 E 02	
25.30	1.09792 E 00	-2.57607 E 01	-1.70971 E 00	2.28188 E-03	-1.66712 E 00	2.67959 E 01	-2.91587 E 02	
25.40	1.09792 E 00	-2.58632 E 01	-1.72191 E 00	2.28352 E-03	-1.67911 E 00	2.68984 E 01	-2.91836 E 02	
25.50	1.09791 E 00	-2.59658 E 01	-1.73415 E 00	2.28516 E-03	-1.69114 E 00	2.70009 E 01	-2.92083 E 02	
25.60	1.09791 E 00	-2.60683 E 01	-1.74644 E 00	2.28676 E-03	-1.70321 E 00	2.71034 E 01	-2.92330 E 02	
25.70	1.09790 E 00	-2.61709 E 01	-1.75877 E 00	2.28835 E-03	-1.71532 E 00	2.72059 E 01	-2.92576 E 02	
25.80	1.09790 E 00	-2.62734 E 01	-1.77114 E 00	2.28992 E-03	-1.72748 E 00	2.73083 E 01	-2.92820 E 02	
25.90	1.09789 E 00	-2.63759 E 01	-1.78356 E 00	2.29147 E-03	-1.73968 E 00	2.74108 E 01	-2.93065 E 02	
26.00	1.09789 E 00	-2.64784 E 01	-1.79601 E 00	2.29300 E-03	-1.75192 E 00	2.75132 E 01	-2.93308 E 02	
26.10	1.09789 E 00	-2.65809 E 01	-1.80851 E 00	2.29451 E-03	-1.76420 E 00	2.76156 E 01	-2.93550 E 02	
26.20	1.09788 E 00	-2.66833 E 01	-1.82105 E 00	2.29600 E-03	-1.77652 E 00	2.77180 E 01	-2.93792 E 02	
26.30	1.09788 E 00	-2.67858 E 01	-1.83363 E 00	2.29747 E-03	-1.78889 E 00	2.78204 E 01	-2.94033 E 02	
26.40	1.09787 E 00	-2.68882 E 01	-1.84626 E 00	2.29893 E-03	-1.80130 E 00	2.79228 E 01	-2.94273 E 02	
26.50	1.09787 E 00	-2.69906 E 01	-1.85892 E 00	2.30036 E-03	-1.81375 E 00	2.80252 E 01	-2.94512 E 02	
26.60	1.09787 E 00	-2.70930 E 01	-1.87163 E 00	2.30178 E-03	-1.82624 E 00	2.81275 E 01	-2.94750 E 02	
26.70	1.09786 E 00	-2.71954 E 01	-1.88438 E 00	2.30318 E-03	-1.83878 E 00	2.82298 E 01	-2.94988 E 02	
26.80	1.09786 E 00	-2.72978 E 01	-1.89717 E 00	2.30457 E-03	-1.85136 E 00	2.83321 E 01	-2.95225 E 02	
26.90	1.09785 E 00	-2.74002 E 01	-1.91001 E 00	2.30594 E-03	-1.86397 E 00	2.84344 E 01	-2.95461 E 02	
27.00	1.09785 E 00	-2.75025 E 01	-1.92289 E 00	2.30728 E-03	-1.87664 E 00	2.85367 E 01	-2.95696 E 02	
27.10	1.09785 E 00	-2.76048 E 01	-1.93581 E 00	2.30862 E-03	-1.88934 E 00	2.86390 E 01	-2.95931 E 02	
27.20	1.09784 E 00	-2.77072 E 01	-1.94877 E 00	2.30993 E-03	-1.90209 E 00	2.87413 E 01	-2.96165 E 02	
27.30	1.09784 E 00	-2.78095 E 01	-1.96177 E 00	2.31123 E-03	-1.91487 E 00	2.88435 E 01	-2.96398 E 02	
27.40	1.09783 E 00	-2.79118 E 01	-1.97481 E 00	2.31251 E-03	-1.92770 E 00	2.89457 E 01	-2.96631 E 02	
27.50	1.09783 E 00	-2.80140 E 01	-1.98790 E 00	2.31377 E-03	-1.94057 E 00	2.90479 E 01	-2.96863 E 02	
27.60	1.09783 E 00	-2.81163 E 01	-2.00103 E 00	2.31502 E-03	-1.95349 E 00	2.91501 E 01	-2.97094 E 02	
27.70	1.09782 E 00	-2.82185 E 01	-2.01420 E 00	2.31625 E-03	-1.96644 E 00	2.92523 E 01	-2.97325 E 02	
27.80	1.09782 E 00	-2.83208 E 01	-2.02741 E 00	2.31747 E-03	-1.97944 E 00	2.93545 E 01	-2.97554 E 02	
27.90	1.09781 E 00	-2.84230 E 01	-2.04067 E 00	2.31867 E-03	-1.99248 E 00	2.94566 E 01	-2.97783 E 02	
28.00	1.09781 E 00	-2.85252 E 01	-2.05396 E 00	2.31986 E-03	-2.00556 E 00	2.95588 E 01	-2.98012 E 02	
28.10	1.09781 E 00	-2.86274 E 01	-2.06730 E 00	2.32102 E-03	-2.01869 E 00	2.96609 E 01	-2.98240 E 02	
28.20	1.09780 E 00	-2.87295 E 01	-2.08068 E 00	2.32218 E-03	-2.03185 E 00	2.97630 E 01	-2.98467 E 02	
28.30	1.09780 E 00	-2.88317 E 01	-2.09411 E 00	2.32332 E-03	-2.04506 E 00	2.98651 E 01	-2.98694 E 02	
28.40	1.09780 E 00	-2.89338 E 01	-2.10757 E 00	2.32444 E-03	-2.05831 E 00	2.99672 E 01	-2.98920 E 02	
28.50	1.09779 E 00	-2.90359 E 01	-2.12108 E 00	2.32555 E-03	-2.07160 E 00	3.00692 E 01	-2.99146 E 02	
28.60	1.09779 E 00	-2.91381 E 01	-2.13463 E 00	2.32664 E-03	-2.08493 E 00	3.01713 E 01	-2.99371 E 02	
28.70	1.09778 E 00	-2.92402 E 01	-2.14822 E 00	2.32772 E-03	-2.09831 E 00	3.02733 E 01	-2.99595 E 02	
28.80	1.09778 E 00	-2.93422 E 01	-2.16185 E 00	2.32878 E-03	-2.11173 E 00	3.03753 E 01	-2.99819 E 02	
28.90	1.09778 E 00	-2.94443 E 01	-2.17552 E 00	2.32983 E-03	-2.12519 E 00	3.04773 E 01	-3.00042 E 02	
29.00	1.09777 E 00	-2.95464 E 01	-2.18924 E 00	2.33087 E-03	-2.13869 E 00	3.05793 E 01	-3.00265 E 02	
29.10	1.09777 E 00	-2.96484 E 01	-2.20300 E 00	2.33189 E-03	-2.15223 E 00	3.06813 E 01	-3.00487 E 02	
29.20	1.09777 E 00	-2.97504 E 01	-2.21680 E 00	2.33289 E-03	-2.16582 E 00	3.07832 E 01	-3.00709 E 02	
29.30	1.09776 E 00	-2.98524 E 01	-2.23064 E 00	2.33388 E-03	-2.17944 E 00	3.08852 E 01	-3.00931 E 02	
29.40	1.09776 E 00	-2.99544 E 01	-2.24452 E 00	2.33486 E-03	-2.19311 E 00	3.09871 E 01	-3.01151 E 02	
29.50	1.09776 E 00	-3.00564 E 01	-2.25845 E 00	2.33583 E-03	-2.20682 E 00	3.10890 E 01	-3.01371 E 02	
29.60	1.09775 E 00	-3.01583 E 01	-2.27242 E 00	2.33678 E-03	-2.22058 E 00	3.11909 E 01	-3.01591 E 02	
29.70	1.09775 E 00	-3.02603 E 01	-2.28643 E 00	2.33772 E-03	-2.23437 E 00	3.12928 E 01	-3.01810 E 02	
29.80	1.09775 E 00	-3.03622 E 01	-2.30048 E 00	2.33864 E-03	-2.24821 E 00	3.13946 E 01	-3.02029 E 02	
29.90	1.09774 E 00	-3.04641 E 01	-2.31457 E 00	2.33955 E-03	-2.26208 E 00	3.14965 E 01	-3.02247 E 02	
30.00	1.09774 E 00	-3.05660 E 01	-2.32871 E 00	2.34044 E-03	-2.27600 E 00	3.15983 E 01	-3.02465 E 02	

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=4$					$A=8$					$\rho=1.2A^{1/3}F$					Electron				
		$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$		
24.10	6.83834E-04	-1.22879E 00	-4.66136E-02	5.09648E 01	-4.53992E-02	1.28080E 00	-1.90151E-02														
24.20	6.89519E-04	-1.23909E 00	-4.71585E-02	5.09684E 01	-4.59326E-02	1.29130E 00	-1.90162E-02														
24.30	6.95227E-04	-1.24942E 00	-4.77076E-02	5.09720E 01	-4.64700E-02	1.30186E 00	-1.90173E-02														
24.40	7.00960E-04	-1.25980E 00	-4.82608E-02	5.09756E 01	-4.70117E-02	1.31245E 00	-1.90184E-02														
24.50	7.06715E-04	-1.27022E 00	-4.88183E-02	5.09791E 01	-4.75574E-02	1.32309E 00	-1.90195E-02														
24.60	7.12495E-04	-1.28069E 00	-4.93800E-02	5.09826E 01	-4.81074E-02	1.33376E 00	-1.90206E-02														
24.70	7.18297E-04	-1.29120E 00	-4.99460E-02	5.09860E 01	-4.86616E-02	1.34449E 00	-1.90216E-02														
24.80	7.24124E-04	-1.30175E 00	-5.05163E-02	5.09895E 01	-4.92200E-02	1.35525E 00	-1.90227E-02														
24.90	7.29973E-04	-1.31234E 00	-5.10908E-02	5.09929E 01	-4.97826E-02	1.36605E 00	-1.90238E-02														
25.00	7.35847E-04	-1.32297E 00	-5.16697E-02	5.09963E 01	-5.03495E-02	1.37690E 00	-1.90248E-02														
25.10	7.41743E-04	-1.33365E 00	-5.22528E-02	5.09996E 01	-5.09207E-02	1.38779E 00	-1.90258E-02														
25.20	7.47664E-04	-1.34437E 00	-5.28403E-02	5.10029E 01	-5.14961E-02	1.39873E 00	-1.90269E-02														
25.30	7.53608E-04	-1.35513E 00	-5.34322E-02	5.10062E 01	-5.20759E-02	1.40970E 00	-1.90279E-02														
25.40	7.59575E-04	-1.36593E 00	-5.40284E-02	5.10095E 01	-5.26599E-02	1.42072E 00	-1.90289E-02														
25.50	7.65566E-04	-1.37678E 00	-5.46290E-02	5.10127E 01	-5.32483E-02	1.43178E 00	-1.90299E-02														
25.60	7.71581E-04	-1.38767E 00	-5.52340E-02	5.10159E 01	-5.38410E-02	1.44289E 00	-1.90309E-02														
25.70	7.77619E-04	-1.39860E 00	-5.58435E-02	5.10191E 01	-5.44381E-02	1.45403E 00	-1.90319E-02														
25.80	7.83680E-04	-1.40958E 00	-5.64573E-02	5.10223E 01	-5.50395E-02	1.46522E 00	-1.90329E-02														
25.90	7.89765E-04	-1.42059E 00	-5.70756E-02	5.10254E 01	-5.56454E-02	1.47645E 00	-1.90339E-02														
26.00	7.95874E-04	-1.43165E 00	-5.76984E-02	5.10286E 01	-5.62557E-02	1.48773E 00	-1.90349E-02														
26.10	8.02006E-04	-1.44275E 00	-5.83256E-02	5.10316E 01	-5.68703E-02	1.49904E 00	-1.90358E-02														
26.20	8.08162E-04	-1.45390E 00	-5.89573E-02	5.10347E 01	-5.74895E-02	1.51040E 00	-1.90368E-02														
26.30	8.14341E-04	-1.46509E 00	-5.95935E-02	5.10377E 01	-5.81130E-02	1.52180E 00	-1.90377E-02														
26.40	8.20544E-04	-1.47631E 00	-6.02343E-02	5.10408E 01	-5.87411E-02	1.53324E 00	-1.90387E-02														
26.50	8.26770E-04	-1.48759E 00	-6.08796E-02	5.10438E 01	-5.93736E-02	1.54473E 00	-1.90396E-02														
26.60	8.33020E-04	-1.49890E 00	-6.15295E-02	5.10467E 01	-6.00107E-02	1.55626E 00	-1.90405E-02														
26.70	8.39293E-04	-1.51026E 00	-6.21839E-02	5.10497E 01	-6.06522E-02	1.56783E 00	-1.90415E-02														
26.80	8.45590E-04	-1.52165E 00	-6.28429E-02	5.10526E 01	-6.12983E-02	1.57944E 00	-1.90424E-02														
26.90	8.51910E-04	-1.53310E 00	-6.35065E-02	5.10555E 01	-6.19490E-02	1.59109E 00	-1.90433E-02														
27.00	8.58254E-04	-1.54458E 00	-6.41747E-02	5.10584E 01	-6.26042E-02	1.60279E 00	-1.90442E-02														
27.10	8.64622E-04	-1.55610E 00	-6.48476E-02	5.10612E 01	-6.32639E-02	1.61453E 00	-1.90451E-02														
27.20	8.71013E-04	-1.56767E 00	-6.55251E-02	5.10641E 01	-6.39283E-02	1.62631E 00	-1.90460E-02														
27.30	8.77427E-04	-1.57928E 00	-6.62073E-02	5.10669E 01	-6.45973E-02	1.63814E 00	-1.90469E-02														
27.40	8.83865E-04	-1.59094E 00	-6.68942E-02	5.10697E 01	-6.52709E-02	1.65000E 00	-1.90478E-02														
27.50	8.90327E-04	-1.60263E 00	-6.75857E-02	5.10724E 01	-6.59492E-02	1.66191E 00	-1.90486E-02														
27.60	8.96812E-04	-1.61437E 00	-6.82820E-02	5.10752E 01	-6.66321E-02	1.67386E 00	-1.90495E-02														
27.70	9.03321E-04	-1.62615E 00	-6.89830E-02	5.10779E 01	-6.73197E-02	1.68586E 00	-1.90504E-02														
27.80	9.09853E-04	-1.63797E 00	-6.96887E-02	5.10806E 01	-6.80120E-02	1.69789E 00	-1.90512E-02														
27.90	9.16408E-04	-1.64983E 00	-7.03993E-02	5.10833E 01	-6.87090E-02	1.70997E 00	-1.90521E-02														
28.00	9.22988E-04	-1.66174E 00	-7.11145E-02	5.10860E 01	-6.94107E-02	1.72209E 00	-1.90529E-02														
28.10	9.29590E-04	-1.67369E 00	-7.18346E-02	5.10887E 01	-7.01172E-02	1.73425E 00	-1.90538E-02														
28.20	9.36217E-04	-1.68568E 00	-7.25595E-02	5.10913E 01	-7.08284E-02	1.74646E 00	-1.90546E-02														
28.30	9.42866E-04	-1.69772E 00	-7.32892E-02	5.10939E 01	-7.15444E-02	1.75870E 00	-1.90554E-02														
28.40	9.49540E-04	-1.70979E 00	-7.40237E-02	5.10965E 01	-7.22652E-02	1.77099E 00	-1.90563E-02														
28.50	9.56237E-04	-1.72191E 00	-7.47631E-02	5.10991E 01	-7.29907E-02	1.78333E 00	-1.90571E-02														
28.60	9.62957E-04	-1.73407E 00	-7.55074E-02	5.11016E 01	-7.37211E-02	1.79570E 00	-1.90579E-02														
28.70	9.69701E-04	-1.74627E 00	-7.62565E-02	5.11042E 01	-7.44563E-02	1.80812E 00	-1.90587E-02														
28.80	9.76468E-04	-1.75852E 00	-7.70106E-02	5.11067E 01	-7.51964E-02	1.82058E 00	-1.90595E-02														
28.90	9.83259E-04	-1.77081E 00	-7.77696E-02	5.11092E 01	-7.59413E-02	1.83308E 00	-1.90603E-02														
29.00	9.90074E-04	-1.78314E 00	-7.85334E-02	5.11117E 01	-7.66911E-02	1.84562E 00	-1.90611E-02														
29.10	9.96912E-04	-1.79551E 00	-7.93023E-02	5.11141E 01	-7.74458E-02	1.85820E 00	-1.90619E-02														
29.20	1.00377E-03	-1.80792E 00	-8.00761E-02	5.11166E 01	-7.82054E-02	1.87083E 00	-1.90627E-02														
29.30	1.01066E-03	-1.82038E 00	-8.08549E-02	5.11190E 01	-7.89699E-02	1.88350E 00	-1.90634E-02														
29.40	1.01757E-03	-1.83288E 00	-8.16387E-02	5.11214E 01	-7.97394E-02	1.89621E 00	-1.90642E-02														
29.50	1.02450E-03	-1.84542E 00	-8.24274E-02	5.11238E 01	-8.05139E-02	1.90897E 00	-1.90650E-02														
29.60	1.03146E-03	-1.85800E 00	-8.32213E-02	5.11262E 01	-8.12933E-02	1.92176E 00	-1.90657E-02														
29.70	1.03843E-03	-1.87063E 00	-8.40201E-02	5.11286E 01	-8.20776E-02	1.93460E 00	-1.90665E-02														
29.80	1.04544E-03	-1.88329E 00	-8.48240E-02	5.11309E 01	-8.28670E-02	1.94748E 00	-1.90672E-02														
29.90	1.05246E-03	-1.89600E 00	-8.56330E-02	5.11333E 01	-8.36615E-02	1.96040E 00	-1.90680E-02														
30.00	1.05951E-03	-1.90875E 00	-8.64471E-02	5.11356E 01	-8.44609E-02	1.97337E 00	-1.90687E-02														



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=4$		$A=8$		$\rho = 1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
30.10	1.09773E 00	-3.06679E 01	-2.34288E 00	2.34133E-03	-2.28997E 00	3.17001E 01	-3.02682E 02			
30.20	1.09773E 00	-3.07698E 01	-2.35710E 00	2.34220E-03	-2.30397E 00	3.18019E 01	-3.02899E 02			
30.30	1.09773E 00	-3.08716E 01	-2.37136E 00	2.34306E-03	-2.31802E 00	3.19037E 01	-3.03115E 02			
30.40	1.09772E 00	-3.09734E 01	-2.38566E 00	2.34390E-03	-2.33210E 00	3.20055E 01	-3.03331E 02			
30.50	1.09772E 00	-3.10753E 01	-2.40001E 00	2.34474E-03	-2.34623E 00	3.21072E 01	-3.03546E 02			
30.60	1.09772E 00	-3.11771E 01	-2.41439E 00	2.34555E-03	-2.36040E 00	3.22089E 01	-3.03762E 02			
30.70	1.09771E 00	-3.12788E 01	-2.42882E 00	2.34636E-03	-2.37462E 00	3.23107E 01	-3.03976E 02			
30.80	1.09771E 00	-3.13806E 01	-2.44329E 00	2.34716E-03	-2.38887E 00	3.24124E 01	-3.04190E 02			
30.90	1.09771E 00	-3.14824E 01	-2.45780E 00	2.34794E-03	-2.40317E 00	3.25141E 01	-3.04404E 02			
31.00	1.09770E 00	-3.15841E 01	-2.47235E 00	2.34871E-03	-2.41750E 00	3.26157E 01	-3.04617E 02			
31.10	1.09770E 00	-3.16858E 01	-2.48695E 00	2.34947E-03	-2.43188E 00	3.27174E 01	-3.04831E 02			
31.20	1.09770E 00	-3.17875E 01	-2.50158E 00	2.35022E-03	-2.44631E 00	3.28190E 01	-3.05043E 02			
31.30	1.09769E 00	-3.18892E 01	-2.51626E 00	2.35095E-03	-2.46077E 00	3.29206E 01	-3.05255E 02			
31.40	1.09769E 00	-3.19909E 01	-2.53098E 00	2.35167E-03	-2.47527E 00	3.30222E 01	-3.05467E 02			
31.50	1.09769E 00	-3.20925E 01	-2.54574E 00	2.35238E-03	-2.48982E 00	3.31238E 01	-3.05678E 02			
31.60	1.09768E 00	-3.21942E 01	-2.56054E 00	2.35308E-03	-2.50441E 00	3.32254E 01	-3.05890E 02			
31.70	1.09768E 00	-3.22958E 01	-2.57539E 00	2.35377E-03	-2.51904E 00	3.33270E 01	-3.06101E 02			
31.80	1.09768E 00	-3.23974E 01	-2.59028E 00	2.35444E-03	-2.53371E 00	3.34285E 01	-3.06311E 02			
31.90	1.09767E 00	-3.24990E 01	-2.60520E 00	2.35511E-03	-2.54842E 00	3.35300E 01	-3.06521E 02			
32.00	1.09767E 00	-3.26006E 01	-2.62017E 00	2.35576E-03	-2.56318E 00	3.36315E 01	-3.06731E 02			
32.10	1.09767E 00	-3.27021E 01	-2.63518E 00	2.35640E-03	-2.57797E 00	3.37330E 01	-3.06940E 02			
32.20	1.09766E 00	-3.28037E 01	-2.65024E 00	2.35703E-03	-2.59281E 00	3.38345E 01	-3.07149E 02			
32.30	1.09766E 00	-3.29052E 01	-2.66533E 00	2.35765E-03	-2.60769E 00	3.39359E 01	-3.07358E 02			
32.40	1.09766E 00	-3.30067E 01	-2.68047E 00	2.35826E-03	-2.62261E 00	3.40374E 01	-3.07567E 02			
32.50	1.09766E 00	-3.31082E 01	-2.69564E 00	2.35886E-03	-2.63758E 00	3.41388E 01	-3.07775E 02			
32.60	1.09765E 00	-3.32097E 01	-2.71086E 00	2.35945E-03	-2.65258E 00	3.42402E 01	-3.07982E 02			
32.70	1.09765E 00	-3.33112E 01	-2.72612E 00	2.36002E-03	-2.66763E 00	3.43416E 01	-3.08190E 02			
32.80	1.09765E 00	-3.34126E 01	-2.74143E 00	2.36058E-03	-2.68272E 00	3.44430E 01	-3.08398E 02			
32.90	1.09764E 00	-3.35140E 01	-2.75677E 00	2.36114E-03	-2.69785E 00	3.45443E 01	-3.08604E 02			
33.00	1.09764E 00	-3.36154E 01	-2.77216E 00	2.36168E-03	-2.71302E 00	3.46457E 01	-3.08811E 02			
33.10	1.09764E 00	-3.37168E 01	-2.78758E 00	2.36221E-03	-2.72823E 00	3.47470E 01	-3.09018E 02			
33.20	1.09763E 00	-3.38182E 01	-2.80305E 00	2.36274E-03	-2.74349E 00	3.48483E 01	-3.09224E 02			
33.30	1.09763E 00	-3.39196E 01	-2.81856E 00	2.36325E-03	-2.75878E 00	3.49496E 01	-3.09430E 02			
33.40	1.09763E 00	-3.40209E 01	-2.83411E 00	2.36375E-03	-2.77412E 00	3.50509E 01	-3.09635E 02			
33.50	1.09762E 00	-3.41222E 01	-2.84971E 00	2.36425E-03	-2.78950E 00	3.51521E 01	-3.09840E 02			
33.60	1.09762E 00	-3.42235E 01	-2.86534E 00	2.36473E-03	-2.80492E 00	3.52533E 01	-3.10045E 02			
33.70	1.09762E 00	-3.43248E 01	-2.88102E 00	2.36520E-03	-2.82038E 00	3.53546E 01	-3.10250E 02			
33.80	1.09762E 00	-3.44261E 01	-2.89674E 00	2.36566E-03	-2.83589E 00	3.54558E 01	-3.10455E 02			
33.90	1.09761E 00	-3.45274E 01	-2.91250E 00	2.36612E-03	-2.85143E 00	3.55569E 01	-3.10659E 02			
34.00	1.09761E 00	-3.46286E 01	-2.92830E 00	2.36656E-03	-2.86702E 00	3.56581E 01	-3.10864E 02			
34.10	1.09761E 00	-3.47298E 01	-2.94414E 00	2.36699E-03	-2.88265E 00	3.57593E 01	-3.11067E 02			
34.20	1.09760E 00	-3.48310E 01	-2.96002E 00	2.36742E-03	-2.89832E 00	3.58604E 01	-3.11271E 02			
34.30	1.09760E 00	-3.49322E 01	-2.97595E 00	2.36783E-03	-2.91403E 00	3.59615E 01	-3.11475E 02			
34.40	1.09760E 00	-3.50334E 01	-2.99192E 00	2.36823E-03	-2.92978E 00	3.60626E 01	-3.11678E 02			
34.50	1.09759E 00	-3.51346E 01	-3.00792E 00	2.36862E-03	-2.94557E 00	3.61637E 01	-3.11882E 02			
34.60	1.09759E 00	-3.52357E 01	-3.02397E 00	2.36901E-03	-2.96141E 00	3.62648E 01	-3.12085E 02			
34.70	1.09759E 00	-3.53368E 01	-3.04006E 00	2.36938E-03	-2.97729E 00	3.63658E 01	-3.12287E 02			
34.80	1.09759E 00	-3.54379E 01	-3.05620E 00	2.36975E-03	-2.99320E 00	3.64668E 01	-3.12490E 02			
34.90	1.09758E 00	-3.55390E 01	-3.07237E 00	2.37011E-03	-3.00916E 00	3.65678E 01	-3.12692E 02			
35.00	1.09758E 00	-3.56401E 01	-3.08859E 00	2.37046E-03	-3.02517E 00	3.66688E 01	-3.12894E 02			
35.10	1.09758E 00	-3.57411E 01	-3.10484E 00	2.37079E-03	-3.04121E 00	3.67698E 01	-3.13096E 02			
35.20	1.09757E 00	-3.58421E 01	-3.12114E 00	2.37112E-03	-3.05729E 00	3.68708E 01	-3.13298E 02			
35.30	1.09757E 00	-3.59432E 01	-3.13748E 00	2.37144E-03	-3.07342E 00	3.69717E 01	-3.13500E 02			
35.40	1.09757E 00	-3.60442E 01	-3.15386E 00	2.37176E-03	-3.08958E 00	3.70726E 01	-3.13701E 02			
35.50	1.09757E 00	-3.61451E 01	-3.17028E 00	2.37206E-03	-3.10579E 00	3.71735E 01	-3.13903E 02			
35.60	1.09756E 00	-3.62461E 01	-3.18675E 00	2.37235E-03	-3.12204E 00	3.72744E 01	-3.14104E 02			
35.70	1.09756E 00	-3.63470E 01	-3.20325E 00	2.37264E-03	-3.13833E 00	3.73753E 01	-3.14305E 02			
35.80	1.09756E 00	-3.64480E 01	-3.21980E 00	2.37291E-03	-3.15467E 00	3.74762E 01	-3.14506E 02			
35.90	1.09755E 00	-3.65489E 01	-3.23638E 00	2.37318E-03	-3.17104E 00	3.75770E 01	-3.14706E 02			
36.00	1.09755E 00	-3.66498E 01	-3.25301E 00	2.37344E-03	-3.18745E 00	3.76778E 01	-3.14907E 02			

## ELECTRON RADIAL FUNCTIONS

	$Z=4$	$A=8$	$\rho=1.2A^{1/3}F$				Electron
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_2$
30.10	1.06659E-03	-1.92155E 00	-8.72663E-02	5.11379E 01	-8.52655E-02	1.98638E 00	-1.90695E-02
30.20	1.07368E-03	-1.93438E 00	-8.80906E-02	5.11402E 01	-8.60750E-02	1.99943E 00	-1.90702E-02
30.30	1.08080E-03	-1.94726E 00	-8.89200E-02	5.11424E 01	-8.68897E-02	2.01252E 00	-1.90709E-02
30.40	1.08795E-03	-1.96018E 00	-8.97546E-02	5.11447E 01	-8.77094E-02	2.02565E 00	-1.90716E-02
30.50	1.09512E-03	-1.97315E 00	-9.05944E-02	5.11469E 01	-8.85343E-02	2.03883E 00	-1.90724E-02
30.60	1.10231E-03	-1.98615E 00	-9.14393E-02	5.11491E 01	-8.93643E-02	2.05204E 00	-1.90731E-02
30.70	1.10952E-03	-1.99920E 00	-9.22894E-02	5.11513E 01	-9.01994E-02	2.06530E 00	-1.90738E-02
30.80	1.11676E-03	-2.01229E 00	-9.31448E-02	5.11535E 01	-9.10397E-02	2.07861E 00	-1.90745E-02
30.90	1.12402E-03	-2.02542E 00	-9.40054E-02	5.11557E 01	-9.18852E-02	2.09195E 00	-1.90752E-02
31.00	1.13131E-03	-2.03859E 00	-9.48712E-02	5.11579E 01	-9.27358E-02	2.10534E 00	-1.90759E-02
31.10	1.13861E-03	-2.05181E 00	-9.57422E-02	5.11600E 01	-9.35917E-02	2.11876E 00	-1.90766E-02
31.20	1.14595E-03	-2.06506E 00	-9.66186E-02	5.11622E 01	-9.44528E-02	2.13223E 00	-1.90773E-02
31.30	1.15330E-03	-2.07836E 00	-9.75002E-02	5.11643E 01	-9.53191E-02	2.14575E 00	-1.90780E-02
31.40	1.16068E-03	-2.09170E 00	-9.83872E-02	5.11664E 01	-9.61907E-02	2.15930E 00	-1.90786E-02
31.50	1.16808E-03	-2.10509E 00	-9.92794E-02	5.11685E 01	-9.70675E-02	2.17290E 00	-1.90793E-02
31.60	1.17551E-03	-2.11851E 00	-1.00177E-01	5.11706E 01	-9.79496E-02	2.18654E 00	-1.90800E-02
31.70	1.18296E-03	-2.13198E 00	-1.01080E-01	5.11726E 01	-9.88371E-02	2.20022E 00	-1.90807E-02
31.80	1.19043E-03	-2.14549E 00	-1.01988E-01	5.11747E 01	-9.97298E-02	2.21394E 00	-1.90813E-02
31.90	1.19793E-03	-2.15904E 00	-1.02902E-01	5.11767E 01	-1.00628E-01	2.22770E 00	-1.90820E-02
32.00	1.20545E-03	-2.17264E 00	-1.03821E-01	5.11788E 01	-1.01531E-01	2.24151E 00	-1.90826E-02
32.10	1.21299E-03	-2.18627E 00	-1.04746E-01	5.11808E 01	-1.02440E-01	2.25536E 00	-1.90833E-02
32.20	1.22056E-03	-2.19995E 00	-1.05676E-01	5.11828E 01	-1.03354E-01	2.26925E 00	-1.90839E-02
32.30	1.22815E-03	-2.21367E 00	-1.06611E-01	5.11848E 01	-1.04274E-01	2.28318E 00	-1.90846E-02
32.40	1.23577E-03	-2.22743E 00	-1.07552E-01	5.11867E 01	-1.05199E-01	2.29716E 00	-1.90852E-02
32.50	1.24340E-03	-2.24123E 00	-1.08498E-01	5.11887E 01	-1.06129E-01	2.31117E 00	-1.90859E-02
32.60	1.25107E-03	-2.25508E 00	-1.09450E-01	5.11907E 01	-1.07065E-01	2.32523E 00	-1.90865E-02
32.70	1.25875E-03	-2.26897E 00	-1.10407E-01	5.11926E 01	-1.08006E-01	2.33933E 00	-1.90871E-02
32.80	1.26646E-03	-2.28290E 00	-1.11370E-01	5.11945E 01	-1.08953E-01	2.35347E 00	-1.90878E-02
32.90	1.27419E-03	-2.29687E 00	-1.12339E-01	5.11964E 01	-1.09905E-01	2.36766E 00	-1.90884E-02
33.00	1.28195E-03	-2.31088E 00	-1.13313E-01	5.11983E 01	-1.10863E-01	2.38188E 00	-1.90890E-02
33.10	1.28973E-03	-2.32494E 00	-1.14292E-01	5.12002E 01	-1.11826E-01	2.39615E 00	-1.90896E-02
33.20	1.29753E-03	-2.33904E 00	-1.15277E-01	5.12021E 01	-1.12795E-01	2.41046E 00	-1.90902E-02
33.30	1.30536E-03	-2.35318E 00	-1.16268E-01	5.12040E 01	-1.13769E-01	2.42481E 00	-1.90908E-02
33.40	1.31321E-03	-2.36736E 00	-1.17264E-01	5.12058E 01	-1.14749E-01	2.43921E 00	-1.90914E-02
33.50	1.32108E-03	-2.38158E 00	-1.18266E-01	5.12077E 01	-1.15735E-01	2.45364E 00	-1.90920E-02
33.60	1.32898E-03	-2.39585E 00	-1.19274E-01	5.12095E 01	-1.16726E-01	2.46812E 00	-1.90926E-02
33.70	1.33690E-03	-2.41015E 00	-1.20287E-01	5.12113E 01	-1.17723E-01	2.48264E 00	-1.90932E-02
33.80	1.34484E-03	-2.42450E 00	-1.21306E-01	5.12131E 01	-1.18725E-01	2.49720E 00	-1.90938E-02
33.90	1.35281E-03	-2.43889E 00	-1.22331E-01	5.12149E 01	-1.19733E-01	2.51181E 00	-1.90944E-02
34.00	1.36080E-03	-2.45333E 00	-1.23361E-01	5.12167E 01	-1.20747E-01	2.52645E 00	-1.90950E-02
34.10	1.36881E-03	-2.46780E 00	-1.24397E-01	5.12185E 01	-1.21766E-01	2.54114E 00	-1.90956E-02
34.20	1.37685E-03	-2.48232E 00	-1.25439E-01	5.12203E 01	-1.22791E-01	2.55587E 00	-1.90962E-02
34.30	1.38491E-03	-2.49688E 00	-1.26487E-01	5.12220E 01	-1.23821E-01	2.57064E 00	-1.90967E-02
34.40	1.39300E-03	-2.51148E 00	-1.27540E-01	5.12238E 01	-1.24858E-01	2.58545E 00	-1.90973E-02
34.50	1.40111E-03	-2.52612E 00	-1.28599E-01	5.12255E 01	-1.25900E-01	2.60030E 00	-1.90979E-02
34.60	1.40924E-03	-2.54080E 00	-1.29664E-01	5.12272E 01	-1.26948E-01	2.61520E 00	-1.90984E-02
34.70	1.41739E-03	-2.55553E 00	-1.30735E-01	5.12290E 01	-1.28002E-01	2.63014E 00	-1.90990E-02
34.80	1.42557E-03	-2.57030E 00	-1.31811E-01	5.12307E 01	-1.29061E-01	2.64512E 00	-1.90996E-02
34.90	1.43377E-03	-2.58511E 00	-1.32894E-01	5.12324E 01	-1.30126E-01	2.66014E 00	-1.91001E-02
35.00	1.44200E-03	-2.59996E 00	-1.33982E-01	5.12340E 01	-1.31197E-01	2.67520E 00	-1.91007E-02
35.10	1.45025E-03	-2.61485E 00	-1.35076E-01	5.12357E 01	-1.32274E-01	2.69031E 00	-1.91012E-02
35.20	1.45852E-03	-2.62978E 00	-1.36176E-01	5.12374E 01	-1.33357E-01	2.70545E 00	-1.91018E-02
35.30	1.46682E-03	-2.64476E 00	-1.37282E-01	5.12390E 01	-1.34445E-01	2.72064E 00	-1.91023E-02
35.40	1.47514E-03	-2.65978E 00	-1.38394E-01	5.12407E 01	-1.35540E-01	2.73587E 00	-1.91029E-02
35.50	1.48348E-03	-2.67484E 00	-1.39512E-01	5.12423E 01	-1.36640E-01	2.75115E 00	-1.91034E-02
35.60	1.49185E-03	-2.68994E 00	-1.40636E-01	5.12439E 01	-1.37746E-01	2.76646E 00	-1.91039E-02
35.70	1.50024E-03	-2.70509E 00	-1.41766E-01	5.12456E 01	-1.38858E-01	2.78181E 00	-1.91045E-02
35.80	1.50866E-03	-2.72027E 00	-1.42902E-01	5.12472E 01	-1.39977E-01	2.79721E 00	-1.91050E-02
35.90	1.51710E-03	-2.73550E 00	-1.44043E-01	5.12488E 01	-1.41101E-01	2.81265E 00	-1.91055E-02
36.00	1.52556E-03	-2.75077E 00	-1.45191E-01	5.12503E 01	-1.42231E-01	2.82813E 00	-1.91060E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=4$		$A=8$		$\rho=1.2A^{1/3}F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
36.10	1.09755E 00	-3.67506E 01	-3.26968E 00	2.37368E-03	-3.20391E 00	3.77786E 01	-3.15108E 02			
36.20	1.09755E 00	-3.68515E 01	-3.28640E 00	2.37392E-03	-3.22041E 00	3.78794E 01	-3.15308E 02			
36.30	1.09754E 00	-3.69523E 01	-3.30315E 00	2.37416E-03	-3.23695E 00	3.79801E 01	-3.15508E 02			
36.40	1.09754E 00	-3.70532E 01	-3.31994E 00	2.37438E-03	-3.25353E 00	3.80809E 01	-3.15708E 02			
36.50	1.09754E 00	-3.71539E 01	-3.33678E 00	2.37460E-03	-3.27015E 00	3.81816E 01	-3.15908E 02			
36.60	1.09753E 00	-3.72547E 01	-3.35365E 00	2.37481E-03	-3.28681E 00	3.82823E 01	-3.16108E 02			
36.70	1.09753E 00	-3.73555E 01	-3.37057E 00	2.37500E-03	-3.30352E 00	3.83830E 01	-3.16308E 02			
36.80	1.09753E 00	-3.74562E 01	-3.38753E 00	2.37520E-03	-3.32026E 00	3.84837E 01	-3.16508E 02			
36.90	1.09753E 00	-3.75570E 01	-3.40453E 00	2.37538E-03	-3.33705E 00	3.85843E 01	-3.16707E 02			
37.00	1.09752E 00	-3.76577E 01	-3.42157E 00	2.37555E-03	-3.35388E 00	3.86850E 01	-3.16907E 02			
37.10	1.09752E 00	-3.77584E 01	-3.43865E 00	2.37572E-03	-3.37074E 00	3.87856E 01	-3.17107E 02			
37.20	1.09752E 00	-3.78590E 01	-3.45578E 00	2.37588E-03	-3.38765E 00	3.88862E 01	-3.17306E 02			
37.30	1.09752E 00	-3.79597E 01	-3.47294E 00	2.37603E-03	-3.40461E 00	3.89867E 01	-3.17505E 02			
37.40	1.09751E 00	-3.80603E 01	-3.49015E 00	2.37617E-03	-3.42160E 00	3.90873E 01	-3.17704E 02			
37.50	1.09751E 00	-3.81610E 01	-3.50739E 00	2.37630E-03	-3.43863E 00	3.91878E 01	-3.17903E 02			
37.60	1.09751E 00	-3.82616E 01	-3.52468E 00	2.37643E-03	-3.45571E 00	3.92884E 01	-3.18102E 02			
37.70	1.09750E 00	-3.83621E 01	-3.54201E 00	2.37655E-03	-3.47282E 00	3.93889E 01	-3.18301E 02			
37.80	1.09750E 00	-3.84627E 01	-3.55938E 00	2.37666E-03	-3.48998E 00	3.94894E 01	-3.18500E 02			
37.90	1.09750E 00	-3.85633E 01	-3.57679E 00	2.37676E-03	-3.50718E 00	3.95898E 01	-3.18699E 02			
38.00	1.09750E 00	-3.86638E 01	-3.59425E 00	2.37686E-03	-3.52442E 00	3.96903E 01	-3.18898E 02			
38.10	1.09749E 00	-3.87643E 01	-3.61174E 00	2.37694E-03	-3.54170E 00	3.97907E 01	-3.19097E 02			
38.20	1.09749E 00	-3.88648E 01	-3.62928E 00	2.37702E-03	-3.55902E 00	3.98911E 01	-3.19295E 02			
38.30	1.09749E 00	-3.89652E 01	-3.64685E 00	2.37710E-03	-3.57638E 00	3.99915E 01	-3.19494E 02			
38.40	1.09749E 00	-3.90657E 01	-3.66447E 00	2.37716E-03	-3.59379E 00	4.00919E 01	-3.19692E 02			
38.50	1.09748E 00	-3.91661E 01	-3.68213E 00	2.37722E-03	-3.61123E 00	4.01922E 01	-3.19891E 02			
38.60	1.09748E 00	-3.92665E 01	-3.69983E 00	2.37727E-03	-3.62872E 00	4.02926E 01	-3.20089E 02			
38.70	1.09748E 00	-3.93669E 01	-3.71757E 00	2.37731E-03	-3.64625E 00	4.03929E 01	-3.20288E 02			
38.80	1.09748E 00	-3.94673E 01	-3.73535E 00	2.37735E-03	-3.66381E 00	4.04932E 01	-3.20486E 02			
38.90	1.09747E 00	-3.95677E 01	-3.75317E 00	2.37737E-03	-3.68142E 00	4.05934E 01	-3.20685E 02			
39.00	1.09747E 00	-3.96680E 01	-3.77104E 00	2.37739E-03	-3.69907E 00	4.06937E 01	-3.20883E 02			
39.10	1.09747E 00	-3.97683E 01	-3.78894E 00	2.37741E-03	-3.71676E 00	4.07939E 01	-3.21081E 02			
39.20	1.09747E 00	-3.98686E 01	-3.80688E 00	2.37741E-03	-3.73450E 00	4.08942E 01	-3.21280E 02			
39.30	1.09746E 00	-3.99689E 01	-3.82487E 00	2.37741E-03	-3.75227E 00	4.09944E 01	-3.21478E 02			
39.40	1.09746E 00	-4.00691E 01	-3.84290E 00	2.37740E-03	-3.77008E 00	4.10945E 01	-3.21676E 02			
39.50	1.09746E 00	-4.01694E 01	-3.86097E 00	2.37739E-03	-3.78794E 00	4.11947E 01	-3.21874E 02			
39.60	1.09746E 00	-4.02696E 01	-3.87908E 00	2.37737E-03	-3.80584E 00	4.12948E 01	-3.22073E 02			
39.70	1.09745E 00	-4.03698E 01	-3.89723E 00	2.37733E-03	-3.82377E 00	4.13950E 01	-3.22272E 02			
39.80	1.09745E 00	-4.04700E 01	-3.91542E 00	2.37730E-03	-3.84175E 00	4.14951E 01	-3.22469E 02			
39.90	1.09745E 00	-4.05702E 01	-3.93365E 00	2.37726E-03	-3.85977E 00	4.15952E 01	-3.22668E 02			
40.00	1.09745E 00	-4.06703E 01	-3.95192E 00	2.37720E-03	-3.87783E 00	4.16952E 01	-3.22867E 02			
40.10	1.09744E 00	-4.07704E 01	-3.97024E 00	2.37715E-03	-3.89593E 00	4.17953E 01	-3.23064E 02			
40.20	1.09744E 00	-4.08705E 01	-3.98859E 00	2.37708E-03	-3.91407E 00	4.18953E 01	-3.23263E 02			
40.30	1.09744E 00	-4.09706E 01	-4.00699E 00	2.37701E-03	-3.93226E 00	4.19953E 01	-3.23461E 02			
40.40	1.09744E 00	-4.10707E 01	-4.02542E 00	2.37693E-03	-3.95048E 00	4.20953E 01	-3.23660E 02			
40.50	1.09743E 00	-4.11707E 01	-4.04390E 00	2.37685E-03	-3.96875E 00	4.21952E 01	-3.23858E 02			
40.60	1.09743E 00	-4.12708E 01	-4.06242E 00	2.37675E-03	-3.98705E 00	4.22952E 01	-3.24057E 02			
40.70	1.09743E 00	-4.13708E 01	-4.08098E 00	2.37666E-03	-4.00540E 00	4.23951E 01	-3.24255E 02			
40.80	1.09743E 00	-4.14708E 01	-4.09958E 00	2.37655E-03	-4.02379E 00	4.24950E 01	-3.24454E 02			
40.90	1.09742E 00	-4.15707E 01	-4.11822E 00	2.37644E-03	-4.04221E 00	4.25949E 01	-3.24652E 02			
41.00	1.09742E 00	-4.16707E 01	-4.13690E 00	2.37632E-03	-4.06068E 00	4.26948E 01	-3.24851E 02			
41.10	1.09742E 00	-4.17706E 01	-4.15563E 00	2.37620E-03	-4.07919E 00	4.27946E 01	-3.25050E 02			
41.20	1.09742E 00	-4.18705E 01	-4.17439E 00	2.37606E-03	-4.09774E 00	4.28945E 01	-3.25248E 02			
41.30	1.09741E 00	-4.19704E 01	-4.19319E 00	2.37593E-03	-4.11633E 00	4.29943E 01	-3.25447E 02			
41.40	1.09741E 00	-4.20703E 01	-4.21204E 00	2.37578E-03	-4.13497E 00	4.30940E 01	-3.25646E 02			
41.50	1.09741E 00	-4.21701E 01	-4.23092E 00	2.37563E-03	-4.15364E 00	4.31938E 01	-3.25845E 02			
41.60	1.09741E 00	-4.22700E 01	-4.24985E 00	2.37547E-03	-4.17235E 00	4.32936E 01	-3.26044E 02			
41.70	1.09740E 00	-4.23698E 01	-4.26882E 00	2.37531E-03	-4.19111E 00	4.33933E 01	-3.26243E 02			
41.80	1.09740E 00	-4.24696E 01	-4.28783E 00	2.37514E-03	-4.20990E 00	4.34930E 01	-3.26442E 02			
41.90	1.09740E 00	-4.25693E 01	-4.30687E 00	2.37496E-03	-4.22874E 00	4.35927E 01	-3.26641E 02			
42.00	1.09740E 00	-4.26691E 01	-4.32596E 00	2.37478E-03	-4.24762E 00	4.36923E 01	-3.26840E 02			

## ELECTRON RADIAL FUNCTIONS

$p$	$Z=4 \quad A=8 \quad \rho=1.2A^{1/3}F$								Electron
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$		
36.10	1.53404E-03	-2.76608E 00	-1.46345E-01	5.12519E 01	-1.43367E-01	2.84365E 00	-1.91066E-02		
36.20	1.54255E-03	-2.78143E 00	-1.47505E-01	5.12535E 01	-1.44509E-01	2.85922E 00	-1.91071E-02		
36.30	1.55108E-03	-2.79682E 00	-1.48671E-01	5.12551E 01	-1.45657E-01	2.87482E 00	-1.91076E-02		
36.40	1.55964E-03	-2.81226E 00	-1.49843E-01	5.12566E 01	-1.46811E-01	2.89047E 00	-1.91081E-02		
36.50	1.56822E-03	-2.82774E 00	-1.51021E-01	5.12582E 01	-1.47971E-01	2.90616E 00	-1.91086E-02		
36.60	1.57682E-03	-2.84326E 00	-1.52205E-01	5.12597E 01	-1.49137E-01	2.92189E 00	-1.91091E-02		
36.70	1.58545E-03	-2.85882E 00	-1.53396E-01	5.12612E 01	-1.50309E-01	2.93766E 00	-1.91096E-02		
36.80	1.59410E-03	-2.87442E 00	-1.54592E-01	5.12628E 01	-1.51487E-01	2.95348E 00	-1.91101E-02		
36.90	1.60277E-03	-2.89006E 00	-1.55795E-01	5.12643E 01	-1.52672E-01	2.96933E 00	-1.91106E-02		
37.00	1.61147E-03	-2.90575E 00	-1.57004E-01	5.12658E 01	-1.53862E-01	2.98523E 00	-1.91111E-02		
37.10	1.62019E-03	-2.92148E 00	-1.58219E-01	5.12673E 01	-1.55059E-01	3.00117E 00	-1.91116E-02		
37.20	1.62893E-03	-2.93725E 00	-1.59440E-01	5.12687E 01	-1.56262E-01	3.01715E 00	-1.91121E-02		
37.30	1.63770E-03	-2.95306E 00	-1.60667E-01	5.12702E 01	-1.57471E-01	3.03317E 00	-1.91126E-02		
37.40	1.64649E-03	-2.96891E 00	-1.61901E-01	5.12717E 01	-1.58686E-01	3.04924E 00	-1.91131E-02		
37.50	1.65530E-03	-2.98480E 00	-1.63141E-01	5.12731E 01	-1.59907E-01	3.06534E 00	-1.91136E-02		
37.60	1.66414E-03	-3.00074E 00	-1.64387E-01	5.12746E 01	-1.61135E-01	3.08149E 00	-1.91141E-02		
37.70	1.67300E-03	-3.01671E 00	-1.65640E-01	5.12760E 01	-1.62368E-01	3.09768E 00	-1.91146E-02		
37.80	1.68189E-03	-3.03273E 00	-1.66898E-01	5.12775E 01	-1.63608E-01	3.11391E 00	-1.91150E-02		
37.90	1.69079E-03	-3.04879E 00	-1.68163E-01	5.12789E 01	-1.64855E-01	3.13018E 00	-1.91155E-02		
38.00	1.69973E-03	-3.06489E 00	-1.69435E-01	5.12803E 01	-1.66107E-01	3.14649E 00	-1.91160E-02		
38.10	1.70868E-03	-3.08104E 00	-1.70713E-01	5.12817E 01	-1.67366E-01	3.16284E 00	-1.91165E-02		
38.20	1.71766E-03	-3.09722E 00	-1.71997E-01	5.12831E 01	-1.68631E-01	3.17924E 00	-1.91169E-02		
38.30	1.72666E-03	-3.11345E 00	-1.73287E-01	5.12845E 01	-1.69903E-01	3.19568E 00	-1.91174E-02		
38.40	1.73569E-03	-3.12972E 00	-1.74584E-01	5.12859E 01	-1.71180E-01	3.21216E 00	-1.91179E-02		
38.50	1.74474E-03	-3.14603E 00	-1.75887E-01	5.12873E 01	-1.72465E-01	3.22868E 00	-1.91183E-02		
38.60	1.75381E-03	-3.16238E 00	-1.77197E-01	5.12887E 01	-1.73755E-01	3.24524E 00	-1.91188E-02		
38.70	1.76291E-03	-3.17877E 00	-1.78513E-01	5.12901E 01	-1.75052E-01	3.26184E 00	-1.91192E-02		
38.80	1.77203E-03	-3.19520E 00	-1.79836E-01	5.12914E 01	-1.76355E-01	3.27849E 00	-1.91197E-02		
38.90	1.78117E-03	-3.21168E 00	-1.81165E-01	5.12928E 01	-1.77665E-01	3.29517E 00	-1.91201E-02		
39.00	1.79034E-03	-3.22819E 00	-1.82500E-01	5.12941E 01	-1.78981E-01	3.31190E 00	-1.91206E-02		
39.10	1.79953E-03	-3.24475E 00	-1.83842E-01	5.12955E 01	-1.80304E-01	3.32867E 00	-1.91210E-02		
39.20	1.80875E-03	-3.26135E 00	-1.85191E-01	5.12968E 01	-1.81633E-01	3.34548E 00	-1.91215E-02		
39.30	1.81798E-03	-3.27799E 00	-1.86546E-01	5.12981E 01	-1.82968E-01	3.36233E 00	-1.91219E-02		
39.40	1.82724E-03	-3.29467E 00	-1.87907E-01	5.12994E 01	-1.84310E-01	3.37923E 00	-1.91224E-02		
39.50	1.83653E-03	-3.31140E 00	-1.89275E-01	5.13008E 01	-1.85659E-01	3.39616E 00	-1.91228E-02		
39.60	1.84584E-03	-3.32816E 00	-1.90650E-01	5.13021E 01	-1.87014E-01	3.41314E 00	-1.91233E-02		
39.70	1.85517E-03	-3.34497E 00	-1.92031E-01	5.13034E 01	-1.88375E-01	3.43015E 00	-1.91237E-02		
39.80	1.86453E-03	-3.36182E 00	-1.93419E-01	5.13046E 01	-1.89743E-01	3.44721E 00	-1.91241E-02		
39.90	1.87390E-03	-3.37871E 00	-1.94814E-01	5.13059E 01	-1.91118E-01	3.46431E 00	-1.91246E-02		
40.00	1.88331E-03	-3.39564E 00	-1.96215E-01	5.13072E 01	-1.92499E-01	3.48146E 00	-1.91250E-02		
40.10	1.89273E-03	-3.41261E 00	-1.97623E-01	5.13085E 01	-1.93887E-01	3.49864E 00	-1.91254E-02		
40.20	1.90218E-03	-3.42962E 00	-1.99037E-01	5.13097E 01	-1.95281E-01	3.51586E 00	-1.91258E-02		
40.30	1.91166E-03	-3.44668E 00	-2.00458E-01	5.13110E 01	-1.96682E-01	3.53313E 00	-1.91263E-02		
40.40	1.92115E-03	-3.46378E 00	-2.01886E-01	5.13122E 01	-1.98090E-01	3.55043E 00	-1.91267E-02		
40.50	1.93067E-03	-3.48091E 00	-2.03321E-01	5.13135E 01	-1.99504E-01	3.56778E 00	-1.91271E-02		
40.60	1.94022E-03	-3.49809E 00	-2.04762E-01	5.13147E 01	-2.00925E-01	3.58517E 00	-1.91275E-02		
40.70	1.94978E-03	-3.51531E 00	-2.06210E-01	5.13160E 01	-2.02353E-01	3.60260E 00	-1.91279E-02		
40.80	1.95937E-03	-3.53257E 00	-2.07664E-01	5.13172E 01	-2.03787E-01	3.62008E 00	-1.91283E-02		
40.90	1.96899E-03	-3.54988E 00	-2.09126E-01	5.13184E 01	-2.05229E-01	3.63759E 00	-1.91288E-02		
41.00	1.97863E-03	-3.56722E 00	-2.10594E-01	5.13196E 01	-2.06676E-01	3.65514E 00	-1.91292E-02		
41.10	1.98829E-03	-3.58461E 00	-2.12069E-01	5.13208E 01	-2.08131E-01	3.67274E 00	-1.91296E-02		
41.20	1.99797E-03	-3.60203E 00	-2.13551E-01	5.13220E 01	-2.09592E-01	3.69038E 00	-1.91300E-02		
41.30	2.00768E-03	-3.61950E 00	-2.15040E-01	5.13232E 01	-2.11061E-01	3.70805E 00	-1.91304E-02		
41.40	2.01741E-03	-3.63701E 00	-2.16535E-01	5.13244E 01	-2.12535E-01	3.72577E 00	-1.91308E-02		
41.50	2.02717E-03	-3.65456E 00	-2.18038E-01	5.13256E 01	-2.14017E-01	3.74354E 00	-1.91312E-02		
41.60	2.03695E-03	-3.67215E 00	-2.19547E-01	5.13268E 01	-2.15506E-01	3.76134E 00	-1.91316E-02		
41.70	2.04675E-03	-3.68979E 00	-2.21063E-01	5.13280E 01	-2.17001E-01	3.77918E 00	-1.91320E-02		
41.80	2.05657E-03	-3.70746E 00	-2.22586E-01	5.13291E 01	-2.18503E-01	3.79707E 00	-1.91324E-02		
41.90	2.06642E-03	-3.72517E 00	-2.24117E-01	5.13303E 01	-2.20012E-01	3.81499E 00	-1.91328E-02		
42.00	2.07630E-03	-3.74293E 00	-2.25653E-01	5.13314E 01	-2.21528E-01	3.83296E 00	-1.91332E-02		



ELECTRON RADIAL FUNCTIONS

Electron	$Z = 5 \quad A = 11 \quad \rho = 1.2 A^{1/3} F$							
$\rho$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
0.10	2.58993E 00	-1.20359E-02	-2.31293E-04	-1.57474E-01	-3.31841E-03	2.27151E-01	-5.09879E 00	
0.20	1.71462E 00	-3.70674E-02	-7.13589E-04	-7.63041E-02	-5.39304E-03	3.68302E-01	-9.55361E 00	
0.30	1.46672E 00	-7.51248E-02	-1.45043E-03	-5.00840E-02	-7.46718E-03	5.08012E-01	-1.40637E 01	
0.40	1.35384E 00	-1.24936E-01	-2.42165E-03	-3.70130E-02	-9.54254E-03	6.45862E-01	-1.85112E 01	
0.50	1.29075E 00	-1.84995E-01	-3.60324E-03	-2.91484E-02	-1.16174E-02	7.81297E-01	-2.28666E 01	
0.60	1.25124E 00	-2.53737E-01	-4.97034E-03	-2.38792E-02	-1.36927E-02	9.14043E-01	-2.71162E 01	
0.70	1.22462E 00	-3.29679E-01	-6.49932E-03	-2.00930E-02	-1.57713E-02	1.04405E 00	-3.12528E 01	
0.80	1.20575E 00	-4.11492E-01	-8.16907E-03	-1.72353E-02	-1.78571E-02	1.17141E 00	-3.52727E 01	
0.90	1.19187E 00	-4.98040E-01	-9.96158E-03	-1.49983E-02	-1.99546E-02	1.29631E 00	-3.91748E 01	
1.00	1.18134E 00	-5.88379E-01	-1.18619E-02	-1.31976E-02	-2.20682E-02	1.41899E 00	-4.29597E 01	
1.10	1.17317E 00	-6.81743E-01	-1.38579E-02	-1.17153E-02	-2.42023E-02	1.53969E 00	-4.66293E 01	
1.20	1.16670E 00	-7.77518E-01	-1.59400E-02	-1.04731E-02	-2.63607E-02	1.65865E 00	-5.01863E 01	
1.30	1.16149E 00	-8.75215E-01	-1.81004E-02	-9.41633E-03	-2.85468E-02	1.77610E 00	-5.36337E 01	
1.40	1.15724E 00	-9.74449E-01	-2.03331E-02	-8.50603E-03	-3.07637E-02	1.89222E 00	-5.69751E 01	
1.50	1.15371E 00	-1.07491E 00	-2.26334E-02	-7.71343E-03	-3.30137E-02	2.00719E 00	-6.02141E 01	
1.60	1.15076E 00	-1.17637E 00	-2.49976E-02	-7.01693E-03	-3.52993E-02	2.12117E 00	-6.33546E 01	
1.70	1.14827E 00	-1.27862E 00	-2.74225E-02	-6.39992E-03	-3.76221E-02	2.23429E 00	-6.64002E 01	
1.80	1.14614E 00	-1.38153E 00	-2.99060E-02	-5.84944E-03	-3.99839E-02	2.34666E 00	-6.93548E 01	
1.90	1.14431E 00	-1.48496E 00	-3.24462E-02	-5.35522E-03	-4.23858E-02	2.45837E 00	-7.22218E 01	
2.00	1.14273E 00	-1.58883E 00	-3.50415E-02	-4.90901E-03	-4.48291E-02	2.56951E 00	-7.50050E 01	
2.10	1.14135E 00	-1.69305E 00	-3.76909E-02	-4.50410E-03	-4.73146E-02	2.68015E 00	-7.77074E 01	
2.20	1.14013E 00	-1.79756E 00	-4.03933E-02	-4.13500E-03	-4.98432E-02	2.79034E 00	-8.03327E 01	
2.30	1.13906E 00	-1.90231E 00	-4.31479E-02	-3.79713E-03	-5.24156E-02	2.90015E 00	-8.28836E 01	
2.40	1.13811E 00	-2.00726E 00	-4.59543E-02	-3.48669E-03	-5.50324E-02	3.00961E 00	-8.53633E 01	
2.50	1.13726E 00	-2.11238E 00	-4.88117E-02	-3.20044E-03	-5.76941E-02	3.11877E 00	-8.77746E 01	
2.60	1.13650E 00	-2.21763E 00	-5.17199E-02	-2.93567E-03	-6.04010E-02	3.22765E 00	-9.01202E 01	
2.70	1.13581E 00	-2.32300E 00	-5.46785E-02	-2.69005E-03	-6.31536E-02	3.33629E 00	-9.24028E 01	
2.80	1.13519E 00	-2.42847E 00	-5.76872E-02	-2.46156E-03	-6.59523E-02	3.44470E 00	-9.46247E 01	
2.90	1.13463E 00	-2.53401E 00	-6.07457E-02	-2.24846E-03	-6.87972E-02	3.55292E 00	-9.67883E 01	
3.00	1.13412E 00	-2.63962E 00	-6.38539E-02	-2.04925E-03	-7.16886E-02	3.66096E 00	-9.88958E 01	
3.10	1.13365E 00	-2.74529E 00	-6.70116E-02	-1.86262E-03	-7.46268E-02	3.76884E 00	-1.00949E 02	
3.20	1.13322E 00	-2.85100E 00	-7.02186E-02	-1.68741E-03	-7.76119E-02	3.87658E 00	-1.02951E 02	
3.30	1.13283E 00	-2.95675E 00	-7.34749E-02	-1.52260E-03	-8.06441E-02	3.98417E 00	-1.04903E 02	
3.40	1.13246E 00	-3.06254E 00	-7.67803E-02	-1.36729E-03	-8.37235E-02	4.09165E 00	-1.06807E 02	
3.50	1.13213E 00	-3.16835E 00	-8.01348E-02	-1.22069E-03	-8.68503E-02	4.19901E 00	-1.08664E 02	
3.60	1.13182E 00	-3.27418E 00	-8.35382E-02	-1.08208E-03	-9.00246E-02	4.30627E 00	-1.10476E 02	
3.70	1.13153E 00	-3.38002E 00	-8.69906E-02	-9.50829E-04	-9.32464E-02	4.41343E 00	-1.12246E 02	
3.80	1.13126E 00	-3.48588E 00	-9.04919E-02	-8.26363E-04	-9.65159E-02	4.52051E 00	-1.13974E 02	
3.90	1.13101E 00	-3.59175E 00	-9.40419E-02	-7.08172E-04	-9.98331E-02	4.62750E 00	-1.15662E 02	
4.00	1.13078E 00	-3.69763E 00	-9.76408E-02	-5.95788E-04	-1.03198E-01	4.73442E 00	-1.17311E 02	
4.10	1.13056E 00	-3.80351E 00	-1.01288E-01	-4.88806E-04	-1.06611E-01	4.84127E 00	-1.18922E 02	
4.20	1.13035E 00	-3.90939E 00	-1.04985E-01	-3.86838E-04	-1.10072E-01	4.94805E 00	-1.20498E 02	
4.30	1.13016E 00	-4.01528E 00	-1.08730E-01	-2.89540E-04	-1.13580E-01	5.05477E 00	-1.22038E 02	
4.40	1.12998E 00	-4.12117E 00	-1.12523E-01	-1.96597E-04	-1.17137E-01	5.16143E 00	-1.23545E 02	
4.50	1.12981E 00	-4.22705E 00	-1.16366E-01	-1.07735E-04	-1.20742E-01	5.26804E 00	-1.25019E 02	
4.60	1.12964E 00	-4.33293E 00	-1.20257E-01	-2.26840E-05	-1.24395E-01	5.37459E 00	-1.26462E 02	
4.70	1.12949E 00	-4.43881E 00	-1.24196E-01	5.88034E-05	-1.28096E-01	5.48110E 00	-1.27874E 02	
4.80	1.12934E 00	-4.54469E 00	-1.28184E-01	1.36928E-04	-1.31845E-01	5.58756E 00	-1.29256E 02	
4.90	1.12921E 00	-4.65056E 00	-1.32221E-01	2.11910E-04	-1.35643E-01	5.69399E 00	-1.30610E 02	
5.00	1.12908E 00	-4.75642E 00	-1.36307E-01	2.83920E-04	-1.39488E-01	5.80036E 00	-1.31936E 02	
5.10	1.12895E 00	-4.86228E 00	-1.40440E-01	3.53137E-04	-1.43382E-01	5.90670E 00	-1.33235E 02	
5.20	1.12883E 00	-4.96813E 00	-1.44623E-01	4.19728E-04	-1.47324E-01	6.01301E 00	-1.34508E 02	
5.30	1.12872E 00	-5.07397E 00	-1.48854E-01	4.83826E-04	-1.51314E-01	6.11928E 00	-1.35756E 02	
5.40	1.12861E 00	-5.17981E 00	-1.53133E-01	5.45570E-04	-1.55353E-01	6.22551E 00	-1.36979E 02	
5.50	1.12851E 00	-5.28563E 00	-1.57461E-01	6.05093E-04	-1.59439E-01	6.33171E 00	-1.38178E 02	
5.60	1.12841E 00	-5.39145E 00	-1.61838E-01	6.62502E-04	-1.63574E-01	6.43788E 00	-1.39355E 02	
5.70	1.12832E 00	-5.49726E 00	-1.66263E-01	7.17924E-04	-1.67758E-01	6.54403E 00	-1.40509E 02	
5.80	1.12823E 00	-5.60306E 00	-1.70737E-01	7.71439E-04	-1.71989E-01	6.65014E 00	-1.41641E 02	
5.90	1.12814E 00	-5.70885E 00	-1.75259E-01	8.23150E-04	-1.76269E-01	6.75622E 00	-1.42752E 02	
6.00	1.12805E 00	-5.81463E 00	-1.79829E-01	8.73156E-04	-1.80598E-01	6.86228E 00	-1.43842E 02	

ELECTRON RADIAL FUNCTIONS

Z = 5

A = 11

$\rho = 1.2 A^{1/3} F$

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	3.87608E-08	-2.80906E-06	-3.12141E-08	2.83957E 00	-4.64143E-07	5.56040E-05	-1.59485E-01
0.20	9.36414E-08	-1.71120E-05	-1.90498E-07	5.81189E 00	-1.44113E-06	1.72224E-04	-7.95946E-02
0.30	1.77054E-07	-5.19172E-05	-5.79702E-07	8.63122E 00	-2.96714E-06	3.53178E-04	-5.46619E-02
0.40	2.88739E-07	-1.15046E-04	-1.28984E-06	1.12845E 01	-5.04136E-06	5.96830E-04	-4.28357E-02
0.50	4.28917E-07	-2.12880E-04	-2.39877E-06	1.37478E 01	-7.66348E-06	9.01207E-04	-3.61562E-02
0.60	5.97836E-07	-3.50339E-04	-3.97101E-06	1.60077E 01	-1.08348E-05	1.26425E-03	-3.20035E-02
0.70	7.95713E-07	-5.31030E-04	-6.05910E-06	1.80616E 01	-1.45590E-05	1.68401E-03	-2.92617E-02
0.80	1.02273E-06	-7.57482E-04	-8.70574E-06	1.99158E 01	-1.88426E-05	2.15878E-03	-2.73757E-02
0.90	1.27903E-06	-1.03140E-03	-1.19462E-05	2.15822E 01	-2.36946E-05	2.68711E-03	-2.60396E-02
1.00	1.56472E-06	-1.35389E-03	-1.58103E-05	2.30758E 01	-2.91266E-05	3.26786E-03	-2.50721E-02
1.10	1.87991E-06	-1.72563E-03	-2.03241E-05	2.44133E 01	-3.51523E-05	3.90012E-03	-2.43598E-02
1.20	2.22465E-06	-2.14701E-03	-2.55110E-05	2.56110E 01	-4.17867E-05	4.58316E-03	-2.38287E-02
1.30	2.59900E-06	-2.61825E-03	-3.13929E-05	2.66845E 01	-4.90464E-05	5.31647E-03	-2.34291E-02
1.40	3.00299E-06	-3.13943E-03	-3.79906E-05	2.76484E 01	-5.69489E-05	6.09962E-03	-2.31265E-02
1.50	3.43668E-06	-3.71057E-03	-4.53243E-05	2.85155E 01	-6.55122E-05	6.93232E-03	-2.28761E-02
1.60	3.90007E-06	-4.33162E-03	-5.34137E-05	2.92975E 01	-7.47552E-05	7.81434E-03	-2.27215E-02
1.70	4.39319E-06	-5.00254E-03	-6.22783E-05	3.00046E 01	-8.46970E-05	8.74549E-03	-2.25887E-02
1.80	4.91606E-06	-5.72326E-03	-7.19377E-05	3.06456E 01	-9.53570E-05	9.72567E-03	-2.24884E-02
1.90	5.46869E-06	-6.49369E-03	-8.24113E-05	3.12282E 01	-1.06755E-04	1.07548E-02	-2.24136E-02
2.00	6.05108E-06	-7.31376E-03	-9.37186E-05	3.17593E 01	-1.18911E-04	1.18327E-02	-2.23586E-02
2.10	6.66326E-06	-8.18340E-03	-1.05879E-04	3.22447E 01	-1.31844E-04	1.29594E-02	-2.23194E-02
2.20	7.30521E-06	-9.10254E-03	-1.18912E-04	3.26896E 01	-1.45575E-04	1.41350E-02	-2.22926E-02
2.30	7.97695E-06	-1.00711E-02	-1.32838E-04	3.30983E 01	-1.60124E-04	1.53592E-02	-2.22757E-02
2.40	8.67849E-06	-1.10891E-02	-1.47675E-04	3.34747E 01	-1.75511E-04	1.66321E-02	-2.22668E-02
2.50	9.40982E-06	-1.21563E-02	-1.63445E-04	3.38222E 01	-1.91756E-04	1.79538E-02	-2.22641E-02
2.60	1.01710E-05	-1.32729E-02	-1.80166E-04	3.41438E 01	-2.08879E-04	1.93241E-02	-2.22665E-02
2.70	1.09619E-05	-1.44387E-02	-1.97858E-04	3.44421E 01	-2.26901E-04	2.07431E-02	-2.22730E-02
2.80	1.17826E-05	-1.56536E-02	-2.16541E-04	3.47194E 01	-2.45841E-04	2.22108E-02	-2.22826E-02
2.90	1.26331E-05	-1.69177E-02	-2.36235E-04	3.49776E 01	-2.65721E-04	2.37272E-02	-2.22948E-02
3.00	1.35135E-05	-1.82310E-02	-2.56960E-04	3.52185E 01	-2.86559E-04	2.52922E-02	-2.23091E-02
3.10	1.44236E-05	-1.95933E-02	-2.78736E-04	3.54438E 01	-3.08378E-04	2.69059E-02	-2.23249E-02
3.20	1.53636E-05	-2.10046E-02	-3.01582E-04	3.56549E 01	-3.31196E-04	2.85683E-02	-2.23420E-02
3.30	1.63333E-05	-2.24651E-02	-3.25520E-04	3.58528E 01	-3.55034E-04	3.02794E-02	-2.23600E-02
3.40	1.73329E-05	-2.39745E-02	-3.50568E-04	3.60389E 01	-3.79912E-04	3.20391E-02	-2.23787E-02
3.50	1.83623E-05	-2.55329E-02	-3.76747E-04	3.62140E 01	-4.05850E-04	3.38474E-02	-2.23979E-02
3.60	1.94215E-05	-2.71403E-02	-4.04077E-04	3.63792E 01	-4.32870E-04	3.57045E-02	-2.24175E-02
3.70	2.05104E-05	-2.87966E-02	-4.32577E-04	3.65350E 01	-4.60989E-04	3.76102E-02	-2.24372E-02
3.80	2.16292E-05	-3.05018E-02	-4.62269E-04	3.66824E 01	-4.90231E-04	3.95646E-02	-2.24571E-02
3.90	2.27778E-05	-3.22560E-02	-4.93172E-04	3.68219E 01	-5.20613E-04	4.15677E-02	-2.24770E-02
4.00	2.39563E-05	-3.40591E-02	-5.25305E-04	3.69541E 01	-5.52157E-04	4.36194E-02	-2.24969E-02
4.10	2.51645E-05	-3.59111E-02	-5.58690E-04	3.70796E 01	-5.84883E-04	4.57198E-02	-2.25166E-02
4.20	2.64025E-05	-3.78119E-02	-5.93346E-04	3.71988E 01	-6.18811E-04	4.78689E-02	-2.25362E-02
4.30	2.76703E-05	-3.97616E-02	-6.29294E-04	3.73122E 01	-6.53961E-04	5.00666E-02	-2.25556E-02
4.40	2.89680E-05	-4.17602E-02	-6.66553E-04	3.74202E 01	-6.90353E-04	5.23130E-02	-2.25747E-02
4.50	3.02954E-05	-4.38076E-02	-7.05143E-04	3.75231E 01	-7.28008E-04	5.46081E-02	-2.25936E-02
4.60	3.16527E-05	-4.59038E-02	-7.45085E-04	3.76213E 01	-7.66946E-04	5.69519E-02	-2.26122E-02
4.70	3.30397E-05	-4.80489E-02	-7.86399E-04	3.77151E 01	-8.07186E-04	5.93443E-02	-2.26306E-02
4.80	3.44566E-05	-5.02428E-02	-8.29105E-04	3.78048E 01	-8.48750E-04	6.17853E-02	-2.26486E-02
4.90	3.59033E-05	-5.24855E-02	-8.73223E-04	3.78906E 01	-8.91658E-04	6.42751E-02	-2.26663E-02
5.00	3.73798E-05	-5.47770E-02	-9.18773E-04	3.79728E 01	-9.35929E-04	6.68135E-02	-2.26837E-02
5.10	3.88860E-05	-5.71172E-02	-9.65775E-04	3.80516E 01	-9.81583E-04	6.94006E-02	-2.27008E-02
5.20	4.04221E-05	-5.95063E-02	-1.01425E-03	3.81271E 01	-1.02864E-03	7.20363E-02	-2.27175E-02
5.30	4.19880E-05	-6.19441E-02	-1.06422E-03	3.81996E 01	-1.07712E-03	7.47207E-02	-2.27340E-02
5.40	4.35837E-05	-6.44307E-02	-1.11570E-03	3.82693E 01	-1.12705E-03	7.74538E-02	-2.27501E-02
5.50	4.52092E-05	-6.69661E-02	-1.16871E-03	3.83363E 01	-1.17844E-03	8.02355E-02	-2.27659E-02
5.60	4.68646E-05	-6.95502E-02	-1.22328E-03	3.84008E 01	-1.23132E-03	8.30658E-02	-2.27814E-02
5.70	4.85496E-05	-7.21831E-02	-1.27941E-03	3.84628E 01	-1.28570E-03	8.59448E-02	-2.27966E-02
5.80	5.02646E-05	-7.48647E-02	-1.33715E-03	3.85226E 01	-1.34161E-03	8.88725E-02	-2.28114E-02
5.90	5.20093E-05	-7.75950E-02	-1.39649E-03	3.85802E 01	-1.39906E-03	9.18488E-02	-2.28260E-02
6.00	5.37838E-05	-8.03741E-02	-1.45747E-03	3.86358E 01	-1.45807E-03	9.48737E-02	-2.28403E-02



ELECTRON RADIAL FUNCTIONS

Electron	$Z=5$		$A=11$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	1.12797E 00	-5.92041E 00	-1.84448E-01	9.21537E-04	-1.84974E-01	6.96832E 00	-1.44912E 02	
6.20	1.12790E 00	-6.02617E 00	-1.89116E-01	9.68352E-04	-1.89399E-01	7.07433E 00	-1.45964E 02	
6.30	1.12782E 00	-6.13192E 00	-1.93832E-01	1.01370E-03	-1.93873E-01	7.18031E 00	-1.46996E 02	
6.40	1.12775E 00	-6.23767E 00	-1.98596E-01	1.05763E-03	-1.98394E-01	7.28627E 00	-1.48010E 02	
6.50	1.12768E 00	-6.34340E 00	-2.03409E-01	1.10022E-03	-2.02964E-01	7.39221E 00	-1.49006E 02	
6.60	1.12762E 00	-6.44912E 00	-2.08270E-01	1.14151E-03	-2.07583E-01	7.49813E 00	-1.49984E 02	
6.70	1.12755E 00	-6.55484E 00	-2.13180E-01	1.18158E-03	-2.12249E-01	7.60402E 00	-1.50946E 02	
6.80	1.12749E 00	-6.66054E 00	-2.18139E-01	1.22047E-03	-2.16964E-01	7.70990E 00	-1.51891E 02	
6.90	1.12743E 00	-6.76623E 00	-2.23145E-01	1.25824E-03	-2.21728E-01	7.81575E 00	-1.52821E 02	
7.00	1.12737E 00	-6.87191E 00	-2.28200E-01	1.29493E-03	-2.26540E-01	7.92158E 00	-1.53734E 02	
7.10	1.12731E 00	-6.97758E 00	-2.33304E-01	1.33059E-03	-2.31400E-01	8.02740E 00	-1.54633E 02	
7.20	1.12726E 00	-7.08324E 00	-2.38456E-01	1.36525E-03	-2.36308E-01	8.13319E 00	-1.55517E 02	
7.30	1.12721E 00	-7.18889E 00	-2.43656E-01	1.39896E-03	-2.41265E-01	8.23897E 00	-1.56386E 02	
7.40	1.12716E 00	-7.29453E 00	-2.48905E-01	1.43176E-03	-2.46270E-01	8.34473E 00	-1.57241E 02	
7.50	1.12711E 00	-7.40016E 00	-2.54202E-01	1.46369E-03	-2.51324E-01	8.45047E 00	-1.58083E 02	
7.60	1.12706E 00	-7.50577E 00	-2.59548E-01	1.49477E-03	-2.56426E-01	8.55619E 00	-1.58911E 02	
7.70	1.12701E 00	-7.61138E 00	-2.64942E-01	1.52504E-03	-2.61576E-01	8.66190E 00	-1.59726E 02	
7.80	1.12696E 00	-7.71698E 00	-2.70384E-01	1.55453E-03	-2.66775E-01	8.76759E 00	-1.60529E 02	
7.90	1.12692E 00	-7.82256E 00	-2.75875E-01	1.58327E-03	-2.72021E-01	8.87326E 00	-1.61319E 02	
8.00	1.12688E 00	-7.92813E 00	-2.81414E-01	1.61129E-03	-2.77317E-01	8.97892E 00	-1.62097E 02	
8.10	1.12683E 00	-8.03370E 00	-2.87002E-01	1.63861E-03	-2.82660E-01	9.08456E 00	-1.62863E 02	
8.20	1.12679E 00	-8.13925E 00	-2.92638E-01	1.66527E-03	-2.88052E-01	9.19018E 00	-1.63618E 02	
8.30	1.12675E 00	-8.24479E 00	-2.98322E-01	1.69127E-03	-2.93493E-01	9.29579E 00	-1.64361E 02	
8.40	1.12671E 00	-8.35032E 00	-3.04055E-01	1.71665E-03	-2.98981E-01	9.40138E 00	-1.65093E 02	
8.50	1.12668E 00	-8.45583E 00	-3.09836E-01	1.74143E-03	-3.04518E-01	9.50695E 00	-1.65815E 02	
8.60	1.12664E 00	-8.56134E 00	-3.15665E-01	1.76562E-03	-3.10104E-01	9.61252E 00	-1.66526E 02	
8.70	1.12660E 00	-8.66684E 00	-3.21543E-01	1.78926E-03	-3.15737E-01	9.71806E 00	-1.67227E 02	
8.80	1.12657E 00	-8.77232E 00	-3.27469E-01	1.81234E-03	-3.21419E-01	9.82359E 00	-1.67918E 02	
8.90	1.12653E 00	-8.87779E 00	-3.33443E-01	1.83491E-03	-3.27149E-01	9.92911E 00	-1.68600E 02	
9.00	1.12650E 00	-8.98326E 00	-3.39466E-01	1.85696E-03	-3.32928E-01	1.00346E 01	-1.69271E 02	
9.10	1.12646E 00	-9.08871E 00	-3.45537E-01	1.87853E-03	-3.38755E-01	1.01401E 01	-1.69934E 02	
9.20	1.12643E 00	-9.19415E 00	-3.51656E-01	1.89961E-03	-3.44630E-01	1.02456E 01	-1.70587E 02	
9.30	1.12640E 00	-9.29957E 00	-3.57824E-01	1.92024E-03	-3.50554E-01	1.03510E 01	-1.71231E 02	
9.40	1.12637E 00	-9.40499E 00	-3.64040E-01	1.94042E-03	-3.56525E-01	1.04565E 01	-1.71867E 02	
9.50	1.12634E 00	-9.51039E 00	-3.70304E-01	1.96017E-03	-3.62545E-01	1.05619E 01	-1.72494E 02	
9.60	1.12631E 00	-9.61579E 00	-3.76617E-01	1.97950E-03	-3.68614E-01	1.06673E 01	-1.73112E 02	
9.70	1.12628E 00	-9.72117E 00	-3.82977E-01	1.99842E-03	-3.74730E-01	1.07727E 01	-1.73723E 02	
9.80	1.12625E 00	-9.82654E 00	-3.89386E-01	2.01695E-03	-3.80895E-01	1.08781E 01	-1.74325E 02	
9.90	1.12622E 00	-9.93190E 00	-3.95844E-01	2.03509E-03	-3.87108E-01	1.09835E 01	-1.74920E 02	
10.00	1.12619E 00	-1.00372E 01	-4.02350E-01	2.05287E-03	-3.93370E-01	1.10888E 01	-1.75507E 02	
10.10	1.12617E 00	-1.01426E 01	-4.08903E-01	2.07028E-03	-3.99679E-01	1.11942E 01	-1.76086E 02	
10.20	1.12614E 00	-1.02479E 01	-4.15506E-01	2.08734E-03	-4.06037E-01	1.12995E 01	-1.76659E 02	
10.30	1.12611E 00	-1.03532E 01	-4.22156E-01	2.10406E-03	-4.12444E-01	1.14048E 01	-1.77224E 02	
10.40	1.12609E 00	-1.04585E 01	-4.28855E-01	2.12046E-03	-4.18898E-01	1.15101E 01	-1.77781E 02	
10.50	1.12606E 00	-1.05638E 01	-4.35602E-01	2.13653E-03	-4.25401E-01	1.16154E 01	-1.78332E 02	
10.60	1.12604E 00	-1.06691E 01	-4.42397E-01	2.15229E-03	-4.31952E-01	1.17207E 01	-1.78877E 02	
10.70	1.12601E 00	-1.07744E 01	-4.49240E-01	2.16774E-03	-4.38551E-01	1.18259E 01	-1.79414E 02	
10.80	1.12599E 00	-1.08796E 01	-4.56132E-01	2.18291E-03	-4.45198E-01	1.19312E 01	-1.79945E 02	
10.90	1.12597E 00	-1.09848E 01	-4.63072E-01	2.19779E-03	-4.51894E-01	1.20364E 01	-1.80470E 02	
11.00	1.12594E 00	-1.10901E 01	-4.70060E-01	2.21237E-03	-4.58638E-01	1.21417E 01	-1.80989E 02	
11.10	1.12592E 00	-1.11953E 01	-4.77096E-01	2.22669E-03	-4.65430E-01	1.22469E 01	-1.81501E 02	
11.20	1.12590E 00	-1.13005E 01	-4.84180E-01	2.24076E-03	-4.72270E-01	1.23521E 01	-1.82008E 02	
11.30	1.12588E 00	-1.14057E 01	-4.91313E-01	2.25456E-03	-4.79158E-01	1.24572E 01	-1.82508E 02	
11.40	1.12586E 00	-1.15109E 01	-4.98494E-01	2.26810E-03	-4.86095E-01	1.25624E 01	-1.83003E 02	
11.50	1.12583E 00	-1.16161E 01	-5.05723E-01	2.28140E-03	-4.93080E-01	1.26676E 01	-1.83492E 02	
11.60	1.12581E 00	-1.17212E 01	-5.13000E-01	2.29446E-03	-5.00113E-01	1.27727E 01	-1.83976E 02	
11.70	1.12579E 00	-1.18264E 01	-5.20325E-01	2.30729E-03	-5.07194E-01	1.28778E 01	-1.84454E 02	
11.80	1.12577E 00	-1.19315E 01	-5.27699E-01	2.31989E-03	-5.14323E-01	1.29829E 01	-1.84927E 02	
11.90	1.12575E 00	-1.20366E 01	-5.35120E-01	2.33227E-03	-5.21500E-01	1.30880E 01	-1.85395E 02	
12.00	1.12573E 00	-1.21417E 01	-5.42590E-01	2.34444E-03	-5.28726E-01	1.31931E 01	-1.85858E 02	





ELECTRON RADIAL FUNCTIONS

Electron	$Z = 5$		$A = 11$		$\rho = 1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
12.10	1.12571E 00	-1.22468E 01	-5.50108E-01	2.35639E-03	-5.36000E-01	1.32982E 01	-1.86315E 02			
12.20	1.12569E 00	-1.23519E 01	-5.57674E-01	2.36814E-03	-5.43322E-01	1.34033E 01	-1.86768E 02			
12.30	1.12567E 00	-1.24570E 01	-5.65289E-01	2.37969E-03	-5.50692E-01	1.35083E 01	-1.87216E 02			
12.40	1.12566E 00	-1.25620E 01	-5.72951E-01	2.39103E-03	-5.58110E-01	1.36133E 01	-1.87659E 02			
12.50	1.12564E 00	-1.26671E 01	-5.80662E-01	2.40219E-03	-5.65577E-01	1.37184E 01	-1.88097E 02			
12.60	1.12562E 00	-1.27721E 01	-5.88420E-01	2.41316E-03	-5.73091E-01	1.38234E 01	-1.88531E 02			
12.70	1.12560E 00	-1.28772E 01	-5.96227E-01	2.42395E-03	-5.80653E-01	1.39284E 01	-1.88960E 02			
12.80	1.12558E 00	-1.29822E 01	-6.04081E-01	2.43456E-03	-5.88264E-01	1.40334E 01	-1.89385E 02			
12.90	1.12557E 00	-1.30872E 01	-6.11984E-01	2.44499E-03	-5.95923E-01	1.41383E 01	-1.89806E 02			
13.00	1.12555E 00	-1.31922E 01	-6.19935E-01	2.45526E-03	-6.03630E-01	1.42433E 01	-1.90223E 02			
13.10	1.12553E 00	-1.32971E 01	-6.27934E-01	2.46536E-03	-6.11384E-01	1.43482E 01	-1.90635E 02			
13.20	1.12551E 00	-1.34021E 01	-6.35981E-01	2.47529E-03	-6.19187E-01	1.44531E 01	-1.91043E 02			
13.30	1.12550E 00	-1.35070E 01	-6.44076E-01	2.48506E-03	-6.27038E-01	1.45581E 01	-1.91447E 02			
13.40	1.12548E 00	-1.36120E 01	-6.52220E-01	2.49468E-03	-6.34938E-01	1.46630E 01	-1.91847E 02			
13.50	1.12547E 00	-1.37169E 01	-6.60411E-01	2.50414E-03	-6.42885E-01	1.47678E 01	-1.92243E 02			
13.60	1.12545E 00	-1.38218E 01	-6.68650E-01	2.51346E-03	-6.50880E-01	1.48727E 01	-1.92636E 02			
13.70	1.12543E 00	-1.39267E 01	-6.76937E-01	2.52262E-03	-6.58923E-01	1.49776E 01	-1.93025E 02			
13.80	1.12542E 00	-1.40316E 01	-6.85272E-01	2.53165E-03	-6.67014E-01	1.50824E 01	-1.93410E 02			
13.90	1.12540E 00	-1.41365E 01	-6.93656E-01	2.54053E-03	-6.75154E-01	1.51873E 01	-1.93791E 02			
14.00	1.12539E 00	-1.42413E 01	-7.02087E-01	2.54928E-03	-6.83341E-01	1.52921E 01	-1.94169E 02			
14.10	1.12537E 00	-1.43462E 01	-7.10567E-01	2.55789E-03	-6.91576E-01	1.53969E 01	-1.94543E 02			
14.20	1.12536E 00	-1.44510E 01	-7.19094E-01	2.56637E-03	-6.99860E-01	1.55017E 01	-1.94914E 02			
14.30	1.12534E 00	-1.45558E 01	-7.27669E-01	2.57472E-03	-7.08191E-01	1.56064E 01	-1.95282E 02			
14.40	1.12533E 00	-1.46606E 01	-7.36292E-01	2.58295E-03	-7.16570E-01	1.57112E 01	-1.95646E 02			
14.50	1.12531E 00	-1.47654E 01	-7.44964E-01	2.59104E-03	-7.24998E-01	1.58160E 01	-1.96007E 02			
14.60	1.12530E 00	-1.48702E 01	-7.53683E-01	2.59902E-03	-7.33473E-01	1.59207E 01	-1.96365E 02			
14.70	1.12528E 00	-1.49750E 01	-7.62450E-01	2.60689E-03	-7.41996E-01	1.60254E 01	-1.96719E 02			
14.80	1.12527E 00	-1.50797E 01	-7.71266E-01	2.61463E-03	-7.50568E-01	1.61301E 01	-1.97071E 02			
14.90	1.12526E 00	-1.51845E 01	-7.80129E-01	2.62226E-03	-7.59187E-01	1.62348E 01	-1.97419E 02			
15.00	1.12524E 00	-1.52892E 01	-7.89040E-01	2.62977E-03	-7.67854E-01	1.63395E 01	-1.97765E 02			
15.10	1.12523E 00	-1.53939E 01	-7.97999E-01	2.63717E-03	-7.76569E-01	1.64442E 01	-1.98107E 02			
15.20	1.12522E 00	-1.54986E 01	-8.07005E-01	2.64447E-03	-7.85332E-01	1.65488E 01	-1.98447E 02			
15.30	1.12520E 00	-1.56033E 01	-8.16060E-01	2.65166E-03	-7.94143E-01	1.66535E 01	-1.98784E 02			
15.40	1.12519E 00	-1.57080E 01	-8.25163E-01	2.65875E-03	-8.03002E-01	1.67581E 01	-1.99117E 02			
15.50	1.12518E 00	-1.58127E 01	-8.34313E-01	2.66573E-03	-8.11909E-01	1.68627E 01	-1.99449E 02			
15.60	1.12516E 00	-1.59173E 01	-8.43512E-01	2.67261E-03	-8.20863E-01	1.69673E 01	-1.99778E 02			
15.70	1.12515E 00	-1.60219E 01	-8.52758E-01	2.67940E-03	-8.29866E-01	1.70719E 01	-2.00103E 02			
15.80	1.12514E 00	-1.61266E 01	-8.62053E-01	2.68609E-03	-8.38916E-01	1.71765E 01	-2.00427E 02			
15.90	1.12513E 00	-1.62312E 01	-8.71395E-01	2.69268E-03	-8.48015E-01	1.72810E 01	-2.00747E 02			
16.00	1.12511E 00	-1.63358E 01	-8.80785E-01	2.69918E-03	-8.57161E-01	1.73856E 01	-2.01065E 02			
16.10	1.12510E 00	-1.64403E 01	-8.90223E-01	2.70559E-03	-8.66355E-01	1.74901E 01	-2.01381E 02			
16.20	1.12509E 00	-1.65449E 01	-8.99708E-01	2.71191E-03	-8.75597E-01	1.75946E 01	-2.01694E 02			
16.30	1.12508E 00	-1.66495E 01	-9.09242E-01	2.71814E-03	-8.84887E-01	1.76991E 01	-2.02005E 02			
16.40	1.12506E 00	-1.67540E 01	-9.18823E-01	2.72428E-03	-8.94224E-01	1.78036E 01	-2.02313E 02			
16.50	1.12505E 00	-1.68585E 01	-9.28452E-01	2.73033E-03	-9.03610E-01	1.79081E 01	-2.02619E 02			
16.60	1.12504E 00	-1.69630E 01	-9.38129E-01	2.73631E-03	-9.13043E-01	1.80125E 01	-2.02923E 02			
16.70	1.12503E 00	-1.70675E 01	-9.47854E-01	2.74220E-03	-9.22524E-01	1.81170E 01	-2.03224E 02			
16.80	1.12502E 00	-1.71720E 01	-9.57627E-01	2.74801E-03	-9.32053E-01	1.82214E 01	-2.03523E 02			
16.90	1.12501E 00	-1.72765E 01	-9.67447E-01	2.75374E-03	-9.41630E-01	1.83258E 01	-2.03821E 02			
17.00	1.12499E 00	-1.73809E 01	-9.77315E-01	2.75939E-03	-9.51254E-01	1.84302E 01	-2.04115E 02			
17.10	1.12498E 00	-1.74854E 01	-9.87231E-01	2.76497E-03	-9.60927E-01	1.85346E 01	-2.04408E 02			
17.20	1.12497E 00	-1.75898E 01	-9.97195E-01	2.77046E-03	-9.70647E-01	1.86389E 01	-2.04699E 02			
17.30	1.12496E 00	-1.76942E 01	-1.00721E 00	2.77589E-03	-9.80415E-01	1.87433E 01	-2.04987E 02			
17.40	1.12495E 00	-1.77986E 01	-1.01727E 00	2.78124E-03	-9.90230E-01	1.88476E 01	-2.05274E 02			
17.50	1.12494E 00	-1.79030E 01	-1.02737E 00	2.78652E-03	-1.00009E 00	1.89520E 01	-2.05558E 02			
17.60	1.12493E 00	-1.80074E 01	-1.03753E 00	2.79173E-03	-1.01000E 00	1.90563E 01	-2.05841E 02			
17.70	1.12492E 00	-1.81117E 01	-1.04773E 00	2.79687E-03	-1.01996E 00	1.91606E 01	-2.06121E 02			
17.80	1.12491E 00	-1.82161E 01	-1.05798E 00	2.80193E-03	-1.02997E 00	1.92649E 01	-2.06400E 02			
17.90	1.12490E 00	-1.83204E 01	-1.06828E 00	2.80694E-03	-1.04002E 00	1.93691E 01	-2.06677E 02			
18.00	1.12489E 00	-1.84247E 01	-1.07862E 00	2.81186E-03	-1.05013E 00	1.94734E 01	-2.06952E 02			

## ELECTRON RADIAL FUNCTIONS

	$Z=5$	$A=11$	$\rho=1.2 A^{1/3} F$	Electron			
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	2.18377E-04	-3.41846E-01	-9.06448E-03	4.02240E 01	-8.81737E-03	3.71248E-01	-2.33521E-02
12.20	2.21999E-04	-3.47636E-01	-9.26599E-03	4.02363E 01	-9.01272E-03	3.77282E-01	-2.33569E-02
12.30	2.25651E-04	-3.53475E-01	-9.47039E-03	4.02483E 01	-9.21090E-03	3.83364E-01	-2.33616E-02
12.40	2.29332E-04	-3.59362E-01	-9.67771E-03	4.02601E 01	-9.41193E-03	3.89494E-01	-2.33663E-02
12.50	2.33044E-04	-3.65298E-01	-9.88797E-03	4.02717E 01	-9.61584E-03	3.95673E-01	-2.33709E-02
12.60	2.36785E-04	-3.71282E-01	-1.01012E-02	4.02831E 01	-9.82263E-03	4.01901E-01	-2.33755E-02
12.70	2.40555E-04	-3.77315E-01	-1.03174E-02	4.02943E 01	-1.00323E-02	4.08176E-01	-2.33800E-02
12.80	2.44356E-04	-3.83396E-01	-1.05366E-02	4.03054E 01	-1.02450E-02	4.14501E-01	-2.33844E-02
12.90	2.48186E-04	-3.89525E-01	-1.07588E-02	4.03162E 01	-1.04606E-02	4.20873E-01	-2.33888E-02
13.00	2.52047E-04	-3.95703E-01	-1.09840E-02	4.03269E 01	-1.06791E-02	4.27294E-01	-2.33931E-02
13.10	2.55937E-04	-4.01929E-01	-1.12123E-02	4.03374E 01	-1.09007E-02	4.33763E-01	-2.33974E-02
13.20	2.59856E-04	-4.08204E-01	-1.14437E-02	4.03477E 01	-1.11252E-02	4.40280E-01	-2.34016E-02
13.30	2.63806E-04	-4.14526E-01	-1.16782E-02	4.03579E 01	-1.13528E-02	4.46846E-01	-2.34057E-02
13.40	2.67785E-04	-4.20898E-01	-1.19158E-02	4.03679E 01	-1.15835E-02	4.53460E-01	-2.34098E-02
13.50	2.71794E-04	-4.27317E-01	-1.21565E-02	4.03778E 01	-1.18172E-02	4.60123E-01	-2.34138E-02
13.60	2.75833E-04	-4.33785E-01	-1.24004E-02	4.03875E 01	-1.20540E-02	4.66834E-01	-2.34178E-02
13.70	2.79902E-04	-4.40301E-01	-1.26475E-02	4.03971E 01	-1.22939E-02	4.73593E-01	-2.34218E-02
13.80	2.84000E-04	-4.46866E-01	-1.28978E-02	4.04065E 01	-1.25369E-02	4.80400E-01	-2.34257E-02
13.90	2.88128E-04	-4.53479E-01	-1.31513E-02	4.04158E 01	-1.27831E-02	4.87256E-01	-2.34295E-02
14.00	2.92286E-04	-4.60140E-01	-1.34080E-02	4.04249E 01	-1.30325E-02	4.94160E-01	-2.34333E-02
14.10	2.96474E-04	-4.66849E-01	-1.36680E-02	4.04339E 01	-1.32851E-02	5.01112E-01	-2.34370E-02
14.20	3.00692E-04	-4.73607E-01	-1.39313E-02	4.04428E 01	-1.35408E-02	5.08113E-01	-2.34407E-02
14.30	3.04939E-04	-4.80413E-01	-1.41978E-02	4.04515E 01	-1.37998E-02	5.15162E-01	-2.34444E-02
14.40	3.09217E-04	-4.87268E-01	-1.44677E-02	4.04601E 01	-1.40621E-02	5.22259E-01	-2.34480E-02
14.50	3.13523E-04	-4.94170E-01	-1.47409E-02	4.04686E 01	-1.43276E-02	5.29404E-01	-2.34515E-02
14.60	3.17860E-04	-5.01121E-01	-1.50175E-02	4.04770E 01	-1.45964E-02	5.36598E-01	-2.34550E-02
14.70	3.22227E-04	-5.08121E-01	-1.52974E-02	4.04852E 01	-1.48685E-02	5.43840E-01	-2.34585E-02
14.80	3.26623E-04	-5.15168E-01	-1.55808E-02	4.04934E 01	-1.51440E-02	5.51130E-01	-2.34619E-02
14.90	3.31049E-04	-5.22264E-01	-1.58676E-02	4.05014E 01	-1.54228E-02	5.58469E-01	-2.34653E-02
15.00	3.35505E-04	-5.29408E-01	-1.61578E-02	4.05093E 01	-1.57049E-02	5.65855E-01	-2.34687E-02
15.10	3.39991E-04	-5.36600E-01	-1.64514E-02	4.05171E 01	-1.59905E-02	5.73290E-01	-2.34720E-02
15.20	3.44506E-04	-5.43841E-01	-1.67486E-02	4.05248E 01	-1.62795E-02	5.80773E-01	-2.34753E-02
15.30	3.49052E-04	-5.51130E-01	-1.70492E-02	4.05323E 01	-1.65719E-02	5.88305E-01	-2.34785E-02
15.40	3.53627E-04	-5.58467E-01	-1.73534E-02	4.05398E 01	-1.68677E-02	5.95884E-01	-2.34817E-02
15.50	3.58231E-04	-5.65852E-01	-1.76611E-02	4.05472E 01	-1.71671E-02	6.03512E-01	-2.34849E-02
15.60	3.62866E-04	-5.73286E-01	-1.79723E-02	4.05545E 01	-1.74699E-02	6.11188E-01	-2.34880E-02
15.70	3.67530E-04	-5.80767E-01	-1.82871E-02	4.05616E 01	-1.77762E-02	6.18912E-01	-2.34911E-02
15.80	3.72225E-04	-5.88297E-01	-1.86055E-02	4.05687E 01	-1.80860E-02	6.26685E-01	-2.34941E-02
15.90	3.76949E-04	-5.95876E-01	-1.89276E-02	4.05757E 01	-1.83994E-02	6.34505E-01	-2.34971E-02
16.00	3.81702E-04	-6.03502E-01	-1.92533E-02	4.05826E 01	-1.87164E-02	6.42374E-01	-2.35001E-02
16.10	3.86486E-04	-6.11177E-01	-1.95826E-02	4.05894E 01	-1.90370E-02	6.50291E-01	-2.35031E-02
16.20	3.91299E-04	-6.18899E-01	-1.99156E-02	4.05962E 01	-1.93611E-02	6.58256E-01	-2.35060E-02
16.30	3.96142E-04	-6.26670E-01	-2.02523E-02	4.06028E 01	-1.96889E-02	6.66269E-01	-2.35089E-02
16.40	4.01015E-04	-6.34489E-01	-2.05927E-02	4.06094E 01	-2.00204E-02	6.74331E-01	-2.35117E-02
16.50	4.05918E-04	-6.42357E-01	-2.09369E-02	4.06158E 01	-2.03555E-02	6.82440E-01	-2.35145E-02
16.60	4.10850E-04	-6.50272E-01	-2.12848E-02	4.06222E 01	-2.06943E-02	6.90598E-01	-2.35173E-02
16.70	4.15813E-04	-6.58236E-01	-2.16365E-02	4.06285E 01	-2.10368E-02	6.98804E-01	-2.35201E-02
16.80	4.20805E-04	-6.66247E-01	-2.19920E-02	4.06348E 01	-2.13830E-02	7.07058E-01	-2.35228E-02
16.90	4.25826E-04	-6.74307E-01	-2.23513E-02	4.06409E 01	-2.17330E-02	7.15360E-01	-2.35255E-02
17.00	4.30878E-04	-6.82415E-01	-2.27144E-02	4.06470E 01	-2.20868E-02	7.23710E-01	-2.35282E-02
17.10	4.35959E-04	-6.90572E-01	-2.30814E-02	4.06530E 01	-2.24443E-02	7.32108E-01	-2.35309E-02
17.20	4.41070E-04	-6.98776E-01	-2.34522E-02	4.06589E 01	-2.28057E-02	7.40555E-01	-2.35335E-02
17.30	4.46211E-04	-7.07028E-01	-2.38270E-02	4.06648E 01	-2.31709E-02	7.49049E-01	-2.35361E-02
17.40	4.51382E-04	-7.15329E-01	-2.42057E-02	4.06706E 01	-2.35399E-02	7.57592E-01	-2.35386E-02
17.50	4.56583E-04	-7.23678E-01	-2.45883E-02	4.06763E 01	-2.39128E-02	7.66182E-01	-2.35412E-02
17.60	4.61813E-04	-7.32074E-01	-2.49748E-02	4.06820E 01	-2.42896E-02	7.74821E-01	-2.35437E-02
17.70	4.67073E-04	-7.40519E-01	-2.53654E-02	4.06876E 01	-2.46703E-02	7.83508E-01	-2.35462E-02
17.80	4.72363E-04	-7.49012E-01	-2.57599E-02	4.06931E 01	-2.50549E-02	7.92243E-01	-2.35486E-02
17.90	4.77682E-04	-7.57553E-01	-2.61585E-02	4.06985E 01	-2.54435E-02	8.01026E-01	-2.35510E-02
18.00	4.83032E-04	-7.66142E-01	-2.65610E-02	4.07039E 01	-2.58360E-02	8.09857E-01	-2.35535E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=5$		$A=11$		$\rho=1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
18.10	1.12488E 00	-1.85290E 01	-1.08902E 00	2.81674E-03	-1.06028E 00	1.95776E 01	-2.07225E 02			
18.20	1.12486E 00	-1.86333E 01	-1.09946E 00	2.82154E-03	-1.07047E 00	1.96818E 01	-2.07496E 02			
18.30	1.12485E 00	-1.87376E 01	-1.10995E 00	2.82628E-03	-1.08072E 00	1.97860E 01	-2.07766E 02			
18.40	1.12484E 00	-1.88418E 01	-1.12048E 00	2.83096E-03	-1.09101E 00	1.98902E 01	-2.08034E 02			
18.50	1.12483E 00	-1.89460E 01	-1.13107E 00	2.83557E-03	-1.10135E 00	1.99944E 01	-2.08300E 02			
18.60	1.12482E 00	-1.90503E 01	-1.14170E 00	2.84013E-03	-1.11174E 00	2.00986E 01	-2.08564E 02			
18.70	1.12481E 00	-1.91545E 01	-1.15238E 00	2.84463E-03	-1.12218E 00	2.02027E 01	-2.08827E 02			
18.80	1.12480E 00	-1.92587E 01	-1.16310E 00	2.84907E-03	-1.13266E 00	2.03068E 01	-2.09088E 02			
18.90	1.12479E 00	-1.93629E 01	-1.17388E 00	2.85344E-03	-1.14319E 00	2.04110E 01	-2.09348E 02			
19.00	1.12478E 00	-1.94670E 01	-1.18470E 00	2.85776E-03	-1.15377E 00	2.05151E 01	-2.09606E 02			
19.10	1.12477E 00	-1.95712E 01	-1.19557E 00	2.86203E-03	-1.16440E 00	2.06191E 01	-2.09862E 02			
19.20	1.12477E 00	-1.96753E 01	-1.20649E 00	2.86623E-03	-1.17507E 00	2.07232E 01	-2.10117E 02			
19.30	1.12476E 00	-1.97794E 01	-1.21745E 00	2.87039E-03	-1.18579E 00	2.08273E 01	-2.10370E 02			
19.40	1.12475E 00	-1.98835E 01	-1.22847E 00	2.87449E-03	-1.19656E 00	2.09313E 01	-2.10622E 02			
19.50	1.12474E 00	-1.99876E 01	-1.23953E 00	2.87854E-03	-1.20738E 00	2.10353E 01	-2.10872E 02			
19.60	1.12473E 00	-2.00917E 01	-1.25063E 00	2.88254E-03	-1.21824E 00	2.11393E 01	-2.11121E 02			
19.70	1.12472E 00	-2.01957E 01	-1.26179E 00	2.88648E-03	-1.22915E 00	2.12433E 01	-2.11369E 02			
19.80	1.12471E 00	-2.02998E 01	-1.27299E 00	2.89036E-03	-1.24011E 00	2.13473E 01	-2.11615E 02			
19.90	1.12470E 00	-2.04038E 01	-1.28424E 00	2.89421E-03	-1.25112E 00	2.14513E 01	-2.11859E 02			
20.00	1.12469E 00	-2.05078E 01	-1.29554E 00	2.89800E-03	-1.26218E 00	2.15552E 01	-2.12103E 02			
20.10	1.12468E 00	-2.06118E 01	-1.30688E 00	2.90175E-03	-1.27328E 00	2.16591E 01	-2.12345E 02			
20.20	1.12467E 00	-2.07158E 01	-1.31828E 00	2.90544E-03	-1.28443E 00	2.17631E 01	-2.12585E 02			
20.30	1.12466E 00	-2.08198E 01	-1.32972E 00	2.90909E-03	-1.29563E 00	2.18670E 01	-2.12825E 02			
20.40	1.12466E 00	-2.09237E 01	-1.34120E 00	2.91269E-03	-1.30687E 00	2.19708E 01	-2.13062E 02			
20.50	1.12465E 00	-2.10277E 01	-1.35274E 00	2.91624E-03	-1.31816E 00	2.20747E 01	-2.13299E 02			
20.60	1.12464E 00	-2.11316E 01	-1.36432E 00	2.91975E-03	-1.32950E 00	2.21786E 01	-2.13535E 02			
20.70	1.12463E 00	-2.12355E 01	-1.37595E 00	2.92321E-03	-1.34089E 00	2.22824E 01	-2.13769E 02			
20.80	1.12462E 00	-2.13394E 01	-1.38763E 00	2.92663E-03	-1.35232E 00	2.23862E 01	-2.14002E 02			
20.90	1.12461E 00	-2.14432E 01	-1.39936E 00	2.93001E-03	-1.36381E 00	2.24900E 01	-2.14234E 02			
21.00	1.12460E 00	-2.15471E 01	-1.41113E 00	2.93334E-03	-1.37534E 00	2.25938E 01	-2.14465E 02			
21.10	1.12460E 00	-2.16509E 01	-1.42295E 00	2.93663E-03	-1.38691E 00	2.26976E 01	-2.14694E 02			
21.20	1.12459E 00	-2.17548E 01	-1.43482E 00	2.93987E-03	-1.39854E 00	2.28013E 01	-2.14923E 02			
21.30	1.12458E 00	-2.18586E 01	-1.44673E 00	2.94308E-03	-1.41021E 00	2.29051E 01	-2.15150E 02			
21.40	1.12457E 00	-2.19624E 01	-1.45869E 00	2.94624E-03	-1.42193E 00	2.30088E 01	-2.15376E 02			
21.50	1.12456E 00	-2.20661E 01	-1.47070E 00	2.94936E-03	-1.43369E 00	2.31125E 01	-2.15601E 02			
21.60	1.12455E 00	-2.21699E 01	-1.48276E 00	2.95245E-03	-1.44551E 00	2.32162E 01	-2.15825E 02			
21.70	1.12455E 00	-2.22736E 01	-1.49486E 00	2.95549E-03	-1.45737E 00	2.33198E 01	-2.16048E 02			
21.80	1.12454E 00	-2.23774E 01	-1.50702E 00	2.95849E-03	-1.46928E 00	2.34235E 01	-2.16270E 02			
21.90	1.12453E 00	-2.24811E 01	-1.51921E 00	2.96146E-03	-1.48124E 00	2.35271E 01	-2.16490E 02			
22.00	1.12452E 00	-2.25848E 01	-1.53146E 00	2.96438E-03	-1.49324E 00	2.36308E 01	-2.16710E 02			
22.10	1.12451E 00	-2.26885E 01	-1.54376E 00	2.96727E-03	-1.50529E 00	2.37344E 01	-2.16929E 02			
22.20	1.12451E 00	-2.27921E 01	-1.55610E 00	2.97013E-03	-1.51739E 00	2.38380E 01	-2.17147E 02			
22.30	1.12450E 00	-2.28958E 01	-1.56848E 00	2.97294E-03	-1.52953E 00	2.39415E 01	-2.17364E 02			
22.40	1.12449E 00	-2.29994E 01	-1.58092E 00	2.97572E-03	-1.54173E 00	2.40451E 01	-2.17579E 02			
22.50	1.12448E 00	-2.31030E 01	-1.59340E 00	2.97846E-03	-1.55397E 00	2.41486E 01	-2.17794E 02			
22.60	1.12447E 00	-2.32066E 01	-1.60593E 00	2.98117E-03	-1.56625E 00	2.42521E 01	-2.18008E 02			
22.70	1.12447E 00	-2.33102E 01	-1.61851E 00	2.98384E-03	-1.57859E 00	2.43557E 01	-2.18222E 02			
22.80	1.12446E 00	-2.34137E 01	-1.63114E 00	2.98648E-03	-1.59097E 00	2.44591E 01	-2.18434E 02			
22.90	1.12445E 00	-2.35173E 01	-1.64381E 00	2.98908E-03	-1.60340E 00	2.45626E 01	-2.18645E 02			
23.00	1.12444E 00	-2.36208E 01	-1.65653E 00	2.99164E-03	-1.61588E 00	2.46661E 01	-2.18856E 02			
23.10	1.12444E 00	-2.37243E 01	-1.66929E 00	2.99418E-03	-1.62840E 00	2.47695E 01	-2.19065E 02			
23.20	1.12443E 00	-2.38278E 01	-1.68211E 00	2.99669E-03	-1.64097E 00	2.48729E 01	-2.19274E 02			
23.30	1.12442E 00	-2.39313E 01	-1.69497E 00	2.99916E-03	-1.65359E 00	2.49763E 01	-2.19481E 02			
23.40	1.12441E 00	-2.40348E 01	-1.70788E 00	3.00159E-03	-1.66626E 00	2.50797E 01	-2.19688E 02			
23.50	1.12441E 00	-2.41382E 01	-1.72083E 00	3.00400E-03	-1.67897E 00	2.51831E 01	-2.19894E 02			
23.60	1.12440E 00	-2.42416E 01	-1.73384E 00	3.00637E-03	-1.69173E 00	2.52864E 01	-2.20100E 02			
23.70	1.12439E 00	-2.43450E 01	-1.74689E 00	3.00871E-03	-1.70454E 00	2.53898E 01	-2.20305E 02			
23.80	1.12439E 00	-2.44484E 01	-1.75998E 00	3.01103E-03	-1.71739E 00	2.54931E 01	-2.20508E 02			
23.90	1.12438E 00	-2.45518E 01	-1.77313E 00	3.01330E-03	-1.73029E 00	2.55964E 01	-2.20712E 02			
24.00	1.12437E 00	-2.46552E 01	-1.78632E 00	3.01556E-03	-1.74324E 00	2.56997E 01	-2.20914E 02			

## ELECTRON RADIAL FUNCTIONS

	$Z=5$	$A=11$	$\rho = 1.2 A^{1/3} F$	Electron			
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	4.88411E-04	-7.74780E-01	-2.69677E-02	4.07093E 01	-2.62325E-02	8.18736E-01	-2.35558E-02
18.20	4.93820E-04	-7.83465E-01	-2.73784E-02	4.07145E 01	-2.66331E-02	8.27663E-01	-2.35582E-02
18.30	4.99259E-04	-7.92198E-01	-2.77932E-02	4.07197E 01	-2.70376E-02	8.36638E-01	-2.35605E-02
18.40	5.04727E-04	-8.00979E-01	-2.82121E-02	4.07249E 01	-2.74462E-02	8.45661E-01	-2.35629E-02
18.50	5.10226E-04	-8.09809E-01	-2.86351E-02	4.07300E 01	-2.78589E-02	8.54732E-01	-2.35651E-02
18.60	5.15754E-04	-8.18686E-01	-2.90624E-02	4.07350E 01	-2.82756E-02	8.63852E-01	-2.35674E-02
18.70	5.21312E-04	-8.27611E-01	-2.94937E-02	4.07400E 01	-2.86965E-02	8.73019E-01	-2.35697E-02
18.80	5.26899E-04	-8.36585E-01	-2.99293E-02	4.07449E 01	-2.91215E-02	8.82234E-01	-2.35719E-02
18.90	5.32517E-04	-8.45606E-01	-3.03691E-02	4.07498E 01	-2.95506E-02	8.91497E-01	-2.35741E-02
19.00	5.38164E-04	-8.54676E-01	-3.08131E-02	4.07546E 01	-2.99839E-02	9.00808E-01	-2.35763E-02
19.10	5.43841E-04	-8.63793E-01	-3.12613E-02	4.07594E 01	-3.04214E-02	9.10167E-01	-2.35784E-02
19.20	5.49548E-04	-8.72959E-01	-3.17138E-02	4.07641E 01	-3.08630E-02	9.19574E-01	-2.35806E-02
19.30	5.55285E-04	-8.82172E-01	-3.21707E-02	4.07688E 01	-3.13090E-02	9.29029E-01	-2.35827E-02
19.40	5.61051E-04	-8.91434E-01	-3.26318E-02	4.07734E 01	-3.17591E-02	9.38532E-01	-2.35848E-02
19.50	5.66847E-04	-9.00743E-01	-3.30973E-02	4.07780E 01	-3.22135E-02	9.48083E-01	-2.35869E-02
19.60	5.72673E-04	-9.10100E-01	-3.35671E-02	4.07825E 01	-3.26722E-02	9.57682E-01	-2.35889E-02
19.70	5.78529E-04	-9.19505E-01	-3.40413E-02	4.07869E 01	-3.31352E-02	9.67329E-01	-2.35910E-02
19.80	5.84414E-04	-9.28959E-01	-3.45198E-02	4.07914E 01	-3.36025E-02	9.77024E-01	-2.35930E-02
19.90	5.90329E-04	-9.38460E-01	-3.50028E-02	4.07957E 01	-3.40742E-02	9.86766E-01	-2.35950E-02
20.00	5.96274E-04	-9.48009E-01	-3.54902E-02	4.08001E 01	-3.45502E-02	9.96557E-01	-2.35970E-02
20.10	6.02249E-04	-9.57606E-01	-3.59821E-02	4.08043E 01	-3.50307E-02	1.00640E 00	-2.35989E-02
20.20	6.08254E-04	-9.67251E-01	-3.64784E-02	4.08086E 01	-3.55155E-02	1.01628E 00	-2.36009E-02
20.30	6.14288E-04	-9.76944E-01	-3.69793E-02	4.08128E 01	-3.60047E-02	1.02622E 00	-2.36028E-02
20.40	6.20352E-04	-9.86684E-01	-3.74846E-02	4.08169E 01	-3.64984E-02	1.03620E 00	-2.36047E-02
20.50	6.26446E-04	-9.96473E-01	-3.79945E-02	4.08211E 01	-3.69965E-02	1.04623E 00	-2.36066E-02
20.60	6.32570E-04	-1.00631E 00	-3.85089E-02	4.08251E 01	-3.74992E-02	1.05631E 00	-2.36085E-02
20.70	6.38723E-04	-1.01619E 00	-3.90278E-02	4.08292E 01	-3.80063E-02	1.06643E 00	-2.36104E-02
20.80	6.44907E-04	-1.02613E 00	-3.95514E-02	4.08331E 01	-3.85179E-02	1.07660E 00	-2.36122E-02
20.90	6.51120E-04	-1.03611E 00	-4.00796E-02	4.08371E 01	-3.90341E-02	1.08683E 00	-2.36141E-02
21.00	6.57363E-04	-1.04613E 00	-4.06123E-02	4.08410E 01	-3.95549E-02	1.09710E 00	-2.36159E-02
21.10	6.63635E-04	-1.05621E 00	-4.11498E-02	4.08449E 01	-4.00802E-02	1.10741E 00	-2.36177E-02
21.20	6.69937E-04	-1.06633E 00	-4.16919E-02	4.08487E 01	-4.06101E-02	1.11778E 00	-2.36194E-02
21.30	6.76270E-04	-1.07651E 00	-4.22387E-02	4.08525E 01	-4.11446E-02	1.12819E 00	-2.36212E-02
21.40	6.82632E-04	-1.08672E 00	-4.27902E-02	4.08563E 01	-4.16838E-02	1.13865E 00	-2.36230E-02
21.50	6.89023E-04	-1.09699E 00	-4.33464E-02	4.08600E 01	-4.22277E-02	1.14916E 00	-2.36247E-02
21.60	6.95445E-04	-1.10731E 00	-4.39074E-02	4.08637E 01	-4.27762E-02	1.15971E 00	-2.36264E-02
21.70	7.01896E-04	-1.11767E 00	-4.44731E-02	4.08674E 01	-4.33294E-02	1.17032E 00	-2.36281E-02
21.80	7.08377E-04	-1.12808E 00	-4.50437E-02	4.08710E 01	-4.38874E-02	1.18097E 00	-2.36298E-02
21.90	7.14888E-04	-1.13854E 00	-4.56190E-02	4.08746E 01	-4.44500E-02	1.19167E 00	-2.36315E-02
22.00	7.21428E-04	-1.14904E 00	-4.61991E-02	4.08781E 01	-4.50175E-02	1.20242E 00	-2.36332E-02
22.10	7.27999E-04	-1.15960E 00	-4.67841E-02	4.08816E 01	-4.55897E-02	1.21321E 00	-2.36348E-02
22.20	7.34599E-04	-1.17020E 00	-4.73740E-02	4.08851E 01	-4.61667E-02	1.22405E 00	-2.36364E-02
22.30	7.41229E-04	-1.18085E 00	-4.79687E-02	4.08886E 01	-4.67485E-02	1.23494E 00	-2.36381E-02
22.40	7.47889E-04	-1.19155E 00	-4.85684E-02	4.08920E 01	-4.73352E-02	1.24588E 00	-2.36397E-02
22.50	7.54578E-04	-1.20229E 00	-4.91729E-02	4.08954E 01	-4.79267E-02	1.25687E 00	-2.36413E-02
22.60	7.61297E-04	-1.21308E 00	-4.97825E-02	4.08987E 01	-4.85231E-02	1.26790E 00	-2.36429E-02
22.70	7.68046E-04	-1.22392E 00	-5.03969E-02	4.09021E 01	-4.91244E-02	1.27898E 00	-2.36444E-02
22.80	7.74825E-04	-1.23481E 00	-5.10164E-02	4.09054E 01	-4.97306E-02	1.29011E 00	-2.36460E-02
22.90	7.81634E-04	-1.24575E 00	-5.16408E-02	4.09086E 01	-5.03417E-02	1.30129E 00	-2.36475E-02
23.00	7.88472E-04	-1.25673E 00	-5.22703E-02	4.09119E 01	-5.09578E-02	1.31251E 00	-2.36491E-02
23.10	7.95340E-04	-1.26776E 00	-5.29048E-02	4.09151E 01	-5.15789E-02	1.32378E 00	-2.36506E-02
23.20	8.02238E-04	-1.27884E 00	-5.35444E-02	4.09182E 01	-5.22049E-02	1.33510E 00	-2.36521E-02
23.30	8.09166E-04	-1.28997E 00	-5.41890E-02	4.09214E 01	-5.28360E-02	1.34647E 00	-2.36536E-02
23.40	8.16124E-04	-1.30114E 00	-5.48388E-02	4.09245E 01	-5.34721E-02	1.35789E 00	-2.36551E-02
23.50	8.23111E-04	-1.31237E 00	-5.54937E-02	4.09276E 01	-5.41132E-02	1.36935E 00	-2.36565E-02
23.60	8.30128E-04	-1.32363E 00	-5.61537E-02	4.09307E 01	-5.47595E-02	1.38086E 00	-2.36580E-02
23.70	8.37175E-04	-1.33495E 00	-5.68188E-02	4.09337E 01	-5.54108E-02	1.39242E 00	-2.36594E-02
23.80	8.44251E-04	-1.34632E 00	-5.74892E-02	4.09368E 01	-5.60672E-02	1.40402E 00	-2.36609E-02
23.90	8.51357E-04	-1.35773E 00	-5.81647E-02	4.09398E 01	-5.67288E-02	1.41567E 00	-2.36623E-02
24.00	8.58494E-04	-1.36919E 00	-5.88455E-02	4.09427E 01	-5.73955E-02	1.42737E 00	-2.36637E-02



ELECTRON RADIAL FUNCTIONS

Electron	$Z=5$		$A=11$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
24.10	1.12436E 00	-2.47585E 01	-1.79956E 00	3.01778E-03	-1.75624E 00	2.58029E 01	-2.21115E 02	02
24.20	1.12436E 00	-2.48618E 01	-1.81284E 00	3.01997E-03	-1.76928E 00	2.59062E 01	-2.21316E 02	02
24.30	1.12435E 00	-2.49652E 01	-1.82618E 00	3.02213E-03	-1.78237E 00	2.60094E 01	-2.21516E 02	02
24.40	1.12434E 00	-2.50684E 01	-1.83956E 00	3.02426E-03	-1.79551E 00	2.61126E 01	-2.21716E 02	02
24.50	1.12434E 00	-2.51717E 01	-1.85298E 00	3.02636E-03	-1.80870E 00	2.62158E 01	-2.21914E 02	02
24.60	1.12433E 00	-2.52750E 01	-1.86646E 00	3.02844E-03	-1.82193E 00	2.63190E 01	-2.22112E 02	02
24.70	1.12432E 00	-2.53782E 01	-1.87998E 00	3.03049E-03	-1.83521E 00	2.64222E 01	-2.22310E 02	02
24.80	1.12432E 00	-2.54814E 01	-1.89355E 00	3.03251E-03	-1.84853E 00	2.65253E 01	-2.22506E 02	02
24.90	1.12431E 00	-2.55846E 01	-1.90716E 00	3.03450E-03	-1.86191E 00	2.66284E 01	-2.22702E 02	02
25.00	1.12430E 00	-2.56878E 01	-1.92082E 00	3.03646E-03	-1.87533E 00	2.67315E 01	-2.22898E 02	02
25.10	1.12429E 00	-2.57910E 01	-1.93453E 00	3.03840E-03	-1.88879E 00	2.68346E 01	-2.23092E 02	02
25.20	1.12429E 00	-2.58941E 01	-1.94829E 00	3.04031E-03	-1.90231E 00	2.69377E 01	-2.23286E 02	02
25.30	1.12428E 00	-2.59973E 01	-1.96209E 00	3.04220E-03	-1.91587E 00	2.70407E 01	-2.23480E 02	02
25.40	1.12427E 00	-2.61004E 01	-1.97594E 00	3.04406E-03	-1.92948E 00	2.71438E 01	-2.23673E 02	02
25.50	1.12427E 00	-2.62035E 01	-1.98984E 00	3.04589E-03	-1.94313E 00	2.72468E 01	-2.23865E 02	02
25.60	1.12426E 00	-2.63065E 01	-2.00379E 00	3.04770E-03	-1.95683E 00	2.73498E 01	-2.24056E 02	02
25.70	1.12425E 00	-2.64096E 01	-2.01778E 00	3.04948E-03	-1.97058E 00	2.74528E 01	-2.24248E 02	02
25.80	1.12425E 00	-2.65126E 01	-2.03181E 00	3.05123E-03	-1.98438E 00	2.75557E 01	-2.24438E 02	02
25.90	1.12424E 00	-2.66157E 01	-2.04590E 00	3.05297E-03	-1.99822E 00	2.76587E 01	-2.24628E 02	02
26.00	1.12424E 00	-2.67187E 01	-2.06003E 00	3.05467E-03	-2.01211E 00	2.77616E 01	-2.24817E 02	02
26.10	1.12423E 00	-2.68217E 01	-2.07421E 00	3.05635E-03	-2.02605E 00	2.78645E 01	-2.25006E 02	02
26.20	1.12422E 00	-2.69246E 01	-2.08844E 00	3.05801E-03	-2.04003E 00	2.79674E 01	-2.25195E 02	02
26.30	1.12422E 00	-2.70276E 01	-2.10271E 00	3.05965E-03	-2.05407E 00	2.80703E 01	-2.25382E 02	02
26.40	1.12421E 00	-2.71305E 01	-2.11703E 00	3.06126E-03	-2.06814E 00	2.81731E 01	-2.25570E 02	02
26.50	1.12420E 00	-2.72334E 01	-2.13140E 00	3.06285E-03	-2.08227E 00	2.82759E 01	-2.25756E 02	02
26.60	1.12420E 00	-2.73363E 01	-2.14581E 00	3.06441E-03	-2.09644E 00	2.83787E 01	-2.25942E 02	02
26.70	1.12419E 00	-2.74392E 01	-2.16027E 00	3.06595E-03	-2.11066E 00	2.84815E 01	-2.26128E 02	02
26.80	1.12418E 00	-2.75420E 01	-2.17478E 00	3.06747E-03	-2.12493E 00	2.85843E 01	-2.26313E 02	02
26.90	1.12418E 00	-2.76449E 01	-2.18933E 00	3.06897E-03	-2.13924E 00	2.86871E 01	-2.26498E 02	02
27.00	1.12417E 00	-2.77477E 01	-2.20394E 00	3.07044E-03	-2.15360E 00	2.87898E 01	-2.26682E 02	02
27.10	1.12417E 00	-2.78505E 01	-2.21858E 00	3.07188E-03	-2.16800E 00	2.88925E 01	-2.26866E 02	02
27.20	1.12416E 00	-2.79533E 01	-2.23328E 00	3.07332E-03	-2.18246E 00	2.89952E 01	-2.27049E 02	02
27.30	1.12415E 00	-2.80561E 01	-2.24802E 00	3.07472E-03	-2.19696E 00	2.90979E 01	-2.27232E 02	02
27.40	1.12415E 00	-2.81588E 01	-2.26281E 00	3.07611E-03	-2.21150E 00	2.92006E 01	-2.27415E 02	02
27.50	1.12414E 00	-2.82615E 01	-2.27764E 00	3.07748E-03	-2.22610E 00	2.93032E 01	-2.27597E 02	02
27.60	1.12414E 00	-2.83642E 01	-2.29253E 00	3.07882E-03	-2.24074E 00	2.94058E 01	-2.27778E 02	02
27.70	1.12413E 00	-2.84669E 01	-2.30745E 00	3.08014E-03	-2.25542E 00	2.95084E 01	-2.27959E 02	02
27.80	1.12412E 00	-2.85696E 01	-2.32243E 00	3.08144E-03	-2.27016E 00	2.96110E 01	-2.28140E 02	02
27.90	1.12412E 00	-2.86722E 01	-2.33745E 00	3.08272E-03	-2.28494E 00	2.97136E 01	-2.28320E 02	02
28.00	1.12411E 00	-2.87749E 01	-2.35252E 00	3.08398E-03	-2.29977E 00	2.98161E 01	-2.28500E 02	02
28.10	1.12411E 00	-2.88775E 01	-2.36764E 00	3.08522E-03	-2.31464E 00	2.99187E 01	-2.28680E 02	02
28.20	1.12410E 00	-2.89801E 01	-2.38280E 00	3.08644E-03	-2.32956E 00	3.00212E 01	-2.28859E 02	02
28.30	1.12409E 00	-2.90827E 01	-2.39801E 00	3.08764E-03	-2.34453E 00	3.01237E 01	-2.29038E 02	02
28.40	1.12409E 00	-2.91852E 01	-2.41326E 00	3.08882E-03	-2.35954E 00	3.02261E 01	-2.29216E 02	02
28.50	1.12408E 00	-2.92878E 01	-2.42857E 00	3.08998E-03	-2.37460E 00	3.03286E 01	-2.29394E 02	02
28.60	1.12408E 00	-2.93903E 01	-2.44392E 00	3.09112E-03	-2.38971E 00	3.04310E 01	-2.29572E 02	02
28.70	1.12407E 00	-2.94928E 01	-2.45931E 00	3.09224E-03	-2.40487E 00	3.05334E 01	-2.29749E 02	02
28.80	1.12407E 00	-2.95952E 01	-2.47475E 00	3.09335E-03	-2.42007E 00	3.06358E 01	-2.29926E 02	02
28.90	1.12406E 00	-2.96977E 01	-2.49024E 00	3.09443E-03	-2.43531E 00	3.07382E 01	-2.30103E 02	02
29.00	1.12405E 00	-2.98001E 01	-2.50578E 00	3.09550E-03	-2.45061E 00	3.08406E 01	-2.30279E 02	02
29.10	1.12405E 00	-2.99026E 01	-2.52136E 00	3.09654E-03	-2.46595E 00	3.09429E 01	-2.30455E 02	02
29.20	1.12404E 00	-3.00050E 01	-2.53699E 00	3.09757E-03	-2.48134E 00	3.10452E 01	-2.30631E 02	02
29.30	1.12404E 00	-3.01073E 01	-2.55267E 00	3.09858E-03	-2.49677E 00	3.11475E 01	-2.30806E 02	02
29.40	1.12403E 00	-3.02097E 01	-2.56839E 00	3.09957E-03	-2.51225E 00	3.12498E 01	-2.30981E 02	02
29.50	1.12403E 00	-3.03120E 01	-2.58416E 00	3.10054E-03	-2.52778E 00	3.13520E 01	-2.31156E 02	02
29.60	1.12402E 00	-3.04144E 01	-2.59997E 00	3.10149E-03	-2.54335E 00	3.14542E 01	-2.31330E 02	02
29.70	1.12401E 00	-3.05167E 01	-2.61583E 00	3.10243E-03	-2.55897E 00	3.15565E 01	-2.31504E 02	02
29.80	1.12401E 00	-3.06189E 01	-2.63174E 00	3.10335E-03	-2.57464E 00	3.16587E 01	-2.31678E 02	02
29.90	1.12400E 00	-3.07212E 01	-2.64770E 00	3.10426E-03	-2.59036E 00	3.17608E 01	-2.31852E 02	02
30.00	1.12400E 00	-3.08234E 01	-2.66370E 00	3.10514E-03	-2.60612E 00	3.18630E 01	-2.32025E 02	02

## ELECTRON RADIAL FUNCTIONS

	$Z=5$	$A=11$	$\rho=1.2 A^{1/3} F$				Electron
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
24.10	8.65660E-04	-1.38070E 00	-5.95315E-02	4.09456E 01	-5.80674E-02	1.43912E 00	-2.36651E-02
24.20	8.72856E-04	-1.39225E 00	-6.02228E-02	4.09486E 01	-5.87445E-02	1.45092E 00	-2.36665E-02
24.30	8.80081E-04	-1.40386E 00	-6.09193E-02	4.09515E 01	-5.94267E-02	1.46276E 00	-2.36679E-02
24.40	8.87336E-04	-1.41551E 00	-6.16211E-02	4.09543E 01	-6.01143E-02	1.47465E 00	-2.36693E-02
24.50	8.94621E-04	-1.42720E 00	-6.23283E-02	4.09572E 01	-6.08070E-02	1.48659E 00	-2.36706E-02
24.60	9.01936E-04	-1.43895E 00	-6.30408E-02	4.09600E 01	-6.15050E-02	1.49858E 00	-2.36720E-02
24.70	9.09281E-04	-1.45074E 00	-6.37586E-02	4.09628E 01	-6.22084E-02	1.51061E 00	-2.36733E-02
24.80	9.16655E-04	-1.46258E 00	-6.44818E-02	4.09655E 01	-6.29170E-02	1.52269E 00	-2.36746E-02
24.90	9.24059E-04	-1.47447E 00	-6.52104E-02	4.09683E 01	-6.36309E-02	1.53482E 00	-2.36759E-02
25.00	9.31493E-04	-1.48641E 00	-6.59444E-02	4.09710E 01	-6.43502E-02	1.54700E 00	-2.36773E-02
25.10	9.38957E-04	-1.49839E 00	-6.66838E-02	4.09737E 01	-6.50749E-02	1.55922E 00	-2.36786E-02
25.20	9.46450E-04	-1.51042E 00	-6.74287E-02	4.09764E 01	-6.58049E-02	1.57149E 00	-2.36798E-02
25.30	9.53974E-04	-1.52250E 00	-6.81791E-02	4.09790E 01	-6.65404E-02	1.58381E 00	-2.36811E-02
25.40	9.61526E-04	-1.53463E 00	-6.89349E-02	4.09817E 01	-6.72812E-02	1.59618E 00	-2.36824E-02
25.50	9.69109E-04	-1.54680E 00	-6.96963E-02	4.09843E 01	-6.80275E-02	1.60859E 00	-2.36837E-02
25.60	9.76722E-04	-1.55902E 00	-7.04632E-02	4.09869E 01	-6.87793E-02	1.62105E 00	-2.36849E-02
25.70	9.84364E-04	-1.57129E 00	-7.12356E-02	4.09895E 01	-6.95366E-02	1.63356E 00	-2.36862E-02
25.80	9.92036E-04	-1.58360E 00	-7.20136E-02	4.09920E 01	-7.02994E-02	1.64611E 00	-2.36874E-02
25.90	9.99738E-04	-1.59597E 00	-7.27972E-02	4.09946E 01	-7.10676E-02	1.65872E 00	-2.36886E-02
26.00	1.00747E-03	-1.60838E 00	-7.35864E-02	4.09971E 01	-7.18415E-02	1.67137E 00	-2.36898E-02
26.10	1.01523E-03	-1.62084E 00	-7.43813E-02	4.09996E 01	-7.26209E-02	1.68407E 00	-2.36910E-02
26.20	1.02302E-03	-1.63334E 00	-7.51818E-02	4.10020E 01	-7.34058E-02	1.69681E 00	-2.36922E-02
26.30	1.03084E-03	-1.64590E 00	-7.59879E-02	4.10045E 01	-7.41964E-02	1.70960E 00	-2.36934E-02
26.40	1.03869E-03	-1.65850E 00	-7.67997E-02	4.10069E 01	-7.49926E-02	1.72244E 00	-2.36946E-02
26.50	1.04657E-03	-1.67114E 00	-7.76173E-02	4.10093E 01	-7.57944E-02	1.73533E 00	-2.36958E-02
26.60	1.05448E-03	-1.68384E 00	-7.84405E-02	4.10117E 01	-7.66019E-02	1.74827E 00	-2.36970E-02
26.70	1.06242E-03	-1.69658E 00	-7.92695E-02	4.10141E 01	-7.74151E-02	1.76125E 00	-2.36981E-02
26.80	1.07039E-03	-1.70937E 00	-8.01043E-02	4.10164E 01	-7.82339E-02	1.77428E 00	-2.36993E-02
26.90	1.07839E-03	-1.72221E 00	-8.09449E-02	4.10188E 01	-7.90585E-02	1.78736E 00	-2.37004E-02
27.00	1.08642E-03	-1.73509E 00	-8.17912E-02	4.10211E 01	-7.98888E-02	1.80048E 00	-2.37015E-02
27.10	1.09448E-03	-1.74802E 00	-8.26434E-02	4.10234E 01	-8.07249E-02	1.81365E 00	-2.37027E-02
27.20	1.10257E-03	-1.76100E 00	-8.35015E-02	4.10257E 01	-8.15668E-02	1.82687E 00	-2.37038E-02
27.30	1.11069E-03	-1.77403E 00	-8.43653E-02	4.10280E 01	-8.24144E-02	1.84014E 00	-2.37049E-02
27.40	1.11884E-03	-1.78711E 00	-8.52351E-02	4.10302E 01	-8.32679E-02	1.85345E 00	-2.37060E-02
27.50	1.12702E-03	-1.80023E 00	-8.61108E-02	4.10325E 01	-8.41272E-02	1.86681E 00	-2.37071E-02
27.60	1.13522E-03	-1.81340E 00	-8.69924E-02	4.10347E 01	-8.49923E-02	1.88022E 00	-2.37082E-02
27.70	1.14346E-03	-1.82661E 00	-8.78799E-02	4.10369E 01	-8.58633E-02	1.89368E 00	-2.37092E-02
27.80	1.15173E-03	-1.83987E 00	-8.87734E-02	4.10391E 01	-8.67403E-02	1.90718E 00	-2.37103E-02
27.90	1.16003E-03	-1.85318E 00	-8.96728E-02	4.10412E 01	-8.76231E-02	1.92073E 00	-2.37114E-02
28.00	1.16835E-03	-1.86654E 00	-9.05783E-02	4.10434E 01	-8.85118E-02	1.93432E 00	-2.37124E-02
28.10	1.17671E-03	-1.87995E 00	-9.14898E-02	4.10455E 01	-8.94065E-02	1.94797E 00	-2.37135E-02
28.20	1.18510E-03	-1.89340E 00	-9.24073E-02	4.10477E 01	-9.03072E-02	1.96166E 00	-2.37145E-02
28.30	1.19351E-03	-1.90690E 00	-9.33309E-02	4.10498E 01	-9.12139E-02	1.97540E 00	-2.37156E-02
28.40	1.20196E-03	-1.92045E 00	-9.42605E-02	4.10519E 01	-9.21266E-02	1.98919E 00	-2.37166E-02
28.50	1.21044E-03	-1.93404E 00	-9.51962E-02	4.10539E 01	-9.30453E-02	2.00302E 00	-2.37176E-02
28.60	1.21894E-03	-1.94768E 00	-9.61381E-02	4.10560E 01	-9.39700E-02	2.01690E 00	-2.37186E-02
28.70	1.22748E-03	-1.96137E 00	-9.70861E-02	4.10580E 01	-9.49008E-02	2.03083E 00	-2.37197E-02
28.80	1.23604E-03	-1.97510E 00	-9.80402E-02	4.10601E 01	-9.58377E-02	2.04480E 00	-2.37207E-02
28.90	1.24464E-03	-1.98889E 00	-9.90005E-02	4.10621E 01	-9.67807E-02	2.05882E 00	-2.37217E-02
29.00	1.25326E-03	-2.00272E 00	-9.99670E-02	4.10641E 01	-9.77299E-02	2.07289E 00	-2.37226E-02
29.10	1.26192E-03	-2.01659E 00	-1.00940E-01	4.10661E 01	-9.86852E-02	2.08701E 00	-2.37236E-02
29.20	1.27060E-03	-2.03052E 00	-1.01919E-01	4.10681E 01	-9.96466E-02	2.10117E 00	-2.37246E-02
29.30	1.27932E-03	-2.04449E 00	-1.02904E-01	4.10700E 01	-1.00614E-01	2.11538E 00	-2.37256E-02
29.40	1.28806E-03	-2.05851E 00	-1.03895E-01	4.10720E 01	-1.01588E-01	2.12964E 00	-2.37265E-02
29.50	1.29683E-03	-2.07257E 00	-1.04893E-01	4.10739E 01	-1.02568E-01	2.14394E 00	-2.37275E-02
29.60	1.30564E-03	-2.08669E 00	-1.05897E-01	4.10758E 01	-1.03554E-01	2.15830E 00	-2.37284E-02
29.70	1.31447E-03	-2.10085E 00	-1.06907E-01	4.10777E 01	-1.04547E-01	2.17269E 00	-2.37294E-02
29.80	1.32333E-03	-2.11505E 00	-1.07924E-01	4.10796E 01	-1.05546E-01	2.18714E 00	-2.37303E-02
29.90	1.33223E-03	-2.12931E 00	-1.08947E-01	4.10815E 01	-1.06551E-01	2.20163E 00	-2.37313E-02
30.00	1.34115E-03	-2.14361E 00	-1.09977E-01	4.10834E 01	-1.07562E-01	2.21617E 00	-2.37322E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=5$		$A=11$		$\rho=1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
30.10	1.12399E 00	-3.09257E 01	-2.67975E 00	3.10601E-03	-2.62192E 00	3.19651E 01	-2.32198E 02			
30.20	1.12399E 00	-3.10279E 01	-2.69584E 00	3.10686E-03	-2.63778E 00	3.20672E 01	-2.32371E 02			
30.30	1.12398E 00	-3.11300E 01	-2.71198E 00	3.10769E-03	-2.65368E 00	3.21693E 01	-2.32543E 02			
30.40	1.12398E 00	-3.12322E 01	-2.72817E 00	3.10851E-03	-2.66962E 00	3.22714E 01	-2.32715E 02			
30.50	1.12397E 00	-3.13343E 01	-2.74440E 00	3.10931E-03	-2.68562E 00	3.23734E 01	-2.32887E 02			
30.60	1.12397E 00	-3.14365E 01	-2.76068E 00	3.11009E-03	-2.70165E 00	3.24755E 01	-2.33059E 02			
30.70	1.12396E 00	-3.15386E 01	-2.77701E 00	3.11086E-03	-2.71774E 00	3.25775E 01	-2.33230E 02			
30.80	1.12396E 00	-3.16406E 01	-2.79338E 00	3.11161E-03	-2.73387E 00	3.26795E 01	-2.33402E 02			
30.90	1.12395E 00	-3.17427E 01	-2.80980E 00	3.11235E-03	-2.75005E 00	3.27814E 01	-2.33573E 02			
31.00	1.12394E 00	-3.18447E 01	-2.82627E 00	3.11307E-03	-2.76628E 00	3.28834E 01	-2.33744E 02			
31.10	1.12394E 00	-3.19468E 01	-2.84278E 00	3.11377E-03	-2.78255E 00	3.29853E 01	-2.33914E 02			
31.20	1.12393E 00	-3.20488E 01	-2.85934E 00	3.11446E-03	-2.79886E 00	3.30872E 01	-2.34085E 02			
31.30	1.12393E 00	-3.21507E 01	-2.87594E 00	3.11513E-03	-2.81523E 00	3.31891E 01	-2.34254E 02			
31.40	1.12392E 00	-3.22527E 01	-2.89259E 00	3.11579E-03	-2.83164E 00	3.32910E 01	-2.34424E 02			
31.50	1.12392E 00	-3.23546E 01	-2.90929E 00	3.11642E-03	-2.84810E 00	3.33928E 01	-2.34594E 02			
31.60	1.12391E 00	-3.24565E 01	-2.92604E 00	3.11705E-03	-2.86460E 00	3.34946E 01	-2.34764E 02			
31.70	1.12391E 00	-3.25584E 01	-2.94283E 00	3.11766E-03	-2.88115E 00	3.35964E 01	-2.34933E 02			
31.80	1.12390E 00	-3.26603E 01	-2.95966E 00	3.11826E-03	-2.89774E 00	3.36982E 01	-2.35102E 02			
31.90	1.12390E 00	-3.27622E 01	-2.97655E 00	3.11883E-03	-2.91439E 00	3.38000E 01	-2.35271E 02			
32.00	1.12389E 00	-3.28640E 01	-2.99348E 00	3.11940E-03	-2.93108E 00	3.39017E 01	-2.35440E 02			
32.10	1.12389E 00	-3.29658E 01	-3.01045E 00	3.11995E-03	-2.94781E 00	3.40034E 01	-2.35609E 02			
32.20	1.12388E 00	-3.30676E 01	-3.02747E 00	3.12048E-03	-2.96459E 00	3.41051E 01	-2.35777E 02			
32.30	1.12388E 00	-3.31694E 01	-3.04454E 00	3.12101E-03	-2.98142E 00	3.42068E 01	-2.35946E 02			
32.40	1.12387E 00	-3.32711E 01	-3.06165E 00	3.12151E-03	-2.99829E 00	3.43085E 01	-2.36114E 02			
32.50	1.12387E 00	-3.33728E 01	-3.07881E 00	3.12200E-03	-3.01521E 00	3.44101E 01	-2.36282E 02			
32.60	1.12386E 00	-3.34745E 01	-3.09602E 00	3.12248E-03	-3.03218E 00	3.45117E 01	-2.36450E 02			
32.70	1.12386E 00	-3.35762E 01	-3.11327E 00	3.12294E-03	-3.04919E 00	3.46133E 01	-2.36617E 02			
32.80	1.12385E 00	-3.36779E 01	-3.13057E 00	3.12339E-03	-3.06625E 00	3.47149E 01	-2.36785E 02			
32.90	1.12385E 00	-3.37795E 01	-3.14792E 00	3.12382E-03	-3.08335E 00	3.48164E 01	-2.36953E 02			
33.00	1.12384E 00	-3.38811E 01	-3.16531E 00	3.12425E-03	-3.10050E 00	3.49179E 01	-2.37120E 02			
33.10	1.12384E 00	-3.39827E 01	-3.18275E 00	3.12465E-03	-3.11770E 00	3.50194E 01	-2.37287E 02			
33.20	1.12383E 00	-3.40843E 01	-3.20023E 00	3.12504E-03	-3.13494E 00	3.51209E 01	-2.37454E 02			
33.30	1.12383E 00	-3.41859E 01	-3.21776E 00	3.12543E-03	-3.15223E 00	3.52224E 01	-2.37621E 02			
33.40	1.12382E 00	-3.42874E 01	-3.23533E 00	3.12579E-03	-3.16957E 00	3.53238E 01	-2.37788E 02			
33.50	1.12382E 00	-3.43889E 01	-3.25296E 00	3.12615E-03	-3.18695E 00	3.54252E 01	-2.37954E 02			
33.60	1.12381E 00	-3.44904E 01	-3.27062E 00	3.12648E-03	-3.20438E 00	3.55266E 01	-2.38121E 02			
33.70	1.12381E 00	-3.45919E 01	-3.28834E 00	3.12681E-03	-3.22185E 00	3.56280E 01	-2.38288E 02			
33.80	1.12381E 00	-3.46933E 01	-3.30610E 00	3.12712E-03	-3.23937E 00	3.57294E 01	-2.38454E 02			
33.90	1.12380E 00	-3.47947E 01	-3.32390E 00	3.12742E-03	-3.25694E 00	3.58307E 01	-2.38621E 02			
34.00	1.12380E 00	-3.48961E 01	-3.34176E 00	3.12771E-03	-3.27455E 00	3.59320E 01	-2.38787E 02			
34.10	1.12379E 00	-3.49975E 01	-3.35965E 00	3.12798E-03	-3.29221E 00	3.60333E 01	-2.38953E 02			
34.20	1.12379E 00	-3.50989E 01	-3.37760E 00	3.12823E-03	-3.30991E 00	3.61345E 01	-2.39119E 02			
34.30	1.12378E 00	-3.52002E 01	-3.39559E 00	3.12848E-03	-3.32766E 00	3.62358E 01	-2.39285E 02			
34.40	1.12378E 00	-3.53015E 01	-3.41362E 00	3.12872E-03	-3.34546E 00	3.63370E 01	-2.39451E 02			
34.50	1.12377E 00	-3.54028E 01	-3.43171E 00	3.12894E-03	-3.36330E 00	3.64382E 01	-2.39617E 02			
34.60	1.12377E 00	-3.55041E 01	-3.44983E 00	3.12915E-03	-3.38118E 00	3.65394E 01	-2.39782E 02			
34.70	1.12376E 00	-3.56053E 01	-3.46801E 00	3.12934E-03	-3.39912E 00	3.66405E 01	-2.39949E 02			
34.80	1.12376E 00	-3.57066E 01	-3.48623E 00	3.12953E-03	-3.41710E 00	3.67417E 01	-2.40114E 02			
34.90	1.12375E 00	-3.58078E 01	-3.50449E 00	3.12970E-03	-3.43512E 00	3.68428E 01	-2.40280E 02			
35.00	1.12375E 00	-3.59089E 01	-3.52280E 00	3.12986E-03	-3.45320E 00	3.69438E 01	-2.40445E 02			
35.10	1.12374E 00	-3.60101E 01	-3.54116E 00	3.13001E-03	-3.47131E 00	3.70449E 01	-2.40611E 02			
35.20	1.12374E 00	-3.61112E 01	-3.55956E 00	3.13015E-03	-3.48948E 00	3.71459E 01	-2.40776E 02			
35.30	1.12374E 00	-3.62123E 01	-3.57801E 00	3.13027E-03	-3.50769E 00	3.72470E 01	-2.40941E 02			
35.40	1.12373E 00	-3.63134E 01	-3.59651E 00	3.13038E-03	-3.52594E 00	3.73480E 01	-2.41107E 02			
35.50	1.12373E 00	-3.64145E 01	-3.61505E 00	3.13048E-03	-3.54424E 00	3.74489E 01	-2.41272E 02			
35.60	1.12372E 00	-3.65156E 01	-3.63364E 00	3.13057E-03	-3.56259E 00	3.75499E 01	-2.41437E 02			
35.70	1.12372E 00	-3.66166E 01	-3.65227E 00	3.13064E-03	-3.58098E 00	3.76508E 01	-2.41603E 02			
35.80	1.12371E 00	-3.67176E 01	-3.67095E 00	3.13071E-03	-3.59942E 00	3.77517E 01	-2.41768E 02			
35.90	1.12371E 00	-3.68186E 01	-3.68967E 00	3.13076E-03	-3.61791E 00	3.78526E 01	-2.41933E 02			
36.00	1.12370E 00	-3.69195E 01	-3.70844E 00	3.13080E-03	-3.63644E 00	3.79534E 01	-2.42098E 02			

## ELECTRON RADIAL FUNCTIONS

 $Z = 5$        $A = 11$        $\rho = 1.2 A^{1/3} F$       Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
30.10	1.35010E-03	-2.15796E 00	-1.11013E-01	4.10852E 01	-1.08580E-01	2.23076E 00	-2.37331E-02
30.20	1.35908E-03	-2.17235E 00	-1.12055E-01	4.10871E 01	-1.09604E-01	2.24539E 00	-2.37340E-02
30.30	1.36810E-03	-2.18679E 00	-1.13104E-01	4.10889E 01	-1.10635E-01	2.26007E 00	-2.37350E-02
30.40	1.37714E-03	-2.20128E 00	-1.14159E-01	4.10907E 01	-1.11672E-01	2.27480E 00	-2.37359E-02
30.50	1.38621E-03	-2.21582E 00	-1.15221E-01	4.10925E 01	-1.12715E-01	2.28958E 00	-2.37368E-02
30.60	1.39531E-03	-2.23040E 00	-1.16289E-01	4.10943E 01	-1.13765E-01	2.30440E 00	-2.37376E-02
30.70	1.40444E-03	-2.24503E 00	-1.17364E-01	4.10961E 01	-1.14821E-01	2.31927E 00	-2.37385E-02
30.80	1.41360E-03	-2.25971E 00	-1.18445E-01	4.10979E 01	-1.15884E-01	2.33418E 00	-2.37394E-02
30.90	1.42279E-03	-2.27443E 00	-1.19533E-01	4.10996E 01	-1.16953E-01	2.34915E 00	-2.37403E-02
31.00	1.43201E-03	-2.28920E 00	-1.20627E-01	4.11014E 01	-1.18029E-01	2.36416E 00	-2.37412E-02
31.10	1.44126E-03	-2.30402E 00	-1.21728E-01	4.11031E 01	-1.19111E-01	2.37921E 00	-2.37420E-02
31.20	1.45054E-03	-2.31889E 00	-1.22836E-01	4.11048E 01	-1.20200E-01	2.39432E 00	-2.37429E-02
31.30	1.45985E-03	-2.33380E 00	-1.23950E-01	4.11065E 01	-1.21295E-01	2.40947E 00	-2.37438E-02
31.40	1.46919E-03	-2.34876E 00	-1.25071E-01	4.11082E 01	-1.22397E-01	2.42466E 00	-2.37446E-02
31.50	1.47856E-03	-2.36376E 00	-1.26198E-01	4.11099E 01	-1.23506E-01	2.43991E 00	-2.37455E-02
31.60	1.48796E-03	-2.37882E 00	-1.27333E-01	4.11116E 01	-1.24621E-01	2.45520E 00	-2.37463E-02
31.70	1.49739E-03	-2.39392E 00	-1.28473E-01	4.11133E 01	-1.25743E-01	2.47054E 00	-2.37471E-02
31.80	1.50685E-03	-2.40906E 00	-1.29621E-01	4.11149E 01	-1.26871E-01	2.48592E 00	-2.37480E-02
31.90	1.51633E-03	-2.42426E 00	-1.30776E-01	4.11166E 01	-1.28006E-01	2.50135E 00	-2.37488E-02
32.00	1.52585E-03	-2.43950E 00	-1.31937E-01	4.11182E 01	-1.29148E-01	2.51683E 00	-2.37496E-02
32.10	1.53540E-03	-2.45478E 00	-1.33105E-01	4.11198E 01	-1.30297E-01	2.53236E 00	-2.37504E-02
32.20	1.54498E-03	-2.47012E 00	-1.34280E-01	4.11214E 01	-1.31452E-01	2.54793E 00	-2.37512E-02
32.30	1.55459E-03	-2.48550E 00	-1.35461E-01	4.11230E 01	-1.32614E-01	2.56355E 00	-2.37521E-02
32.40	1.56422E-03	-2.50093E 00	-1.36650E-01	4.11246E 01	-1.33783E-01	2.57922E 00	-2.37529E-02
32.50	1.57389E-03	-2.51640E 00	-1.37845E-01	4.11262E 01	-1.34959E-01	2.59493E 00	-2.37537E-02
32.60	1.58359E-03	-2.53192E 00	-1.39047E-01	4.11278E 01	-1.36141E-01	2.61069E 00	-2.37544E-02
32.70	1.59331E-03	-2.54749E 00	-1.40257E-01	4.11294E 01	-1.37331E-01	2.62649E 00	-2.37552E-02
32.80	1.60307E-03	-2.56311E 00	-1.41473E-01	4.11309E 01	-1.38527E-01	2.64235E 00	-2.37560E-02
32.90	1.61285E-03	-2.57877E 00	-1.42696E-01	4.11325E 01	-1.39730E-01	2.65825E 00	-2.37568E-02
33.00	1.62267E-03	-2.59448E 00	-1.43926E-01	4.11340E 01	-1.40940E-01	2.67419E 00	-2.37576E-02
33.10	1.63252E-03	-2.61023E 00	-1.45163E-01	4.11355E 01	-1.42157E-01	2.69019E 00	-2.37583E-02
33.20	1.64239E-03	-2.62603E 00	-1.46407E-01	4.11370E 01	-1.43381E-01	2.70622E 00	-2.37591E-02
33.30	1.65230E-03	-2.64188E 00	-1.47658E-01	4.11385E 01	-1.44611E-01	2.72231E 00	-2.37599E-02
33.40	1.66223E-03	-2.65778E 00	-1.48917E-01	4.11400E 01	-1.45849E-01	2.73844E 00	-2.37606E-02
33.50	1.67220E-03	-2.67372E 00	-1.50181E-01	4.11415E 01	-1.47094E-01	2.75462E 00	-2.37614E-02
33.60	1.68219E-03	-2.68971E 00	-1.51453E-01	4.11430E 01	-1.48346E-01	2.77085E 00	-2.37621E-02
33.70	1.69221E-03	-2.70574E 00	-1.52732E-01	4.11444E 01	-1.49604E-01	2.78712E 00	-2.37629E-02
33.80	1.70227E-03	-2.72182E 00	-1.54018E-01	4.11459E 01	-1.50870E-01	2.80344E 00	-2.37636E-02
33.90	1.71235E-03	-2.73795E 00	-1.55312E-01	4.11474E 01	-1.52143E-01	2.81981E 00	-2.37644E-02
34.00	1.72246E-03	-2.75413E 00	-1.56613E-01	4.11488E 01	-1.53423E-01	2.83622E 00	-2.37651E-02
34.10	1.73261E-03	-2.77035E 00	-1.57920E-01	4.11502E 01	-1.54710E-01	2.85268E 00	-2.37658E-02
34.20	1.74278E-03	-2.78662E 00	-1.59235E-01	4.11517E 01	-1.56004E-01	2.86919E 00	-2.37665E-02
34.30	1.75298E-03	-2.80294E 00	-1.60558E-01	4.11531E 01	-1.57306E-01	2.88574E 00	-2.37673E-02
34.40	1.76322E-03	-2.81930E 00	-1.61887E-01	4.11545E 01	-1.58614E-01	2.90234E 00	-2.37680E-02
34.50	1.77348E-03	-2.83571E 00	-1.63224E-01	4.11559E 01	-1.59930E-01	2.91899E 00	-2.37687E-02
34.60	1.78377E-03	-2.85216E 00	-1.64568E-01	4.11573E 01	-1.61253E-01	2.93568E 00	-2.37694E-02
34.70	1.79409E-03	-2.86866E 00	-1.65919E-01	4.11586E 01	-1.62583E-01	2.95242E 00	-2.37701E-02
34.80	1.80444E-03	-2.88521E 00	-1.67278E-01	4.11600E 01	-1.63921E-01	2.96920E 00	-2.37708E-02
34.90	1.81482E-03	-2.90181E 00	-1.68643E-01	4.11614E 01	-1.65265E-01	2.98604E 00	-2.37715E-02
35.00	1.82524E-03	-2.91845E 00	-1.70017E-01	4.11627E 01	-1.66617E-01	3.00291E 00	-2.37722E-02
35.10	1.83568E-03	-2.93513E 00	-1.71397E-01	4.11641E 01	-1.67976E-01	3.01984E 00	-2.37729E-02
35.20	1.84615E-03	-2.95187E 00	-1.72785E-01	4.11654E 01	-1.69343E-01	3.03681E 00	-2.37736E-02
35.30	1.85665E-03	-2.96865E 00	-1.74181E-01	4.11668E 01	-1.70717E-01	3.05383E 00	-2.37743E-02
35.40	1.86718E-03	-2.98548E 00	-1.75583E-01	4.11681E 01	-1.72098E-01	3.07089E 00	-2.37749E-02
35.50	1.87774E-03	-3.00235E 00	-1.76994E-01	4.11694E 01	-1.73487E-01	3.08800E 00	-2.37756E-02
35.60	1.88833E-03	-3.01927E 00	-1.78411E-01	4.11707E 01	-1.74883E-01	3.10516E 00	-2.37763E-02
35.70	1.89895E-03	-3.03624E 00	-1.79837E-01	4.11720E 01	-1.76286E-01	3.12237E 00	-2.37769E-02
35.80	1.90960E-03	-3.05325E 00	-1.81269E-01	4.11733E 01	-1.77697E-01	3.13962E 00	-2.37776E-02
35.90	1.92027E-03	-3.07031E 00	-1.82709E-01	4.11746E 01	-1.79115E-01	3.15691E 00	-2.37783E-02
36.00	1.93098E-03	-3.08742E 00	-1.84157E-01	4.11759E 01	-1.80541E-01	3.17426E 00	-2.37789E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=5$		$A=11$		$\rho=1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
36.10	1.12370E 00	-3.70204E 01	-3.72726E 00	3.13083E-03	-3.65501E 00	3.80543E 01	-2.42263E 02			
36.20	1.12370E 00	-3.71214E 01	-3.74612E 00	3.13085E-03	-3.67364E 00	3.81551E 01	-2.42428E 02			
36.30	1.12369E 00	-3.72222E 01	-3.76503E 00	3.13085E-03	-3.69230E 00	3.82559E 01	-2.42594E 02			
36.40	1.12369E 00	-3.73231E 01	-3.78398E 00	3.13085E-03	-3.71102E 00	3.83566E 01	-2.42759E 02			
36.50	1.12368E 00	-3.74239E 01	-3.80298E 00	3.13083E-03	-3.72977E 00	3.84574E 01	-2.42924E 02			
36.60	1.12368E 00	-3.75248E 01	-3.82202E 00	3.13081E-03	-3.74858E 00	3.85581E 01	-2.43089E 02			
36.70	1.12367E 00	-3.76256E 01	-3.84111E 00	3.13077E-03	-3.76743E 00	3.86588E 01	-2.43254E 02			
36.80	1.12367E 00	-3.77263E 01	-3.86025E 00	3.13072E-03	-3.78633E 00	3.87595E 01	-2.43419E 02			
36.90	1.12366E 00	-3.78271E 01	-3.87943E 00	3.13066E-03	-3.80527E 00	3.88601E 01	-2.43584E 02			
37.00	1.12366E 00	-3.79278E 01	-3.89866E 00	3.13059E-03	-3.82426E 00	3.89607E 01	-2.43750E 02			
37.10	1.12366E 00	-3.80285E 01	-3.91793E 00	3.13050E-03	-3.84329E 00	3.90613E 01	-2.43915E 02			
37.20	1.12365E 00	-3.81292E 01	-3.93725E 00	3.13041E-03	-3.86237E 00	3.91619E 01	-2.44080E 02			
37.30	1.12365E 00	-3.82298E 01	-3.95661E 00	3.13030E-03	-3.88149E 00	3.92625E 01	-2.44245E 02			
37.40	1.12364E 00	-3.83305E 01	-3.97602E 00	3.13020E-03	-3.90066E 00	3.93630E 01	-2.44410E 02			
37.50	1.12364E 00	-3.84311E 01	-3.99547E 00	3.13007E-03	-3.91988E 00	3.94635E 01	-2.44576E 02			
37.60	1.12364E 00	-3.85317E 01	-4.01498E 00	3.12993E-03	-3.93914E 00	3.95640E 01	-2.44741E 02			
37.70	1.12363E 00	-3.86322E 01	-4.03452E 00	3.12978E-03	-3.95845E 00	3.96644E 01	-2.44907E 02			
37.80	1.12363E 00	-3.87328E 01	-4.05411E 00	3.12963E-03	-3.97780E 00	3.97649E 01	-2.45072E 02			
37.90	1.12362E 00	-3.88333E 01	-4.07375E 00	3.12946E-03	-3.99720E 00	3.98653E 01	-2.45237E 02			
38.00	1.12362E 00	-3.89338E 01	-4.09343E 00	3.12928E-03	-4.01664E 00	3.99657E 01	-2.45403E 02			
38.10	1.12361E 00	-3.90342E 01	-4.11316E 00	3.12910E-03	-4.03613E 00	4.00660E 01	-2.45568E 02			
38.20	1.12361E 00	-3.91347E 01	-4.13293E 00	3.12889E-03	-4.05566E 00	4.01664E 01	-2.45734E 02			
38.30	1.12361E 00	-3.92351E 01	-4.15275E 00	3.12869E-03	-4.07524E 00	4.02667E 01	-2.45899E 02			
38.40	1.12360E 00	-3.93355E 01	-4.17262E 00	3.12846E-03	-4.09487E 00	4.03670E 01	-2.46065E 02			
38.50	1.12360E 00	-3.94358E 01	-4.19253E 00	3.12824E-03	-4.11454E 00	4.04673E 01	-2.46231E 02			
38.60	1.12359E 00	-3.95362E 01	-4.21248E 00	3.12800E-03	-4.13426E 00	4.05675E 01	-2.46397E 02			
38.70	1.12359E 00	-3.96365E 01	-4.23248E 00	3.12774E-03	-4.15402E 00	4.06677E 01	-2.46563E 02			
38.80	1.12359E 00	-3.97368E 01	-4.25253E 00	3.12748E-03	-4.17383E 00	4.07679E 01	-2.46728E 02			
38.90	1.12358E 00	-3.98371E 01	-4.27262E 00	3.12721E-03	-4.19368E 00	4.08681E 01	-2.46895E 02			
39.00	1.12358E 00	-3.99373E 01	-4.29276E 00	3.12694E-03	-4.21358E 00	4.09682E 01	-2.47061E 02			
39.10	1.12357E 00	-4.00376E 01	-4.31294E 00	3.12665E-03	-4.23352E 00	4.10684E 01	-2.47226E 02			
39.20	1.12357E 00	-4.01378E 01	-4.33317E 00	3.12635E-03	-4.25351E 00	4.11685E 01	-2.47393E 02			
39.30	1.12357E 00	-4.02379E 01	-4.35344E 00	3.12604E-03	-4.27354E 00	4.12685E 01	-2.47559E 02			
39.40	1.12356E 00	-4.03381E 01	-4.37376E 00	3.12572E-03	-4.29362E 00	4.13686E 01	-2.47726E 02			
39.50	1.12356E 00	-4.04382E 01	-4.39412E 00	3.12539E-03	-4.31375E 00	4.14686E 01	-2.47892E 02			
39.60	1.12355E 00	-4.05383E 01	-4.41453E 00	3.12505E-03	-4.33392E 00	4.15686E 01	-2.48059E 02			
39.70	1.12355E 00	-4.06384E 01	-4.43498E 00	3.12471E-03	-4.35413E 00	4.16686E 01	-2.48225E 02			
39.80	1.12355E 00	-4.07385E 01	-4.45548E 00	3.12435E-03	-4.37439E 00	4.17685E 01	-2.48392E 02			
39.90	1.12354E 00	-4.08385E 01	-4.47603E 00	3.12398E-03	-4.39470E 00	4.18684E 01	-2.48559E 02			
40.00	1.12354E 00	-4.09385E 01	-4.49662E 00	3.12361E-03	-4.41505E 00	4.19683E 01	-2.48726E 02			
40.10	1.12353E 00	-4.10385E 01	-4.51725E 00	3.12322E-03	-4.43545E 00	4.20682E 01	-2.48893E 02			
40.20	1.12353E 00	-4.11384E 01	-4.53793E 00	3.12283E-03	-4.45589E 00	4.21681E 01	-2.49060E 02			
40.30	1.12353E 00	-4.12384E 01	-4.55866E 00	3.12242E-03	-4.47638E 00	4.22679E 01	-2.49227E 02			
40.40	1.12352E 00	-4.13383E 01	-4.57943E 00	3.12201E-03	-4.49691E 00	4.23677E 01	-2.49394E 02			
40.50	1.12352E 00	-4.14381E 01	-4.60024E 00	3.12159E-03	-4.51749E 00	4.24675E 01	-2.49561E 02			
40.60	1.12351E 00	-4.15380E 01	-4.62111E 00	3.12116E-03	-4.53811E 00	4.25672E 01	-2.49729E 02			
40.70	1.12351E 00	-4.16378E 01	-4.64201E 00	3.12071E-03	-4.55878E 00	4.26669E 01	-2.49897E 02			
40.80	1.12351E 00	-4.17376E 01	-4.66296E 00	3.12026E-03	-4.57949E 00	4.27666E 01	-2.50065E 02			
40.90	1.12350E 00	-4.18374E 01	-4.68396E 00	3.11981E-03	-4.60025E 00	4.28663E 01	-2.50232E 02			
41.00	1.12350E 00	-4.19372E 01	-4.70500E 00	3.11934E-03	-4.62105E 00	4.29660E 01	-2.50401E 02			
41.10	1.12350E 00	-4.20369E 01	-4.72609E 00	3.11886E-03	-4.64190E 00	4.30656E 01	-2.50569E 02			
41.20	1.12349E 00	-4.21366E 01	-4.74722E 00	3.11838E-03	-4.66279E 00	4.31652E 01	-2.50737E 02			
41.30	1.12349E 00	-4.22363E 01	-4.76839E 00	3.11789E-03	-4.68373E 00	4.32648E 01	-2.50905E 02			
41.40	1.12348E 00	-4.23359E 01	-4.78962E 00	3.11738E-03	-4.70471E 00	4.33643E 01	-2.51074E 02			
41.50	1.12348E 00	-4.24356E 01	-4.81088E 00	3.11687E-03	-4.72574E 00	4.34638E 01	-2.51242E 02			
41.60	1.12348E 00	-4.25352E 01	-4.83219E 00	3.11634E-03	-4.74682E 00	4.35633E 01	-2.51411E 02			
41.70	1.12347E 00	-4.26348E 01	-4.85355E 00	3.11581E-03	-4.76793E 00	4.36628E 01	-2.51580E 02			
41.80	1.12347E 00	-4.27343E 01	-4.87495E 00	3.11527E-03	-4.78910E 00	4.37622E 01	-2.51749E 02			
41.90	1.12347E 00	-4.28338E 01	-4.89640E 00	3.11473E-03	-4.81031E 00	4.38617E 01	-2.51918E 02			
42.00	1.12346E 00	-4.29333E 01	-4.91789E 00	3.11417E-03	-4.83156E 00	4.39611E 01	-2.52088E 02			

## ELECTRON RADIAL FUNCTIONS

$p$	Electron							
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
36.10	1.94172E-03	-3.10457E 00	-1.85613E-01	4.11772E 01	-1.81974E-01	3.19165E 00	-2.37796E-02	
36.20	1.95249E-03	-3.12177E 00	-1.87075E-01	4.11784E 01	-1.83415E-01	3.20908E 00	-2.37802E-02	
36.30	1.96329E-03	-3.13901E 00	-1.88546E-01	4.11797E 01	-1.84863E-01	3.22656E 00	-2.37809E-02	
36.40	1.97412E-03	-3.15631E 00	-1.90024E-01	4.11809E 01	-1.86319E-01	3.24409E 00	-2.37815E-02	
36.50	1.98497E-03	-3.17364E 00	-1.91510E-01	4.11822E 01	-1.87782E-01	3.26167E 00	-2.37822E-02	
36.60	1.99586E-03	-3.19103E 00	-1.93003E-01	4.11834E 01	-1.89253E-01	3.27929E 00	-2.37828E-02	
36.70	2.00678E-03	-3.20846E 00	-1.94504E-01	4.11846E 01	-1.90732E-01	3.29696E 00	-2.37834E-02	
36.80	2.01773E-03	-3.22594E 00	-1.96013E-01	4.11859E 01	-1.92218E-01	3.31467E 00	-2.37841E-02	
36.90	2.02870E-03	-3.24346E 00	-1.97529E-01	4.11871E 01	-1.93712E-01	3.33243E 00	-2.37847E-02	
37.00	2.03971E-03	-3.26103E 00	-1.99053E-01	4.11883E 01	-1.95213E-01	3.35024E 00	-2.37853E-02	
37.10	2.05075E-03	-3.27864E 00	-2.00585E-01	4.11895E 01	-1.96723E-01	3.36809E 00	-2.37859E-02	
37.20	2.06181E-03	-3.29631E 00	-2.02125E-01	4.11907E 01	-1.98239E-01	3.38599E 00	-2.37866E-02	
37.30	2.07291E-03	-3.31402E 00	-2.03672E-01	4.11919E 01	-1.99764E-01	3.40393E 00	-2.37872E-02	
37.40	2.08403E-03	-3.33177E 00	-2.05227E-01	4.11931E 01	-2.01296E-01	3.42192E 00	-2.37878E-02	
37.50	2.09519E-03	-3.34957E 00	-2.06790E-01	4.11942E 01	-2.02836E-01	3.43996E 00	-2.37884E-02	
37.60	2.10637E-03	-3.36742E 00	-2.08361E-01	4.11954E 01	-2.04384E-01	3.45805E 00	-2.37890E-02	
37.70	2.11759E-03	-3.38531E 00	-2.09940E-01	4.11966E 01	-2.05940E-01	3.47618E 00	-2.37896E-02	
37.80	2.12883E-03	-3.40325E 00	-2.11526E-01	4.11977E 01	-2.07503E-01	3.49435E 00	-2.37902E-02	
37.90	2.14011E-03	-3.42124E 00	-2.13121E-01	4.11989E 01	-2.09075E-01	3.51257E 00	-2.37908E-02	
38.00	2.15141E-03	-3.43927E 00	-2.14723E-01	4.12000E 01	-2.10654E-01	3.53084E 00	-2.37914E-02	
38.10	2.16275E-03	-3.45735E 00	-2.16333E-01	4.12012E 01	-2.12241E-01	3.54916E 00	-2.37920E-02	
38.20	2.17411E-03	-3.47547E 00	-2.17952E-01	4.12023E 01	-2.13836E-01	3.56752E 00	-2.37926E-02	
38.30	2.18550E-03	-3.49364E 00	-2.19578E-01	4.12034E 01	-2.15438E-01	3.58592E 00	-2.37932E-02	
38.40	2.19693E-03	-3.51186E 00	-2.21212E-01	4.12045E 01	-2.17049E-01	3.60438E 00	-2.37937E-02	
38.50	2.20838E-03	-3.53012E 00	-2.22854E-01	4.12056E 01	-2.18668E-01	3.62288E 00	-2.37943E-02	
38.60	2.21986E-03	-3.54843E 00	-2.24505E-01	4.12068E 01	-2.20294E-01	3.64142E 00	-2.37949E-02	
38.70	2.23137E-03	-3.56679E 00	-2.26163E-01	4.12079E 01	-2.21929E-01	3.66001E 00	-2.37955E-02	
38.80	2.24292E-03	-3.58519E 00	-2.27829E-01	4.12090E 01	-2.23571E-01	3.67865E 00	-2.37960E-02	
38.90	2.25449E-03	-3.60364E 00	-2.29504E-01	4.12100E 01	-2.25222E-01	3.69733E 00	-2.37966E-02	
39.00	2.26609E-03	-3.62213E 00	-2.31186E-01	4.12111E 01	-2.26881E-01	3.71606E 00	-2.37972E-02	
39.10	2.27772E-03	-3.64067E 00	-2.32877E-01	4.12122E 01	-2.28547E-01	3.73484E 00	-2.37977E-02	
39.20	2.28938E-03	-3.65925E 00	-2.34576E-01	4.12133E 01	-2.30222E-01	3.75366E 00	-2.37983E-02	
39.30	2.30107E-03	-3.67789E 00	-2.36283E-01	4.12143E 01	-2.31905E-01	3.77253E 00	-2.37989E-02	
39.40	2.31279E-03	-3.69656E 00	-2.37998E-01	4.12154E 01	-2.33596E-01	3.79144E 00	-2.37994E-02	
39.50	2.32455E-03	-3.71529E 00	-2.39721E-01	4.12165E 01	-2.35295E-01	3.81040E 00	-2.38000E-02	
39.60	2.33633E-03	-3.73406E 00	-2.41453E-01	4.12175E 01	-2.37002E-01	3.82940E 00	-2.38005E-02	
39.70	2.34814E-03	-3.75287E 00	-2.43193E-01	4.12186E 01	-2.38718E-01	3.84846E 00	-2.38011E-02	
39.80	2.35998E-03	-3.77173E 00	-2.44941E-01	4.12196E 01	-2.40441E-01	3.86755E 00	-2.38016E-02	
39.90	2.37185E-03	-3.79064E 00	-2.46697E-01	4.12206E 01	-2.42173E-01	3.88670E 00	-2.38021E-02	
40.00	2.38374E-03	-3.80959E 00	-2.48462E-01	4.12216E 01	-2.43913E-01	3.90589E 00	-2.38027E-02	
40.10	2.39567E-03	-3.82859E 00	-2.50235E-01	4.12227E 01	-2.45661E-01	3.92512E 00	-2.38032E-02	
40.20	2.40763E-03	-3.84764E 00	-2.52016E-01	4.12237E 01	-2.47418E-01	3.94440E 00	-2.38038E-02	
40.30	2.41962E-03	-3.86673E 00	-2.53806E-01	4.12247E 01	-2.49183E-01	3.96373E 00	-2.38043E-02	
40.40	2.43164E-03	-3.88587E 00	-2.55603E-01	4.12257E 01	-2.50956E-01	3.98310E 00	-2.38048E-02	
40.50	2.44369E-03	-3.90505E 00	-2.57410E-01	4.12267E 01	-2.52737E-01	4.00252E 00	-2.38053E-02	
40.60	2.45577E-03	-3.92428E 00	-2.59225E-01	4.12277E 01	-2.54527E-01	4.02198E 00	-2.38059E-02	
40.70	2.46787E-03	-3.94355E 00	-2.61048E-01	4.12287E 01	-2.56325E-01	4.04149E 00	-2.38064E-02	
40.80	2.48001E-03	-3.96287E 00	-2.62879E-01	4.12297E 01	-2.58132E-01	4.06105E 00	-2.38069E-02	
40.90	2.49218E-03	-3.98224E 00	-2.64719E-01	4.12307E 01	-2.59947E-01	4.08065E 00	-2.38074E-02	
41.00	2.50438E-03	-4.00165E 00	-2.66568E-01	4.12316E 01	-2.61770E-01	4.10030E 00	-2.38079E-02	
41.10	2.51660E-03	-4.02111E 00	-2.68425E-01	4.12326E 01	-2.63602E-01	4.11999E 00	-2.38084E-02	
41.20	2.52886E-03	-4.04061E 00	-2.70290E-01	4.12336E 01	-2.65442E-01	4.13973E 00	-2.38090E-02	
41.30	2.54115E-03	-4.06016E 00	-2.72164E-01	4.12345E 01	-2.67290E-01	4.15951E 00	-2.38095E-02	
41.40	2.55346E-03	-4.07976E 00	-2.74047E-01	4.12355E 01	-2.69148E-01	4.17934E 00	-2.38100E-02	
41.50	2.56581E-03	-4.09940E 00	-2.75938E-01	4.12364E 01	-2.71013E-01	4.19922E 00	-2.38105E-02	
41.60	2.57818E-03	-4.11908E 00	-2.77838E-01	4.12374E 01	-2.72887E-01	4.21914E 00	-2.38110E-02	
41.70	2.59059E-03	-4.13882E 00	-2.79746E-01	4.12383E 01	-2.74770E-01	4.23911E 00	-2.38115E-02	
41.80	2.60302E-03	-4.15859E 00	-2.81663E-01	4.12393E 01	-2.76661E-01	4.25912E 00	-2.38120E-02	
41.90	2.61549E-03	-4.17842E 00	-2.83589E-01	4.12402E 01	-2.78561E-01	4.27918E 00	-2.38125E-02	
42.00	2.62798E-03	-4.19829E 00	-2.85523E-01	4.12411E 01	-2.80470E-01	4.29928E 00	-2.38130E-02	



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6 \quad A=12 \quad \rho=1.2 A^{1/3} F$							
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
0.10	3.00069E 00	-1.32762E-02	-2.95714E-04	-1.91068E-01	-4.28502E-03	2.44441E-01	-4.39128E 00	
0.20	1.88979E 00	-3.91785E-02	-8.74037E-04	-9.15769E-02	-6.78999E-03	3.86562E-01	-8.01017E 00	
0.30	1.57751E 00	-7.81460E-02	-1.74786E-03	-5.99149E-02	-9.28212E-03	5.26717E-01	-1.17252E 01	
0.40	1.43639E 00	-1.28905E-01	-2.89327E-03	-4.41841E-02	-1.17728E-02	6.65096E-01	-1.53936E 01	
0.50	1.35793E 00	-1.89946E-01	-4.28181E-03	-3.47314E-02	-1.42594E-02	8.01171E-01	-1.89838E 01	
0.60	1.30896E 00	-2.59704E-01	-5.88400E-03	-2.84022E-02	-1.67420E-02	9.34653E-01	-2.24825E 01	
0.70	1.27604E 00	-3.36692E-01	-7.67181E-03	-2.38558E-02	-1.92230E-02	1.06547E 00	-2.58832E 01	
0.80	1.25275E 00	-4.19578E-01	-9.62016E-03	-2.04251E-02	-2.17066E-02	1.19371E 00	-2.91830E 01	
0.90	1.23562E 00	-5.07223E-01	-1.17076E-02	-1.77399E-02	-2.41976E-02	1.31955E 00	-3.23812E 01	
1.00	1.22265E 00	-5.98681E-01	-1.39165E-02	-1.55785E-02	-2.67010E-02	1.44321E 00	-3.54786E 01	
1.10	1.21258E 00	-6.93182E-01	-1.62323E-02	-1.37995E-02	-2.92219E-02	1.56493E 00	-3.84770E 01	
1.20	1.20461E 00	-7.90109E-01	-1.86435E-02	-1.23086E-02	-3.17645E-02	1.68494E 00	-4.13791E 01	
1.30	1.19819E 00	-8.88971E-01	-2.11411E-02	-1.10404E-02	-3.43329E-02	1.80346E 00	-4.41877E 01	
1.40	1.19295E 00	-9.89381E-01	-2.37176E-02	-9.94798E-03	-3.69307E-02	1.92068E 00	-4.69061E 01	
1.50	1.18861E 00	-1.09103E 00	-2.63676E-02	-8.99681E-03	-3.95608E-02	2.03676E 00	-4.95376E 01	
1.60	1.18497E 00	-1.19368E 00	-2.90865E-02	-8.16097E-03	-4.22257E-02	2.15187E 00	-5.20857E 01	
1.70	1.18190E 00	-1.29714E 00	-3.18708E-02	-7.42054E-03	-4.49278E-02	2.26614E 00	-5.45536E 01	
1.80	1.17927E 00	-1.40125E 00	-3.47176E-02	-6.75993E-03	-4.76688E-02	2.37965E 00	-5.69446E 01	
1.90	1.17701E 00	-1.50590E 00	-3.76248E-02	-6.16686E-03	-5.04503E-02	2.49253E 00	-5.92621E 01	
2.00	1.17505E 00	-1.61098E 00	-4.05905E-02	-5.63140E-03	-5.32737E-02	2.60484E 00	-6.15090E 01	
2.10	1.17334E 00	-1.71642E 00	-4.36134E-02	-5.14551E-03	-5.61400E-02	2.71666E 00	-6.36883E 01	
2.20	1.17184E 00	-1.82215E 00	-4.66922E-02	-4.70258E-03	-5.90503E-02	2.82803E 00	-6.58029E 01	
2.30	1.17051E 00	-1.92813E 00	-4.98261E-02	-4.29714E-03	-6.20055E-02	2.93903E 00	-6.78554E 01	
2.40	1.16933E 00	-2.03431E 00	-5.30143E-02	-3.92460E-03	-6.50061E-02	3.04968E 00	-6.98486E 01	
2.50	1.16828E 00	-2.14065E 00	-5.62562E-02	-3.58112E-03	-6.80527E-02	3.16003E 00	-7.17847E 01	
2.60	1.16733E 00	-2.24713E 00	-5.95513E-02	-3.26339E-03	-7.11460E-02	3.27011E 00	-7.36663E 01	
2.70	1.16648E 00	-2.35373E 00	-6.28992E-02	-2.96865E-03	-7.42864E-02	3.37995E 00	-7.54954E 01	
2.80	1.16571E 00	-2.46043E 00	-6.62994E-02	-2.69447E-03	-7.74741E-02	3.48956E 00	-7.72743E 01	
2.90	1.16501E 00	-2.56721E 00	-6.97518E-02	-2.43875E-03	-8.07097E-02	3.59899E 00	-7.90049E 01	
3.00	1.16437E 00	-2.67405E 00	-7.32561E-02	-2.19970E-03	-8.39934E-02	3.70823E 00	-8.06891E 01	
3.10	1.16378E 00	-2.78095E 00	-7.68120E-02	-1.97575E-03	-8.73253E-02	3.81731E 00	-8.23289E 01	
3.20	1.16325E 00	-2.88789E 00	-8.04195E-02	-1.76551E-03	-9.07058E-02	3.92625E 00	-8.39259E 01	
3.30	1.16276E 00	-2.99487E 00	-8.40784E-02	-1.56774E-03	-9.41351E-02	4.03505E 00	-8.54817E 01	
3.40	1.16230E 00	-3.10189E 00	-8.77884E-02	-1.38138E-03	-9.76132E-02	4.14373E 00	-8.69980E 01	
3.50	1.16188E 00	-3.20892E 00	-9.15497E-02	-1.20547E-03	-1.01140E-01	4.25230E 00	-8.84761E 01	
3.60	1.16149E 00	-3.31598E 00	-9.53620E-02	-1.03915E-03	-1.04717E-01	4.36076E 00	-8.99176E 01	
3.70	1.16113E 00	-3.42306E 00	-9.92252E-02	-8.81655E-04	-1.08343E-01	4.46913E 00	-9.13237E 01	
3.80	1.16079E 00	-3.53014E 00	-1.03139E-01	-7.32305E-04	-1.12018E-01	4.57741E 00	-9.26959E 01	
3.90	1.16047E 00	-3.63724E 00	-1.07104E-01	-5.90489E-04	-1.15742E-01	4.68561E 00	-9.40352E 01	
4.00	1.16018E 00	-3.74434E 00	-1.11120E-01	-4.55646E-04	-1.19517E-01	4.79373E 00	-9.53429E 01	
4.10	1.15990E 00	-3.85144E 00	-1.15187E-01	-3.27275E-04	-1.23341E-01	4.90178E 00	-9.66200E 01	
4.20	1.15964E 00	-3.95855E 00	-1.19304E-01	-2.04926E-04	-1.27214E-01	5.00976E 00	-9.78677E 01	
4.30	1.15939E 00	-4.06566E 00	-1.23472E-01	-8.81805E-05	-1.31138E-01	5.11768E 00	-9.90870E 01	
4.40	1.15916E 00	-4.17276E 00	-1.27691E-01	2.33297E-05	-1.35111E-01	5.22554E 00	-1.00279E 02	
4.50	1.15895E 00	-4.27987E 00	-1.31960E-01	1.29955E-04	-1.39134E-01	5.33335E 00	-1.01444E 02	
4.60	1.15874E 00	-4.38696E 00	-1.36280E-01	2.32011E-04	-1.43208E-01	5.44110E 00	-1.02584E 02	
4.70	1.15854E 00	-4.49406E 00	-1.40651E-01	3.29773E-04	-1.47331E-01	5.54880E 00	-1.03698E 02	
4.80	1.15836E 00	-4.60115E 00	-1.45072E-01	4.23510E-04	-1.51504E-01	5.65647E 00	-1.04789E 02	
4.90	1.15818E 00	-4.70823E 00	-1.49543E-01	5.13469E-04	-1.55727E-01	5.76408E 00	-1.05857E 02	
5.00	1.15801E 00	-4.81530E 00	-1.54065E-01	5.99861E-04	-1.60000E-01	5.87165E 00	-1.06902E 02	
5.10	1.15785E 00	-4.92237E 00	-1.58638E-01	6.82918E-04	-1.64324E-01	5.97918E 00	-1.07925E 02	
5.20	1.15770E 00	-5.02943E 00	-1.63261E-01	7.62793E-04	-1.68697E-01	6.08667E 00	-1.08928E 02	
5.30	1.15756E 00	-5.13648E 00	-1.67935E-01	8.39699E-04	-1.73121E-01	6.19413E 00	-1.09910E 02	
5.40	1.15742E 00	-5.24352E 00	-1.72659E-01	9.13774E-04	-1.77594E-01	6.30155E 00	-1.10872E 02	
5.50	1.15729E 00	-5.35055E 00	-1.77434E-01	9.85180E-04	-1.82118E-01	6.40894E 00	-1.11815E 02	
5.60	1.15716E 00	-5.45757E 00	-1.82259E-01	1.05406E-03	-1.86692E-01	6.51630E 00	-1.12739E 02	
5.70	1.15704E 00	-5.56458E 00	-1.87134E-01	1.12054E-03	-1.91317E-01	6.62362E 00	-1.13645E 02	
5.80	1.15692E 00	-5.67157E 00	-1.92060E-01	1.18474E-03	-1.95991E-01	6.73091E 00	-1.14534E 02	
5.90	1.15681E 00	-5.77856E 00	-1.97037E-01	1.24678E-03	-2.00716E-01	6.83818E 00	-1.15406E 02	
6.00	1.15670E 00	-5.88554E 00	-2.02064E-01	1.30676E-03	-2.05491E-01	6.94542E 00	-1.16261E 02	





ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$		$A=12$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	1.15659E 00	-5.99251E 00	-2.07141E-01	1.36479E-03	-2.10316E-01	7.05263E 00	-1.17101E 02	02
6.20	1.15649E 00	-6.09946E 00	-2.12269E-01	1.42095E-03	-2.15191E-01	7.15981E 00	-1.17924E 02	02
6.30	1.15640E 00	-6.20640E 00	-2.17447E-01	1.47534E-03	-2.20117E-01	7.26697E 00	-1.18733E 02	02
6.40	1.15630E 00	-6.31334E 00	-2.22675E-01	1.52803E-03	-2.25093E-01	7.37410E 00	-1.19527E 02	02
6.50	1.15621E 00	-6.42026E 00	-2.27954E-01	1.57911E-03	-2.30119E-01	7.48121E 00	-1.20307E 02	02
6.60	1.15613E 00	-6.52716E 00	-2.33284E-01	1.62865E-03	-2.35195E-01	7.58830E 00	-1.21073E 02	02
6.70	1.15604E 00	-6.63406E 00	-2.38663E-01	1.67670E-03	-2.40321E-01	7.69536E 00	-1.21825E 02	02
6.80	1.15596E 00	-6.74094E 00	-2.44093E-01	1.72336E-03	-2.45498E-01	7.80240E 00	-1.22564E 02	02
6.90	1.15588E 00	-6.84781E 00	-2.49574E-01	1.76864E-03	-2.50725E-01	7.90942E 00	-1.23291E 02	02
7.00	1.15580E 00	-6.95467E 00	-2.55105E-01	1.81265E-03	-2.56003E-01	8.01641E 00	-1.24004E 02	02
7.10	1.15573E 00	-7.06152E 00	-2.60686E-01	1.85541E-03	-2.61330E-01	8.12339E 00	-1.24706E 02	02
7.20	1.15566E 00	-7.16835E 00	-2.66317E-01	1.89698E-03	-2.66708E-01	8.23034E 00	-1.25396E 02	02
7.30	1.15559E 00	-7.27517E 00	-2.71999E-01	1.93741E-03	-2.72136E-01	8.33727E 00	-1.26075E 02	02
7.40	1.15552E 00	-7.38198E 00	-2.77731E-01	1.97675E-03	-2.77615E-01	8.44419E 00	-1.26742E 02	02
7.50	1.15545E 00	-7.48878E 00	-2.83513E-01	2.01503E-03	-2.83143E-01	8.55108E 00	-1.27399E 02	02
7.60	1.15539E 00	-7.59556E 00	-2.89346E-01	2.05229E-03	-2.88722E-01	8.65796E 00	-1.28045E 02	02
7.70	1.15533E 00	-7.70234E 00	-2.95229E-01	2.08859E-03	-2.94351E-01	8.76481E 00	-1.28680E 02	02
7.80	1.15526E 00	-7.80909E 00	-3.01162E-01	2.12396E-03	-3.00031E-01	8.87165E 00	-1.29306E 02	02
7.90	1.15521E 00	-7.91584E 00	-3.07146E-01	2.15842E-03	-3.05760E-01	8.97847E 00	-1.29921E 02	02
8.00	1.15515E 00	-8.02257E 00	-3.13180E-01	2.19202E-03	-3.11540E-01	9.08527E 00	-1.30527E 02	02
8.10	1.15509E 00	-8.12929E 00	-3.19264E-01	2.22477E-03	-3.17370E-01	9.19205E 00	-1.31124E 02	02
8.20	1.15504E 00	-8.23600E 00	-3.25399E-01	2.25672E-03	-3.23251E-01	9.29882E 00	-1.31712E 02	02
8.30	1.15498E 00	-8.34270E 00	-3.31584E-01	2.28790E-03	-3.29181E-01	9.40556E 00	-1.32290E 02	02
8.40	1.15493E 00	-8.44938E 00	-3.37819E-01	2.31832E-03	-3.35162E-01	9.51229E 00	-1.32860E 02	02
8.50	1.15488E 00	-8.55605E 00	-3.44104E-01	2.34802E-03	-3.41193E-01	9.61900E 00	-1.33422E 02	02
8.60	1.15483E 00	-8.66270E 00	-3.50440E-01	2.37702E-03	-3.47275E-01	9.72570E 00	-1.33975E 02	02
8.70	1.15478E 00	-8.76935E 00	-3.56825E-01	2.40535E-03	-3.53406E-01	9.83238E 00	-1.34520E 02	02
8.80	1.15473E 00	-8.87598E 00	-3.63261E-01	2.43302E-03	-3.59588E-01	9.93904E 00	-1.35057E 02	02
8.90	1.15469E 00	-8.98259E 00	-3.69748E-01	2.46006E-03	-3.65820E-01	1.00457E 01	-1.35586E 02	02
9.00	1.15464E 00	-9.08919E 00	-3.76284E-01	2.48650E-03	-3.72102E-01	1.01523E 01	-1.36108E 02	02
9.10	1.15460E 00	-9.19578E 00	-3.82871E-01	2.51234E-03	-3.78434E-01	1.02589E 01	-1.36623E 02	02
9.20	1.15455E 00	-9.30236E 00	-3.89508E-01	2.53762E-03	-3.84816E-01	1.03655E 01	-1.37130E 02	02
9.30	1.15451E 00	-9.40893E 00	-3.96195E-01	2.56233E-03	-3.91249E-01	1.04721E 01	-1.37630E 02	02
9.40	1.15447E 00	-9.51548E 00	-4.02932E-01	2.58651E-03	-3.97732E-01	1.05787E 01	-1.38124E 02	02
9.50	1.15443E 00	-9.62201E 00	-4.09720E-01	2.61017E-03	-4.04265E-01	1.06852E 01	-1.38610E 02	02
9.60	1.15439E 00	-9.72854E 00	-4.16558E-01	2.63333E-03	-4.10848E-01	1.07917E 01	-1.39090E 02	02
9.70	1.15435E 00	-9.83505E 00	-4.23445E-01	2.65600E-03	-4.17482E-01	1.08982E 01	-1.39564E 02	02
9.80	1.15431E 00	-9.94155E 00	-4.30383E-01	2.67819E-03	-4.24165E-01	1.10047E 01	-1.40032E 02	02
9.90	1.15427E 00	-1.00480E 01	-4.37372E-01	2.69993E-03	-4.30899E-01	1.11112E 01	-1.40493E 02	02
10.00	1.15423E 00	-1.01545E 01	-4.44410E-01	2.72123E-03	-4.37683E-01	1.12177E 01	-1.40948E 02	02
10.10	1.15419E 00	-1.02610E 01	-4.51499E-01	2.74208E-03	-4.44516E-01	1.13241E 01	-1.41397E 02	02
10.20	1.15416E 00	-1.03674E 01	-4.58637E-01	2.76253E-03	-4.51401E-01	1.14306E 01	-1.41841E 02	02
10.30	1.15412E 00	-1.04738E 01	-4.65826E-01	2.78255E-03	-4.58335E-01	1.15370E 01	-1.42279E 02	02
10.40	1.15409E 00	-1.05803E 01	-4.73065E-01	2.80219E-03	-4.65319E-01	1.16434E 01	-1.42711E 02	02
10.50	1.15405E 00	-1.06867E 01	-4.80354E-01	2.82143E-03	-4.72354E-01	1.17498E 01	-1.43138E 02	02
10.60	1.15402E 00	-1.07930E 01	-4.87693E-01	2.84030E-03	-4.79438E-01	1.18562E 01	-1.43559E 02	02
10.70	1.15399E 00	-1.08994E 01	-4.95082E-01	2.85881E-03	-4.86573E-01	1.19625E 01	-1.43976E 02	02
10.80	1.15395E 00	-1.10058E 01	-5.02522E-01	2.87696E-03	-4.93758E-01	1.20689E 01	-1.44387E 02	02
10.90	1.15392E 00	-1.11121E 01	-5.10011E-01	2.89477E-03	-5.00993E-01	1.21752E 01	-1.44793E 02	02
11.00	1.15389E 00	-1.12185E 01	-5.17551E-01	2.91224E-03	-5.08277E-01	1.22815E 01	-1.45195E 02	02
11.10	1.15386E 00	-1.13248E 01	-5.25140E-01	2.92938E-03	-5.15613E-01	1.23878E 01	-1.45592E 02	02
11.20	1.15383E 00	-1.14311E 01	-5.32780E-01	2.94621E-03	-5.22998E-01	1.24941E 01	-1.45984E 02	02
11.30	1.15380E 00	-1.15374E 01	-5.40470E-01	2.96272E-03	-5.30433E-01	1.26004E 01	-1.46371E 02	02
11.40	1.15377E 00	-1.16437E 01	-5.48210E-01	2.97894E-03	-5.37918E-01	1.27066E 01	-1.46754E 02	02
11.50	1.15374E 00	-1.17499E 01	-5.55999E-01	2.99485E-03	-5.45453E-01	1.28128E 01	-1.47133E 02	02
11.60	1.15371E 00	-1.18562E 01	-5.63839E-01	3.01049E-03	-5.53039E-01	1.29191E 01	-1.47507E 02	02
11.70	1.15368E 00	-1.19624E 01	-5.71729E-01	3.02584E-03	-5.60674E-01	1.30253E 01	-1.47877E 02	02
11.80	1.15365E 00	-1.20687E 01	-5.79669E-01	3.04092E-03	-5.68359E-01	1.31315E 01	-1.48243E 02	02
11.90	1.15362E 00	-1.21749E 01	-5.87659E-01	3.05573E-03	-5.76095E-01	1.32376E 01	-1.48604E 02	02
12.00	1.15360E 00	-1.22811E 01	-5.95699E-01	3.07028E-03	-5.83880E-01	1.33438E 01	-1.48962E 02	02

## ELECTRON RADIAL FUNCTIONS

 $Z=6$  $A=12$  $\rho=1.2 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	6.03570E-05	-8.66799E-02	-1.75367E-03	3.23706E 01	-1.77399E-03	1.02041E-01	-2.73000E-02
6.20	6.23476E-05	-8.96758E-02	-1.82689E-03	3.24141E 01	-1.84532E-03	1.05293E-01	-2.73165E-02
6.30	6.43706E-05	-9.27224E-02	-1.90199E-03	3.24562E 01	-1.91847E-03	1.08595E-01	-2.73326E-02
6.40	6.64258E-05	-9.58196E-02	-1.97900E-03	3.24968E 01	-1.99345E-03	1.11948E-01	-2.73484E-02
6.50	6.85134E-05	-9.89676E-02	-2.05795E-03	3.25362E 01	-2.07028E-03	1.15351E-01	-2.73639E-02
6.60	7.06333E-05	-1.02166E-01	-2.13885E-03	3.25742E 01	-2.14900E-03	1.18806E-01	-2.73790E-02
6.70	7.27856E-05	-1.05416E-01	-2.22172E-03	3.26111E 01	-2.22962E-03	1.22310E-01	-2.73939E-02
6.80	7.49702E-05	-1.08716E-01	-2.30658E-03	3.26468E 01	-2.31217E-03	1.25866E-01	-2.74085E-02
6.90	7.71871E-05	-1.12066E-01	-2.39347E-03	3.26814E 01	-2.39665E-03	1.29472E-01	-2.74227E-02
7.00	7.94364E-05	-1.15468E-01	-2.48239E-03	3.27149E 01	-2.48311E-03	1.33128E-01	-2.74367E-02
7.10	8.17180E-05	-1.18920E-01	-2.57337E-03	3.27475E 01	-2.57155E-03	1.36836E-01	-2.74504E-02
7.20	8.40319E-05	-1.22423E-01	-2.66644E-03	3.27790E 01	-2.66200E-03	1.40593E-01	-2.74639E-02
7.30	8.63782E-05	-1.25976E-01	-2.76161E-03	3.28097E 01	-2.75448E-03	1.44402E-01	-2.74770E-02
7.40	8.87567E-05	-1.29580E-01	-2.85890E-03	3.28395E 01	-2.84901E-03	1.48261E-01	-2.74900E-02
7.50	9.11677E-05	-1.33235E-01	-2.95834E-03	3.28684E 01	-2.94562E-03	1.52170E-01	-2.75026E-02
7.60	9.36109E-05	-1.36940E-01	-3.05995E-03	3.28966E 01	-3.04432E-03	1.56131E-01	-2.75151E-02
7.70	9.60865E-05	-1.40696E-01	-3.16375E-03	3.29239E 01	-3.14514E-03	1.60141E-01	-2.75272E-02
7.80	9.85944E-05	-1.44502E-01	-3.26976E-03	3.29505E 01	-3.24809E-03	1.64202E-01	-2.75392E-02
7.90	1.01135E-04	-1.48359E-01	-3.37800E-03	3.29764E 01	-3.35321E-03	1.68314E-01	-2.75509E-02
8.00	1.03707E-04	-1.52267E-01	-3.48849E-03	3.30016E 01	-3.46051E-03	1.72477E-01	-2.75624E-02
8.10	1.06312E-04	-1.56226E-01	-3.60126E-03	3.30261E 01	-3.57001E-03	1.76690E-01	-2.75737E-02
8.20	1.08949E-04	-1.60235E-01	-3.71633E-03	3.30500E 01	-3.68174E-03	1.80953E-01	-2.75848E-02
8.30	1.11619E-04	-1.64294E-01	-3.83372E-03	3.30733E 01	-3.79571E-03	1.85267E-01	-2.75957E-02
8.40	1.14321E-04	-1.68404E-01	-3.95345E-03	3.30961E 01	-3.91195E-03	1.89632E-01	-2.76064E-02
8.50	1.17055E-04	-1.72565E-01	-4.07553E-03	3.31182E 01	-4.03048E-03	1.94047E-01	-2.76169E-02
8.60	1.19821E-04	-1.76776E-01	-4.20001E-03	3.31398E 01	-4.15132E-03	1.98513E-01	-2.76272E-02
8.70	1.22620E-04	-1.81038E-01	-4.32688E-03	3.31609E 01	-4.27449E-03	2.03029E-01	-2.76373E-02
8.80	1.25451E-04	-1.85351E-01	-4.45619E-03	3.31814E 01	-4.40002E-03	2.07596E-01	-2.76472E-02
8.90	1.28315E-04	-1.89714E-01	-4.58794E-03	3.32015E 01	-4.52792E-03	2.12213E-01	-2.76570E-02
9.00	1.31211E-04	-1.94127E-01	-4.72216E-03	3.32211E 01	-4.65821E-03	2.16881E-01	-2.76666E-02
9.10	1.34139E-04	-1.98591E-01	-4.85887E-03	3.32402E 01	-4.79093E-03	2.21599E-01	-2.76760E-02
9.20	1.37099E-04	-2.03106E-01	-4.99809E-03	3.32589E 01	-4.92609E-03	2.26368E-01	-2.76853E-02
9.30	1.40092E-04	-2.07671E-01	-5.13985E-03	3.32772E 01	-5.06370E-03	2.31187E-01	-2.76944E-02
9.40	1.43117E-04	-2.12287E-01	-5.28416E-03	3.32950E 01	-5.20380E-03	2.36057E-01	-2.77033E-02
9.50	1.46174E-04	-2.16953E-01	-5.43105E-03	3.33125E 01	-5.34641E-03	2.40977E-01	-2.77121E-02
9.60	1.49264E-04	-2.21670E-01	-5.58053E-03	3.33296E 01	-5.49154E-03	2.45948E-01	-2.77207E-02
9.70	1.52386E-04	-2.26437E-01	-5.73264E-03	3.33463E 01	-5.63922E-03	2.50969E-01	-2.77292E-02
9.80	1.55541E-04	-2.31255E-01	-5.88739E-03	3.33626E 01	-5.78946E-03	2.56041E-01	-2.77376E-02
9.90	1.58727E-04	-2.36123E-01	-6.04480E-03	3.33786E 01	-5.94230E-03	2.61163E-01	-2.77458E-02
10.00	1.61947E-04	-2.41042E-01	-6.20489E-03	3.33943E 01	-6.09775E-03	2.66336E-01	-2.77539E-02
10.10	1.65198E-04	-2.46011E-01	-6.36769E-03	3.34096E 01	-6.25583E-03	2.71559E-01	-2.77619E-02
10.20	1.68482E-04	-2.51031E-01	-6.53322E-03	3.34246E 01	-6.41656E-03	2.76832E-01	-2.77697E-02
10.30	1.71798E-04	-2.56102E-01	-6.70150E-03	3.34393E 01	-6.57998E-03	2.82156E-01	-2.77774E-02
10.40	1.75146E-04	-2.61222E-01	-6.87254E-03	3.34537E 01	-6.74609E-03	2.87531E-01	-2.77850E-02
10.50	1.78527E-04	-2.66394E-01	-7.04638E-03	3.34678E 01	-6.91492E-03	2.92956E-01	-2.77924E-02
10.60	1.81939E-04	-2.71615E-01	-7.22303E-03	3.34817E 01	-7.08649E-03	2.98431E-01	-2.77998E-02
10.70	1.85385E-04	-2.76887E-01	-7.40252E-03	3.34952E 01	-7.26082E-03	3.03957E-01	-2.78070E-02
10.80	1.88862E-04	-2.82210E-01	-7.58486E-03	3.35085E 01	-7.43794E-03	3.09533E-01	-2.78141E-02
10.90	1.92372E-04	-2.87583E-01	-7.77007E-03	3.35215E 01	-7.61785E-03	3.15159E-01	-2.78211E-02
11.00	1.95915E-04	-2.93007E-01	-7.95819E-03	3.35343E 01	-7.80060E-03	3.20836E-01	-2.78280E-02
11.10	1.99489E-04	-2.98480E-01	-8.14923E-03	3.35469E 01	-7.98620E-03	3.26564E-01	-2.78348E-02
11.20	2.03096E-04	-3.04005E-01	-8.34321E-03	3.35592E 01	-8.17466E-03	3.32342E-01	-2.78415E-02
11.30	2.06735E-04	-3.09580E-01	-8.54015E-03	3.35713E 01	-8.36602E-03	3.38170E-01	-2.78481E-02
11.40	2.10407E-04	-3.15205E-01	-8.74007E-03	3.35831E 01	-8.56029E-03	3.44048E-01	-2.78546E-02
11.50	2.14111E-04	-3.20880E-01	-8.94300E-03	3.35947E 01	-8.75749E-03	3.49977E-01	-2.78610E-02
11.60	2.17847E-04	-3.26606E-01	-9.14896E-03	3.36062E 01	-8.95764E-03	3.55957E-01	-2.78673E-02
11.70	2.21615E-04	-3.32383E-01	-9.35797E-03	3.36174E 01	-9.16078E-03	3.61986E-01	-2.78735E-02
11.80	2.25416E-04	-3.38210E-01	-9.57005E-03	3.36284E 01	-9.36691E-03	3.68066E-01	-2.78797E-02
11.90	2.29249E-04	-3.44087E-01	-9.78522E-03	3.36392E 01	-9.57606E-03	3.74197E-01	-2.78857E-02
12.00	2.33114E-04	-3.50014E-01	-1.00035E-02	3.36499E 01	-9.78825E-03	3.80378E-01	-2.78916E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$		$A=12$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	1.15357E 00	-1.23872E 01	-6.03789E-01	3.08458E-03	-5.91715E-01	1.34499E 01	-1.49316E 02	02
12.20	1.15354E 00	-1.24934E 01	-6.11929E-01	3.09863E-03	-5.99601E-01	1.35561E 01	-1.49666E 02	02
12.30	1.15352E 00	-1.25996E 01	-6.20119E-01	3.11244E-03	-6.07536E-01	1.36622E 01	-1.50012E 02	02
12.40	1.15349E 00	-1.27057E 01	-6.28359E-01	3.12601E-03	-6.15522E-01	1.37683E 01	-1.50354E 02	02
12.50	1.15347E 00	-1.28118E 01	-6.36648E-01	3.13936E-03	-6.23557E-01	1.38744E 01	-1.50693E 02	02
12.60	1.15344E 00	-1.29179E 01	-6.44988E-01	3.15247E-03	-6.31642E-01	1.39804E 01	-1.51029E 02	02
12.70	1.15341E 00	-1.30240E 01	-6.53378E-01	3.16537E-03	-6.39777E-01	1.40865E 01	-1.51360E 02	02
12.80	1.15339E 00	-1.31301E 01	-6.61818E-01	3.17804E-03	-6.47963E-01	1.41925E 01	-1.51689E 02	02
12.90	1.15337E 00	-1.32362E 01	-6.70307E-01	3.19053E-03	-6.56198E-01	1.42985E 01	-1.52014E 02	02
13.00	1.15334E 00	-1.33422E 01	-6.78847E-01	3.20279E-03	-6.64483E-01	1.44046E 01	-1.52336E 02	02
13.10	1.15332E 00	-1.34483E 01	-6.87436E-01	3.21485E-03	-6.72818E-01	1.45105E 01	-1.52654E 02	02
13.20	1.15329E 00	-1.35543E 01	-6.96075E-01	3.22672E-03	-6.81203E-01	1.46165E 01	-1.52969E 02	02
13.30	1.15327E 00	-1.36603E 01	-7.04764E-01	3.23841E-03	-6.89637E-01	1.47225E 01	-1.53281E 02	02
13.40	1.15325E 00	-1.37663E 01	-7.13504E-01	3.24990E-03	-6.98122E-01	1.48284E 01	-1.53590E 02	02
13.50	1.15323E 00	-1.38723E 01	-7.22293E-01	3.26120E-03	-7.06657E-01	1.49344E 01	-1.53897E 02	02
13.60	1.15320E 00	-1.39783E 01	-7.31132E-01	3.27232E-03	-7.15241E-01	1.50403E 01	-1.54200E 02	02
13.70	1.15318E 00	-1.40842E 01	-7.40021E-01	3.28327E-03	-7.23876E-01	1.51462E 01	-1.54500E 02	02
13.80	1.15316E 00	-1.41901E 01	-7.48959E-01	3.29406E-03	-7.32560E-01	1.52521E 01	-1.54797E 02	02
13.90	1.15314E 00	-1.42961E 01	-7.57948E-01	3.30466E-03	-7.41294E-01	1.53579E 01	-1.55092E 02	02
14.00	1.15312E 00	-1.44020E 01	-7.66986E-01	3.31510E-03	-7.50078E-01	1.54638E 01	-1.55384E 02	02
14.10	1.15310E 00	-1.45079E 01	-7.76074E-01	3.32538E-03	-7.58912E-01	1.55696E 01	-1.55673E 02	02
14.20	1.15307E 00	-1.46137E 01	-7.85212E-01	3.33550E-03	-7.67796E-01	1.56754E 01	-1.55959E 02	02
14.30	1.15305E 00	-1.47196E 01	-7.94400E-01	3.34548E-03	-7.76729E-01	1.57812E 01	-1.56243E 02	02
14.40	1.15303E 00	-1.48255E 01	-8.03637E-01	3.35529E-03	-7.85712E-01	1.58870E 01	-1.56524E 02	02
14.50	1.15301E 00	-1.49313E 01	-8.12925E-01	3.36495E-03	-7.94745E-01	1.59928E 01	-1.56803E 02	02
14.60	1.15299E 00	-1.50371E 01	-8.22262E-01	3.37447E-03	-8.03828E-01	1.60986E 01	-1.57079E 02	02
14.70	1.15297E 00	-1.51429E 01	-8.31649E-01	3.38385E-03	-8.12961E-01	1.62043E 01	-1.57353E 02	02
14.80	1.15295E 00	-1.52487E 01	-8.41086E-01	3.39308E-03	-8.22143E-01	1.63100E 01	-1.57624E 02	02
14.90	1.15293E 00	-1.53545E 01	-8.50572E-01	3.40217E-03	-8.31376E-01	1.64157E 01	-1.57893E 02	02
15.00	1.15291E 00	-1.54602E 01	-8.60108E-01	3.41114E-03	-8.40658E-01	1.65214E 01	-1.58160E 02	02
15.10	1.15289E 00	-1.55660E 01	-8.69694E-01	3.41996E-03	-8.49989E-01	1.66271E 01	-1.58424E 02	02
15.20	1.15288E 00	-1.56717E 01	-8.79330E-01	3.42867E-03	-8.59371E-01	1.67328E 01	-1.58686E 02	02
15.30	1.15286E 00	-1.57774E 01	-8.89015E-01	3.43724E-03	-8.68802E-01	1.68384E 01	-1.58946E 02	02
15.40	1.15284E 00	-1.58831E 01	-8.98750E-01	3.44568E-03	-8.78283E-01	1.69441E 01	-1.59204E 02	02
15.50	1.15282E 00	-1.59888E 01	-9.08535E-01	3.45400E-03	-8.87814E-01	1.70497E 01	-1.59460E 02	02
15.60	1.15280E 00	-1.60944E 01	-9.18370E-01	3.46221E-03	-8.97394E-01	1.71553E 01	-1.59713E 02	02
15.70	1.15278E 00	-1.62001E 01	-9.28254E-01	3.47028E-03	-9.07024E-01	1.72609E 01	-1.59965E 02	02
15.80	1.15277E 00	-1.63057E 01	-9.38188E-01	3.47826E-03	-9.16704E-01	1.73664E 01	-1.60214E 02	02
15.90	1.15275E 00	-1.64113E 01	-9.48172E-01	3.48610E-03	-9.26434E-01	1.74720E 01	-1.60462E 02	02
16.00	1.15273E 00	-1.65169E 01	-9.58205E-01	3.49384E-03	-9.36213E-01	1.75775E 01	-1.60708E 02	02
16.10	1.15271E 00	-1.66225E 01	-9.68288E-01	3.50147E-03	-9.46042E-01	1.76830E 01	-1.60951E 02	02
16.20	1.15270E 00	-1.67281E 01	-9.78421E-01	3.50899E-03	-9.55920E-01	1.77885E 01	-1.61193E 02	02
16.30	1.15268E 00	-1.68337E 01	-9.88603E-01	3.51641E-03	-9.65848E-01	1.78940E 01	-1.61433E 02	02
16.40	1.15266E 00	-1.69392E 01	-9.98835E-01	3.52371E-03	-9.75826E-01	1.79995E 01	-1.61671E 02	02
16.50	1.15265E 00	-1.70447E 01	-1.00912E 00	3.53092E-03	-9.85854E-01	1.81050E 01	-1.61907E 02	02
16.60	1.15263E 00	-1.71502E 01	-1.01945E 00	3.53802E-03	-9.95931E-01	1.82104E 01	-1.62141E 02	02
16.70	1.15261E 00	-1.72557E 01	-1.02983E 00	3.54503E-03	-1.00606E 00	1.83158E 01	-1.62374E 02	02
16.80	1.15260E 00	-1.73612E 01	-1.04026E 00	3.55194E-03	-1.01623E 00	1.84212E 01	-1.62605E 02	02
16.90	1.15258E 00	-1.74666E 01	-1.05074E 00	3.55875E-03	-1.02646E 00	1.85266E 01	-1.62835E 02	02
17.00	1.15256E 00	-1.75721E 01	-1.06127E 00	3.56547E-03	-1.03674E 00	1.86320E 01	-1.63062E 02	02
17.10	1.15255E 00	-1.76775E 01	-1.07185E 00	3.57209E-03	-1.04706E 00	1.87373E 01	-1.63288E 02	02
17.20	1.15253E 00	-1.77829E 01	-1.08247E 00	3.57862E-03	-1.05743E 00	1.88427E 01	-1.63512E 02	02
17.30	1.15252E 00	-1.78883E 01	-1.09315E 00	3.58506E-03	-1.06786E 00	1.89480E 01	-1.63735E 02	02
17.40	1.15250E 00	-1.79937E 01	-1.10388E 00	3.59142E-03	-1.07833E 00	1.90533E 01	-1.63957E 02	02
17.50	1.15248E 00	-1.80991E 01	-1.11466E 00	3.59769E-03	-1.08886E 00	1.91586E 01	-1.64176E 02	02
17.60	1.15247E 00	-1.82044E 01	-1.12548E 00	3.60387E-03	-1.09943E 00	1.92639E 01	-1.64394E 02	02
17.70	1.15245E 00	-1.83097E 01	-1.13636E 00	3.60997E-03	-1.11005E 00	1.93691E 01	-1.64611E 02	02
17.80	1.15244E 00	-1.84151E 01	-1.14729E 00	3.61599E-03	-1.12072E 00	1.94744E 01	-1.64826E 02	02
17.90	1.15242E 00	-1.85203E 01	-1.15826E 00	3.62191E-03	-1.13144E 00	1.95796E 01	-1.65040E 02	02
18.00	1.15241E 00	-1.86256E 01	-1.16929E 00	3.62777E-03	-1.14221E 00	1.96848E 01	-1.65252E 02	02

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
		$Z=6$	$A=12$	$\rho=1.2 A^{1/3} F$			Electron
12.10	2.37012E-04	-3.55993E-01	-1.02249E-02	3.36603E 01	-1.00035E-02	3.86609E-01	-2.78975E-02
12.20	2.40942E-04	-3.62021E-01	-1.04495E-02	3.36706E 01	-1.02219E-02	3.92890E-01	-2.79033E-02
12.30	2.44905E-04	-3.68100E-01	-1.06773E-02	3.36807E 01	-1.04433E-02	3.99222E-01	-2.79090E-02
12.40	2.48899E-04	-3.74229E-01	-1.09082E-02	3.36906E 01	-1.06679E-02	4.05604E-01	-2.79146E-02
12.50	2.52926E-04	-3.80408E-01	-1.11424E-02	3.37003E 01	-1.08956E-02	4.12037E-01	-2.79202E-02
12.60	2.56986E-04	-3.86638E-01	-1.13798E-02	3.37099E 01	-1.11265E-02	4.18519E-01	-2.79256E-02
12.70	2.61077E-04	-3.92918E-01	-1.16205E-02	3.37194E 01	-1.13605E-02	4.25052E-01	-2.79310E-02
12.80	2.65201E-04	-3.99248E-01	-1.18644E-02	3.37286E 01	-1.15978E-02	4.31636E-01	-2.79363E-02
12.90	2.69357E-04	-4.05629E-01	-1.21117E-02	3.37378E 01	-1.18384E-02	4.38269E-01	-2.79416E-02
13.00	2.73546E-04	-4.12060E-01	-1.23623E-02	3.37468E 01	-1.20821E-02	4.44953E-01	-2.79468E-02
13.10	2.77767E-04	-4.18541E-01	-1.26162E-02	3.37556E 01	-1.23292E-02	4.51688E-01	-2.79519E-02
13.20	2.82020E-04	-4.25073E-01	-1.28735E-02	3.37643E 01	-1.25795E-02	4.58472E-01	-2.79569E-02
13.30	2.86305E-04	-4.31655E-01	-1.31342E-02	3.37728E 01	-1.28332E-02	4.65307E-01	-2.79619E-02
13.40	2.90623E-04	-4.38287E-01	-1.33983E-02	3.37813E 01	-1.30902E-02	4.72192E-01	-2.79668E-02
13.50	2.94973E-04	-4.44970E-01	-1.36659E-02	3.37896E 01	-1.33506E-02	4.79127E-01	-2.79717E-02
13.60	2.99356E-04	-4.51703E-01	-1.39369E-02	3.37977E 01	-1.36143E-02	4.86113E-01	-2.79764E-02
13.70	3.03770E-04	-4.58486E-01	-1.42114E-02	3.38058E 01	-1.38815E-02	4.93149E-01	-2.79812E-02
13.80	3.08218E-04	-4.65319E-01	-1.44893E-02	3.38137E 01	-1.41521E-02	5.00235E-01	-2.79858E-02
13.90	3.12697E-04	-4.72203E-01	-1.47708E-02	3.38215E 01	-1.44261E-02	5.07371E-01	-2.79904E-02
14.00	3.17208E-04	-4.79137E-01	-1.50559E-02	3.38292E 01	-1.47036E-02	5.14557E-01	-2.79950E-02
14.10	3.21752E-04	-4.86121E-01	-1.53445E-02	3.38367E 01	-1.49846E-02	5.21794E-01	-2.79995E-02
14.20	3.26329E-04	-4.93155E-01	-1.56366E-02	3.38442E 01	-1.52691E-02	5.29081E-01	-2.80039E-02
14.30	3.30937E-04	-5.00240E-01	-1.59324E-02	3.38515E 01	-1.55572E-02	5.36418E-01	-2.80083E-02
14.40	3.35578E-04	-5.07374E-01	-1.62318E-02	3.38588E 01	-1.58488E-02	5.43805E-01	-2.80126E-02
14.50	3.40251E-04	-5.14559E-01	-1.65349E-02	3.38659E 01	-1.61439E-02	5.51243E-01	-2.80169E-02
14.60	3.44957E-04	-5.21795E-01	-1.68416E-02	3.38729E 01	-1.64427E-02	5.58731E-01	-2.80211E-02
14.70	3.49695E-04	-5.29080E-01	-1.71520E-02	3.38799E 01	-1.67451E-02	5.66268E-01	-2.80253E-02
14.80	3.54465E-04	-5.36416E-01	-1.74662E-02	3.38867E 01	-1.70511E-02	5.73857E-01	-2.80294E-02
14.90	3.59267E-04	-5.43801E-01	-1.77840E-02	3.38934E 01	-1.73608E-02	5.81495E-01	-2.80335E-02
15.00	3.64102E-04	-5.51238E-01	-1.81056E-02	3.39001E 01	-1.76741E-02	5.89183E-01	-2.80375E-02
15.10	3.68969E-04	-5.58724E-01	-1.84310E-02	3.39066E 01	-1.79912E-02	5.96922E-01	-2.80415E-02
15.20	3.73869E-04	-5.66260E-01	-1.87602E-02	3.39131E 01	-1.83120E-02	6.04710E-01	-2.80454E-02
15.30	3.78800E-04	-5.73847E-01	-1.90932E-02	3.39195E 01	-1.86365E-02	6.12549E-01	-2.80493E-02
15.40	3.83764E-04	-5.81483E-01	-1.94301E-02	3.39257E 01	-1.89648E-02	6.20438E-01	-2.80531E-02
15.50	3.88760E-04	-5.89170E-01	-1.97708E-02	3.39319E 01	-1.92969E-02	6.28377E-01	-2.80569E-02
15.60	3.93789E-04	-5.96907E-01	-2.01154E-02	3.39381E 01	-1.96328E-02	6.36366E-01	-2.80606E-02
15.70	3.98850E-04	-6.04694E-01	-2.04639E-02	3.39441E 01	-1.99726E-02	6.44406E-01	-2.80643E-02
15.80	4.03943E-04	-6.12532E-01	-2.08163E-02	3.39501E 01	-2.03161E-02	6.52495E-01	-2.80680E-02
15.90	4.09069E-04	-6.20419E-01	-2.11726E-02	3.39559E 01	-2.06636E-02	6.60635E-01	-2.80716E-02
16.00	4.14227E-04	-6.28356E-01	-2.15330E-02	3.39617E 01	-2.10150E-02	6.68824E-01	-2.80752E-02
16.10	4.19417E-04	-6.36344E-01	-2.18973E-02	3.39675E 01	-2.13702E-02	6.77064E-01	-2.80788E-02
16.20	4.24639E-04	-6.44382E-01	-2.22656E-02	3.39731E 01	-2.17294E-02	6.85353E-01	-2.80823E-02
16.30	4.29894E-04	-6.52470E-01	-2.26380E-02	3.39787E 01	-2.20926E-02	6.93693E-01	-2.80857E-02
16.40	4.35181E-04	-6.60607E-01	-2.30144E-02	3.39842E 01	-2.24597E-02	7.02083E-01	-2.80891E-02
16.50	4.40500E-04	-6.68795E-01	-2.33949E-02	3.39896E 01	-2.28309E-02	7.10523E-01	-2.80925E-02
16.60	4.45852E-04	-6.77033E-01	-2.37794E-02	3.39950E 01	-2.32061E-02	7.19013E-01	-2.80959E-02
16.70	4.51236E-04	-6.85321E-01	-2.41681E-02	3.40003E 01	-2.35853E-02	7.27553E-01	-2.80992E-02
16.80	4.56652E-04	-6.93660E-01	-2.45609E-02	3.40056E 01	-2.39686E-02	7.36143E-01	-2.81025E-02
16.90	4.62101E-04	-7.02048E-01	-2.49579E-02	3.40107E 01	-2.43559E-02	7.44783E-01	-2.81057E-02
17.00	4.67582E-04	-7.10486E-01	-2.53591E-02	3.40158E 01	-2.47474E-02	7.53473E-01	-2.81089E-02
17.10	4.73095E-04	-7.18974E-01	-2.57645E-02	3.40209E 01	-2.51430E-02	7.62213E-01	-2.81121E-02
17.20	4.78640E-04	-7.27513E-01	-2.61741E-02	3.40259E 01	-2.55428E-02	7.71003E-01	-2.81152E-02
17.30	4.84218E-04	-7.36101E-01	-2.65879E-02	3.40308E 01	-2.59467E-02	7.79843E-01	-2.81183E-02
17.40	4.89828E-04	-7.44739E-01	-2.70060E-02	3.40357E 01	-2.63548E-02	7.88733E-01	-2.81214E-02
17.50	4.95471E-04	-7.53427E-01	-2.74284E-02	3.40405E 01	-2.67671E-02	7.97673E-01	-2.81245E-02
17.60	5.01145E-04	-7.62166E-01	-2.78551E-02	3.40452E 01	-2.71837E-02	8.06663E-01	-2.81275E-02
17.70	5.06852E-04	-7.70954E-01	-2.82861E-02	3.40499E 01	-2.76045E-02	8.15703E-01	-2.81305E-02
17.80	5.12592E-04	-7.79792E-01	-2.87214E-02	3.40546E 01	-2.80296E-02	8.24793E-01	-2.81334E-02
17.90	5.18363E-04	-7.88681E-01	-2.91612E-02	3.40592E 01	-2.84590E-02	8.33933E-01	-2.81363E-02
18.00	5.24167E-04	-7.97619E-01	-2.96053E-02	3.40637E 01	-2.88927E-02	8.43122E-01	-2.81392E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$		$A=12$		$\rho=1.2A^{1/3}F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
18.10	1.15239E 00	-1.87309E 01	-1.18036E 00	3.63354E-03	-1.15304E 00	1.97900E 01	-1.65463E 02			
18.20	1.15238E 00	-1.88361E 01	-1.19148E 00	3.63924E-03	-1.16391E 00	1.98952E 01	-1.65673E 02			
18.30	1.15236E 00	-1.89414E 01	-1.20266E 00	3.64486E-03	-1.17482E 00	2.00003E 01	-1.65881E 02			
18.40	1.15235E 00	-1.90466E 01	-1.21388E 00	3.65040E-03	-1.18579E 00	2.01054E 01	-1.66088E 02			
18.50	1.15234E 00	-1.91518E 01	-1.22515E 00	3.65587E-03	-1.19681E 00	2.02106E 01	-1.66294E 02			
18.60	1.15232E 00	-1.92570E 01	-1.23647E 00	3.66126E-03	-1.20788E 00	2.03157E 01	-1.66498E 02			
18.70	1.15231E 00	-1.93621E 01	-1.24784E 00	3.66659E-03	-1.21900E 00	2.04208E 01	-1.66701E 02			
18.80	1.15229E 00	-1.94673E 01	-1.25926E 00	3.67184E-03	-1.23016E 00	2.05258E 01	-1.66903E 02			
18.90	1.15228E 00	-1.95724E 01	-1.27073E 00	3.67702E-03	-1.24138E 00	2.06309E 01	-1.67104E 02			
19.00	1.15227E 00	-1.96775E 01	-1.28225E 00	3.68213E-03	-1.25264E 00	2.07359E 01	-1.67303E 02			
19.10	1.15225E 00	-1.97826E 01	-1.29382E 00	3.68718E-03	-1.26396E 00	2.08409E 01	-1.67501E 02			
19.20	1.15224E 00	-1.98877E 01	-1.30544E 00	3.69216E-03	-1.27532E 00	2.09459E 01	-1.67698E 02			
19.30	1.15222E 00	-1.99927E 01	-1.31710E 00	3.69707E-03	-1.28674E 00	2.10509E 01	-1.67894E 02			
19.40	1.15221E 00	-2.00978E 01	-1.32882E 00	3.70192E-03	-1.29820E 00	2.11559E 01	-1.68088E 02			
19.50	1.15220E 00	-2.02028E 01	-1.34059E 00	3.70670E-03	-1.30971E 00	2.12608E 01	-1.68282E 02			
19.60	1.15218E 00	-2.03078E 01	-1.35240E 00	3.71143E-03	-1.32127E 00	2.13658E 01	-1.68474E 02			
19.70	1.15217E 00	-2.04128E 01	-1.36426E 00	3.71608E-03	-1.33288E 00	2.14707E 01	-1.68665E 02			
19.80	1.15216E 00	-2.05178E 01	-1.37618E 00	3.72067E-03	-1.34454E 00	2.15756E 01	-1.68856E 02			
19.90	1.15214E 00	-2.06227E 01	-1.38814E 00	3.72521E-03	-1.35625E 00	2.16804E 01	-1.69045E 02			
20.00	1.15213E 00	-2.07277E 01	-1.40015E 00	3.72968E-03	-1.36801E 00	2.17853E 01	-1.69233E 02			
20.10	1.15212E 00	-2.08326E 01	-1.41221E 00	3.73410E-03	-1.37982E 00	2.18901E 01	-1.69420E 02			
20.20	1.15211E 00	-2.09375E 01	-1.42432E 00	3.73846E-03	-1.39167E 00	2.19950E 01	-1.69606E 02			
20.30	1.15209E 00	-2.10424E 01	-1.43648E 00	3.74275E-03	-1.40358E 00	2.20998E 01	-1.69792E 02			
20.40	1.15208E 00	-2.11473E 01	-1.44869E 00	3.74700E-03	-1.41554E 00	2.22045E 01	-1.69975E 02			
20.50	1.15207E 00	-2.12521E 01	-1.46095E 00	3.75118E-03	-1.42754E 00	2.23093E 01	-1.70159E 02			
20.60	1.15206E 00	-2.13569E 01	-1.47326E 00	3.75531E-03	-1.43960E 00	2.24141E 01	-1.70341E 02			
20.70	1.15204E 00	-2.14618E 01	-1.48561E 00	3.75940E-03	-1.45170E 00	2.25188E 01	-1.70522E 02			
20.80	1.15203E 00	-2.15666E 01	-1.49802E 00	3.76342E-03	-1.46385E 00	2.26235E 01	-1.70703E 02			
20.90	1.15202E 00	-2.16713E 01	-1.51047E 00	3.76739E-03	-1.47605E 00	2.27282E 01	-1.70882E 02			
21.00	1.15201E 00	-2.17761E 01	-1.52298E 00	3.77131E-03	-1.48830E 00	2.28329E 01	-1.71061E 02			
21.10	1.15199E 00	-2.18808E 01	-1.53553E 00	3.77517E-03	-1.50060E 00	2.29375E 01	-1.71238E 02			
21.20	1.15198E 00	-2.19856E 01	-1.54813E 00	3.77898E-03	-1.51295E 00	2.30422E 01	-1.71415E 02			
21.30	1.15197E 00	-2.20903E 01	-1.56079E 00	3.78275E-03	-1.52535E 00	2.31468E 01	-1.71591E 02			
21.40	1.15196E 00	-2.21950E 01	-1.57349E 00	3.78646E-03	-1.53780E 00	2.32514E 01	-1.71766E 02			
21.50	1.15195E 00	-2.22996E 01	-1.58624E 00	3.79013E-03	-1.55030E 00	2.33560E 01	-1.71940E 02			
21.60	1.15193E 00	-2.24043E 01	-1.59904E 00	3.79375E-03	-1.56284E 00	2.34606E 01	-1.72114E 02			
21.70	1.15192E 00	-2.25089E 01	-1.61188E 00	3.79731E-03	-1.57544E 00	2.35651E 01	-1.72287E 02			
21.80	1.15191E 00	-2.26135E 01	-1.62478E 00	3.80084E-03	-1.58808E 00	2.36696E 01	-1.72458E 02			
21.90	1.15190E 00	-2.27181E 01	-1.63773E 00	3.80431E-03	-1.60077E 00	2.37742E 01	-1.72629E 02			
22.00	1.15189E 00	-2.28227E 01	-1.65072E 00	3.80775E-03	-1.61351E 00	2.38786E 01	-1.72800E 02			
22.10	1.15188E 00	-2.29273E 01	-1.66377E 00	3.81113E-03	-1.62631E 00	2.39831E 01	-1.72969E 02			
22.20	1.15187E 00	-2.30318E 01	-1.67686E 00	3.81447E-03	-1.63915E 00	2.40876E 01	-1.73138E 02			
22.30	1.15185E 00	-2.31363E 01	-1.69000E 00	3.81775E-03	-1.65204E 00	2.41920E 01	-1.73306E 02			
22.40	1.15184E 00	-2.32408E 01	-1.70319E 00	3.82101E-03	-1.66497E 00	2.42964E 01	-1.73473E 02			
22.50	1.15183E 00	-2.33453E 01	-1.71643E 00	3.82421E-03	-1.67796E 00	2.44008E 01	-1.73640E 02			
22.60	1.15182E 00	-2.34498E 01	-1.72972E 00	3.82737E-03	-1.69100E 00	2.45052E 01	-1.73806E 02			
22.70	1.15181E 00	-2.35542E 01	-1.74306E 00	3.83050E-03	-1.70408E 00	2.46096E 01	-1.73971E 02			
22.80	1.15180E 00	-2.36587E 01	-1.75645E 00	3.83357E-03	-1.71722E 00	2.47139E 01	-1.74136E 02			
22.90	1.15179E 00	-2.37631E 01	-1.76988E 00	3.83661E-03	-1.73040E 00	2.48182E 01	-1.74300E 02			
23.00	1.15178E 00	-2.38675E 01	-1.78337E 00	3.83961E-03	-1.74363E 00	2.49225E 01	-1.74463E 02			
23.10	1.15177E 00	-2.39718E 01	-1.79690E 00	3.84256E-03	-1.75691E 00	2.50268E 01	-1.74625E 02			
23.20	1.15176E 00	-2.40762E 01	-1.81049E 00	3.84547E-03	-1.77024E 00	2.51311E 01	-1.74788E 02			
23.30	1.15174E 00	-2.41805E 01	-1.82412E 00	3.84835E-03	-1.78362E 00	2.52353E 01	-1.74949E 02			
23.40	1.15173E 00	-2.42849E 01	-1.83780E 00	3.85119E-03	-1.79705E 00	2.53396E 01	-1.75109E 02			
23.50	1.15172E 00	-2.43891E 01	-1.85153E 00	3.85398E-03	-1.81053E 00	2.54438E 01	-1.75269E 02			
23.60	1.15171E 00	-2.44934E 01	-1.86531E 00	3.85674E-03	-1.82405E 00	2.55480E 01	-1.75429E 02			
23.70	1.15170E 00	-2.45977E 01	-1.87913E 00	3.85946E-03	-1.83763E 00	2.56521E 01	-1.75588E 02			
23.80	1.15169E 00	-2.47019E 01	-1.89301E 00	3.86214E-03	-1.85125E 00	2.57563E 01	-1.75746E 02			
23.90	1.15168E 00	-2.48061E 01	-1.90693E 00	3.86479E-03	-1.86493E 00	2.58604E 01	-1.75904E 02			
24.00	1.15167E 00	-2.49103E 01	-1.92091E 00	3.86740E-03	-1.87865E 00	2.59645E 01	-1.76061E 02			

## ELECTRON RADIAL FUNCTIONS

	$Z=6$	$A=12$	$\rho=1.2A^{1/3}F$	Electron			
$p$	$\bar{F}$	$\bar{f}_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	5.30004E-04	-8.06608E-01	-3.00539E-02	3.40682E 01	-2.93308E-02	8.52363E-01	-2.81421E-02
18.20	5.35872E-04	-8.15646E-01	-3.05068E-02	3.40726E 01	-2.97733E-02	8.61652E-01	-2.81449E-02
18.30	5.41773E-04	-8.24734E-01	-3.09643E-02	3.40770E 01	-3.02201E-02	8.70992E-01	-2.81477E-02
18.40	5.47706E-04	-8.33872E-01	-3.14262E-02	3.40813E 01	-3.06713E-02	8.80381E-01	-2.81505E-02
18.50	5.53672E-04	-8.43060E-01	-3.18926E-02	3.40856E 01	-3.11269E-02	8.89820E-01	-2.81533E-02
18.60	5.59669E-04	-8.52298E-01	-3.23635E-02	3.40898E 01	-3.15870E-02	8.99310E-01	-2.81560E-02
18.70	5.65699E-04	-8.61585E-01	-3.28390E-02	3.40940E 01	-3.20515E-02	9.08849E-01	-2.81587E-02
18.80	5.71762E-04	-8.70923E-01	-3.33190E-02	3.40982E 01	-3.25206E-02	9.18438E-01	-2.81614E-02
18.90	5.77856E-04	-8.80311E-01	-3.38036E-02	3.41023E 01	-3.29941E-02	9.28077E-01	-2.81640E-02
19.00	5.83983E-04	-8.89748E-01	-3.42928E-02	3.41063E 01	-3.34722E-02	9.37765E-01	-2.81666E-02
19.10	5.90143E-04	-8.99236E-01	-3.47867E-02	3.41103E 01	-3.39549E-02	9.47504E-01	-2.81692E-02
19.20	5.96334E-04	-9.08773E-01	-3.52851E-02	3.41143E 01	-3.44421E-02	9.57293E-01	-2.81718E-02
19.30	6.02558E-04	-9.18360E-01	-3.57883E-02	3.41182E 01	-3.49339E-02	9.67131E-01	-2.81743E-02
19.40	6.08814E-04	-9.27997E-01	-3.62961E-02	3.41221E 01	-3.54303E-02	9.77019E-01	-2.81768E-02
19.50	6.15103E-04	-9.37684E-01	-3.68087E-02	3.41259E 01	-3.59314E-02	9.86957E-01	-2.81793E-02
19.60	6.21424E-04	-9.47420E-01	-3.73259E-02	3.41297E 01	-3.64371E-02	9.96944E-01	-2.81818E-02
19.70	6.27777E-04	-9.57207E-01	-3.78480E-02	3.41335E 01	-3.69475E-02	1.00698E 00	-2.81843E-02
19.80	6.34162E-04	-9.67043E-01	-3.83748E-02	3.41372E 01	-3.74626E-02	1.01707E 00	-2.81867E-02
19.90	6.40580E-04	-9.76929E-01	-3.89064E-02	3.41409E 01	-3.79824E-02	1.02721E 00	-2.81891E-02
20.00	6.47029E-04	-9.86865E-01	-3.94428E-02	3.41445E 01	-3.85070E-02	1.03739E 00	-2.81915E-02
20.10	6.53512E-04	-9.96850E-01	-3.99840E-02	3.41481E 01	-3.90363E-02	1.04763E 00	-2.81938E-02
20.20	6.60026E-04	-1.00689E 00	-4.05301E-02	3.41517E 01	-3.95704E-02	1.05792E 00	-2.81962E-02
20.30	6.66573E-04	-1.01697E 00	-4.10811E-02	3.41552E 01	-4.01093E-02	1.06825E 00	-2.81985E-02
20.40	6.73152E-04	-1.02711E 00	-4.16370E-02	3.41587E 01	-4.06531E-02	1.07864E 00	-2.82008E-02
20.50	6.79764E-04	-1.03729E 00	-4.21978E-02	3.41622E 01	-4.12017E-02	1.08907E 00	-2.82031E-02
20.60	6.86407E-04	-1.04753E 00	-4.27635E-02	3.41656E 01	-4.17551E-02	1.09956E 00	-2.82053E-02
20.70	6.93083E-04	-1.05781E 00	-4.33342E-02	3.41690E 01	-4.23135E-02	1.11009E 00	-2.82076E-02
20.80	6.99792E-04	-1.06814E 00	-4.39099E-02	3.41723E 01	-4.28768E-02	1.12068E 00	-2.82098E-02
20.90	7.06532E-04	-1.07853E 00	-4.44906E-02	3.41756E 01	-4.34450E-02	1.13131E 00	-2.82120E-02
21.00	7.13305E-04	-1.08896E 00	-4.50763E-02	3.41789E 01	-4.40181E-02	1.14200E 00	-2.82141E-02
21.10	7.20111E-04	-1.09944E 00	-4.56670E-02	3.41822E 01	-4.45963E-02	1.15273E 00	-2.82163E-02
21.20	7.26948E-04	-1.10998E 00	-4.62629E-02	3.41854E 01	-4.51794E-02	1.16351E 00	-2.82184E-02
21.30	7.33818E-04	-1.12056E 00	-4.68638E-02	3.41886E 01	-4.57675E-02	1.17435E 00	-2.82206E-02
21.40	7.40720E-04	-1.13119E 00	-4.74698E-02	3.41918E 01	-4.63607E-02	1.18523E 00	-2.82227E-02
21.50	7.47655E-04	-1.14187E 00	-4.80810E-02	3.41949E 01	-4.69590E-02	1.19616E 00	-2.82247E-02
21.60	7.54621E-04	-1.15260E 00	-4.86973E-02	3.41980E 01	-4.75623E-02	1.20715E 00	-2.82268E-02
21.70	7.61620E-04	-1.16339E 00	-4.93188E-02	3.42011E 01	-4.81707E-02	1.21818E 00	-2.82289E-02
21.80	7.68652E-04	-1.17422E 00	-4.99454E-02	3.42041E 01	-4.87842E-02	1.22926E 00	-2.82309E-02
21.90	7.75715E-04	-1.18510E 00	-5.05773E-02	3.42071E 01	-4.94029E-02	1.24039E 00	-2.82329E-02
22.00	7.82811E-04	-1.19603E 00	-5.12145E-02	3.42101E 01	-5.00268E-02	1.25157E 00	-2.82349E-02
22.10	7.89939E-04	-1.20701E 00	-5.18568E-02	3.42131E 01	-5.06558E-02	1.26280E 00	-2.82369E-02
22.20	7.97100E-04	-1.21804E 00	-5.25045E-02	3.42160E 01	-5.12901E-02	1.27408E 00	-2.82389E-02
22.30	8.04292E-04	-1.22912E 00	-5.31575E-02	3.42189E 01	-5.19296E-02	1.28541E 00	-2.82408E-02
22.40	8.11518E-04	-1.24024E 00	-5.38158E-02	3.42218E 01	-5.25743E-02	1.29679E 00	-2.82427E-02
22.50	8.18775E-04	-1.25142E 00	-5.44794E-02	3.42246E 01	-5.32243E-02	1.30822E 00	-2.82446E-02
22.60	8.26065E-04	-1.26265E 00	-5.51484E-02	3.42274E 01	-5.38796E-02	1.31969E 00	-2.82465E-02
22.70	8.33387E-04	-1.27393E 00	-5.58227E-02	3.42302E 01	-5.45401E-02	1.33122E 00	-2.82484E-02
22.80	8.40741E-04	-1.28525E 00	-5.65025E-02	3.42330E 01	-5.52061E-02	1.34280E 00	-2.82503E-02
22.90	8.48128E-04	-1.29663E 00	-5.71877E-02	3.42358E 01	-5.58774E-02	1.35443E 00	-2.82521E-02
23.00	8.55546E-04	-1.30806E 00	-5.78783E-02	3.42385E 01	-5.65540E-02	1.36610E 00	-2.82540E-02
23.10	8.62998E-04	-1.31953E 00	-5.85745E-02	3.42412E 01	-5.72361E-02	1.37783E 00	-2.82558E-02
23.20	8.70481E-04	-1.33106E 00	-5.92761E-02	3.42439E 01	-5.79235E-02	1.38960E 00	-2.82576E-02
23.30	8.77997E-04	-1.34263E 00	-5.99832E-02	3.42465E 01	-5.86165E-02	1.40143E 00	-2.82594E-02
23.40	8.85545E-04	-1.35425E 00	-6.06958E-02	3.42491E 01	-5.93148E-02	1.41330E 00	-2.82612E-02
23.50	8.93125E-04	-1.36593E 00	-6.14140E-02	3.42517E 01	-6.00187E-02	1.42522E 00	-2.82630E-02
23.60	9.00738E-04	-1.37765E 00	-6.21378E-02	3.42543E 01	-6.07280E-02	1.43720E 00	-2.82647E-02
23.70	9.08383E-04	-1.38942E 00	-6.28671E-02	3.42569E 01	-6.14429E-02	1.44922E 00	-2.82664E-02
23.80	9.16060E-04	-1.40125E 00	-6.36021E-02	3.42594E 01	-6.21633E-02	1.46129E 00	-2.82682E-02
23.90	9.23769E-04	-1.41312E 00	-6.43427E-02	3.42619E 01	-6.28893E-02	1.47341E 00	-2.82699E-02
24.00	9.31511E-04	-1.42504E 00	-6.50889E-02	3.42644E 01	-6.36208E-02	1.48558E 00	-2.82716E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$		$A=12$		$\rho=1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
24.10	1.15166E 00	-2.50145E 01	-1.93493E 00	3.86997E-03	-1.89242E 00	2.60686E 01	-1.76217E 02			
24.20	1.15165E 00	-2.51187E 01	-1.94900E 00	3.87251E-03	-1.90624E 00	2.61727E 01	-1.76374E 02			
24.30	1.15164E 00	-2.52228E 01	-1.96312E 00	3.87501E-03	-1.92010E 00	2.62767E 01	-1.76529E 02			
24.40	1.15163E 00	-2.53270E 01	-1.97729E 00	3.87748E-03	-1.93402E 00	2.63808E 01	-1.76684E 02			
24.50	1.15162E 00	-2.54311E 01	-1.99151E 00	3.87991E-03	-1.94799E 00	2.64848E 01	-1.76838E 02			
24.60	1.15161E 00	-2.55351E 01	-2.00578E 00	3.88230E-03	-1.96200E 00	2.65888E 01	-1.76992E 02			
24.70	1.15160E 00	-2.56392E 01	-2.02009E 00	3.88467E-03	-1.97606E 00	2.66927E 01	-1.77146E 02			
24.80	1.15159E 00	-2.57432E 01	-2.03446E 00	3.88700E-03	-1.99018E 00	2.67967E 01	-1.77299E 02			
24.90	1.15158E 00	-2.58473E 01	-2.04887E 00	3.88930E-03	-2.00434E 00	2.69006E 01	-1.77451E 02			
25.00	1.15157E 00	-2.59513E 01	-2.06333E 00	3.89156E-03	-2.01855E 00	2.70045E 01	-1.77603E 02			
25.10	1.15156E 00	-2.60553E 01	-2.07784E 00	3.89378E-03	-2.03280E 00	2.71084E 01	-1.77754E 02			
25.20	1.15155E 00	-2.61592E 01	-2.09240E 00	3.89599E-03	-2.04711E 00	2.72123E 01	-1.77905E 02			
25.30	1.15154E 00	-2.62632E 01	-2.10701E 00	3.89815E-03	-2.06147E 00	2.73161E 01	-1.78056E 02			
25.40	1.15153E 00	-2.63671E 01	-2.12167E 00	3.90029E-03	-2.07587E 00	2.74200E 01	-1.78206E 02			
25.50	1.15152E 00	-2.64710E 01	-2.13637E 00	3.90239E-03	-2.09032E 00	2.75238E 01	-1.78355E 02			
25.60	1.15151E 00	-2.65749E 01	-2.15112E 00	3.90446E-03	-2.10482E 00	2.76276E 01	-1.78505E 02			
25.70	1.15150E 00	-2.66787E 01	-2.16593E 00	3.90651E-03	-2.11937E 00	2.77313E 01	-1.78653E 02			
25.80	1.15149E 00	-2.67826E 01	-2.18078E 00	3.90852E-03	-2.13397E 00	2.78351E 01	-1.78802E 02			
25.90	1.15148E 00	-2.68864E 01	-2.19568E 00	3.91050E-03	-2.14862E 00	2.79388E 01	-1.78949E 02			
26.00	1.15147E 00	-2.69902E 01	-2.21062E 00	3.91245E-03	-2.16332E 00	2.80425E 01	-1.79097E 02			
26.10	1.15147E 00	-2.70940E 01	-2.22562E 00	3.91436E-03	-2.17806E 00	2.81462E 01	-1.79244E 02			
26.20	1.15146E 00	-2.71977E 01	-2.24067E 00	3.91626E-03	-2.19285E 00	2.82499E 01	-1.79391E 02			
26.30	1.15145E 00	-2.73015E 01	-2.25576E 00	3.91811E-03	-2.20770E 00	2.83535E 01	-1.79537E 02			
26.40	1.15144E 00	-2.74052E 01	-2.27090E 00	3.91995E-03	-2.22259E 00	2.84571E 01	-1.79683E 02			
26.50	1.15143E 00	-2.75089E 01	-2.28609E 00	3.92175E-03	-2.23752E 00	2.85607E 01	-1.79829E 02			
26.60	1.15142E 00	-2.76126E 01	-2.30133E 00	3.92353E-03	-2.25251E 00	2.86643E 01	-1.79974E 02			
26.70	1.15141E 00	-2.77162E 01	-2.31662E 00	3.92528E-03	-2.26755E 00	2.87679E 01	-1.80118E 02			
26.80	1.15140E 00	-2.78199E 01	-2.33196E 00	3.92700E-03	-2.28263E 00	2.88714E 01	-1.80263E 02			
26.90	1.15139E 00	-2.79235E 01	-2.34734E 00	3.92869E-03	-2.29776E 00	2.89749E 01	-1.80407E 02			
27.00	1.15138E 00	-2.80271E 01	-2.36277E 00	3.93036E-03	-2.31295E 00	2.90784E 01	-1.80551E 02			
27.10	1.15137E 00	-2.81306E 01	-2.37826E 00	3.93200E-03	-2.32818E 00	2.91819E 01	-1.80694E 02			
27.20	1.15137E 00	-2.82342E 01	-2.39379E 00	3.93361E-03	-2.34345E 00	2.92854E 01	-1.80837E 02			
27.30	1.15136E 00	-2.83377E 01	-2.40937E 00	3.93520E-03	-2.35878E 00	2.93888E 01	-1.80980E 02			
27.40	1.15135E 00	-2.84412E 01	-2.42499E 00	3.93676E-03	-2.3741E 00	2.94922E 01	-1.81122E 02			
27.50	1.15134E 00	-2.85447E 01	-2.44067E 00	3.93829E-03	-2.38958E 00	2.95956E 01	-1.81264E 02			
27.60	1.15133E 00	-2.86482E 01	-2.45639E 00	3.93980E-03	-2.40505E 00	2.96990E 01	-1.81406E 02			
27.70	1.15132E 00	-2.87516E 01	-2.47216E 00	3.94128E-03	-2.42057E 00	2.98023E 01	-1.81547E 02			
27.80	1.15131E 00	-2.88551E 01	-2.48799E 00	3.94274E-03	-2.43614E 00	2.99057E 01	-1.81688E 02			
27.90	1.15130E 00	-2.89585E 01	-2.50385E 00	3.94417E-03	-2.45176E 00	3.00090E 01	-1.81829E 02			
28.00	1.15130E 00	-2.90619E 01	-2.51977E 00	3.94558E-03	-2.46743E 00	3.01122E 01	-1.81970E 02			
28.10	1.15129E 00	-2.91652E 01	-2.53574E 00	3.94695E-03	-2.48314E 00	3.02155E 01	-1.82110E 02			
28.20	1.15128E 00	-2.92686E 01	-2.55175E 00	3.94832E-03	-2.49890E 00	3.03187E 01	-1.82250E 02			
28.30	1.15127E 00	-2.93719E 01	-2.56781E 00	3.94965E-03	-2.51471E 00	3.04220E 01	-1.82390E 02			
28.40	1.15126E 00	-2.94752E 01	-2.58392E 00	3.95095E-03	-2.53057E 00	3.05252E 01	-1.82529E 02			
28.50	1.15125E 00	-2.95785E 01	-2.60008E 00	3.95224E-03	-2.54648E 00	3.06283E 01	-1.82669E 02			
28.60	1.15125E 00	-2.96817E 01	-2.61629E 00	3.95350E-03	-2.56244E 00	3.07315E 01	-1.82807E 02			
28.70	1.15124E 00	-2.97849E 01	-2.63255E 00	3.95474E-03	-2.57844E 00	3.08346E 01	-1.82946E 02			
28.80	1.15123E 00	-2.98882E 01	-2.64885E 00	3.95595E-03	-2.59449E 00	3.09377E 01	-1.83084E 02			
28.90	1.15122E 00	-2.99913E 01	-2.66520E 00	3.95715E-03	-2.61059E 00	3.10408E 01	-1.83223E 02			
29.00	1.15121E 00	-3.00945E 01	-2.68160E 00	3.95832E-03	-2.62674E 00	3.11439E 01	-1.83360E 02			
29.10	1.15120E 00	-3.01977E 01	-2.69805E 00	3.95946E-03	-2.64294E 00	3.12469E 01	-1.83498E 02			
29.20	1.15120E 00	-3.03008E 01	-2.71455E 00	3.96058E-03	-2.65918E 00	3.13500E 01	-1.83636E 02			
29.30	1.15119E 00	-3.04039E 01	-2.73109E 00	3.96168E-03	-2.67548E 00	3.14530E 01	-1.83773E 02			
29.40	1.15118E 00	-3.05070E 01	-2.74768E 00	3.96276E-03	-2.69182E 00	3.15559E 01	-1.83910E 02			
29.50	1.15117E 00	-3.06100E 01	-2.76433E 00	3.96382E-03	-2.70821E 00	3.16589E 01	-1.84047E 02			
29.60	1.15116E 00	-3.07131E 01	-2.78101E 00	3.96486E-03	-2.72465E 00	3.17618E 01	-1.84183E 02			
29.70	1.15116E 00	-3.08161E 01	-2.79775E 00	3.96587E-03	-2.74113E 00	3.18647E 01	-1.84320E 02			
29.80	1.15115E 00	-3.09191E 01	-2.81454E 00	3.96686E-03	-2.75767E 00	3.19676E 01	-1.84456E 02			
29.90	1.15114E 00	-3.10220E 01	-2.83137E 00	3.96783E-03	-2.77425E 00	3.20705E 01	-1.84592E 02			
30.00	1.15113E 00	-3.11250E 01	-2.84825E 00	3.96879E-03	-2.79088E 00	3.21733E 01	-1.84727E 02			

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	Electron	
								$Z=6$	$A=12$
24.10	9.39286E-04	-1.43701E 00	-6.58409E-02	3.42669E 01	-6.43580E-02	1.49780E 00	-2.82733E-02		
24.20	9.47092E-04	-1.44903E 00	-6.65985E-02	3.42693E 01	-6.51008E-02	1.51007E 00	-2.82749E-02		
24.30	9.54931E-04	-1.46110E 00	-6.73619E-02	3.42718E 01	-6.58492E-02	1.52239E 00	-2.82766E-02		
24.40	9.62802E-04	-1.47322E 00	-6.81310E-02	3.42742E 01	-6.66033E-02	1.53476E 00	-2.82782E-02		
24.50	9.70705E-04	-1.48538E 00	-6.89058E-02	3.42766E 01	-6.73631E-02	1.54718E 00	-2.82799E-02		
24.60	9.78641E-04	-1.49760E 00	-6.96865E-02	3.42789E 01	-6.81286E-02	1.55964E 00	-2.82815E-02		
24.70	9.86609E-04	-1.50987E 00	-7.04729E-02	3.42813E 01	-6.88999E-02	1.57216E 00	-2.82831E-02		
24.80	9.94609E-04	-1.52218E 00	-7.12651E-02	3.42836E 01	-6.96768E-02	1.58473E 00	-2.82847E-02		
24.90	1.00264E-03	-1.53455E 00	-7.20632E-02	3.42859E 01	-7.04596E-02	1.59734E 00	-2.82863E-02		
25.00	1.01071E-03	-1.54696E 00	-7.28672E-02	3.42882E 01	-7.12482E-02	1.61001E 00	-2.82878E-02		
25.10	1.01880E-03	-1.55943E 00	-7.36770E-02	3.42905E 01	-7.20425E-02	1.62272E 00	-2.82894E-02		
25.20	1.02693E-03	-1.57194E 00	-7.44928E-02	3.42927E 01	-7.28427E-02	1.63548E 00	-2.82910E-02		
25.30	1.03509E-03	-1.58450E 00	-7.53145E-02	3.42950E 01	-7.36488E-02	1.64829E 00	-2.82925E-02		
25.40	1.04329E-03	-1.59712E 00	-7.61421E-02	3.42972E 01	-7.44607E-02	1.66116E 00	-2.82940E-02		
25.50	1.05151E-03	-1.60978E 00	-7.69757E-02	3.42994E 01	-7.52785E-02	1.67407E 00	-2.82955E-02		
25.60	1.05977E-03	-1.62249E 00	-7.78153E-02	3.43016E 01	-7.61023E-02	1.68703E 00	-2.82970E-02		
25.70	1.06806E-03	-1.63525E 00	-7.86609E-02	3.43037E 01	-7.69320E-02	1.70004E 00	-2.82985E-02		
25.80	1.07639E-03	-1.64806E 00	-7.95125E-02	3.43059E 01	-7.77676E-02	1.71309E 00	-2.83000E-02		
25.90	1.08474E-03	-1.66092E 00	-8.03702E-02	3.43080E 01	-7.86092E-02	1.72620E 00	-2.83015E-02		
26.00	1.09313E-03	-1.67382E 00	-8.12339E-02	3.43101E 01	-7.94569E-02	1.73936E 00	-2.83029E-02		
26.10	1.10155E-03	-1.68678E 00	-8.21038E-02	3.43122E 01	-8.03105E-02	1.75257E 00	-2.83044E-02		
26.20	1.11000E-03	-1.69979E 00	-8.29797E-02	3.43143E 01	-8.11702E-02	1.76582E 00	-2.83058E-02		
26.30	1.11849E-03	-1.71284E 00	-8.38619E-02	3.43163E 01	-8.20360E-02	1.77912E 00	-2.83073E-02		
26.40	1.12700E-03	-1.72595E 00	-8.47501E-02	3.43184E 01	-8.29078E-02	1.79248E 00	-2.83087E-02		
26.50	1.13555E-03	-1.73910E 00	-8.56445E-02	3.43204E 01	-8.37858E-02	1.80588E 00	-2.83101E-02		
26.60	1.14413E-03	-1.75230E 00	-8.65452E-02	3.43224E 01	-8.46699E-02	1.81933E 00	-2.83115E-02		
26.70	1.15275E-03	-1.76556E 00	-8.74520E-02	3.43244E 01	-8.55601E-02	1.83283E 00	-2.83129E-02		
26.80	1.16139E-03	-1.77886E 00	-8.83651E-02	3.43264E 01	-8.64565E-02	1.84639E 00	-2.83143E-02		
26.90	1.17007E-03	-1.79221E 00	-8.92845E-02	3.43284E 01	-8.73591E-02	1.85998E 00	-2.83156E-02		
27.00	1.17878E-03	-1.80561E 00	-9.02101E-02	3.43303E 01	-8.82679E-02	1.87363E 00	-2.83170E-02		
27.10	1.18753E-03	-1.81906E 00	-9.11420E-02	3.43323E 01	-8.91829E-02	1.88733E 00	-2.83183E-02		
27.20	1.19630E-03	-1.83255E 00	-9.20803E-02	3.43342E 01	-9.01042E-02	1.90108E 00	-2.83197E-02		
27.30	1.20511E-03	-1.84610E 00	-9.30248E-02	3.43361E 01	-9.10317E-02	1.91487E 00	-2.83210E-02		
27.40	1.21395E-03	-1.85970E 00	-9.39758E-02	3.43380E 01	-9.19655E-02	1.92872E 00	-2.83223E-02		
27.50	1.22282E-03	-1.87334E 00	-9.49331E-02	3.43399E 01	-9.29057E-02	1.94261E 00	-2.83236E-02		
27.60	1.23172E-03	-1.88704E 00	-9.58969E-02	3.43417E 01	-9.38522E-02	1.95656E 00	-2.83250E-02		
27.70	1.24066E-03	-1.90078E 00	-9.68671E-02	3.43436E 01	-9.48050E-02	1.97055E 00	-2.83262E-02		
27.80	1.24963E-03	-1.91457E 00	-9.78437E-02	3.43454E 01	-9.57642E-02	1.98459E 00	-2.83275E-02		
27.90	1.25863E-03	-1.92841E 00	-9.88268E-02	3.43472E 01	-9.67299E-02	1.99868E 00	-2.83288E-02		
28.00	1.26766E-03	-1.94230E 00	-9.98164E-02	3.43491E 01	-9.77019E-02	2.01282E 00	-2.83301E-02		
28.10	1.27673E-03	-1.95624E 00	-1.00812E-01	3.43509E 01	-9.86804E-02	2.02701E 00	-2.83313E-02		
28.20	1.28583E-03	-1.97023E 00	-1.01815E-01	3.43526E 01	-9.96653E-02	2.04124E 00	-2.83326E-02		
28.30	1.29496E-03	-1.98427E 00	-1.02824E-01	3.43544E 01	-1.00657E-01	2.05553E 00	-2.83338E-02		
28.40	1.30412E-03	-1.99836E 00	-1.03840E-01	3.43562E 01	-1.01655E-01	2.06986E 00	-2.83351E-02		
28.50	1.31332E-03	-2.01249E 00	-1.04862E-01	3.43579E 01	-1.02659E-01	2.08425E 00	-2.83363E-02		
28.60	1.32254E-03	-2.02668E 00	-1.05891E-01	3.43596E 01	-1.03670E-01	2.09868E 00	-2.83375E-02		
28.70	1.33180E-03	-2.04091E 00	-1.06927E-01	3.43614E 01	-1.04688E-01	2.11316E 00	-2.83387E-02		
28.80	1.34109E-03	-2.05519E 00	-1.07969E-01	3.43631E 01	-1.05712E-01	2.12769E 00	-2.83399E-02		
28.90	1.35042E-03	-2.06952E 00	-1.09018E-01	3.43648E 01	-1.06742E-01	2.14227E 00	-2.83411E-02		
29.00	1.35977E-03	-2.08390E 00	-1.10073E-01	3.43665E 01	-1.07780E-01	2.15690E 00	-2.83423E-02		
29.10	1.36916E-03	-2.09833E 00	-1.11136E-01	3.43681E 01	-1.08824E-01	2.17158E 00	-2.83435E-02		
29.20	1.37858E-03	-2.11281E 00	-1.12205E-01	3.43698E 01	-1.09874E-01	2.18631E 00	-2.83447E-02		
29.30	1.38804E-03	-2.12734E 00	-1.13281E-01	3.43714E 01	-1.10932E-01	2.20108E 00	-2.83459E-02		
29.40	1.39752E-03	-2.14191E 00	-1.14363E-01	3.43731E 01	-1.11996E-01	2.21590E 00	-2.83470E-02		
29.50	1.40704E-03	-2.15654E 00	-1.15453E-01	3.43747E 01	-1.13067E-01	2.23078E 00	-2.83482E-02		
29.60	1.41659E-03	-2.17121E 00	-1.16549E-01	3.43763E 01	-1.14144E-01	2.24570E 00	-2.83493E-02		
29.70	1.42617E-03	-2.18594E 00	-1.17652E-01	3.43779E 01	-1.15228E-01	2.26067E 00	-2.83504E-02		
29.80	1.43579E-03	-2.20071E 00	-1.18762E-01	3.43795E 01	-1.16319E-01	2.27569E 00	-2.83516E-02		
29.90	1.44543E-03	-2.21553E 00	-1.19879E-01	3.43811E 01	-1.17417E-01	2.29076E 00	-2.83527E-02		
30.00	1.45511E-03	-2.23040E 00	-1.21002E-01	3.43827E 01	-1.18522E-01	2.30587E 00	-2.83538E-02		



ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$		$A=12$		$\rho=1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
30.10	1.15112E 00	-3.12279E 01	-2.86518E 00	3.96970E-03	-2.80756E 00	3.22762E 01	-1.84863E 02			
30.20	1.15112E 00	-3.13308E 01	-2.88216E 00	3.97062E-03	-2.82429E 00	3.23790E 01	-1.84998E 02			
30.30	1.15111E 00	-3.14337E 01	-2.89919E 00	3.97150E-03	-2.84106E 00	3.24817E 01	-1.85134E 02			
30.40	1.15110E 00	-3.15365E 01	-2.91626E 00	3.97237E-03	-2.85788E 00	3.25845E 01	-1.85268E 02			
30.50	1.15109E 00	-3.16394E 01	-2.93338E 00	3.97321E-03	-2.87475E 00	3.26872E 01	-1.85404E 02			
30.60	1.15108E 00	-3.17422E 01	-2.95055E 00	3.97404E-03	-2.89167E 00	3.27899E 01	-1.85538E 02			
30.70	1.15108E 00	-3.18450E 01	-2.96777E 00	3.97485E-03	-2.90864E 00	3.28926E 01	-1.85673E 02			
30.80	1.15107E 00	-3.19477E 01	-2.98504E 00	3.97563E-03	-2.92565E 00	3.29953E 01	-1.85807E 02			
30.90	1.15106E 00	-3.20505E 01	-3.00235E 00	3.97639E-03	-2.94272E 00	3.30979E 01	-1.85941E 02			
31.00	1.15105E 00	-3.21532E 01	-3.01971E 00	3.97714E-03	-2.95983E 00	3.32005E 01	-1.86075E 02			
31.10	1.15105E 00	-3.22559E 01	-3.03712E 00	3.97787E-03	-2.97699E 00	3.33031E 01	-1.86209E 02			
31.20	1.15104E 00	-3.23586E 01	-3.05458E 00	3.97858E-03	-2.99419E 00	3.34057E 01	-1.86343E 02			
31.30	1.15103E 00	-3.24612E 01	-3.07208E 00	3.97926E-03	-3.01145E 00	3.35082E 01	-1.86477E 02			
31.40	1.15102E 00	-3.25638E 01	-3.08964E 00	3.97994E-03	-3.02875E 00	3.36107E 01	-1.86610E 02			
31.50	1.15102E 00	-3.26664E 01	-3.10724E 00	3.98058E-03	-3.04610E 00	3.37132E 01	-1.86743E 02			
31.60	1.15101E 00	-3.27690E 01	-3.12489E 00	3.98121E-03	-3.06350E 00	3.38157E 01	-1.86877E 02			
31.70	1.15100E 00	-3.28716E 01	-3.14258E 00	3.98182E-03	-3.08095E 00	3.39182E 01	-1.87010E 02			
31.80	1.15099E 00	-3.29741E 01	-3.16033E 00	3.98243E-03	-3.09844E 00	3.40206E 01	-1.87142E 02			
31.90	1.15099E 00	-3.30766E 01	-3.17812E 00	3.98300E-03	-3.11598E 00	3.41230E 01	-1.87275E 02			
32.00	1.15098E 00	-3.31791E 01	-3.19596E 00	3.98355E-03	-3.13357E 00	3.42254E 01	-1.87408E 02			
32.10	1.15097E 00	-3.32816E 01	-3.21385E 00	3.98410E-03	-3.15121E 00	3.43278E 01	-1.87541E 02			
32.20	1.15096E 00	-3.33840E 01	-3.23179E 00	3.98462E-03	-3.16890E 00	3.44301E 01	-1.87673E 02			
32.30	1.15096E 00	-3.34864E 01	-3.24977E 00	3.98512E-03	-3.18663E 00	3.45324E 01	-1.87806E 02			
32.40	1.15095E 00	-3.35888E 01	-3.26780E 00	3.98561E-03	-3.20441E 00	3.46347E 01	-1.87938E 02			
32.50	1.15094E 00	-3.36912E 01	-3.28588E 00	3.98608E-03	-3.22224E 00	3.47369E 01	-1.88070E 02			
32.60	1.15093E 00	-3.37935E 01	-3.30401E 00	3.98652E-03	-3.24012E 00	3.48392E 01	-1.88202E 02			
32.70	1.15093E 00	-3.38959E 01	-3.32218E 00	3.98696E-03	-3.25804E 00	3.49414E 01	-1.88334E 02			
32.80	1.15092E 00	-3.39982E 01	-3.34041E 00	3.98737E-03	-3.27601E 00	3.50436E 01	-1.88466E 02			
32.90	1.15091E 00	-3.41005E 01	-3.35868E 00	3.98777E-03	-3.29403E 00	3.51458E 01	-1.88598E 02			
33.00	1.15091E 00	-3.42027E 01	-3.37699E 00	3.98815E-03	-3.31210E 00	3.52479E 01	-1.88729E 02			
33.10	1.15090E 00	-3.43049E 01	-3.39536E 00	3.98852E-03	-3.33021E 00	3.53500E 01	-1.88861E 02			
33.20	1.15089E 00	-3.44071E 01	-3.41377E 00	3.98886E-03	-3.34838E 00	3.54521E 01	-1.88993E 02			
33.30	1.15089E 00	-3.45093E 01	-3.43223E 00	3.98919E-03	-3.36659E 00	3.55542E 01	-1.89124E 02			
33.40	1.15088E 00	-3.46115E 01	-3.45074E 00	3.98951E-03	-3.38485E 00	3.56562E 01	-1.89256E 02			
33.50	1.15087E 00	-3.47136E 01	-3.46930E 00	3.98980E-03	-3.40315E 00	3.57583E 01	-1.89387E 02			
33.60	1.15086E 00	-3.48157E 01	-3.48790E 00	3.99009E-03	-3.42151E 00	3.58603E 01	-1.89518E 02			
33.70	1.15086E 00	-3.49178E 01	-3.50655E 00	3.99035E-03	-3.43991E 00	3.59622E 01	-1.89650E 02			
33.80	1.15085E 00	-3.50199E 01	-3.52525E 00	3.99060E-03	-3.45836E 00	3.60642E 01	-1.89781E 02			
33.90	1.15084E 00	-3.51219E 01	-3.54400E 00	3.99083E-03	-3.47685E 00	3.61661E 01	-1.89912E 02			
34.00	1.15084E 00	-3.52239E 01	-3.56279E 00	3.99105E-03	-3.49540E 00	3.62680E 01	-1.90043E 02			
34.10	1.15083E 00	-3.53259E 01	-3.58163E 00	3.99125E-03	-3.51399E 00	3.63699E 01	-1.90174E 02			
34.20	1.15082E 00	-3.54279E 01	-3.60052E 00	3.99144E-03	-3.53263E 00	3.64717E 01	-1.90305E 02			
34.30	1.15082E 00	-3.55298E 01	-3.61946E 00	3.99160E-03	-3.55131E 00	3.65736E 01	-1.90436E 02			
34.40	1.15081E 00	-3.56317E 01	-3.63844E 00	3.99176E-03	-3.57005E 00	3.66754E 01	-1.90567E 02			
34.50	1.15080E 00	-3.57336E 01	-3.65747E 00	3.99189E-03	-3.58883E 00	3.67772E 01	-1.90698E 02			
34.60	1.15080E 00	-3.58355E 01	-3.67655E 00	3.99202E-03	-3.60766E 00	3.68789E 01	-1.90828E 02			
34.70	1.15079E 00	-3.59373E 01	-3.69568E 00	3.99212E-03	-3.62653E 00	3.69806E 01	-1.90959E 02			
34.80	1.15078E 00	-3.60391E 01	-3.71485E 00	3.99221E-03	-3.64546E 00	3.70823E 01	-1.91090E 02			
34.90	1.15078E 00	-3.61409E 01	-3.73407E 00	3.99229E-03	-3.66443E 00	3.71840E 01	-1.91221E 02			
35.00	1.15077E 00	-3.62427E 01	-3.75334E 00	3.99235E-03	-3.68345E 00	3.72857E 01	-1.91351E 02			
35.10	1.15076E 00	-3.63444E 01	-3.77266E 00	3.99240E-03	-3.70251E 00	3.73873E 01	-1.91482E 02			
35.20	1.15076E 00	-3.64461E 01	-3.79202E 00	3.99243E-03	-3.72163E 00	3.74889E 01	-1.91613E 02			
35.30	1.15075E 00	-3.65478E 01	-3.81143E 00	3.99245E-03	-3.74079E 00	3.75905E 01	-1.91743E 02			
35.40	1.15074E 00	-3.66495E 01	-3.83089E 00	3.99245E-03	-3.75999E 00	3.76920E 01	-1.91874E 02			
35.50	1.15074E 00	-3.67511E 01	-3.85039E 00	3.99243E-03	-3.77925E 00	3.77936E 01	-1.92005E 02			
35.60	1.15073E 00	-3.68527E 01	-3.86995E 00	3.99241E-03	-3.79855E 00	3.78951E 01	-1.92135E 02			
35.70	1.15072E 00	-3.69543E 01	-3.88954E 00	3.99237E-03	-3.81790E 00	3.79965E 01	-1.92266E 02			
35.80	1.15072E 00	-3.70559E 01	-3.90919E 00	3.99231E-03	-3.83730E 00	3.80980E 01	-1.92397E 02			
35.90	1.15071E 00	-3.71574E 01	-3.92889E 00	3.99224E-03	-3.85675E 00	3.81994E 01	-1.92527E 02			
36.00	1.15070E 00	-3.72589E 01	-3.94863E 00	3.99216E-03	-3.87624E 00	3.83008E 01	-1.92658E 02			

## ELECTRON RADIAL FUNCTIONS

$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
30.10	1.46483E-03	-2.24531E 00	-1.22133E-01	3.43842E 01	-1.19634E-01	2.32104E 00	-2.83549E-02
30.20	1.47457E-03	-2.26028E 00	-1.23270E-01	3.43858E 01	-1.20752E-01	2.33626E 00	-2.83560E-02
30.30	1.48435E-03	-2.27530E 00	-1.24415E-01	3.43873E 01	-1.21877E-01	2.35152E 00	-2.83571E-02
30.40	1.49415E-03	-2.29036E 00	-1.25566E-01	3.43888E 01	-1.23010E-01	2.36683E 00	-2.83582E-02
30.50	1.50400E-03	-2.30547E 00	-1.26725E-01	3.43903E 01	-1.24149E-01	2.38219E 00	-2.83593E-02
30.60	1.51387E-03	-2.32064E 00	-1.27890E-01	3.43919E 01	-1.25295E-01	2.39760E 00	-2.83604E-02
30.70	1.52377E-03	-2.33585E 00	-1.29063E-01	3.43934E 01	-1.26448E-01	2.41306E 00	-2.83614E-02
30.80	1.53371E-03	-2.35110E 00	-1.30243E-01	3.43948E 01	-1.27608E-01	2.42857E 00	-2.83625E-02
30.90	1.54368E-03	-2.36641E 00	-1.31429E-01	3.43963E 01	-1.28775E-01	2.44412E 00	-2.83635E-02
31.00	1.55368E-03	-2.38177E 00	-1.32623E-01	3.43978E 01	-1.29950E-01	2.45973E 00	-2.83646E-02
31.10	1.56372E-03	-2.39717E 00	-1.33824E-01	3.43992E 01	-1.31131E-01	2.47538E 00	-2.83656E-02
31.20	1.57378E-03	-2.41263E 00	-1.35032E-01	3.44007E 01	-1.32319E-01	2.49108E 00	-2.83667E-02
31.30	1.58388E-03	-2.42813E 00	-1.36247E-01	3.44021E 01	-1.33514E-01	2.50683E 00	-2.83677E-02
31.40	1.59401E-03	-2.44368E 00	-1.37470E-01	3.44036E 01	-1.34717E-01	2.52263E 00	-2.83687E-02
31.50	1.60418E-03	-2.45928E 00	-1.38700E-01	3.44050E 01	-1.35927E-01	2.53848E 00	-2.83697E-02
31.60	1.61437E-03	-2.47493E 00	-1.39937E-01	3.44064E 01	-1.37143E-01	2.55437E 00	-2.83707E-02
31.70	1.62460E-03	-2.49063E 00	-1.41181E-01	3.44078E 01	-1.38367E-01	2.57032E 00	-2.83717E-02
31.80	1.63486E-03	-2.50637E 00	-1.42432E-01	3.44092E 01	-1.39599E-01	2.58631E 00	-2.83727E-02
31.90	1.64515E-03	-2.52217E 00	-1.43691E-01	3.44106E 01	-1.40837E-01	2.60235E 00	-2.83737E-02
32.00	1.65548E-03	-2.53801E 00	-1.44957E-01	3.44119E 01	-1.42083E-01	2.61844E 00	-2.83747E-02
32.10	1.66584E-03	-2.55390E 00	-1.46230E-01	3.44133E 01	-1.43336E-01	2.63458E 00	-2.83757E-02
32.20	1.67623E-03	-2.56984E 00	-1.47511E-01	3.44146E 01	-1.44596E-01	2.65077E 00	-2.83767E-02
32.30	1.68665E-03	-2.58583E 00	-1.48799E-01	3.44160E 01	-1.45863E-01	2.66700E 00	-2.83777E-02
32.40	1.69710E-03	-2.60187E 00	-1.50094E-01	3.44173E 01	-1.47138E-01	2.68329E 00	-2.83786E-02
32.50	1.70759E-03	-2.61796E 00	-1.51397E-01	3.44187E 01	-1.48420E-01	2.69962E 00	-2.83796E-02
32.60	1.71811E-03	-2.63409E 00	-1.52708E-01	3.44200E 01	-1.49710E-01	2.71600E 00	-2.83805E-02
32.70	1.72866E-03	-2.65027E 00	-1.54025E-01	3.44213E 01	-1.51007E-01	2.73243E 00	-2.83815E-02
32.80	1.73924E-03	-2.66650E 00	-1.55351E-01	3.44226E 01	-1.52311E-01	2.74891E 00	-2.83824E-02
32.90	1.74986E-03	-2.68278E 00	-1.56683E-01	3.44239E 01	-1.53623E-01	2.76544E 00	-2.83834E-02
33.00	1.76050E-03	-2.69911E 00	-1.58024E-01	3.44252E 01	-1.54942E-01	2.78201E 00	-2.83843E-02
33.10	1.77118E-03	-2.71549E 00	-1.59371E-01	3.44265E 01	-1.56269E-01	2.79864E 00	-2.83852E-02
33.20	1.78190E-03	-2.73191E 00	-1.60727E-01	3.44277E 01	-1.57603E-01	2.81531E 00	-2.83861E-02
33.30	1.79264E-03	-2.74839E 00	-1.62090E-01	3.44290E 01	-1.58944E-01	2.83203E 00	-2.83870E-02
33.40	1.80342E-03	-2.76491E 00	-1.63460E-01	3.44303E 01	-1.60294E-01	2.84880E 00	-2.83879E-02
33.50	1.81423E-03	-2.78148E 00	-1.64838E-01	3.44315E 01	-1.61650E-01	2.86562E 00	-2.83889E-02
33.60	1.82507E-03	-2.79810E 00	-1.66224E-01	3.44327E 01	-1.63015E-01	2.88248E 00	-2.83898E-02
33.70	1.83594E-03	-2.81477E 00	-1.67618E-01	3.44340E 01	-1.64386E-01	2.89939E 00	-2.83906E-02
33.80	1.84685E-03	-2.83148E 00	-1.69019E-01	3.44352E 01	-1.65766E-01	2.91636E 00	-2.83915E-02
33.90	1.85779E-03	-2.84825E 00	-1.70428E-01	3.44364E 01	-1.67153E-01	2.93337E 00	-2.83924E-02
34.00	1.86876E-03	-2.86506E 00	-1.71844E-01	3.44376E 01	-1.68548E-01	2.95043E 00	-2.83933E-02
34.10	1.87976E-03	-2.88192E 00	-1.73268E-01	3.44388E 01	-1.69950E-01	2.96753E 00	-2.83942E-02
34.20	1.89080E-03	-2.89883E 00	-1.74701E-01	3.44400E 01	-1.71360E-01	2.98469E 00	-2.83951E-02
34.30	1.90186E-03	-2.91578E 00	-1.76140E-01	3.44412E 01	-1.72778E-01	3.00189E 00	-2.83959E-02
34.40	1.91296E-03	-2.93279E 00	-1.77588E-01	3.44424E 01	-1.74204E-01	3.01914E 00	-2.83968E-02
34.50	1.92410E-03	-2.94984E 00	-1.79043E-01	3.44436E 01	-1.75637E-01	3.03644E 00	-2.83976E-02
34.60	1.93526E-03	-2.96695E 00	-1.80507E-01	3.44447E 01	-1.77078E-01	3.05379E 00	-2.83985E-02
34.70	1.94646E-03	-2.98410E 00	-1.81978E-01	3.44459E 01	-1.78527E-01	3.07119E 00	-2.83993E-02
34.80	1.95769E-03	-3.00129E 00	-1.83457E-01	3.44471E 01	-1.79984E-01	3.08863E 00	-2.84002E-02
34.90	1.96895E-03	-3.01854E 00	-1.84944E-01	3.44482E 01	-1.81448E-01	3.10613E 00	-2.84010E-02
35.00	1.98024E-03	-3.03584E 00	-1.86439E-01	3.44493E 01	-1.82921E-01	3.12367E 00	-2.84018E-02
35.10	1.99157E-03	-3.05318E 00	-1.87942E-01	3.44505E 01	-1.84401E-01	3.14126E 00	-2.84027E-02
35.20	2.00292E-03	-3.07057E 00	-1.89452E-01	3.44516E 01	-1.85889E-01	3.15890E 00	-2.84035E-02
35.30	2.01431E-03	-3.08801E 00	-1.90971E-01	3.44527E 01	-1.87385E-01	3.17658E 00	-2.84043E-02
35.40	2.02574E-03	-3.10550E 00	-1.92498E-01	3.44538E 01	-1.88889E-01	3.19431E 00	-2.84051E-02
35.50	2.03719E-03	-3.12303E 00	-1.94033E-01	3.44550E 01	-1.90401E-01	3.21210E 00	-2.84059E-02
35.60	2.04868E-03	-3.14062E 00	-1.95576E-01	3.44561E 01	-1.91921E-01	3.22993E 00	-2.84068E-02
35.70	2.06020E-03	-3.15825E 00	-1.97126E-01	3.44571E 01	-1.93449E-01	3.24780E 00	-2.84076E-02
35.80	2.07175E-03	-3.17593E 00	-1.98685E-01	3.44582E 01	-1.94985E-01	3.26573E 00	-2.84084E-02
35.90	2.08333E-03	-3.19366E 00	-2.00252E-01	3.44593E 01	-1.96529E-01	3.28371E 00	-2.84091E-02
36.00	2.09495E-03	-3.21144E 00	-2.01828E-01	3.44604E 01	-1.98081E-01	3.30173E 00	-2.84099E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$		$A=12$		$\rho=1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
36.10	1.15070E 00	-3.73604E 01	-3.96842E 00	3.99206E-03	-3.89578E 00	3.84022E 01	-1.92788E 02			
36.20	1.15069E 00	-3.74619E 01	-3.98825E 00	3.99194E-03	-3.91536E 00	3.85036E 01	-1.92919E 02			
36.30	1.15068E 00	-3.75633E 01	-4.00814E 00	3.99182E-03	-3.93500E 00	3.86049E 01	-1.93050E 02			
36.40	1.15068E 00	-3.76647E 01	-4.02807E 00	3.99167E-03	-3.95468E 00	3.87062E 01	-1.93180E 02			
36.50	1.15067E 00	-3.77661E 01	-4.04804E 00	3.99152E-03	-3.97441E 00	3.88075E 01	-1.93311E 02			
36.60	1.15066E 00	-3.78675E 01	-4.06807E 00	3.99134E-03	-3.99418E 00	3.89087E 01	-1.93442E 02			
36.70	1.15066E 00	-3.79688E 01	-4.08814E 00	3.99117E-03	-4.01400E 00	3.90099E 01	-1.93573E 02			
36.80	1.15065E 00	-3.80701E 01	-4.10826E 00	3.99097E-03	-4.03387E 00	3.91111E 01	-1.93703E 02			
36.90	1.15065E 00	-3.81714E 01	-4.12842E 00	3.99076E-03	-4.05379E 00	3.92123E 01	-1.93834E 02			
37.00	1.15064E 00	-3.82727E 01	-4.14864E 00	3.99054E-03	-4.07375E 00	3.93134E 01	-1.93965E 02			
37.10	1.15063E 00	-3.83739E 01	-4.16890E 00	3.99030E-03	-4.09377E 00	3.94146E 01	-1.94096E 02			
37.20	1.15063E 00	-3.84751E 01	-4.18920E 00	3.99004E-03	-4.11382E 00	3.95156E 01	-1.94227E 02			
37.30	1.15062E 00	-3.85763E 01	-4.20956E 00	3.98978E-03	-4.13393E 00	3.96167E 01	-1.94358E 02			
37.40	1.15061E 00	-3.86775E 01	-4.22996E 00	3.98950E-03	-4.15408E 00	3.97177E 01	-1.94489E 02			
37.50	1.15061E 00	-3.87786E 01	-4.25041E 00	3.98921E-03	-4.17428E 00	3.98188E 01	-1.94620E 02			
37.60	1.15060E 00	-3.88797E 01	-4.27090E 00	3.98891E-03	-4.19453E 00	3.99197E 01	-1.94751E 02			
37.70	1.15060E 00	-3.89808E 01	-4.29144E 00	3.98860E-03	-4.21482E 00	4.00207E 01	-1.94882E 02			
37.80	1.15059E 00	-3.90818E 01	-4.31203E 00	3.98827E-03	-4.23516E 00	4.01216E 01	-1.95013E 02			
37.90	1.15058E 00	-3.91828E 01	-4.33267E 00	3.98793E-03	-4.25555E 00	4.02226E 01	-1.95144E 02			
38.00	1.15058E 00	-3.92838E 01	-4.35335E 00	3.98757E-03	-4.27598E 00	4.03234E 01	-1.95276E 02			
38.10	1.15057E 00	-3.93848E 01	-4.37408E 00	3.98720E-03	-4.29646E 00	4.04243E 01	-1.95407E 02			
38.20	1.15057E 00	-3.94858E 01	-4.39486E 00	3.98683E-03	-4.31699E 00	4.05251E 01	-1.95538E 02			
38.30	1.15056E 00	-3.95867E 01	-4.41568E 00	3.98643E-03	-4.33757E 00	4.06259E 01	-1.95669E 02			
38.40	1.15055E 00	-3.96876E 01	-4.43655E 00	3.98602E-03	-4.35819E 00	4.07267E 01	-1.95801E 02			
38.50	1.15055E 00	-3.97884E 01	-4.45747E 00	3.98561E-03	-4.37886E 00	4.08274E 01	-1.95932E 02			
38.60	1.15054E 00	-3.98893E 01	-4.47844E 00	3.98518E-03	-4.39957E 00	4.09282E 01	-1.96064E 02			
38.70	1.15054E 00	-3.99901E 01	-4.49945E 00	3.98473E-03	-4.42033E 00	4.10289E 01	-1.96196E 02			
38.80	1.15053E 00	-4.00909E 01	-4.52050E 00	3.98428E-03	-4.44114E 00	4.11295E 01	-1.96327E 02			
38.90	1.15052E 00	-4.01916E 01	-4.54161E 00	3.98381E-03	-4.46200E 00	4.12302E 01	-1.96459E 02			
39.00	1.15052E 00	-4.02924E 01	-4.56276E 00	3.98333E-03	-4.48290E 00	4.13308E 01	-1.96591E 02			
39.10	1.15051E 00	-4.03931E 01	-4.58396E 00	3.98284E-03	-4.50385E 00	4.14314E 01	-1.96723E 02			
39.20	1.15051E 00	-4.04937E 01	-4.60520E 00	3.98234E-03	-4.52485E 00	4.15319E 01	-1.96855E 02			
39.30	1.15050E 00	-4.05944E 01	-4.62650E 00	3.98182E-03	-4.54589E 00	4.16325E 01	-1.96987E 02			
39.40	1.15049E 00	-4.06950E 01	-4.64783E 00	3.98129E-03	-4.56698E 00	4.17330E 01	-1.97119E 02			
39.50	1.15049E 00	-4.07956E 01	-4.66922E 00	3.98075E-03	-4.58812E 00	4.18334E 01	-1.97252E 02			
39.60	1.15048E 00	-4.08962E 01	-4.69065E 00	3.98020E-03	-4.60930E 00	4.19339E 01	-1.97384E 02			
39.70	1.15048E 00	-4.09967E 01	-4.71213E 00	3.97963E-03	-4.63053E 00	4.20343E 01	-1.97517E 02			
39.80	1.15047E 00	-4.10973E 01	-4.73365E 00	3.97906E-03	-4.65181E 00	4.21347E 01	-1.97649E 02			
39.90	1.15047E 00	-4.11977E 01	-4.75523E 00	3.97848E-03	-4.67313E 00	4.22351E 01	-1.97782E 02			
40.00	1.15046E 00	-4.12982E 01	-4.77684E 00	3.97788E-03	-4.69450E 00	4.23354E 01	-1.97914E 02			
40.10	1.15045E 00	-4.13986E 01	-4.79851E 00	3.97726E-03	-4.71592E 00	4.24358E 01	-1.98047E 02			
40.20	1.15045E 00	-4.14991E 01	-4.82022E 00	3.97664E-03	-4.73738E 00	4.25360E 01	-1.98180E 02			
40.30	1.15044E 00	-4.15994E 01	-4.84198E 00	3.97601E-03	-4.75889E 00	4.26363E 01	-1.98313E 02			
40.40	1.15044E 00	-4.16998E 01	-4.86378E 00	3.97536E-03	-4.78045E 00	4.27365E 01	-1.98446E 02			
40.50	1.15043E 00	-4.18001E 01	-4.88563E 00	3.97471E-03	-4.80205E 00	4.28367E 01	-1.98580E 02			
40.60	1.15043E 00	-4.19004E 01	-4.90753E 00	3.97404E-03	-4.82370E 00	4.29369E 01	-1.98713E 02			
40.70	1.15042E 00	-4.20007E 01	-4.92948E 00	3.97337E-03	-4.84540E 00	4.30371E 01	-1.98846E 02			
40.80	1.15041E 00	-4.21009E 01	-4.95147E 00	3.97267E-03	-4.86714E 00	4.31372E 01	-1.98980E 02			
40.90	1.15041E 00	-4.22011E 01	-4.97350E 00	3.97197E-03	-4.88893E 00	4.32373E 01	-1.99114E 02			
41.00	1.15040E 00	-4.23013E 01	-4.99559E 00	3.97126E-03	-4.91077E 00	4.33373E 01	-1.99247E 02			
41.10	1.15040E 00	-4.24015E 01	-5.01772E 00	3.97053E-03	-4.93265E 00	4.34374E 01	-1.99381E 02			
41.20	1.15039E 00	-4.25016E 01	-5.03989E 00	3.96980E-03	-4.95458E 00	4.35374E 01	-1.99515E 02			
41.30	1.15039E 00	-4.26017E 01	-5.06212E 00	3.96905E-03	-4.97655E 00	4.36374E 01	-1.99650E 02			
41.40	1.15038E 00	-4.27018E 01	-5.08439E 00	3.96829E-03	-4.99858E 00	4.37373E 01	-1.99784E 02			
41.50	1.15037E 00	-4.28018E 01	-5.10670E 00	3.96753E-03	-5.02064E 00	4.38372E 01	-1.99918E 02			
41.60	1.15037E 00	-4.29019E 01	-5.12906E 00	3.96675E-03	-5.04276E 00	4.39371E 01	-2.00053E 02			
41.70	1.15036E 00	-4.30018E 01	-5.15147E 00	3.96596E-03	-5.06492E 00	4.40370E 01	-2.00187E 02			
41.80	1.15036E 00	-4.31018E 01	-5.17393E 00	3.96516E-03	-5.08713E 00	4.41369E 01	-2.00322E 02			
41.90	1.15035E 00	-4.32017E 01	-5.19643E 00	3.96435E-03	-5.10938E 00	4.42367E 01	-2.00457E 02			
42.00	1.15035E 00	-4.33017E 01	-5.21898E 00	3.96352E-03	-5.13168E 00	4.43364E 01	-2.00592E 02			

## ELECTRON RADIAL FUNCTIONS

 $Z=6$        $A=12$        $\rho=1.2 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
36.10	2.10660E-03	-3.22926E 00	-2.03411E-01	3.44615E 01	-1.99641E-01	3.31980E 00	-2.84107E-02
36.20	2.11828E-03	-3.24713E 00	-2.05003E-01	3.44625E 01	-2.01209E-01	3.33792E 00	-2.84115E-02
36.30	2.12999E-03	-3.26506E 00	-2.06602E-01	3.44636E 01	-2.02786E-01	3.35608E 00	-2.84123E-02
36.40	2.14174E-03	-3.28302E 00	-2.08210E-01	3.44646E 01	-2.04370E-01	3.37430E 00	-2.84131E-02
36.50	2.15352E-03	-3.30104E 00	-2.09826E-01	3.44657E 01	-2.05963E-01	3.39256E 00	-2.84138E-02
36.60	2.16533E-03	-3.31911E 00	-2.11451E-01	3.44667E 01	-2.07564E-01	3.41087E 00	-2.84146E-02
36.70	2.17717E-03	-3.33722E 00	-2.13083E-01	3.44677E 01	-2.09173E-01	3.42923E 00	-2.84154E-02
36.80	2.18904E-03	-3.35538E 00	-2.14724E-01	3.44688E 01	-2.10790E-01	3.44764E 00	-2.84161E-02
36.90	2.20095E-03	-3.37359E 00	-2.16374E-01	3.44698E 01	-2.12415E-01	3.46609E 00	-2.84169E-02
37.00	2.21289E-03	-3.39184E 00	-2.18031E-01	3.44708E 01	-2.14049E-01	3.48459E 00	-2.84176E-02
37.10	2.22486E-03	-3.41015E 00	-2.19697E-01	3.44718E 01	-2.15691E-01	3.50314E 00	-2.84184E-02
37.20	2.23686E-03	-3.42850E 00	-2.21372E-01	3.44728E 01	-2.17341E-01	3.52174E 00	-2.84191E-02
37.30	2.24890E-03	-3.44690E 00	-2.23054E-01	3.44738E 01	-2.19000E-01	3.54039E 00	-2.84198E-02
37.40	2.26097E-03	-3.46535E 00	-2.24745E-01	3.44748E 01	-2.20667E-01	3.55908E 00	-2.84206E-02
37.50	2.27307E-03	-3.48385E 00	-2.26445E-01	3.44758E 01	-2.22342E-01	3.57782E 00	-2.84213E-02
37.60	2.28520E-03	-3.50239E 00	-2.28153E-01	3.44768E 01	-2.24026E-01	3.59661E 00	-2.84220E-02
37.70	2.29737E-03	-3.52098E 00	-2.29869E-01	3.44778E 01	-2.25718E-01	3.61545E 00	-2.84228E-02
37.80	2.30956E-03	-3.53962E 00	-2.31594E-01	3.44787E 01	-2.27418E-01	3.63433E 00	-2.84235E-02
37.90	2.32179E-03	-3.55831E 00	-2.33328E-01	3.44797E 01	-2.29127E-01	3.65326E 00	-2.84242E-02
38.00	2.33406E-03	-3.57705E 00	-2.35070E-01	3.44807E 01	-2.30845E-01	3.67225E 00	-2.84249E-02
38.10	2.34635E-03	-3.59583E 00	-2.36820E-01	3.44816E 01	-2.32571E-01	3.69127E 00	-2.84256E-02
38.20	2.35868E-03	-3.61466E 00	-2.38579E-01	3.44826E 01	-2.34305E-01	3.71035E 00	-2.84263E-02
38.30	2.37103E-03	-3.63354E 00	-2.40347E-01	3.44835E 01	-2.36048E-01	3.72947E 00	-2.84270E-02
38.40	2.38343E-03	-3.65247E 00	-2.42123E-01	3.44845E 01	-2.37799E-01	3.74865E 00	-2.84277E-02
38.50	2.39585E-03	-3.67144E 00	-2.43908E-01	3.44854E 01	-2.39559E-01	3.76787E 00	-2.84284E-02
38.60	2.40830E-03	-3.69046E 00	-2.45702E-01	3.44863E 01	-2.41328E-01	3.78713E 00	-2.84291E-02
38.70	2.42079E-03	-3.70953E 00	-2.47504E-01	3.44872E 01	-2.43105E-01	3.80645E 00	-2.84298E-02
38.80	2.43331E-03	-3.72865E 00	-2.49315E-01	3.44882E 01	-2.44891E-01	3.82581E 00	-2.84305E-02
38.90	2.44586E-03	-3.74782E 00	-2.51134E-01	3.44891E 01	-2.46685E-01	3.84522E 00	-2.84312E-02
39.00	2.45845E-03	-3.76703E 00	-2.52963E-01	3.44900E 01	-2.48488E-01	3.86468E 00	-2.84319E-02
39.10	2.47107E-03	-3.78629E 00	-2.54800E-01	3.44909E 01	-2.50300E-01	3.88418E 00	-2.84325E-02
39.20	2.48372E-03	-3.80560E 00	-2.56646E-01	3.44918E 01	-2.52120E-01	3.90374E 00	-2.84332E-02
39.30	2.49640E-03	-3.82495E 00	-2.58500E-01	3.44927E 01	-2.53950E-01	3.92334E 00	-2.84339E-02
39.40	2.50911E-03	-3.84436E 00	-2.60364E-01	3.44936E 01	-2.55787E-01	3.94298E 00	-2.84345E-02
39.50	2.52186E-03	-3.86381E 00	-2.62236E-01	3.44945E 01	-2.57634E-01	3.96268E 00	-2.84352E-02
39.60	2.53464E-03	-3.88331E 00	-2.64117E-01	3.44953E 01	-2.59490E-01	3.98242E 00	-2.84359E-02
39.70	2.54745E-03	-3.90285E 00	-2.66007E-01	3.44962E 01	-2.61354E-01	4.00221E 00	-2.84365E-02
39.80	2.56029E-03	-3.92245E 00	-2.67906E-01	3.44971E 01	-2.63227E-01	4.02205E 00	-2.84372E-02
39.90	2.57316E-03	-3.94209E 00	-2.69814E-01	3.44980E 01	-2.65109E-01	4.04194E 00	-2.84378E-02
40.00	2.58607E-03	-3.96178E 00	-2.71731E-01	3.44988E 01	-2.67000E-01	4.06187E 00	-2.84385E-02
40.10	2.59901E-03	-3.98152E 00	-2.73656E-01	3.44997E 01	-2.68899E-01	4.08185E 00	-2.84391E-02
40.20	2.61198E-03	-4.00130E 00	-2.75591E-01	3.45005E 01	-2.70808E-01	4.10188E 00	-2.84398E-02
40.30	2.62499E-03	-4.02113E 00	-2.77535E-01	3.45014E 01	-2.72725E-01	4.12196E 00	-2.84404E-02
40.40	2.63802E-03	-4.04101E 00	-2.79487E-01	3.45022E 01	-2.74652E-01	4.14208E 00	-2.84410E-02
40.50	2.65109E-03	-4.06094E 00	-2.81449E-01	3.45031E 01	-2.76587E-01	4.16225E 00	-2.84417E-02
40.60	2.66419E-03	-4.08091E 00	-2.83420E-01	3.45039E 01	-2.78531E-01	4.18247E 00	-2.84423E-02
40.70	2.67733E-03	-4.10093E 00	-2.85400E-01	3.45047E 01	-2.80485E-01	4.20273E 00	-2.84429E-02
40.80	2.69049E-03	-4.12100E 00	-2.87388E-01	3.45056E 01	-2.82447E-01	4.22305E 00	-2.84436E-02
40.90	2.70369E-03	-4.14112E 00	-2.89386E-01	3.45064E 01	-2.84418E-01	4.24341E 00	-2.84442E-02
41.00	2.71692E-03	-4.16128E 00	-2.91393E-01	3.45072E 01	-2.86399E-01	4.26381E 00	-2.84448E-02
41.10	2.73018E-03	-4.18149E 00	-2.93410E-01	3.45080E 01	-2.88388E-01	4.28427E 00	-2.84454E-02
41.20	2.74348E-03	-4.20175E 00	-2.95435E-01	3.45088E 01	-2.90387E-01	4.30477E 00	-2.84460E-02
41.30	2.75681E-03	-4.22206E 00	-2.97470E-01	3.45097E 01	-2.92395E-01	4.32532E 00	-2.84466E-02
41.40	2.77017E-03	-4.24241E 00	-2.99514E-01	3.45104E 01	-2.94412E-01	4.34592E 00	-2.84472E-02
41.50	2.78356E-03	-4.26281E 00	-3.01567E-01	3.45113E 01	-2.96438E-01	4.36656E 00	-2.84478E-02
41.60	2.79698E-03	-4.28326E 00	-3.03629E-01	3.45120E 01	-2.98473E-01	4.38725E 00	-2.84485E-02
41.70	2.81044E-03	-4.30375E 00	-3.05701E-01	3.45128E 01	-3.00517E-01	4.40799E 00	-2.84490E-02
41.80	2.82393E-03	-4.32430E 00	-3.07781E-01	3.45136E 01	-3.02571E-01	4.42878E 00	-2.84497E-02
41.90	2.83745E-03	-4.34489E 00	-3.09872E-01	3.45144E 01	-3.04634E-01	4.44961E 00	-2.84502E-02
42.00	2.85100E-03	-4.36552E 00	-3.11971E-01	3.45152E 01	-3.06706E-01	4.47049E 00	-2.84508E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$	$A=14$	$\rho=1.2 A^{1/3} F$				
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
0.10	3.43586E 00	-1.46294E-02	-3.72267E-04	-2.25885E-01	-5.34797E-03	2.61489E-01	-3.91461E 00
0.20	2.07582E 00	-4.14091E-02	-1.05525E-03	-1.06907E-01	-8.29852E-03	4.05023E-01	-6.91789E 00
0.30	1.69445E 00	-8.13003E-02	-2.07674E-03	-6.96957E-02	-1.12145E-02	5.45731E-01	-1.00608E 01
0.40	1.52317E 00	-1.33025E-01	-3.40897E-03	-5.12808E-02	-1.41266E-02	6.84690E-01	-1.31709E 01
0.50	1.42836E 00	-1.95070E-01	-5.01896E-03	-4.02320E-02	-1.70322E-02	8.21440E-01	-1.62135E 01
0.60	1.36936E 00	-2.65867E-01	-6.87251E-03	-3.28394E-02	-1.99307E-02	9.55689E-01	-1.91755E 01
0.70	1.32979E 00	-3.43926E-01	-8.93710E-03	-2.75315E-02	-2.28246E-02	1.08735E 00	-2.20506E 01
0.80	1.30182E 00	-4.27912E-01	-1.11837E-02	-2.35270E-02	-2.57179E-02	1.21650E 00	-2.48363E 01
0.90	1.28129E 00	-5.16681E-01	-1.35873E-02	-2.03932E-02	-2.86159E-02	1.34330E 00	-2.75321E 01
1.00	1.26574E 00	-6.09284E-01	-1.61273E-02	-1.78709E-02	-3.15242E-02	1.46797E 00	-3.01391E 01
1.10	1.25367E 00	-7.04949E-01	-1.87871E-02	-1.57951E-02	-3.44482E-02	1.59073E 00	-3.26591E 01
1.20	1.24413E 00	-8.03055E-01	-2.15531E-02	-1.40555E-02	-3.73931E-02	1.71182E 00	-3.50946E 01
1.30	1.23644E 00	-9.03110E-01	-2.44147E-02	-1.25758E-02	-4.03634E-02	1.83143E 00	-3.74483E 01
1.40	1.23015E 00	-1.00472E 00	-2.73635E-02	-1.13012E-02	-4.33629E-02	1.94977E 00	-3.97232E 01
1.50	1.22495E 00	-1.10759E 00	-3.03928E-02	-1.01915E-02	-4.63953E-02	2.06700E 00	-4.19225E 01
1.60	1.22059E 00	-1.21146E 00	-3.34976E-02	-9.21627E-03	-4.94633E-02	2.18326E 00	-4.40493E 01
1.70	1.21690E 00	-1.31614E 00	-3.66735E-02	-8.35240E-03	-5.25696E-02	2.29868E 00	-4.61065E 01
1.80	1.21375E 00	-1.42149E 00	-3.99174E-02	-7.58170E-03	-5.57163E-02	2.41338E 00	-4.80973E 01
1.90	1.21104E 00	-1.52737E 00	-4.32266E-02	-6.88977E-03	-5.89053E-02	2.52744E 00	-5.00245E 01
2.00	1.20868E 00	-1.63369E 00	-4.65990E-02	-6.26506E-03	-6.21379E-02	2.64094E 00	-5.18908E 01
2.10	1.20663E 00	-1.74038E 00	-5.00330E-02	-5.69819E-03	-6.54155E-02	2.75395E 00	-5.36990E 01
2.20	1.20482E 00	-1.84736E 00	-5.35272E-02	-5.18145E-03	-6.87393E-02	2.86653E 00	-5.54516E 01
2.30	1.20322E 00	-1.95458E 00	-5.70806E-02	-4.70844E-03	-7.21103E-02	2.97873E 00	-5.71510E 01
2.40	1.20179E 00	-2.06201E 00	-6.06922E-02	-4.27383E-03	-7.55291E-02	3.09059E 00	-5.87994E 01
2.50	1.20052E 00	-2.16960E 00	-6.43613E-02	-3.87311E-03	-7.89966E-02	3.20215E 00	-6.03992E 01
2.60	1.19938E 00	-2.27734E 00	-6.80873E-02	-3.50245E-03	-8.25132E-02	3.31344E 00	-6.19524E 01
2.70	1.19835E 00	-2.38519E 00	-7.18697E-02	-3.15859E-03	-8.60797E-02	3.42449E 00	-6.34609E 01
2.80	1.19741E 00	-2.49313E 00	-7.57082E-02	-2.83871E-03	-8.96962E-02	3.53532E 00	-6.49266E 01
2.90	1.19656E 00	-2.60116E 00	-7.96023E-02	-2.54039E-03	-9.33634E-02	3.64596E 00	-6.63512E 01
3.00	1.19579E 00	-2.70925E 00	-8.35518E-02	-2.26154E-03	-9.70814E-02	3.75642E 00	-6.77366E 01
3.10	1.19508E 00	-2.81740E 00	-8.75564E-02	-2.00027E-03	-1.00851E-01	3.86672E 00	-6.90842E 01
3.20	1.19443E 00	-2.92559E 00	-9.16159E-02	-1.75501E-03	-1.04671E-01	3.97688E 00	-7.03956E 01
3.30	1.19383E 00	-3.03382E 00	-9.57303E-02	-1.52430E-03	-1.08544E-01	4.08690E 00	-7.16722E 01
3.40	1.19328E 00	-3.14208E 00	-9.98992E-02	-1.30691E-03	-1.12468E-01	4.19679E 00	-7.29153E 01
3.50	1.19276E 00	-3.25036E 00	-1.04123E-01	-1.10170E-03	-1.16444E-01	4.30658E 00	-7.41264E 01
3.60	1.19229E 00	-3.35866E 00	-1.08401E-01	-9.07679E-04	-1.20473E-01	4.41626E 00	-7.53065E 01
3.70	1.19184E 00	-3.46698E 00	-1.12733E-01	-7.23962E-04	-1.24553E-01	4.52584E 00	-7.64569E 01
3.80	1.19143E 00	-3.57530E 00	-1.17119E-01	-5.49751E-04	-1.28687E-01	4.63533E 00	-7.75787E 01
3.90	1.19104E 00	-3.68364E 00	-1.21560E-01	-3.84318E-04	-1.32873E-01	4.74474E 00	-7.86729E 01
4.00	1.19068E 00	-3.79198E 00	-1.26054E-01	-2.27031E-04	-1.37111E-01	4.85408E 00	-7.97406E 01
4.10	1.19034E 00	-3.90032E 00	-1.30603E-01	-7.72862E-05	-1.41402E-01	4.96334E 00	-8.07827E 01
4.20	1.19002E 00	-4.00866E 00	-1.35205E-01	6.54280E-05	-1.45746E-01	5.07253E 00	-8.18001E 01
4.30	1.18971E 00	-4.11700E 00	-1.39862E-01	2.01598E-04	-1.50143E-01	5.18165E 00	-8.27938E 01
4.40	1.18943E 00	-4.22533E 00	-1.44572E-01	3.31665E-04	-1.54593E-01	5.29072E 00	-8.37645E 01
4.50	1.18916E 00	-4.33366E 00	-1.49337E-01	4.56032E-04	-1.59096E-01	5.39973E 00	-8.47131E 01
4.60	1.18890E 00	-4.44199E 00	-1.54155E-01	5.75057E-04	-1.63652E-01	5.50869E 00	-8.56402E 01
4.70	1.18866E 00	-4.55031E 00	-1.59027E-01	6.89086E-04	-1.68261E-01	5.61760E 00	-8.65466E 01
4.80	1.18843E 00	-4.65862E 00	-1.63952E-01	7.98409E-04	-1.72923E-01	5.72645E 00	-8.74332E 01
4.90	1.18821E 00	-4.76692E 00	-1.68932E-01	9.03328E-04	-1.77639E-01	5.83527E 00	-8.83003E 01
5.00	1.18801E 00	-4.87521E 00	-1.73965E-01	1.00409E-03	-1.82407E-01	5.94403E 00	-8.91489E 01
5.10	1.18781E 00	-4.98350E 00	-1.79052E-01	1.10094E-03	-1.87229E-01	6.05276E 00	-8.99793E 01
5.20	1.18762E 00	-5.09177E 00	-1.84193E-01	1.19411E-03	-1.92104E-01	6.16144E 00	-9.07922E 01
5.30	1.18744E 00	-5.20003E 00	-1.89387E-01	1.28378E-03	-1.97032E-01	6.27009E 00	-9.15883E 01
5.40	1.18726E 00	-5.30828E 00	-1.94636E-01	1.37017E-03	-2.02014E-01	6.37870E 00	-9.23679E 01
5.50	1.18710E 00	-5.41652E 00	-1.99937E-01	1.45344E-03	-2.07049E-01	6.48727E 00	-9.31317E 01
5.60	1.18694E 00	-5.52474E 00	-2.05293E-01	1.53375E-03	-2.12137E-01	6.59581E 00	-9.38801E 01
5.70	1.18678E 00	-5.63296E 00	-2.10702E-01	1.61127E-03	-2.17278E-01	6.70432E 00	-9.46135E 01
5.80	1.18664E 00	-5.74116E 00	-2.16165E-01	1.68612E-03	-2.22473E-01	6.81280E 00	-9.53326E 01
5.90	1.18649E 00	-5.84934E 00	-2.21681E-01	1.75846E-03	-2.27721E-01	6.92124E 00	-9.60375E 01
6.00	1.18636E 00	-5.95752E 00	-2.27251E-01	1.82840E-03	-2.33023E-01	7.02965E 00	-9.67289E 01

## ELECTRON RADIAL FUNCTIONS

 $Z=7$  $A=14$  $\rho=1.2 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	6.69177E-08	-3.74751E-06	-5.50171E-08	1.94277E 00	-8.53559E-07	7.30489E-05	-2.29191E-01
0.20	1.36736E-07	-2.07584E-05	-3.05214E-07	4.11403E 00	-2.43600E-06	2.08082E-04	-1.11893E-01
0.30	2.42715E-07	-6.08898E-05	-8.97484E-07	6.14817E 00	-4.85524E-06	4.13449E-04	-7.64553E-02
0.40	3.83238E-07	-1.32665E-04	-1.96197E-06	8.05829E 00	-8.10734E-06	6.87487E-04	-5.97701E-02
0.50	5.58455E-07	-2.43046E-04	-3.60932E-06	9.83124E 00	-1.21880E-05	1.02817E-03	-5.03732E-02
0.60	7.68705E-07	-3.97409E-04	-5.93035E-06	1.14583E 01	-1.70946E-05	1.43335E-03	-4.45394E-02
0.70	1.01432E-06	-5.99702E-04	-8.99803E-06	1.29379E 01	-2.28271E-05	1.90100E-03	-4.06906E-02
0.80	1.29558E-06	-8.52702E-04	-1.28707E-05	1.42744E 01	-2.93897E-05	2.42934E-03	-3.80444E-02
0.90	1.61273E-06	-1.15828E-03	-1.75956E-05	1.54762E 01	-3.67899E-05	3.01684E-03	-3.61704E-02
1.00	1.96593E-06	-1.51767E-03	-2.32116E-05	1.65540E 01	-4.50390E-05	3.66230E-03	-3.48137E-02
1.10	2.35533E-06	-1.93161E-03	-2.97520E-05	1.75196E 01	-5.41511E-05	4.36475E-03	-3.38151E-02
1.20	2.78105E-06	-2.40055E-03	-3.72465E-05	1.83847E 01	-6.41430E-05	5.12344E-03	-3.30706E-02
1.30	3.24317E-06	-2.92474E-03	-4.57218E-05	1.91605E 01	-7.50332E-05	5.93780E-03	-3.25105E-02
1.40	3.74176E-06	-3.50426E-03	-5.52034E-05	1.98573E 01	-8.68417E-05	6.80741E-03	-3.20863E-02
1.50	4.27687E-06	-4.13916E-03	-6.57155E-05	2.04844E 01	-9.95896E-05	7.73195E-03	-3.17639E-02
1.60	4.84854E-06	-4.82938E-03	-7.72821E-05	2.10502E 01	-1.13299E-04	8.71116E-03	-3.15186E-02
1.70	5.45680E-06	-5.57488E-03	-8.99264E-05	2.15618E 01	-1.27992E-04	9.74487E-03	-3.13324E-02
1.80	6.10168E-06	-6.37558E-03	-1.03672E-04	2.20258E 01	-1.43693E-04	1.08329E-02	-3.11919E-02
1.90	6.78321E-06	-7.23141E-03	-1.18541E-04	2.24476E 01	-1.60424E-04	1.19753E-02	-3.10869E-02
2.00	7.50138E-06	-8.14227E-03	-1.34559E-04	2.28322E 01	-1.78209E-04	1.31718E-02	-3.10099E-02
2.10	8.25622E-06	-9.10810E-03	-1.51747E-04	2.31838E 01	-1.97072E-04	1.44224E-02	-3.09549E-02
2.20	9.04774E-06	-1.01288E-02	-1.70129E-04	2.35061E 01	-2.17038E-04	1.57271E-02	-3.09174E-02
2.30	9.87593E-06	-1.12043E-02	-1.89729E-04	2.38022E 01	-2.38129E-04	1.70859E-02	-3.08937E-02
2.40	1.07408E-05	-1.23346E-02	-2.10569E-04	2.40750E 01	-2.60371E-04	1.84987E-02	-3.08811E-02
2.50	1.16424E-05	-1.35196E-02	-2.32675E-04	2.43269E 01	-2.83787E-04	1.99656E-02	-3.08774E-02
2.60	1.25807E-05	-1.47592E-02	-2.56068E-04	2.45600E 01	-3.08401E-04	2.14864E-02	-3.08807E-02
2.70	1.35557E-05	-1.60535E-02	-2.80774E-04	2.47763E 01	-3.34239E-04	2.30613E-02	-3.08897E-02
2.80	1.45674E-05	-1.74022E-02	-3.06815E-04	2.49773E 01	-3.61324E-04	2.46901E-02	-3.09032E-02
2.90	1.56158E-05	-1.88055E-02	-3.34215E-04	2.51646E 01	-3.89681E-04	2.63729E-02	-3.09203E-02
3.00	1.67009E-05	-2.02632E-02	-3.62999E-04	2.53393E 01	-4.19333E-04	2.81097E-02	-3.09402E-02
3.10	1.78227E-05	-2.17754E-02	-3.93189E-04	2.55027E 01	-4.50306E-04	2.99005E-02	-3.09624E-02
3.20	1.89812E-05	-2.33420E-02	-4.24811E-04	2.56558E 01	-4.82623E-04	3.17452E-02	-3.09863E-02
3.30	2.01764E-05	-2.49629E-02	-4.57888E-04	2.57994E 01	-5.16309E-04	3.36439E-02	-3.10115E-02
3.40	2.14084E-05	-2.66382E-02	-4.92443E-04	2.59344E 01	-5.51388E-04	3.55966E-02	-3.10377E-02
3.50	2.26770E-05	-2.83678E-02	-5.28501E-04	2.60615E 01	-5.87884E-04	3.76033E-02	-3.10646E-02
3.60	2.39824E-05	-3.01518E-02	-5.66087E-04	2.61813E 01	-6.25822E-04	3.96639E-02	-3.10920E-02
3.70	2.53244E-05	-3.19899E-02	-6.05223E-04	2.62944E 01	-6.65226E-04	4.17785E-02	-3.11197E-02
3.80	2.67032E-05	-3.38824E-02	-6.45934E-04	2.64013E 01	-7.06121E-04	4.39471E-02	-3.11476E-02
3.90	2.81187E-05	-3.58291E-02	-6.88244E-04	2.65026E 01	-7.48529E-04	4.61696E-02	-3.11755E-02
4.00	2.95709E-05	-3.78300E-02	-7.32177E-04	2.65985E 01	-7.92477E-04	4.84461E-02	-3.12033E-02
4.10	3.10598E-05	-3.98851E-02	-7.77758E-04	2.66896E 01	-8.37988E-04	5.07766E-02	-3.12309E-02
4.20	3.25854E-05	-4.19944E-02	-8.25009E-04	2.67761E 01	-8.85086E-04	5.31610E-02	-3.12583E-02
4.30	3.41477E-05	-4.41579E-02	-8.73956E-04	2.68585E 01	-9.33796E-04	5.55994E-02	-3.12855E-02
4.40	3.57467E-05	-4.63756E-02	-9.24623E-04	2.69368E 01	-9.84142E-04	5.80918E-02	-3.13123E-02
4.50	3.73824E-05	-4.86474E-02	-9.77033E-04	2.70116E 01	-1.03615E-03	6.06381E-02	-3.13388E-02
4.60	3.90548E-05	-5.09733E-02	-1.03121E-03	2.70829E 01	-1.08984E-03	6.32384E-02	-3.13648E-02
4.70	4.07639E-05	-5.33534E-02	-1.08718E-03	2.71510E 01	-1.14524E-03	6.58926E-02	-3.13905E-02
4.80	4.25097E-05	-5.57876E-02	-1.14497E-03	2.72161E 01	-1.20237E-03	6.86007E-02	-3.14157E-02
4.90	4.42923E-05	-5.82759E-02	-1.20459E-03	2.72784E 01	-1.26126E-03	7.13628E-02	-3.14405E-02
5.00	4.61115E-05	-6.08183E-02	-1.26608E-03	2.73381E 01	-1.32193E-03	7.41789E-02	-3.14649E-02
5.10	4.79674E-05	-6.34147E-02	-1.32946E-03	2.73952E 01	-1.38440E-03	7.70489E-02	-3.14888E-02
5.20	4.98601E-05	-6.60653E-02	-1.39475E-03	2.74501E 01	-1.44871E-03	7.99728E-02	-3.15123E-02
5.30	5.17894E-05	-6.87699E-02	-1.46198E-03	2.75028E 01	-1.51487E-03	8.29506E-02	-3.15353E-02
5.40	5.37554E-05	-7.15285E-02	-1.53116E-03	2.75534E 01	-1.58291E-03	8.59824E-02	-3.15579E-02
5.50	5.57582E-05	-7.43412E-02	-1.60234E-03	2.76020E 01	-1.65285E-03	8.90681E-02	-3.15800E-02
5.60	5.77975E-05	-7.72079E-02	-1.67552E-03	2.76488E 01	-1.72472E-03	9.22077E-02	-3.16017E-02
5.70	5.98736E-05	-8.01287E-02	-1.75073E-03	2.76939E 01	-1.79853E-03	9.54013E-02	-3.16230E-02
5.80	6.19864E-05	-8.31035E-02	-1.82801E-03	2.77373E 01	-1.87433E-03	9.86487E-02	-3.16438E-02
5.90	6.41359E-05	-8.61323E-02	-1.90736E-03	2.77792E 01	-1.95212E-03	1.01950E-01	-3.16642E-02
6.00	6.63222E-05	-8.92151E-02	-1.98882E-03	2.78195E 01	-2.03194E-03	1.05305E-01	-3.16842E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	1.18623E 00	-6.06568E 00	-2.32875E-01	1.89605E-03	-2.38378E-01	7.13804E 00	-9.74071E 01	01
6.20	1.18610E 00	-6.17383E 00	-2.38552E-01	1.96154E-03	-2.43786E-01	7.24639E 00	-9.80724E 01	01
6.30	1.18598E 00	-6.28196E 00	-2.44283E-01	2.02494E-03	-2.49248E-01	7.35472E 00	-9.87253E 01	01
6.40	1.18586E 00	-6.39008E 00	-2.50067E-01	2.08638E-03	-2.54763E-01	7.46302E 00	-9.93662E 01	01
6.50	1.18574E 00	-6.49818E 00	-2.55905E-01	2.14592E-03	-2.60332E-01	7.57129E 00	-9.99953E 01	01
6.60	1.18563E 00	-6.60627E 00	-2.61796E-01	2.20367E-03	-2.65954E-01	7.67954E 00	-1.00613E 02	02
6.70	1.18553E 00	-6.71435E 00	-2.67741E-01	2.25968E-03	-2.71629E-01	7.78776E 00	-1.01220E 02	02
6.80	1.18542E 00	-6.82241E 00	-2.73740E-01	2.31406E-03	-2.77358E-01	7.89596E 00	-1.01815E 02	02
6.90	1.18532E 00	-6.93046E 00	-2.79792E-01	2.36684E-03	-2.83140E-01	8.00414E 00	-1.02401E 02	02
7.00	1.18523E 00	-7.03849E 00	-2.85898E-01	2.41813E-03	-2.88975E-01	8.11229E 00	-1.02976E 02	02
7.10	1.18513E 00	-7.14651E 00	-2.92057E-01	2.46796E-03	-2.94864E-01	8.22042E 00	-1.03541E 02	02
7.20	1.18504E 00	-7.25451E 00	-2.98269E-01	2.51641E-03	-3.00807E-01	8.32852E 00	-1.04097E 02	02
7.30	1.18495E 00	-7.36250E 00	-3.04535E-01	2.56535E-03	-3.06802E-01	8.43660E 00	-1.04643E 02	02
7.40	1.18486E 00	-7.47048E 00	-3.10855E-01	2.60936E-03	-3.12851E-01	8.54466E 00	-1.05180E 02	02
7.50	1.18478E 00	-7.57843E 00	-3.17228E-01	2.65397E-03	-3.18954E-01	8.65269E 00	-1.05708E 02	02
7.60	1.18469E 00	-7.68638E 00	-3.23654E-01	2.69740E-03	-3.25110E-01	8.76071E 00	-1.06227E 02	02
7.70	1.18461E 00	-7.79431E 00	-3.30134E-01	2.73969E-03	-3.31319E-01	8.86870E 00	-1.06738E 02	02
7.80	1.18454E 00	-7.90222E 00	-3.36668E-01	2.78088E-03	-3.37582E-01	8.97668E 00	-1.07241E 02	02
7.90	1.18446E 00	-8.01012E 00	-3.43255E-01	2.82103E-03	-3.43898E-01	9.08463E 00	-1.07736E 02	02
8.00	1.18439E 00	-8.11800E 00	-3.49895E-01	2.86016E-03	-3.50267E-01	9.19256E 00	-1.08223E 02	02
8.10	1.18431E 00	-8.22587E 00	-3.56589E-01	2.89832E-03	-3.56690E-01	9.30047E 00	-1.08702E 02	02
8.20	1.18424E 00	-8.33373E 00	-3.63336E-01	2.93554E-03	-3.63166E-01	9.40837E 00	-1.09174E 02	02
8.30	1.18417E 00	-8.44156E 00	-3.70136E-01	2.97184E-03	-3.69696E-01	9.51624E 00	-1.09638E 02	02
8.40	1.18411E 00	-8.54939E 00	-3.76990E-01	3.00727E-03	-3.76279E-01	9.62409E 00	-1.10096E 02	02
8.50	1.18404E 00	-8.65719E 00	-3.83898E-01	3.04186E-03	-3.82915E-01	9.73192E 00	-1.10546E 02	02
8.60	1.18397E 00	-8.76498E 00	-3.90858E-01	3.07563E-03	-3.89604E-01	9.83973E 00	-1.10990E 02	02
8.70	1.18391E 00	-8.87276E 00	-3.97873E-01	3.10861E-03	-3.96347E-01	9.94752E 00	-1.11428E 02	02
8.80	1.18385E 00	-8.98052E 00	-4.04940E-01	3.14083E-03	-4.03144E-01	1.00553E 01	-1.11858E 02	02
8.90	1.18379E 00	-9.08827E 00	-4.12061E-01	3.17231E-03	-4.09993E-01	1.01631E 01	-1.12283E 02	02
9.00	1.18373E 00	-9.19600E 00	-4.19235E-01	3.20309E-03	-4.16896E-01	1.02708E 01	-1.12701E 02	02
9.10	1.18367E 00	-9.30371E 00	-4.26463E-01	3.23317E-03	-4.23852E-01	1.03785E 01	-1.13114E 02	02
9.20	1.18361E 00	-9.41141E 00	-4.33743E-01	3.26259E-03	-4.30862E-01	1.04862E 01	-1.13521E 02	02
9.30	1.18356E 00	-9.51909E 00	-4.41078E-01	3.29135E-03	-4.37925E-01	1.05939E 01	-1.13921E 02	02
9.40	1.18350E 00	-9.62676E 00	-4.48465E-01	3.31949E-03	-4.45041E-01	1.07015E 01	-1.14317E 02	02
9.50	1.18345E 00	-9.73441E 00	-4.55906E-01	3.34702E-03	-4.52210E-01	1.08092E 01	-1.14707E 02	02
9.60	1.18340E 00	-9.84205E 00	-4.63400E-01	3.37398E-03	-4.59433E-01	1.09168E 01	-1.15091E 02	02
9.70	1.18334E 00	-9.94967E 00	-4.70947E-01	3.40035E-03	-4.66709E-01	1.10244E 01	-1.15471E 02	02
9.80	1.18329E 00	-1.00573E 01	-4.78548E-01	3.42617E-03	-4.74038E-01	1.11320E 01	-1.15845E 02	02
9.90	1.18324E 00	-1.01649E 01	-4.86202E-01	3.45146E-03	-4.81421E-01	1.12396E 01	-1.16214E 02	02
10.00	1.18319E 00	-1.02724E 01	-4.93909E-01	3.47622E-03	-4.88856E-01	1.13471E 01	-1.16579E 02	02
10.10	1.18315E 00	-1.03800E 01	-5.01669E-01	3.50048E-03	-4.96345E-01	1.14546E 01	-1.16939E 02	02
10.20	1.18310E 00	-1.04875E 01	-5.09483E-01	3.52425E-03	-5.03888E-01	1.15622E 01	-1.17294E 02	02
10.30	1.18305E 00	-1.05951E 01	-5.17350E-01	3.54753E-03	-5.11483E-01	1.16697E 01	-1.17644E 02	02
10.40	1.18300E 00	-1.07026E 01	-5.25270E-01	3.57037E-03	-5.19132E-01	1.17771E 01	-1.17990E 02	02
10.50	1.18296E 00	-1.08101E 01	-5.33243E-01	3.59274E-03	-5.26834E-01	1.18846E 01	-1.18332E 02	02
10.60	1.18292E 00	-1.09175E 01	-5.41270E-01	3.61468E-03	-5.34589E-01	1.19920E 01	-1.18669E 02	02
10.70	1.18287E 00	-1.10250E 01	-5.49350E-01	3.63619E-03	-5.42397E-01	1.20995E 01	-1.19002E 02	02
10.80	1.18283E 00	-1.11324E 01	-5.57483E-01	3.65728E-03	-5.50259E-01	1.22069E 01	-1.19331E 02	02
10.90	1.18279E 00	-1.12399E 01	-5.65669E-01	3.67797E-03	-5.58173E-01	1.23143E 01	-1.19656E 02	02
11.00	1.18274E 00	-1.13473E 01	-5.73908E-01	3.69827E-03	-5.66141E-01	1.24216E 01	-1.19973E 02	02
11.10	1.18270E 00	-1.14547E 01	-5.82201E-01	3.71819E-03	-5.74162E-01	1.25290E 01	-1.20295E 02	02
11.20	1.18266E 00	-1.15621E 01	-5.90546E-01	3.73774E-03	-5.82236E-01	1.26363E 01	-1.20608E 02	02
11.30	1.18262E 00	-1.16694E 01	-5.98945E-01	3.75691E-03	-5.90364E-01	1.27436E 01	-1.20918E 02	02
11.40	1.18258E 00	-1.17768E 01	-6.07397E-01	3.77574E-03	-5.98544E-01	1.28509E 01	-1.21225E 02	02
11.50	1.18254E 00	-1.18841E 01	-6.15902E-01	3.79423E-03	-6.06777E-01	1.29582E 01	-1.21527E 02	02
11.60	1.18251E 00	-1.19914E 01	-6.24460E-01	3.81238E-03	-6.15064E-01	1.30655E 01	-1.21826E 02	02
11.70	1.18247E 00	-1.20987E 01	-6.33071E-01	3.83019E-03	-6.23404E-01	1.31727E 01	-1.22122E 02	02
11.80	1.18243E 00	-1.22060E 01	-6.41735E-01	3.84770E-03	-6.31797E-01	1.32800E 01	-1.22415E 02	02
11.90	1.18239E 00	-1.23132E 01	-6.50453E-01	3.86488E-03	-6.40243E-01	1.33872E 01	-1.22704E 02	02
12.00	1.18236E 00	-1.24205E 01	-6.59223E-01	3.88178E-03	-6.48742E-01	1.34944E 01	-1.22990E 02	02

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$  $A = 14$  $\rho = 1.2 A^{1/3} F$ 

Electron

$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	6.85451E-05	-9.23519E-02	-2.07241E-03	2.78585E 01	-2.11380E-03	1.08715E-01	-3.17038E-02
6.20	7.08047E-05	-9.55427E-02	-2.15815E-03	2.78961E 01	-2.19774E-03	1.12178E-01	-3.17230E-02
6.30	7.31009E-05	-9.87875E-02	-2.24607E-03	2.79325E 01	-2.28377E-03	1.15695E-01	-3.17418E-02
6.40	7.54338E-05	-1.02086E-01	-2.33620E-03	2.79676E 01	-2.37192E-03	1.19265E-01	-3.17603E-02
6.50	7.78035E-05	-1.05439E-01	-2.42855E-03	2.80016E 01	-2.46221E-03	1.22890E-01	-3.17783E-02
6.60	8.02098E-05	-1.08846E-01	-2.52315E-03	2.80345E 01	-2.55468E-03	1.26569E-01	-3.17960E-02
6.70	8.26528E-05	-1.12306E-01	-2.62002E-03	2.80664E 01	-2.64934E-03	1.30301E-01	-3.18134E-02
6.80	8.51325E-05	-1.15821E-01	-2.71919E-03	2.80972E 01	-2.74621E-03	1.34087E-01	-3.18303E-02
6.90	8.76490E-05	-1.19389E-01	-2.82069E-03	2.81271E 01	-2.84533E-03	1.37928E-01	-3.18470E-02
7.00	9.02020E-05	-1.23012E-01	-2.92453E-03	2.81561E 01	-2.94671E-03	1.41822E-01	-3.18633E-02
7.10	9.27918E-05	-1.26688E-01	-3.03074E-03	2.81843E 01	-3.05037E-03	1.45770E-01	-3.18793E-02
7.20	9.54183E-05	-1.30418E-01	-3.13935E-03	2.82116E 01	-3.15636E-03	1.49771E-01	-3.18950E-02
7.30	9.80814E-05	-1.34202E-01	-3.25038E-03	2.82381E 01	-3.26468E-03	1.53827E-01	-3.19104E-02
7.40	1.00781E-04	-1.38040E-01	-3.36385E-03	2.82638E 01	-3.37536E-03	1.57936E-01	-3.19255E-02
7.50	1.03518E-04	-1.41932E-01	-3.47979E-03	2.82888E 01	-3.48843E-03	1.62100E-01	-3.19402E-02
7.60	1.06291E-04	-1.45878E-01	-3.59822E-03	2.83132E 01	-3.60391E-03	1.66317E-01	-3.19547E-02
7.70	1.09101E-04	-1.49878E-01	-3.71917E-03	2.83368E 01	-3.72182E-03	1.70588E-01	-3.19690E-02
7.80	1.11947E-04	-1.53931E-01	-3.84265E-03	2.83598E 01	-3.84219E-03	1.74912E-01	-3.19829E-02
7.90	1.14831E-04	-1.58039E-01	-3.96870E-03	2.83822E 01	-3.96504E-03	1.79291E-01	-3.19966E-02
8.00	1.17751E-04	-1.62200E-01	-4.09734E-03	2.84040E 01	-4.09040E-03	1.83723E-01	-3.20100E-02
8.10	1.20707E-04	-1.66415E-01	-4.22859E-03	2.84252E 01	-4.21829E-03	1.88209E-01	-3.20232E-02
8.20	1.23700E-04	-1.70684E-01	-4.36247E-03	2.84458E 01	-4.34874E-03	1.92749E-01	-3.20362E-02
8.30	1.26730E-04	-1.75007E-01	-4.49902E-03	2.84660E 01	-4.48176E-03	1.97343E-01	-3.20489E-02
8.40	1.29797E-04	-1.79384E-01	-4.63825E-03	2.84856E 01	-4.61738E-03	2.01990E-01	-3.20613E-02
8.50	1.32900E-04	-1.83814E-01	-4.78019E-03	2.85048E 01	-4.75564E-03	2.06692E-01	-3.20736E-02
8.60	1.36040E-04	-1.88299E-01	-4.92485E-03	2.85234E 01	-4.89654E-03	2.11446E-01	-3.20856E-02
8.70	1.39217E-04	-1.92837E-01	-5.07228E-03	2.85416E 01	-5.04012E-03	2.16255E-01	-3.20974E-02
8.80	1.42430E-04	-1.97429E-01	-5.22249E-03	2.85594E 01	-5.18640E-03	2.21118E-01	-3.21090E-02
8.90	1.45680E-04	-2.02074E-01	-5.37550E-03	2.85768E 01	-5.33540E-03	2.26034E-01	-3.21204E-02
9.00	1.48967E-04	-2.06774E-01	-5.53134E-03	2.85937E 01	-5.48745E-03	2.31004E-01	-3.21316E-02
9.10	1.52290E-04	-2.11527E-01	-5.69004E-03	2.86102E 01	-5.64167E-03	2.36028E-01	-3.21426E-02
9.20	1.55650E-04	-2.16334E-01	-5.85161E-03	2.86264E 01	-5.79899E-03	2.41105E-01	-3.21534E-02
9.30	1.59047E-04	-2.21195E-01	-6.01608E-03	2.86422E 01	-5.95913E-03	2.46237E-01	-3.21640E-02
9.40	1.62480E-04	-2.26110E-01	-6.18348E-03	2.86576E 01	-6.12211E-03	2.51421E-01	-3.21744E-02
9.50	1.65951E-04	-2.31078E-01	-6.35382E-03	2.86727E 01	-6.28795E-03	2.56660E-01	-3.21847E-02
9.60	1.69457E-04	-2.36100E-01	-6.52714E-03	2.86875E 01	-6.45669E-03	2.61952E-01	-3.21948E-02
9.70	1.73001E-04	-2.41176E-01	-6.70346E-03	2.87020E 01	-6.62835E-03	2.67298E-01	-3.22047E-02
9.80	1.76581E-04	-2.46306E-01	-6.88279E-03	2.87161E 01	-6.80294E-03	2.72698E-01	-3.22144E-02
9.90	1.80197E-04	-2.51489E-01	-7.06517E-03	2.87299E 01	-6.98050E-03	2.78152E-01	-3.22240E-02
10.00	1.83851E-04	-2.56726E-01	-7.25063E-03	2.87434E 01	-7.16105E-03	2.83659E-01	-3.22335E-02
10.10	1.87541E-04	-2.62017E-01	-7.43917E-03	2.87567E 01	-7.34461E-03	2.89219E-01	-3.22428E-02
10.20	1.91268E-04	-2.67361E-01	-7.63083E-03	2.87697E 01	-7.53121E-03	2.94834E-01	-3.22519E-02
10.30	1.95031E-04	-2.72759E-01	-7.82563E-03	2.87824E 01	-7.72086E-03	3.00502E-01	-3.22609E-02
10.40	1.98831E-04	-2.78211E-01	-8.02360E-03	2.87948E 01	-7.91360E-03	3.06224E-01	-3.22697E-02
10.50	2.02668E-04	-2.83717E-01	-8.22476E-03	2.88070E 01	-8.10945E-03	3.11999E-01	-3.22784E-02
10.60	2.06541E-04	-2.89276E-01	-8.42913E-03	2.88190E 01	-8.30843E-03	3.17828E-01	-3.22870E-02
10.70	2.10451E-04	-2.94889E-01	-8.63674E-03	2.88307E 01	-8.51057E-03	3.23711E-01	-3.22954E-02
10.80	2.14398E-04	-3.00555E-01	-8.84761E-03	2.88422E 01	-8.71588E-03	3.29647E-01	-3.23037E-02
10.90	2.18382E-04	-3.06275E-01	-9.06176E-03	2.88535E 01	-8.92440E-03	3.35637E-01	-3.23119E-02
11.00	2.22402E-04	-3.12049E-01	-9.27922E-03	2.88645E 01	-9.13615E-03	3.41680E-01	-3.23200E-02
11.10	2.26458E-04	-3.17877E-01	-9.50002E-03	2.88754E 01	-9.35115E-03	3.47778E-01	-3.23279E-02
11.20	2.30552E-04	-3.23758E-01	-9.72417E-03	2.88860E 01	-9.56943E-03	3.53928E-01	-3.23357E-02
11.30	2.34682E-04	-3.29693E-01	-9.95171E-03	2.88965E 01	-9.79101E-03	3.60133E-01	-3.23434E-02
11.40	2.38849E-04	-3.35681E-01	-1.01826E-02	2.89067E 01	-1.00159E-02	3.66391E-01	-3.23510E-02
11.50	2.43052E-04	-3.41723E-01	-1.04170E-02	2.89168E 01	-1.02442E-02	3.72702E-01	-3.23585E-02
11.60	2.47292E-04	-3.47818E-01	-1.06548E-02	2.89267E 01	-1.04758E-02	3.79067E-01	-3.23658E-02
11.70	2.51569E-04	-3.53968E-01	-1.08961E-02	2.89364E 01	-1.07108E-02	3.85486E-01	-3.23731E-02
11.80	2.55882E-04	-3.60170E-01	-1.11409E-02	2.89459E 01	-1.09492E-02	3.91958E-01	-3.23802E-02
11.90	2.60232E-04	-3.66427E-01	-1.13893E-02	2.89552E 01	-1.11911E-02	3.98483E-01	-3.23873E-02
12.00	2.64619E-04	-3.72736E-01	-1.16411E-02	2.89644E 01	-1.14365E-02	4.05063E-01	-3.23942E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	1.18232E 00	-1.25277E 01	-6.68047E-01	3.89836E-03	-6.57294E-01	1.36016E 01	-1.23273E 02	02
12.20	1.18229E 00	-1.26349E 01	-6.76923E-01	3.91466E-03	-6.65899E-01	1.37087E 01	-1.23553E 02	02
12.30	1.18225E 00	-1.27421E 01	-6.85853E-01	3.93067E-03	-6.74557E-01	1.38158E 01	-1.23830E 02	02
12.40	1.18222E 00	-1.28493E 01	-6.94836E-01	3.94642E-03	-6.83268E-01	1.39230E 01	-1.24104E 02	02
12.50	1.18218E 00	-1.29565E 01	-7.03871E-01	3.96189E-03	-6.92033E-01	1.40301E 01	-1.24374E 02	02
12.60	1.18215E 00	-1.30636E 01	-7.12960E-01	3.97710E-03	-7.00850E-01	1.41372E 01	-1.24642E 02	02
12.70	1.18212E 00	-1.31708E 01	-7.22101E-01	3.99205E-03	-7.09720E-01	1.42442E 01	-1.24908E 02	02
12.80	1.18208E 00	-1.32779E 01	-7.31296E-01	4.00675E-03	-7.18643E-01	1.43513E 01	-1.25170E 02	02
12.90	1.18205E 00	-1.33850E 01	-7.40543E-01	4.02120E-03	-7.27620E-01	1.44583E 01	-1.25430E 02	02
13.00	1.18202E 00	-1.34921E 01	-7.49844E-01	4.03541E-03	-7.36649E-01	1.45653E 01	-1.25687E 02	02
13.10	1.18199E 00	-1.35991E 01	-7.59198E-01	4.04939E-03	-7.45731E-01	1.46723E 01	-1.25942E 02	02
13.20	1.18196E 00	-1.37062E 01	-7.68604E-01	4.06314E-03	-7.54867E-01	1.47793E 01	-1.26194E 02	02
13.30	1.18192E 00	-1.38132E 01	-7.78064E-01	4.07666E-03	-7.64055E-01	1.48863E 01	-1.26444E 02	02
13.40	1.18189E 00	-1.39202E 01	-7.87576E-01	4.08996E-03	-7.73296E-01	1.49932E 01	-1.26691E 02	02
13.50	1.18186E 00	-1.40272E 01	-7.97141E-01	4.10305E-03	-7.82590E-01	1.51001E 01	-1.26935E 02	02
13.60	1.18183E 00	-1.41342E 01	-8.06759E-01	4.11592E-03	-7.91937E-01	1.52070E 01	-1.27178E 02	02
13.70	1.18180E 00	-1.42411E 01	-8.16430E-01	4.12859E-03	-8.01336E-01	1.53139E 01	-1.27418E 02	02
13.80	1.18177E 00	-1.43481E 01	-8.26154E-01	4.14106E-03	-8.10789E-01	1.54208E 01	-1.27656E 02	02
13.90	1.18175E 00	-1.44550E 01	-8.35931E-01	4.15334E-03	-8.20295E-01	1.55276E 01	-1.27891E 02	02
14.00	1.18172E 00	-1.45619E 01	-8.45761E-01	4.16541E-03	-8.29853E-01	1.56345E 01	-1.28124E 02	02
14.10	1.18169E 00	-1.46688E 01	-8.55643E-01	4.17730E-03	-8.39464E-01	1.57413E 01	-1.28355E 02	02
14.20	1.18166E 00	-1.47757E 01	-8.65579E-01	4.18900E-03	-8.49129E-01	1.58481E 01	-1.28585E 02	02
14.30	1.18163E 00	-1.48825E 01	-8.75567E-01	4.20051E-03	-8.58846E-01	1.59549E 01	-1.28812E 02	02
14.40	1.18161E 00	-1.49893E 01	-8.85608E-01	4.21186E-03	-8.68616E-01	1.60616E 01	-1.29037E 02	02
14.50	1.18158E 00	-1.50962E 01	-8.95702E-01	4.22303E-03	-8.78439E-01	1.61684E 01	-1.29259E 02	02
14.60	1.18155E 00	-1.52030E 01	-9.05848E-01	4.23401E-03	-8.88314E-01	1.62751E 01	-1.29481E 02	02
14.70	1.18152E 00	-1.53097E 01	-9.16048E-01	4.24484E-03	-8.98242E-01	1.63818E 01	-1.29700E 02	02
14.80	1.18150E 00	-1.54165E 01	-9.26300E-01	4.25550E-03	-9.08223E-01	1.64885E 01	-1.29917E 02	02
14.90	1.18147E 00	-1.55233E 01	-9.36605E-01	4.26600E-03	-9.18257E-01	1.65952E 01	-1.30132E 02	02
15.00	1.18144E 00	-1.56300E 01	-9.46962E-01	4.27634E-03	-9.28344E-01	1.67018E 01	-1.30345E 02	02
15.10	1.18142E 00	-1.57367E 01	-9.57373E-01	4.28653E-03	-9.38483E-01	1.68084E 01	-1.30557E 02	02
15.20	1.18139E 00	-1.58434E 01	-9.67836E-01	4.29656E-03	-9.48676E-01	1.69151E 01	-1.30767E 02	02
15.30	1.18137E 00	-1.59501E 01	-9.78352E-01	4.30644E-03	-9.58921E-01	1.70216E 01	-1.30975E 02	02
15.40	1.18134E 00	-1.60567E 01	-9.88921E-01	4.31617E-03	-9.69218E-01	1.71282E 01	-1.31181E 02	02
15.50	1.18132E 00	-1.61634E 01	-9.99542E-01	4.32576E-03	-9.79569E-01	1.72348E 01	-1.31386E 02	02
15.60	1.18129E 00	-1.62700E 01	-1.01022E 00	4.33521E-03	-9.89972E-01	1.73413E 01	-1.31589E 02	02
15.70	1.18127E 00	-1.63766E 01	-1.02094E 00	4.34452E-03	-1.00043E 00	1.74478E 01	-1.31790E 02	02
15.80	1.18125E 00	-1.64832E 01	-1.03172E 00	4.35369E-03	-1.01094E 00	1.75543E 01	-1.31990E 02	02
15.90	1.18122E 00	-1.65897E 01	-1.04255E 00	4.36274E-03	-1.02150E 00	1.76608E 01	-1.32188E 02	02
16.00	1.18120E 00	-1.66963E 01	-1.05344E 00	4.37164E-03	-1.03211E 00	1.77673E 01	-1.32385E 02	02
16.10	1.18117E 00	-1.68028E 01	-1.06438E 00	4.38042E-03	-1.04278E 00	1.78737E 01	-1.32580E 02	02
16.20	1.18115E 00	-1.69093E 01	-1.07537E 00	4.38907E-03	-1.05350E 00	1.79802E 01	-1.32774E 02	02
16.30	1.18113E 00	-1.70158E 01	-1.08641E 00	4.39760E-03	-1.06427E 00	1.80866E 01	-1.32966E 02	02
16.40	1.18110E 00	-1.71223E 01	-1.09750E 00	4.40599E-03	-1.07509E 00	1.81930E 01	-1.33157E 02	02
16.50	1.18108E 00	-1.72287E 01	-1.10865E 00	4.41428E-03	-1.08597E 00	1.82993E 01	-1.33346E 02	02
16.60	1.18106E 00	-1.73352E 01	-1.11985E 00	4.42243E-03	-1.09690E 00	1.84057E 01	-1.33534E 02	02
16.70	1.18104E 00	-1.74416E 01	-1.13110E 00	4.43048E-03	-1.10788E 00	1.85120E 01	-1.33721E 02	02
16.80	1.18101E 00	-1.75480E 01	-1.14241E 00	4.43841E-03	-1.11892E 00	1.86183E 01	-1.33906E 02	02
16.90	1.18099E 00	-1.76544E 01	-1.15377E 00	4.44623E-03	-1.13000E 00	1.87246E 01	-1.34090E 02	02
17.00	1.18097E 00	-1.77607E 01	-1.16518E 00	4.45394E-03	-1.14114E 00	1.88309E 01	-1.34272E 02	02
17.10	1.18095E 00	-1.78671E 01	-1.17664E 00	4.46153E-03	-1.15234E 00	1.89371E 01	-1.34454E 02	02
17.20	1.18093E 00	-1.79734E 01	-1.18816E 00	4.46903E-03	-1.16358E 00	1.90434E 01	-1.34633E 02	02
17.30	1.18091E 00	-1.80797E 01	-1.19972E 00	4.47641E-03	-1.17488E 00	1.91496E 01	-1.34812E 02	02
17.40	1.18089E 00	-1.81860E 01	-1.21134E 00	4.48369E-03	-1.18623E 00	1.92558E 01	-1.34990E 02	02
17.50	1.18086E 00	-1.82922E 01	-1.22302E 00	4.49087E-03	-1.19763E 00	1.93619E 01	-1.35166E 02	02
17.60	1.18084E 00	-1.83985E 01	-1.23474E 00	4.49795E-03	-1.20908E 00	1.94681E 01	-1.35341E 02	02
17.70	1.18082E 00	-1.85047E 01	-1.24652E 00	4.50493E-03	-1.22059E 00	1.95742E 01	-1.35515E 02	02
17.80	1.18080E 00	-1.86109E 01	-1.25835E 00	4.51180E-03	-1.23215E 00	1.96804E 01	-1.35688E 02	02
17.90	1.18078E 00	-1.87171E 01	-1.27023E 00	4.51859E-03	-1.24376E 00	1.97864E 01	-1.35860E 02	02
18.00	1.18076E 00	-1.88232E 01	-1.28217E 00	4.52528E-03	-1.25543E 00	1.98925E 01	-1.36030E 02	02

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$  $A = 14$  $\rho = 1.2 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	2.69042E-04	-3.79100E-01	-1.18966E-02	2.89735E 01	-1.16853E-02	4.11696E-01	-3.24011E-02
12.20	2.73503E-04	-3.85517E-01	-1.21556E-02	2.89823E 01	-1.19377E-02	4.18382E-01	-3.24078E-02
12.30	2.77999E-04	-3.91988E-01	-1.24183E-02	2.89911E 01	-1.21936E-02	4.25122E-01	-3.24145E-02
12.40	2.82533E-04	-3.98512E-01	-1.26846E-02	2.89997E 01	-1.24530E-02	4.31915E-01	-3.24210E-02
12.50	2.87103E-04	-4.05090E-01	-1.29546E-02	2.90081E 01	-1.27161E-02	4.38762E-01	-3.24275E-02
12.60	2.91709E-04	-4.11721E-01	-1.32283E-02	2.90164E 01	-1.29828E-02	4.45662E-01	-3.24339E-02
12.70	2.96353E-04	-4.18406E-01	-1.35057E-02	2.90245E 01	-1.32531E-02	4.52616E-01	-3.24402E-02
12.80	3.01033E-04	-4.25144E-01	-1.37868E-02	2.90326E 01	-1.35270E-02	4.59623E-01	-3.24464E-02
12.90	3.05749E-04	-4.31936E-01	-1.40717E-02	2.90404E 01	-1.38047E-02	4.66684E-01	-3.24525E-02
13.00	3.10503E-04	-4.38781E-01	-1.43604E-02	2.90482E 01	-1.40860E-02	4.73798E-01	-3.24585E-02
13.10	3.15293E-04	-4.45679E-01	-1.46528E-02	2.90558E 01	-1.43711E-02	4.80966E-01	-3.24645E-02
13.20	3.20119E-04	-4.52632E-01	-1.49492E-02	2.90634E 01	-1.46599E-02	4.88187E-01	-3.24704E-02
13.30	3.24982E-04	-4.59637E-01	-1.52494E-02	2.90708E 01	-1.49525E-02	4.95461E-01	-3.24762E-02
13.40	3.29882E-04	-4.66696E-01	-1.55534E-02	2.90780E 01	-1.52489E-02	5.02789E-01	-3.24819E-02
13.50	3.34819E-04	-4.73809E-01	-1.58614E-02	2.90852E 01	-1.55492E-02	5.10171E-01	-3.24876E-02
13.60	3.39792E-04	-4.80975E-01	-1.61733E-02	2.90923E 01	-1.58533E-02	5.17605E-01	-3.24932E-02
13.70	3.44802E-04	-4.88194E-01	-1.64892E-02	2.90992E 01	-1.61612E-02	5.25094E-01	-3.24987E-02
13.80	3.49848E-04	-4.95467E-01	-1.68090E-02	2.91061E 01	-1.64731E-02	5.32635E-01	-3.25041E-02
13.90	3.54932E-04	-5.02794E-01	-1.71329E-02	2.91128E 01	-1.67889E-02	5.40230E-01	-3.25095E-02
14.00	3.60051E-04	-5.10173E-01	-1.74608E-02	2.91195E 01	-1.71086E-02	5.47879E-01	-3.25148E-02
14.10	3.65208E-04	-5.17606E-01	-1.77927E-02	2.91260E 01	-1.74323E-02	5.55581E-01	-3.25200E-02
14.20	3.70401E-04	-5.25093E-01	-1.81287E-02	2.91324E 01	-1.77600E-02	5.63336E-01	-3.25252E-02
14.30	3.75631E-04	-5.32633E-01	-1.84688E-02	2.91388E 01	-1.80918E-02	5.71144E-01	-3.25303E-02
14.40	3.80897E-04	-5.40226E-01	-1.88130E-02	2.91451E 01	-1.84275E-02	5.79006E-01	-3.25354E-02
14.50	3.86201E-04	-5.47873E-01	-1.91614E-02	2.91512E 01	-1.87674E-02	5.86921E-01	-3.25404E-02
14.60	3.91540E-04	-5.55573E-01	-1.95139E-02	2.91573E 01	-1.91113E-02	5.94890E-01	-3.25453E-02
14.70	3.96917E-04	-5.63327E-01	-1.98707E-02	2.91633E 01	-1.94593E-02	6.02912E-01	-3.25501E-02
14.80	4.02330E-04	-5.71133E-01	-2.02316E-02	2.91692E 01	-1.98115E-02	6.10987E-01	-3.25550E-02
14.90	4.07779E-04	-5.78993E-01	-2.05968E-02	2.91750E 01	-2.01678E-02	6.19115E-01	-3.25597E-02
15.00	4.13266E-04	-5.86907E-01	-2.09663E-02	2.91808E 01	-2.05283E-02	6.27297E-01	-3.25644E-02
15.10	4.18789E-04	-5.94874E-01	-2.13400E-02	2.91864E 01	-2.08930E-02	6.35532E-01	-3.25690E-02
15.20	4.24349E-04	-6.02894E-01	-2.17181E-02	2.91920E 01	-2.12620E-02	6.43821E-01	-3.25736E-02
15.30	4.29945E-04	-6.10967E-01	-2.21005E-02	2.91975E 01	-2.16352E-02	6.52162E-01	-3.25781E-02
15.40	4.35578E-04	-6.19094E-01	-2.24872E-02	2.92030E 01	-2.20127E-02	6.60557E-01	-3.25826E-02
15.50	4.41247E-04	-6.27274E-01	-2.28784E-02	2.92083E 01	-2.23945E-02	6.69005E-01	-3.25870E-02
15.60	4.46954E-04	-6.35507E-01	-2.32739E-02	2.92136E 01	-2.27806E-02	6.77507E-01	-3.25914E-02
15.70	4.52697E-04	-6.43794E-01	-2.36739E-02	2.92189E 01	-2.31711E-02	6.86061E-01	-3.25957E-02
15.80	4.58476E-04	-6.52134E-01	-2.40784E-02	2.92240E 01	-2.35659E-02	6.94670E-01	-3.26000E-02
15.90	4.64293E-04	-6.60527E-01	-2.44873E-02	2.92291E 01	-2.39652E-02	7.03331E-01	-3.26043E-02
16.00	4.70145E-04	-6.68973E-01	-2.49007E-02	2.92341E 01	-2.43688E-02	7.12045E-01	-3.26084E-02
16.10	4.76035E-04	-6.77473E-01	-2.53186E-02	2.92391E 01	-2.47769E-02	7.20812E-01	-3.26126E-02
16.20	4.81961E-04	-6.86025E-01	-2.57411E-02	2.92439E 01	-2.51895E-02	7.29633E-01	-3.26166E-02
16.30	4.87924E-04	-6.94631E-01	-2.61682E-02	2.92488E 01	-2.56066E-02	7.38507E-01	-3.26207E-02
16.40	4.93923E-04	-7.03290E-01	-2.65999E-02	2.92535E 01	-2.60282E-02	7.47434E-01	-3.26247E-02
16.50	4.99959E-04	-7.12003E-01	-2.70362E-02	2.92582E 01	-2.64544E-02	7.56414E-01	-3.26286E-02
16.60	5.06032E-04	-7.20769E-01	-2.74771E-02	2.92629E 01	-2.68851E-02	7.65448E-01	-3.26326E-02
16.70	5.12141E-04	-7.29587E-01	-2.79227E-02	2.92675E 01	-2.73204E-02	7.74535E-01	-3.26364E-02
16.80	5.18287E-04	-7.38459E-01	-2.83730E-02	2.92720E 01	-2.77603E-02	7.83674E-01	-3.26402E-02
16.90	5.24470E-04	-7.47385E-01	-2.88281E-02	2.92765E 01	-2.82048E-02	7.92867E-01	-3.26440E-02
17.00	5.30689E-04	-7.56363E-01	-2.92878E-02	2.92809E 01	-2.86540E-02	8.02113E-01	-3.26478E-02
17.10	5.36945E-04	-7.65394E-01	-2.97524E-02	2.92853E 01	-2.91079E-02	8.11412E-01	-3.26515E-02
17.20	5.43238E-04	-7.74479E-01	-3.02217E-02	2.92896E 01	-2.95665E-02	8.20764E-01	-3.26551E-02
17.30	5.49567E-04	-7.83616E-01	-3.06958E-02	2.92938E 01	-3.00298E-02	8.30170E-01	-3.26588E-02
17.40	5.55933E-04	-7.92807E-01	-3.11748E-02	2.92980E 01	-3.04979E-02	8.39628E-01	-3.26624E-02
17.50	5.62336E-04	-8.02051E-01	-3.16586E-02	2.93022E 01	-3.09708E-02	8.49140E-01	-3.26659E-02
17.60	5.68775E-04	-8.11348E-01	-3.21473E-02	2.93063E 01	-3.14484E-02	8.58704E-01	-3.26694E-02
17.70	5.75251E-04	-8.20698E-01	-3.26409E-02	2.93104E 01	-3.19309E-02	8.68322E-01	-3.26729E-02
17.80	5.81763E-04	-8.30102E-01	-3.31394E-02	2.93144E 01	-3.24183E-02	8.77992E-01	-3.26764E-02
17.90	5.88312E-04	-8.39558E-01	-3.36429E-02	2.93183E 01	-3.29105E-02	8.87716E-01	-3.26798E-02
18.00	5.94898E-04	-8.49067E-01	-3.41514E-02	2.93223E 01	-3.34076E-02	8.97493E-01	-3.26831E-02



ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.2A^{1/3}F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
18.10	1.18074E 00	-1.89294E 01	-1.29416E 00	4.53188E-03	-1.26715E 00	1.99986E 01	-1.36200E 02			
18.20	1.18072E 00	-1.90356E 01	-1.30620E 00	4.53838E-03	-1.27892E 00	2.01046E 01	-1.36368E 02			
18.30	1.18070E 00	-1.91417E 01	-1.31829E 00	4.54481E-03	-1.29074E 00	2.02106E 01	-1.36536E 02			
18.40	1.18068E 00	-1.92478E 01	-1.33043E 00	4.55113E-03	-1.30261E 00	2.03166E 01	-1.36702E 02			
18.50	1.18066E 00	-1.93538E 01	-1.34263E 00	4.55736E-03	-1.31454E 00	2.04226E 01	-1.36867E 02			
18.60	1.18064E 00	-1.94599E 01	-1.35488E 00	4.56352E-03	-1.32652E 00	2.05286E 01	-1.37032E 02			
18.70	1.18062E 00	-1.95659E 01	-1.36718E 00	4.56958E-03	-1.33855E 00	2.06345E 01	-1.37195E 02			
18.80	1.18060E 00	-1.96719E 01	-1.37954E 00	4.57557E-03	-1.35063E 00	2.07404E 01	-1.37357E 02			
18.90	1.18059E 00	-1.97779E 01	-1.39194E 00	4.58147E-03	-1.36277E 00	2.08463E 01	-1.37518E 02			
19.00	1.18057E 00	-1.98839E 01	-1.40440E 00	4.58729E-03	-1.37496E 00	2.09522E 01	-1.37679E 02			
19.10	1.18055E 00	-1.99899E 01	-1.41691E 00	4.59303E-03	-1.38720E 00	2.10581E 01	-1.37838E 02			
19.20	1.18053E 00	-2.00958E 01	-1.42947E 00	4.59869E-03	-1.39949E 00	2.11639E 01	-1.37997E 02			
19.30	1.18051E 00	-2.02017E 01	-1.44209E 00	4.60428E-03	-1.41183E 00	2.12697E 01	-1.38154E 02			
19.40	1.18049E 00	-2.03076E 01	-1.45476E 00	4.60978E-03	-1.42423E 00	2.13755E 01	-1.38311E 02			
19.50	1.18047E 00	-2.04135E 01	-1.46748E 00	4.61521E-03	-1.43668E 00	2.14813E 01	-1.38467E 02			
19.60	1.18046E 00	-2.05193E 01	-1.48025E 00	4.62057E-03	-1.44918E 00	2.15870E 01	-1.38622E 02			
19.70	1.18044E 00	-2.06251E 01	-1.49307E 00	4.62585E-03	-1.46174E 00	2.16928E 01	-1.38776E 02			
19.80	1.18042E 00	-2.07310E 01	-1.50595E 00	4.63106E-03	-1.47434E 00	2.17985E 01	-1.38929E 02			
19.90	1.18040E 00	-2.08367E 01	-1.51888E 00	4.63621E-03	-1.48700E 00	2.19042E 01	-1.39082E 02			
20.00	1.18038E 00	-2.09425E 01	-1.53186E 00	4.64126E-03	-1.49971E 00	2.20098E 01	-1.39234E 02			
20.10	1.18037E 00	-2.10483E 01	-1.54489E 00	4.64626E-03	-1.51247E 00	2.21155E 01	-1.39385E 02			
20.20	1.18035E 00	-2.11540E 01	-1.55797E 00	4.65119E-03	-1.52529E 00	2.22211E 01	-1.39535E 02			
20.30	1.18033E 00	-2.12597E 01	-1.57111E 00	4.65605E-03	-1.53816E 00	2.23267E 01	-1.39684E 02			
20.40	1.18031E 00	-2.13654E 01	-1.58430E 00	4.66085E-03	-1.55108E 00	2.24323E 01	-1.39833E 02			
20.50	1.18030E 00	-2.14711E 01	-1.59754E 00	4.66557E-03	-1.56405E 00	2.25379E 01	-1.39981E 02			
20.60	1.18028E 00	-2.15767E 01	-1.61084E 00	4.67024E-03	-1.57707E 00	2.26434E 01	-1.40128E 02			
20.70	1.18026E 00	-2.16823E 01	-1.62418E 00	4.67484E-03	-1.59015E 00	2.27490E 01	-1.40274E 02			
20.80	1.18025E 00	-2.17879E 01	-1.63758E 00	4.67938E-03	-1.60327E 00	2.28545E 01	-1.40420E 02			
20.90	1.18023E 00	-2.18935E 01	-1.65103E 00	4.68384E-03	-1.61645E 00	2.29599E 01	-1.40565E 02			
21.00	1.18021E 00	-2.19991E 01	-1.66453E 00	4.68825E-03	-1.62969E 00	2.30654E 01	-1.40709E 02			
21.10	1.18020E 00	-2.21046E 01	-1.67808E 00	4.69261E-03	-1.64297E 00	2.31709E 01	-1.40852E 02			
21.20	1.18018E 00	-2.22101E 01	-1.69169E 00	4.69689E-03	-1.65630E 00	2.32763E 01	-1.40995E 02			
21.30	1.18016E 00	-2.23156E 01	-1.70535E 00	4.70112E-03	-1.66969E 00	2.33817E 01	-1.41138E 02			
21.40	1.18015E 00	-2.24211E 01	-1.71905E 00	4.70529E-03	-1.68313E 00	2.34870E 01	-1.41279E 02			
21.50	1.18013E 00	-2.25266E 01	-1.73282E 00	4.70940E-03	-1.69662E 00	2.35924E 01	-1.41420E 02			
21.60	1.18012E 00	-2.26320E 01	-1.74663E 00	4.71346E-03	-1.71017E 00	2.36977E 01	-1.41560E 02			
21.70	1.18010E 00	-2.27374E 01	-1.76049E 00	4.71746E-03	-1.72376E 00	2.38030E 01	-1.41700E 02			
21.80	1.18008E 00	-2.28428E 01	-1.77441E 00	4.72140E-03	-1.73741E 00	2.39083E 01	-1.41839E 02			
21.90	1.18007E 00	-2.29482E 01	-1.78838E 00	4.72529E-03	-1.75111E 00	2.40136E 01	-1.41978E 02			
22.00	1.18005E 00	-2.30535E 01	-1.80240E 00	4.72912E-03	-1.76486E 00	2.41188E 01	-1.42116E 02			
22.10	1.18004E 00	-2.31589E 01	-1.81648E 00	4.73290E-03	-1.77867E 00	2.42241E 01	-1.42253E 02			
22.20	1.18002E 00	-2.32642E 01	-1.83060E 00	4.73662E-03	-1.79252E 00	2.43293E 01	-1.42390E 02			
22.30	1.18000E 00	-2.33695E 01	-1.84478E 00	4.74029E-03	-1.80643E 00	2.44345E 01	-1.42526E 02			
22.40	1.17999E 00	-2.34747E 01	-1.85901E 00	4.74391E-03	-1.82039E 00	2.45396E 01	-1.42662E 02			
22.50	1.17997E 00	-2.35800E 01	-1.87329E 00	4.74748E-03	-1.83440E 00	2.46448E 01	-1.42797E 02			
22.60	1.17996E 00	-2.36852E 01	-1.88762E 00	4.75100E-03	-1.84846E 00	2.47499E 01	-1.42932E 02			
22.70	1.17994E 00	-2.37904E 01	-1.90200E 00	4.75447E-03	-1.86258E 00	2.48550E 01	-1.43065E 02			
22.80	1.17993E 00	-2.38956E 01	-1.91644E 00	4.75788E-03	-1.87674E 00	2.49600E 01	-1.43199E 02			
22.90	1.17991E 00	-2.40007E 01	-1.93092E 00	4.76125E-03	-1.89096E 00	2.50651E 01	-1.43332E 02			
23.00	1.17990E 00	-2.41059E 01	-1.94546E 00	4.76458E-03	-1.90523E 00	2.51701E 01	-1.43465E 02			
23.10	1.17988E 00	-2.42110E 01	-1.96005E 00	4.76784E-03	-1.91955E 00	2.52751E 01	-1.43597E 02			
23.20	1.17987E 00	-2.43161E 01	-1.97470E 00	4.77107E-03	-1.93392E 00	2.53801E 01	-1.43728E 02			
23.30	1.17986E 00	-2.44211E 01	-1.98939E 00	4.77425E-03	-1.94835E 00	2.54851E 01	-1.43859E 02			
23.40	1.17984E 00	-2.45262E 01	-2.00414E 00	4.77737E-03	-1.96283E 00	2.55900E 01	-1.43990E 02			
23.50	1.17983E 00	-2.46312E 01	-2.01894E 00	4.78046E-03	-1.97736E 00	2.56949E 01	-1.44120E 02			
23.60	1.17981E 00	-2.47362E 01	-2.03379E 00	4.78350E-03	-1.99194E 00	2.57998E 01	-1.44250E 02			
23.70	1.17980E 00	-2.48412E 01	-2.04869E 00	4.78649E-03	-2.00657E 00	2.59047E 01	-1.44379E 02			
23.80	1.17978E 00	-2.49461E 01	-2.06364E 00	4.78944E-03	-2.02125E 00	2.60095E 01	-1.44508E 02			
23.90	1.17977E 00	-2.50510E 01	-2.07864E 00	4.79235E-03	-2.03599E 00	2.61143E 01	-1.44636E 02			
24.00	1.17975E 00	-2.51560E 01	-2.09370E 00	4.79521E-03	-2.05077E 00	2.62191E 01	-1.44764E 02			

ELECTRON RADIAL FUNCTIONS

	$Z=7$	$A=14$	$\rho=1.2 A^{1/3} F$				Electron
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	6.01521E-04	-8.58630E-01	-3.46649E-02	2.93261E 01	-3.39097E-02	9.07323E-01	-3.26865E-02
18.20	6.08180E-04	-8.68246E-01	-3.51834E-02	2.93300E 01	-3.44167E-02	9.17206E-01	-3.26898E-02
18.30	6.14876E-04	-8.77914E-01	-3.57070E-02	2.93338E 01	-3.49286E-02	9.27142E-01	-3.26931E-02
18.40	6.21608E-04	-8.87636E-01	-3.62356E-02	2.93375E 01	-3.54455E-02	9.37113E-01	-3.26963E-02
18.50	6.28377E-04	-8.97411E-01	-3.67693E-02	2.93412E 01	-3.59675E-02	9.47172E-01	-3.26995E-02
18.60	6.35182E-04	-9.07238E-01	-3.73082E-02	2.93449E 01	-3.64945E-02	9.57267E-01	-3.27027E-02
18.70	6.42025E-04	-9.17119E-01	-3.78521E-02	2.93485E 01	-3.70266E-02	9.67415E-01	-3.27058E-02
18.80	6.48904E-04	-9.27052E-01	-3.84013E-02	2.93521E 01	-3.75637E-02	9.77615E-01	-3.27090E-02
18.90	6.55819E-04	-9.37039E-01	-3.89556E-02	2.93556E 01	-3.81060E-02	9.87869E-01	-3.27120E-02
19.00	6.62771E-04	-9.47078E-01	-3.95152E-02	2.93591E 01	-3.86533E-02	9.98176E-01	-3.27151E-02
19.10	6.69760E-04	-9.57170E-01	-4.00800E-02	2.93626E 01	-3.92059E-02	1.00853E 00	-3.27181E-02
19.20	6.76785E-04	-9.67316E-01	-4.06500E-02	2.93660E 01	-3.97636E-02	1.01895E 00	-3.27211E-02
19.30	6.83847E-04	-9.77514E-01	-4.12254E-02	2.93694E 01	-4.03265E-02	1.02941E 00	-3.27241E-02
19.40	6.90946E-04	-9.87766E-01	-4.18060E-02	2.93727E 01	-4.08947E-02	1.03993E 00	-3.27270E-02
19.50	6.98081E-04	-9.98070E-01	-4.23920E-02	2.93761E 01	-4.14681E-02	1.05050E 00	-3.27300E-02
19.60	7.05253E-04	-1.00843E 00	-4.29833E-02	2.93794E 01	-4.20468E-02	1.06113E 00	-3.27328E-02
19.70	7.12462E-04	-1.01884E 00	-4.35800E-02	2.93826E 01	-4.26308E-02	1.07180E 00	-3.27357E-02
19.80	7.19707E-04	-1.02930E 00	-4.41821E-02	2.93858E 01	-4.32201E-02	1.08253E 00	-3.27385E-02
19.90	7.26989E-04	-1.03982E 00	-4.47897E-02	2.93890E 01	-4.38148E-02	1.09331E 00	-3.27413E-02
20.00	7.34308E-04	-1.05038E 00	-4.54027E-02	2.93921E 01	-4.44148E-02	1.10415E 00	-3.27441E-02
20.10	7.41663E-04	-1.06101E 00	-4.60211E-02	2.93953E 01	-4.50202E-02	1.11504E 00	-3.27469E-02
20.20	7.49055E-04	-1.07168E 00	-4.66451E-02	2.93983E 01	-4.56310E-02	1.12598E 00	-3.27496E-02
20.30	7.56483E-04	-1.08241E 00	-4.72746E-02	2.94014E 01	-4.62473E-02	1.13697E 00	-3.27523E-02
20.40	7.63948E-04	-1.09319E 00	-4.79096E-02	2.94044E 01	-4.68691E-02	1.14802E 00	-3.27550E-02
20.50	7.71450E-04	-1.10402E 00	-4.85502E-02	2.94074E 01	-4.74963E-02	1.15912E 00	-3.27576E-02
20.60	7.78988E-04	-1.11491E 00	-4.91964E-02	2.94104E 01	-4.81290E-02	1.17027E 00	-3.27603E-02
20.70	7.86563E-04	-1.12584E 00	-4.98482E-02	2.94133E 01	-4.87673E-02	1.18148E 00	-3.27629E-02
20.80	7.94175E-04	-1.13683E 00	-5.05056E-02	2.94162E 01	-4.94111E-02	1.19273E 00	-3.27655E-02
20.90	8.01823E-04	-1.14788E 00	-5.11687E-02	2.94191E 01	-5.00606E-02	1.20404E 00	-3.27680E-02
21.00	8.09508E-04	-1.15898E 00	-5.18375E-02	2.94219E 01	-5.07156E-02	1.21541E 00	-3.27706E-02
21.10	8.17229E-04	-1.17012E 00	-5.25120E-02	2.94247E 01	-5.13762E-02	1.22682E 00	-3.27731E-02
21.20	8.24987E-04	-1.18133E 00	-5.31923E-02	2.94275E 01	-5.20425E-02	1.23829E 00	-3.27756E-02
21.30	8.32782E-04	-1.19258E 00	-5.38782E-02	2.94303E 01	-5.27145E-02	1.24981E 00	-3.27781E-02
21.40	8.40613E-04	-1.20389E 00	-5.45700E-02	2.94330E 01	-5.33922E-02	1.26139E 00	-3.27805E-02
21.50	8.48482E-04	-1.21525E 00	-5.52676E-02	2.94357E 01	-5.40756E-02	1.27301E 00	-3.27830E-02
21.60	8.56386E-04	-1.22666E 00	-5.59710E-02	2.94384E 01	-5.47647E-02	1.28469E 00	-3.27854E-02
21.70	8.64328E-04	-1.23813E 00	-5.66802E-02	2.94411E 01	-5.54596E-02	1.29642E 00	-3.27878E-02
21.80	8.72305E-04	-1.24965E 00	-5.73953E-02	2.94437E 01	-5.61603E-02	1.30821E 00	-3.27901E-02
21.90	8.80320E-04	-1.26122E 00	-5.81163E-02	2.94463E 01	-5.68669E-02	1.32005E 00	-3.27925E-02
22.00	8.88371E-04	-1.27284E 00	-5.88433E-02	2.94489E 01	-5.75792E-02	1.33194E 00	-3.27948E-02
22.10	8.96459E-04	-1.28452E 00	-5.95761E-02	2.94514E 01	-5.82975E-02	1.34388E 00	-3.27971E-02
22.20	9.04584E-04	-1.29625E 00	-6.03150E-02	2.94540E 01	-5.90216E-02	1.35587E 00	-3.27994E-02
22.30	9.12745E-04	-1.30803E 00	-6.10598E-02	2.94565E 01	-5.97516E-02	1.36792E 00	-3.28017E-02
22.40	9.20943E-04	-1.31986E 00	-6.18107E-02	2.94590E 01	-6.04876E-02	1.38002E 00	-3.28039E-02
22.50	9.29177E-04	-1.33175E 00	-6.25675E-02	2.94614E 01	-6.12295E-02	1.39217E 00	-3.28062E-02
22.60	9.37448E-04	-1.34369E 00	-6.33305E-02	2.94639E 01	-6.19774E-02	1.40438E 00	-3.28084E-02
22.70	9.45756E-04	-1.35568E 00	-6.40995E-02	2.94663E 01	-6.27313E-02	1.41664E 00	-3.28106E-02
22.80	9.54100E-04	-1.36773E 00	-6.48747E-02	2.94687E 01	-6.34912E-02	1.42895E 00	-3.28128E-02
22.90	9.62481E-04	-1.37982E 00	-6.56559E-02	2.94711E 01	-6.42572E-02	1.44131E 00	-3.28149E-02
23.00	9.70898E-04	-1.39197E 00	-6.64433E-02	2.94734E 01	-6.50292E-02	1.45373E 00	-3.28171E-02
23.10	9.79352E-04	-1.40418E 00	-6.72369E-02	2.94757E 01	-6.58074E-02	1.46619E 00	-3.28192E-02
23.20	9.87843E-04	-1.41643E 00	-6.80367E-02	2.94780E 01	-6.65917E-02	1.47871E 00	-3.28213E-02
23.30	9.96371E-04	-1.42874E 00	-6.88427E-02	2.94803E 01	-6.73821E-02	1.49129E 00	-3.28234E-02
23.40	1.00493E-03	-1.44110E 00	-6.96550E-02	2.94826E 01	-6.81787E-02	1.50391E 00	-3.28255E-02
23.50	1.01354E-03	-1.45351E 00	-7.04736E-02	2.94849E 01	-6.89815E-02	1.51659E 00	-3.28275E-02
23.60	1.02217E-03	-1.46598E 00	-7.12984E-02	2.94871E 01	-6.97904E-02	1.52932E 00	-3.28296E-02
23.70	1.03085E-03	-1.47849E 00	-7.21296E-02	2.94893E 01	-7.06057E-02	1.54210E 00	-3.28316E-02
23.80	1.03956E-03	-1.49106E 00	-7.29671E-02	2.94915E 01	-7.14272E-02	1.55494E 00	-3.28336E-02
23.90	1.04830E-03	-1.50368E 00	-7.38109E-02	2.94937E 01	-7.22549E-02	1.56783E 00	-3.28356E-02
24.00	1.05709E-03	-1.51636E 00	-7.46611E-02	2.94958E 01	-7.30890E-02	1.58077E 00	-3.28376E-02



ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
24.10	1.17974E 00	-2.52609E 01	-2.10881E 00	4.79802E-03	-2.06561E 00	2.63239E 01	-1.44892E 02	
24.20	1.17973E 00	-2.53657E 01	-2.12397E 00	4.80080E-03	-2.08050E 00	2.64287E 01	-1.45019E 02	
24.30	1.17971E 00	-2.54706E 01	-2.13918E 00	4.80354E-03	-2.09545E 00	2.65334E 01	-1.45145E 02	
24.40	1.17970E 00	-2.55754E 01	-2.15444E 00	4.80623E-03	-2.11044E 00	2.66381E 01	-1.45272E 02	
24.50	1.17968E 00	-2.56802E 01	-2.16975E 00	4.80887E-03	-2.12548E 00	2.67428E 01	-1.45398E 02	
24.60	1.17967E 00	-2.57849E 01	-2.18512E 00	4.81149E-03	-2.14058E 00	2.68475E 01	-1.45523E 02	
24.70	1.17966E 00	-2.58897E 01	-2.20054E 00	4.81406E-03	-2.15573E 00	2.69521E 01	-1.45648E 02	
24.80	1.17964E 00	-2.59944E 01	-2.21600E 00	4.81659E-03	-2.17093E 00	2.70567E 01	-1.45773E 02	
24.90	1.17963E 00	-2.60991E 01	-2.23152E 00	4.81908E-03	-2.18618E 00	2.71613E 01	-1.45897E 02	
25.00	1.17962E 00	-2.62038E 01	-2.24710E 00	4.82153E-03	-2.20148E 00	2.72659E 01	-1.46021E 02	
25.10	1.17960E 00	-2.63085E 01	-2.26272E 00	4.82393E-03	-2.21684E 00	2.73704E 01	-1.46145E 02	
25.20	1.17959E 00	-2.64131E 01	-2.27839E 00	4.82630E-03	-2.23224E 00	2.74750E 01	-1.46268E 02	
25.30	1.17958E 00	-2.65177E 01	-2.29412E 00	4.82864E-03	-2.24770E 00	2.75794E 01	-1.46391E 02	
25.40	1.17956E 00	-2.66223E 01	-2.30990E 00	4.83094E-03	-2.26321E 00	2.76839E 01	-1.46514E 02	
25.50	1.17955E 00	-2.67269E 01	-2.32572E 00	4.83320E-03	-2.27877E 00	2.77884E 01	-1.46636E 02	
25.60	1.17954E 00	-2.68314E 01	-2.34160E 00	4.83541E-03	-2.29438E 00	2.78928E 01	-1.46758E 02	
25.70	1.17952E 00	-2.69359E 01	-2.35754E 00	4.83761E-03	-2.31004E 00	2.79972E 01	-1.46880E 02	
25.80	1.17951E 00	-2.70404E 01	-2.37352E 00	4.83976E-03	-2.32576E 00	2.81016E 01	-1.47001E 02	
25.90	1.17950E 00	-2.71449E 01	-2.38955E 00	4.84187E-03	-2.34152E 00	2.82059E 01	-1.47122E 02	
26.00	1.17948E 00	-2.72493E 01	-2.40564E 00	4.84394E-03	-2.35734E 00	2.83103E 01	-1.47243E 02	
26.10	1.17947E 00	-2.73538E 01	-2.42177E 00	4.84598E-03	-2.37321E 00	2.84146E 01	-1.47363E 02	
26.20	1.17946E 00	-2.74582E 01	-2.43796E 00	4.84800E-03	-2.38913E 00	2.85189E 01	-1.47484E 02	
26.30	1.17945E 00	-2.75625E 01	-2.45420E 00	4.84996E-03	-2.40510E 00	2.86231E 01	-1.47604E 02	
26.40	1.17943E 00	-2.76669E 01	-2.47049E 00	4.85190E-03	-2.42112E 00	2.87274E 01	-1.47723E 02	
26.50	1.17942E 00	-2.77712E 01	-2.48683E 00	4.85380E-03	-2.43719E 00	2.88316E 01	-1.47842E 02	
26.60	1.17941E 00	-2.78755E 01	-2.50323E 00	4.85568E-03	-2.45332E 00	2.89358E 01	-1.47961E 02	
26.70	1.17940E 00	-2.79798E 01	-2.51967E 00	4.85751E-03	-2.46949E 00	2.90399E 01	-1.48080E 02	
26.80	1.17938E 00	-2.80840E 01	-2.53617E 00	4.85931E-03	-2.48572E 00	2.91441E 01	-1.48199E 02	
26.90	1.17937E 00	-2.81883E 01	-2.55271E 00	4.86108E-03	-2.50200E 00	2.92482E 01	-1.48317E 02	
27.00	1.17936E 00	-2.82925E 01	-2.56931E 00	4.86282E-03	-2.51833E 00	2.93523E 01	-1.48435E 02	
27.10	1.17935E 00	-2.83967E 01	-2.58596E 00	4.86453E-03	-2.53471E 00	2.94564E 01	-1.48553E 02	
27.20	1.17933E 00	-2.85008E 01	-2.60266E 00	4.86620E-03	-2.55114E 00	2.95604E 01	-1.48670E 02	
27.30	1.17932E 00	-2.86050E 01	-2.61941E 00	4.86785E-03	-2.56762E 00	2.96644E 01	-1.48788E 02	
27.40	1.17931E 00	-2.87091E 01	-2.63621E 00	4.86946E-03	-2.58416E 00	2.97684E 01	-1.48904E 02	
27.50	1.17930E 00	-2.88132E 01	-2.65307E 00	4.87104E-03	-2.60074E 00	2.98724E 01	-1.49021E 02	
27.60	1.17929E 00	-2.89172E 01	-2.66997E 00	4.87259E-03	-2.61738E 00	2.99763E 01	-1.49138E 02	
27.70	1.17927E 00	-2.90213E 01	-2.68693E 00	4.87411E-03	-2.63407E 00	3.00803E 01	-1.49254E 02	
27.80	1.17926E 00	-2.91253E 01	-2.70393E 00	4.87560E-03	-2.65081E 00	3.01842E 01	-1.49370E 02	
27.90	1.17925E 00	-2.92293E 01	-2.72099E 00	4.87705E-03	-2.66760E 00	3.02880E 01	-1.49487E 02	
28.00	1.17924E 00	-2.93332E 01	-2.73810E 00	4.87848E-03	-2.68444E 00	3.03919E 01	-1.49602E 02	
28.10	1.17923E 00	-2.94372E 01	-2.75526E 00	4.87988E-03	-2.70133E 00	3.04957E 01	-1.49718E 02	
28.20	1.17921E 00	-2.95411E 01	-2.77247E 00	4.88125E-03	-2.71827E 00	3.05995E 01	-1.49833E 02	
28.30	1.17920E 00	-2.96450E 01	-2.78973E 00	4.88260E-03	-2.73527E 00	3.07033E 01	-1.49948E 02	
28.40	1.17919E 00	-2.97488E 01	-2.80704E 00	4.88390E-03	-2.75231E 00	3.08070E 01	-1.50063E 02	
28.50	1.17918E 00	-2.98527E 01	-2.82441E 00	4.88518E-03	-2.76941E 00	3.09107E 01	-1.50178E 02	
28.60	1.17917E 00	-2.99565E 01	-2.84182E 00	4.88644E-03	-2.78655E 00	3.10144E 01	-1.50293E 02	
28.70	1.17916E 00	-3.00603E 01	-2.85929E 00	4.88767E-03	-2.80375E 00	3.11181E 01	-1.50407E 02	
28.80	1.17915E 00	-3.01640E 01	-2.87680E 00	4.88886E-03	-2.82100E 00	3.12217E 01	-1.50521E 02	
28.90	1.17913E 00	-3.02678E 01	-2.89437E 00	4.89003E-03	-2.83830E 00	3.13253E 01	-1.50635E 02	
29.00	1.17912E 00	-3.03715E 01	-2.91199E 00	4.89117E-03	-2.85565E 00	3.14289E 01	-1.50749E 02	
29.10	1.17911E 00	-3.04752E 01	-2.92966E 00	4.89229E-03	-2.87305E 00	3.15325E 01	-1.50863E 02	
29.20	1.17910E 00	-3.05788E 01	-2.94738E 00	4.89338E-03	-2.89050E 00	3.16361E 01	-1.50977E 02	
29.30	1.17909E 00	-3.06825E 01	-2.96515E 00	4.89444E-03	-2.90801E 00	3.17396E 01	-1.51090E 02	
29.40	1.17908E 00	-3.07861E 01	-2.98297E 00	4.89548E-03	-2.92556E 00	3.18431E 01	-1.51203E 02	
29.50	1.17907E 00	-3.08897E 01	-3.00084E 00	4.89649E-03	-2.94316E 00	3.19465E 01	-1.51317E 02	
29.60	1.17906E 00	-3.09932E 01	-3.01876E 00	4.89748E-03	-2.96082E 00	3.20500E 01	-1.51429E 02	
29.70	1.17904E 00	-3.10968E 01	-3.03674E 00	4.89843E-03	-2.97853E 00	3.21534E 01	-1.51542E 02	
29.80	1.17903E 00	-3.12003E 01	-3.05476E 00	4.89937E-03	-2.99628E 00	3.22568E 01	-1.51655E 02	
29.90	1.17902E 00	-3.13037E 01	-3.07284E 00	4.90028E-03	-3.01409E 00	3.23601E 01	-1.51768E 02	
30.00	1.17901E 00	-3.14072E 01	-3.09096E 00	4.90115E-03	-3.03195E 00	3.24635E 01	-1.51880E 02	

## ELECTRON RADIAL FUNCTIONS

	$Z = 7$	$A = 14$	$\rho = 1.2 A^{1/3} F$	Electron				
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
24.10	1.06591E-03	-1.52909E 00	-7.55178E-02	2.94980E 01	-7.39295E-02	1.59376E 00	-3.28396E-02	
24.20	1.07477E-03	-1.54187E 00	-7.63809E-02	2.95001E 01	-7.47762E-02	1.60680E 00	-3.28415E-02	
24.30	1.08366E-03	-1.55470E 00	-7.72505E-02	2.95022E 01	-7.56294E-02	1.61990E 00	-3.28435E-02	
24.40	1.09259E-03	-1.56758E 00	-7.81265E-02	2.95043E 01	-7.64889E-02	1.63305E 00	-3.28454E-02	
24.50	1.10156E-03	-1.58052E 00	-7.90091E-02	2.95063E 01	-7.73549E-02	1.64625E 00	-3.28473E-02	
24.60	1.11056E-03	-1.59351E 00	-7.98981E-02	2.95084E 01	-7.82273E-02	1.65951E 00	-3.28492E-02	
24.70	1.11960E-03	-1.60655E 00	-8.07937E-02	2.95104E 01	-7.91062E-02	1.67281E 00	-3.28511E-02	
24.80	1.12868E-03	-1.61964E 00	-8.16959E-02	2.95124E 01	-7.99916E-02	1.68617E 00	-3.28529E-02	
24.90	1.13779E-03	-1.63279E 00	-8.26047E-02	2.95144E 01	-8.08835E-02	1.69958E 00	-3.28548E-02	
25.00	1.14694E-03	-1.64599E 00	-8.35201E-02	2.95164E 01	-8.17819E-02	1.71305E 00	-3.28566E-02	
25.10	1.15613E-03	-1.65924E 00	-8.44422E-02	2.95184E 01	-8.26870E-02	1.72656E 00	-3.28584E-02	
25.20	1.16535E-03	-1.67254E 00	-8.53709E-02	2.95203E 01	-8.35985E-02	1.74013E 00	-3.28602E-02	
25.30	1.17461E-03	-1.68590E 00	-8.63063E-02	2.95222E 01	-8.45168E-02	1.75375E 00	-3.28620E-02	
25.40	1.18391E-03	-1.69930E 00	-8.72484E-02	2.95241E 01	-8.54416E-02	1.76742E 00	-3.28638E-02	
25.50	1.19324E-03	-1.71276E 00	-8.81972E-02	2.95260E 01	-8.63731E-02	1.78115E 00	-3.28656E-02	
25.60	1.20261E-03	-1.72627E 00	-8.91528E-02	2.95279E 01	-8.73113E-02	1.79492E 00	-3.28673E-02	
25.70	1.21202E-03	-1.73984E 00	-9.01152E-02	2.95298E 01	-8.82561E-02	1.80875E 00	-3.28691E-02	
25.80	1.22146E-03	-1.75346E 00	-9.10844E-02	2.95317E 01	-8.92077E-02	1.82263E 00	-3.28708E-02	
25.90	1.23094E-03	-1.76712E 00	-9.20605E-02	2.95335E 01	-9.01661E-02	1.83657E 00	-3.28725E-02	
26.00	1.24046E-03	-1.78085E 00	-9.30434E-02	2.95353E 01	-9.11312E-02	1.85055E 00	-3.28742E-02	
26.10	1.25001E-03	-1.79462E 00	-9.40331E-02	2.95371E 01	-9.21032E-02	1.86459E 00	-3.28759E-02	
26.20	1.25960E-03	-1.80844E 00	-9.50298E-02	2.95389E 01	-9.30819E-02	1.87868E 00	-3.28776E-02	
26.30	1.26922E-03	-1.82232E 00	-9.60333E-02	2.95407E 01	-9.40675E-02	1.89282E 00	-3.28793E-02	
26.40	1.27889E-03	-1.83625E 00	-9.70439E-02	2.95425E 01	-9.50599E-02	1.90701E 00	-3.28809E-02	
26.50	1.28859E-03	-1.85023E 00	-9.80613E-02	2.95442E 01	-9.60593E-02	1.92126E 00	-3.28826E-02	
26.60	1.29832E-03	-1.86427E 00	-9.90859E-02	2.95460E 01	-9.70655E-02	1.93556E 00	-3.28842E-02	
26.70	1.30810E-03	-1.87835E 00	-1.00117E-01	2.95477E 01	-9.80787E-02	1.94991E 00	-3.28858E-02	
26.80	1.31790E-03	-1.89249E 00	-1.01156E-01	2.95494E 01	-9.90989E-02	1.96431E 00	-3.28874E-02	
26.90	1.32775E-03	-1.90668E 00	-1.02201E-01	2.95511E 01	-1.00126E-01	1.97876E 00	-3.28890E-02	
27.00	1.33763E-03	-1.92092E 00	-1.03254E-01	2.95528E 01	-1.01160E-01	1.99327E 00	-3.28906E-02	
27.10	1.34755E-03	-1.93521E 00	-1.04314E-01	2.95545E 01	-1.02201E-01	2.00783E 00	-3.28922E-02	
27.20	1.35751E-03	-1.94956E 00	-1.05381E-01	2.95561E 01	-1.03249E-01	2.02244E 00	-3.28938E-02	
27.30	1.36750E-03	-1.96396E 00	-1.06455E-01	2.95578E 01	-1.04305E-01	2.03710E 00	-3.28953E-02	
27.40	1.37753E-03	-1.97841E 00	-1.07536E-01	2.95594E 01	-1.05367E-01	2.05182E 00	-3.28969E-02	
27.50	1.38759E-03	-1.99291E 00	-1.08625E-01	2.95611E 01	-1.06437E-01	2.06658E 00	-3.28984E-02	
27.60	1.39770E-03	-2.00747E 00	-1.09720E-01	2.95627E 01	-1.07513E-01	2.08140E 00	-3.28999E-02	
27.70	1.40784E-03	-2.02207E 00	-1.10823E-01	2.95643E 01	-1.08597E-01	2.09627E 00	-3.29014E-02	
27.80	1.41801E-03	-2.03673E 00	-1.11933E-01	2.95659E 01	-1.09688E-01	2.11119E 00	-3.29029E-02	
27.90	1.42822E-03	-2.05144E 00	-1.13051E-01	2.95674E 01	-1.10786E-01	2.12617E 00	-3.29044E-02	
28.00	1.43847E-03	-2.06620E 00	-1.14176E-01	2.95690E 01	-1.11892E-01	2.14119E 00	-3.29059E-02	
28.10	1.44876E-03	-2.08102E 00	-1.15308E-01	2.95705E 01	-1.13005E-01	2.15627E 00	-3.29074E-02	
28.20	1.45908E-03	-2.09588E 00	-1.16447E-01	2.95721E 01	-1.14125E-01	2.17140E 00	-3.29089E-02	
28.30	1.46944E-03	-2.11080E 00	-1.17594E-01	2.95736E 01	-1.15252E-01	2.18658E 00	-3.29103E-02	
28.40	1.47983E-03	-2.12577E 00	-1.18748E-01	2.95751E 01	-1.16386E-01	2.20182E 00	-3.29118E-02	
28.50	1.49027E-03	-2.14079E 00	-1.19910E-01	2.95767E 01	-1.17528E-01	2.21710E 00	-3.29132E-02	
28.60	1.50073E-03	-2.15587E 00	-1.21079E-01	2.95781E 01	-1.18678E-01	2.23244E 00	-3.29146E-02	
28.70	1.51124E-03	-2.17099E 00	-1.22256E-01	2.95796E 01	-1.19835E-01	2.24783E 00	-3.29160E-02	
28.80	1.52178E-03	-2.18617E 00	-1.23440E-01	2.95811E 01	-1.20999E-01	2.26327E 00	-3.29174E-02	
28.90	1.53236E-03	-2.20140E 00	-1.24632E-01	2.95826E 01	-1.22170E-01	2.27876E 00	-3.29188E-02	
29.00	1.54297E-03	-2.21668E 00	-1.25831E-01	2.95840E 01	-1.23349E-01	2.29430E 00	-3.29202E-02	
29.10	1.55363E-03	-2.23201E 00	-1.27038E-01	2.95855E 01	-1.24536E-01	2.30990E 00	-3.29216E-02	
29.20	1.56431E-03	-2.24739E 00	-1.28252E-01	2.95869E 01	-1.25730E-01	2.32555E 00	-3.29230E-02	
29.30	1.57504E-03	-2.26283E 00	-1.29474E-01	2.95883E 01	-1.26932E-01	2.34125E 00	-3.29243E-02	
29.40	1.58580E-03	-2.27832E 00	-1.30704E-01	2.95898E 01	-1.28141E-01	2.35700E 00	-3.29257E-02	
29.50	1.59660E-03	-2.29386E 00	-1.31941E-01	2.95912E 01	-1.29358E-01	2.37280E 00	-3.29270E-02	
29.60	1.60743E-03	-2.30945E 00	-1.33186E-01	2.95926E 01	-1.30582E-01	2.38866E 00	-3.29284E-02	
29.70	1.61830E-03	-2.32509E 00	-1.34439E-01	2.95939E 01	-1.31814E-01	2.40456E 00	-3.29297E-02	
29.80	1.62921E-03	-2.34079E 00	-1.35699E-01	2.95953E 01	-1.33053E-01	2.42052E 00	-3.29310E-02	
29.90	1.64016E-03	-2.35653E 00	-1.36967E-01	2.95967E 01	-1.34301E-01	2.43653E 00	-3.29323E-02	
30.00	1.65114E-03	-2.37233E 00	-1.38243E-01	2.95980E 01	-1.35556E-01	2.45259E 00	-3.29336E-02	



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
30.10	1.17900E 00	-3.15106E 01	-3.10914E 00	4.90201E-03	-3.04986E 00	3.25668E 01	-1.51992E 02			
30.20	1.17899E 00	-3.16140E 01	-3.12737E 00	4.90284E-03	-3.06782E 00	3.26701E 01	-1.52105E 02			
30.30	1.17898E 00	-3.17174E 01	-3.14565E 00	4.90364E-03	-3.08583E 00	3.27733E 01	-1.52217E 02			
30.40	1.17897E 00	-3.18208E 01	-3.16398E 00	4.90441E-03	-3.10389E 00	3.28766E 01	-1.52329E 02			
30.50	1.17896E 00	-3.19241E 01	-3.18235E 00	4.90517E-03	-3.12200E 00	3.29798E 01	-1.52441E 02			
30.60	1.17895E 00	-3.20274E 01	-3.20078E 00	4.90591E-03	-3.14017E 00	3.30829E 01	-1.52552E 02			
30.70	1.17894E 00	-3.21307E 01	-3.21926E 00	4.90661E-03	-3.15838E 00	3.31861E 01	-1.52664E 02			
30.80	1.17893E 00	-3.22339E 01	-3.23779E 00	4.90730E-03	-3.17664E 00	3.32892E 01	-1.52776E 02			
30.90	1.17891E 00	-3.23372E 01	-3.25638E 00	4.90796E-03	-3.19496E 00	3.33923E 01	-1.52887E 02			
31.00	1.17890E 00	-3.24404E 01	-3.27501E 00	4.90860E-03	-3.21332E 00	3.34954E 01	-1.52998E 02			
31.10	1.17889E 00	-3.25435E 01	-3.29369E 00	4.90921E-03	-3.23174E 00	3.35984E 01	-1.53110E 02			
31.20	1.17888E 00	-3.26467E 01	-3.31242E 00	4.90980E-03	-3.25021E 00	3.37014E 01	-1.53221E 02			
31.30	1.17887E 00	-3.27498E 01	-3.33121E 00	4.91036E-03	-3.26872E 00	3.38044E 01	-1.53332E 02			
31.40	1.17886E 00	-3.28529E 01	-3.35004E 00	4.91091E-03	-3.28729E 00	3.39074E 01	-1.53443E 02			
31.50	1.17885E 00	-3.29559E 01	-3.36893E 00	4.91143E-03	-3.30591E 00	3.40103E 01	-1.53554E 02			
31.60	1.17884E 00	-3.30590E 01	-3.38786E 00	4.91192E-03	-3.32458E 00	3.41133E 01	-1.53665E 02			
31.70	1.17883E 00	-3.31620E 01	-3.40685E 00	4.91240E-03	-3.34329E 00	3.42161E 01	-1.53776E 02			
31.80	1.17882E 00	-3.32650E 01	-3.42588E 00	4.91286E-03	-3.36206E 00	3.43190E 01	-1.53886E 02			
31.90	1.17881E 00	-3.33679E 01	-3.44497E 00	4.91329E-03	-3.38088E 00	3.44218E 01	-1.53997E 02			
32.00	1.17880E 00	-3.34709E 01	-3.46410E 00	4.91369E-03	-3.39975E 00	3.45246E 01	-1.54108E 02			
32.10	1.17879E 00	-3.35738E 01	-3.48329E 00	4.91408E-03	-3.41867E 00	3.46274E 01	-1.54218E 02			
32.20	1.17878E 00	-3.36766E 01	-3.50253E 00	4.91445E-03	-3.43764E 00	3.47302E 01	-1.54329E 02			
32.30	1.17877E 00	-3.37795E 01	-3.52182E 00	4.91479E-03	-3.45667E 00	3.48329E 01	-1.54439E 02			
32.40	1.17876E 00	-3.38823E 01	-3.54115E 00	4.91511E-03	-3.47574E 00	3.49356E 01	-1.54549E 02			
32.50	1.17875E 00	-3.39851E 01	-3.56054E 00	4.91542E-03	-3.49486E 00	3.50383E 01	-1.54660E 02			
32.60	1.17874E 00	-3.40879E 01	-3.57998E 00	4.91570E-03	-3.51403E 00	3.51409E 01	-1.54770E 02			
32.70	1.17873E 00	-3.41906E 01	-3.59947E 00	4.91595E-03	-3.53325E 00	3.52435E 01	-1.54880E 02			
32.80	1.17872E 00	-3.42933E 01	-3.61901E 00	4.91620E-03	-3.55253E 00	3.53461E 01	-1.54990E 02			
32.90	1.17871E 00	-3.43960E 01	-3.63860E 00	4.91641E-03	-3.57185E 00	3.54487E 01	-1.55100E 02			
33.00	1.17870E 00	-3.44987E 01	-3.65824E 00	4.91660E-03	-3.59122E 00	3.55512E 01	-1.55211E 02			
33.10	1.17869E 00	-3.46013E 01	-3.67793E 00	4.91678E-03	-3.61065E 00	3.56537E 01	-1.55321E 02			
33.20	1.17868E 00	-3.47039E 01	-3.69767E 00	4.91693E-03	-3.63012E 00	3.57562E 01	-1.55431E 02			
33.30	1.17867E 00	-3.48065E 01	-3.71746E 00	4.91707E-03	-3.64964E 00	3.58586E 01	-1.55541E 02			
33.40	1.17866E 00	-3.49090E 01	-3.73730E 00	4.91718E-03	-3.66922E 00	3.59610E 01	-1.55651E 02			
33.50	1.17865E 00	-3.50115E 01	-3.75719E 00	4.91728E-03	-3.68884E 00	3.60634E 01	-1.55761E 02			
33.60	1.17864E 00	-3.51140E 01	-3.77713E 00	4.91735E-03	-3.70852E 00	3.61658E 01	-1.55871E 02			
33.70	1.17863E 00	-3.52165E 01	-3.79712E 00	4.91741E-03	-3.72824E 00	3.62681E 01	-1.55980E 02			
33.80	1.17862E 00	-3.53189E 01	-3.81716E 00	4.91745E-03	-3.74801E 00	3.63704E 01	-1.56090E 02			
33.90	1.17861E 00	-3.54213E 01	-3.83725E 00	4.91746E-03	-3.76784E 00	3.64727E 01	-1.56200E 02			
34.00	1.17860E 00	-3.55237E 01	-3.85739E 00	4.91745E-03	-3.78771E 00	3.65750E 01	-1.56310E 02			
34.10	1.17859E 00	-3.56261E 01	-3.87758E 00	4.91744E-03	-3.80764E 00	3.66772E 01	-1.56420E 02			
34.20	1.17859E 00	-3.57284E 01	-3.89782E 00	4.91739E-03	-3.82761E 00	3.67794E 01	-1.56530E 02			
34.30	1.17858E 00	-3.58307E 01	-3.91811E 00	4.91733E-03	-3.84764E 00	3.68816E 01	-1.56640E 02			
34.40	1.17857E 00	-3.59330E 01	-3.93845E 00	4.91725E-03	-3.86771E 00	3.69837E 01	-1.56749E 02			
34.50	1.17856E 00	-3.60352E 01	-3.95884E 00	4.91715E-03	-3.88784E 00	3.70858E 01	-1.56859E 02			
34.60	1.17855E 00	-3.61374E 01	-3.97928E 00	4.91704E-03	-3.90801E 00	3.71879E 01	-1.56969E 02			
34.70	1.17854E 00	-3.62396E 01	-3.99977E 00	4.91690E-03	-3.92824E 00	3.72899E 01	-1.57079E 02			
34.80	1.17853E 00	-3.63418E 01	-4.02031E 00	4.91674E-03	-3.94851E 00	3.73920E 01	-1.57189E 02			
34.90	1.17852E 00	-3.64439E 01	-4.04090E 00	4.91658E-03	-3.96883E 00	3.74940E 01	-1.57299E 02			
35.00	1.17851E 00	-3.65460E 01	-4.06154E 00	4.91638E-03	-3.98921E 00	3.75959E 01	-1.57408E 02			
35.10	1.17850E 00	-3.66480E 01	-4.08223E 00	4.91617E-03	-4.00963E 00	3.76979E 01	-1.57519E 02			
35.20	1.17849E 00	-3.67501E 01	-4.10297E 00	4.91594E-03	-4.03011E 00	3.77998E 01	-1.57628E 02			
35.30	1.17848E 00	-3.68521E 01	-4.12376E 00	4.91570E-03	-4.05063E 00	3.79017E 01	-1.57738E 02			
35.40	1.17847E 00	-3.69541E 01	-4.14460E 00	4.91543E-03	-4.07120E 00	3.80035E 01	-1.57848E 02			
35.50	1.17847E 00	-3.70560E 01	-4.16549E 00	4.91515E-03	-4.09183E 00	3.81053E 01	-1.57958E 02			
35.60	1.17846E 00	-3.71580E 01	-4.18643E 00	4.91485E-03	-4.11250E 00	3.82071E 01	-1.58068E 02			
35.70	1.17845E 00	-3.72599E 01	-4.20742E 00	4.91453E-03	-4.13322E 00	3.83089E 01	-1.58178E 02			
35.80	1.17844E 00	-3.73617E 01	-4.22845E 00	4.91419E-03	-4.15400E 00	3.84106E 01	-1.58289E 02			
35.90	1.17843E 00	-3.74636E 01	-4.24954E 00	4.91384E-03	-4.17482E 00	3.85123E 01	-1.58399E 02			
36.00	1.17842E 00	-3.75654E 01	-4.27068E 00	4.91348E-03	-4.19569E 00	3.86140E 01	-1.58509E 02			

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$  $A = 14$  $\rho = 1.2 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
30.10	1.66216E-03	-2.38818E 00	-1.39527E-01	2.95994E 01	-1.36819E-01	2.46871E 00	-3.29349E-02
30.20	1.67321E-03	-2.40409E 00	-1.40818E-01	2.96007E 01	-1.38089E-01	2.48487E 00	-3.29362E-02
30.30	1.68430E-03	-2.42004E 00	-1.42118E-01	2.96021E 01	-1.39367E-01	2.50109E 00	-3.29375E-02
30.40	1.69543E-03	-2.43604E 00	-1.43425E-01	2.96034E 01	-1.40653E-01	2.51736E 00	-3.29387E-02
30.50	1.70659E-03	-2.45210E 00	-1.44740E-01	2.96047E 01	-1.41947E-01	2.53367E 00	-3.29400E-02
30.60	1.71779E-03	-2.46821E 00	-1.46063E-01	2.96060E 01	-1.43249E-01	2.55005E 00	-3.29413E-02
30.70	1.72903E-03	-2.48437E 00	-1.47394E-01	2.96073E 01	-1.44558E-01	2.56647E 00	-3.29425E-02
30.80	1.74031E-03	-2.50058E 00	-1.48733E-01	2.96086E 01	-1.45876E-01	2.58294E 00	-3.29437E-02
30.90	1.75162E-03	-2.51684E 00	-1.50080E-01	2.96098E 01	-1.47201E-01	2.59947E 00	-3.29450E-02
31.00	1.76296E-03	-2.53316E 00	-1.51435E-01	2.96111E 01	-1.48534E-01	2.61604E 00	-3.29462E-02
31.10	1.77435E-03	-2.54952E 00	-1.52798E-01	2.96124E 01	-1.49875E-01	2.63267E 00	-3.29474E-02
31.20	1.78577E-03	-2.56594E 00	-1.54169E-01	2.96136E 01	-1.51224E-01	2.64935E 00	-3.29486E-02
31.30	1.79723E-03	-2.58241E 00	-1.55548E-01	2.96149E 01	-1.52582E-01	2.66608E 00	-3.29498E-02
31.40	1.80872E-03	-2.59893E 00	-1.56935E-01	2.96161E 01	-1.53947E-01	2.68287E 00	-3.29510E-02
31.50	1.82025E-03	-2.61550E 00	-1.58331E-01	2.96173E 01	-1.55320E-01	2.69970E 00	-3.29522E-02
31.60	1.83182E-03	-2.63212E 00	-1.59734E-01	2.96185E 01	-1.56701E-01	2.71659E 00	-3.29534E-02
31.70	1.84342E-03	-2.64880E 00	-1.61146E-01	2.96197E 01	-1.58090E-01	2.73352E 00	-3.29546E-02
31.80	1.85506E-03	-2.66552E 00	-1.62565E-01	2.96209E 01	-1.59488E-01	2.75051E 00	-3.29557E-02
31.90	1.86674E-03	-2.68230E 00	-1.63993E-01	2.96221E 01	-1.60893E-01	2.76755E 00	-3.29569E-02
32.00	1.87845E-03	-2.69913E 00	-1.65430E-01	2.96233E 01	-1.62307E-01	2.78464E 00	-3.29580E-02
32.10	1.89020E-03	-2.71601E 00	-1.66874E-01	2.96245E 01	-1.63729E-01	2.80179E 00	-3.29592E-02
32.20	1.90199E-03	-2.73294E 00	-1.68327E-01	2.96257E 01	-1.65159E-01	2.81898E 00	-3.29603E-02
32.30	1.91381E-03	-2.74993E 00	-1.69788E-01	2.96268E 01	-1.66597E-01	2.83623E 00	-3.29615E-02
32.40	1.92567E-03	-2.76696E 00	-1.71257E-01	2.96280E 01	-1.68044E-01	2.85352E 00	-3.29626E-02
32.50	1.93757E-03	-2.78405E 00	-1.72735E-01	2.96291E 01	-1.69499E-01	2.87087E 00	-3.29637E-02
32.60	1.94950E-03	-2.80118E 00	-1.74221E-01	2.96303E 01	-1.70962E-01	2.88827E 00	-3.29648E-02
32.70	1.96147E-03	-2.81837E 00	-1.75715E-01	2.96314E 01	-1.72433E-01	2.90572E 00	-3.29659E-02
32.80	1.97348E-03	-2.83561E 00	-1.77218E-01	2.96325E 01	-1.73913E-01	2.92322E 00	-3.29670E-02
32.90	1.98552E-03	-2.85290E 00	-1.78730E-01	2.96337E 01	-1.75401E-01	2.94077E 00	-3.29681E-02
33.00	1.99760E-03	-2.87024E 00	-1.80249E-01	2.96348E 01	-1.76898E-01	2.95838E 00	-3.29692E-02
33.10	2.00971E-03	-2.88764E 00	-1.81777E-01	2.96359E 01	-1.78402E-01	2.97603E 00	-3.29703E-02
33.20	2.02187E-03	-2.90508E 00	-1.83314E-01	2.96370E 01	-1.79916E-01	2.99374E 00	-3.29714E-02
33.30	2.03406E-03	-2.92258E 00	-1.84860E-01	2.96381E 01	-1.81437E-01	3.01150E 00	-3.29724E-02
33.40	2.04628E-03	-2.94013E 00	-1.86413E-01	2.96392E 01	-1.82968E-01	3.02931E 00	-3.29735E-02
33.50	2.05855E-03	-2.95772E 00	-1.87976E-01	2.96402E 01	-1.84506E-01	3.04716E 00	-3.29746E-02
33.60	2.07085E-03	-2.97537E 00	-1.89547E-01	2.96413E 01	-1.86054E-01	3.06508E 00	-3.29756E-02
33.70	2.08318E-03	-2.99307E 00	-1.91126E-01	2.96424E 01	-1.87609E-01	3.08304E 00	-3.29767E-02
33.80	2.09555E-03	-3.01083E 00	-1.92715E-01	2.96434E 01	-1.89174E-01	3.10105E 00	-3.29777E-02
33.90	2.10796E-03	-3.02863E 00	-1.94311E-01	2.96445E 01	-1.90747E-01	3.11912E 00	-3.29787E-02
34.00	2.12041E-03	-3.04648E 00	-1.95917E-01	2.96455E 01	-1.92328E-01	3.13723E 00	-3.29798E-02
34.10	2.13289E-03	-3.06439E 00	-1.97531E-01	2.96466E 01	-1.93918E-01	3.15540E 00	-3.29808E-02
34.20	2.14541E-03	-3.08234E 00	-1.99154E-01	2.96476E 01	-1.95517E-01	3.17361E 00	-3.29818E-02
34.30	2.15796E-03	-3.10035E 00	-2.00786E-01	2.96486E 01	-1.97125E-01	3.19188E 00	-3.29828E-02
34.40	2.17056E-03	-3.11841E 00	-2.02427E-01	2.96497E 01	-1.98741E-01	3.21020E 00	-3.29838E-02
34.50	2.18319E-03	-3.13652E 00	-2.04076E-01	2.96507E 01	-2.00366E-01	3.22857E 00	-3.29848E-02
34.60	2.19585E-03	-3.15468E 00	-2.05734E-01	2.96517E 01	-2.01999E-01	3.24699E 00	-3.29858E-02
34.70	2.20855E-03	-3.17289E 00	-2.07401E-01	2.96527E 01	-2.03642E-01	3.26547E 00	-3.29868E-02
34.80	2.22129E-03	-3.19115E 00	-2.09077E-01	2.96537E 01	-2.05293E-01	3.28399E 00	-3.29878E-02
34.90	2.23407E-03	-3.20946E 00	-2.10762E-01	2.96547E 01	-2.06953E-01	3.30256E 00	-3.29888E-02
35.00	2.24688E-03	-3.22783E 00	-2.12455E-01	2.96557E 01	-2.08622E-01	3.32119E 00	-3.29897E-02
35.10	2.25973E-03	-3.24624E 00	-2.14158E-01	2.96566E 01	-2.10299E-01	3.33986E 00	-3.29907E-02
35.20	2.27261E-03	-3.26471E 00	-2.15870E-01	2.96576E 01	-2.11986E-01	3.35859E 00	-3.29917E-02
35.30	2.28553E-03	-3.28323E 00	-2.17590E-01	2.96586E 01	-2.13681E-01	3.37737E 00	-3.29926E-02
35.40	2.29849E-03	-3.30179E 00	-2.19320E-01	2.96595E 01	-2.15386E-01	3.39620E 00	-3.29936E-02
35.50	2.31149E-03	-3.32041E 00	-2.21058E-01	2.96605E 01	-2.17099E-01	3.41508E 00	-3.29945E-02
35.60	2.32452E-03	-3.33908E 00	-2.22806E-01	2.96614E 01	-2.18821E-01	3.43401E 00	-3.29955E-02
35.70	2.33759E-03	-3.35780E 00	-2.24563E-01	2.96624E 01	-2.20552E-01	3.45299E 00	-3.29964E-02
35.80	2.35069E-03	-3.37658E 00	-2.26328E-01	2.96633E 01	-2.22293E-01	3.47202E 00	-3.29973E-02
35.90	2.36383E-03	-3.39540E 00	-2.28103E-01	2.96643E 01	-2.24042E-01	3.49110E 00	-3.29983E-02
36.00	2.37701E-03	-3.41427E 00	-2.29887E-01	2.96652E 01	-2.25800E-01	3.51024E 00	-3.29992E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.2 A^{1/3} F$								
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$					
36.10	1.17841E	00	-3.76672E	01	-4.29187E	00	4.91309E-03	-4.21662E	00	3.87157E	01	-1.58619E	02
36.20	1.17840E	00	-3.77689E	01	-4.31310E	00	4.91269E-03	-4.23759E	00	3.88173E	01	-1.58729E	02
36.30	1.17839E	00	-3.78706E	01	-4.33439E	00	4.91226E-03	-4.25861E	00	3.89189E	01	-1.58839E	02
36.40	1.17838E	00	-3.79723E	01	-4.35573E	00	4.91183E-03	-4.27968E	00	3.90204E	01	-1.58949E	02
36.50	1.17838E	00	-3.80740E	01	-4.37711E	00	4.91137E-03	-4.30080E	00	3.91220E	01	-1.59060E	02
36.60	1.17837E	00	-3.81756E	01	-4.39855E	00	4.91091E-03	-4.32197E	00	3.92235E	01	-1.59170E	02
36.70	1.17836E	00	-3.82772E	01	-4.42003E	00	4.91041E-03	-4.34319E	00	3.93249E	01	-1.59281E	02
36.80	1.17835E	00	-3.83788E	01	-4.44157E	00	4.90991E-03	-4.36446E	00	3.94264E	01	-1.59391E	02
36.90	1.17834E	00	-3.84804E	01	-4.46315E	00	4.90938E-03	-4.38578E	00	3.95278E	01	-1.59502E	02
37.00	1.17833E	00	-3.85819E	01	-4.48478E	00	4.90885E-03	-4.40715E	00	3.96292E	01	-1.59612E	02
37.10	1.17832E	00	-3.86834E	01	-4.50646E	00	4.90829E-03	-4.42856E	00	3.97305E	01	-1.59723E	02
37.20	1.17831E	00	-3.87848E	01	-4.52820E	00	4.90772E-03	-4.45003E	00	3.98318E	01	-1.59833E	02
37.30	1.17831E	00	-3.88862E	01	-4.54998E	00	4.90714E-03	-4.47155E	00	3.99331E	01	-1.59944E	02
37.40	1.17830E	00	-3.89876E	01	-4.57181E	00	4.90654E-03	-4.49311E	00	4.00344E	01	-1.60055E	02
37.50	1.17829E	00	-3.90890E	01	-4.59369E	00	4.90592E-03	-4.51473E	00	4.01356E	01	-1.60166E	02
37.60	1.17828E	00	-3.91903E	01	-4.61562E	00	4.90528E-03	-4.53639E	00	4.02368E	01	-1.60277E	02
37.70	1.17827E	00	-3.92916E	01	-4.63760E	00	4.90463E-03	-4.55811E	00	4.03380E	01	-1.60388E	02
37.80	1.17826E	00	-3.93929E	01	-4.65963E	00	4.90397E-03	-4.57987E	00	4.04391E	01	-1.60499E	02
37.90	1.17825E	00	-3.94942E	01	-4.68170E	00	4.90328E-03	-4.60169E	00	4.05402E	01	-1.60610E	02
38.00	1.17825E	00	-3.95954E	01	-4.70383E	00	4.90258E-03	-4.62355E	00	4.06413E	01	-1.60721E	02
38.10	1.17824E	00	-3.96966E	01	-4.72601E	00	4.90187E-03	-4.64546E	00	4.07424E	01	-1.60832E	02
38.20	1.17823E	00	-3.97977E	01	-4.74823E	00	4.90114E-03	-4.66742E	00	4.08434E	01	-1.60944E	02
38.30	1.17822E	00	-3.98989E	01	-4.77051E	00	4.90040E-03	-4.68943E	00	4.09444E	01	-1.61055E	02
38.40	1.17821E	00	-4.00000E	01	-4.79283E	00	4.89964E-03	-4.71149E	00	4.10453E	01	-1.61167E	02
38.50	1.17820E	00	-4.01010E	01	-4.81521E	00	4.89885E-03	-4.73360E	00	4.11463E	01	-1.61279E	02
38.60	1.17820E	00	-4.02021E	01	-4.83763E	00	4.89807E-03	-4.75576E	00	4.12472E	01	-1.61390E	02
38.70	1.17819E	00	-4.03031E	01	-4.86010E	00	4.89726E-03	-4.77797E	00	4.13480E	01	-1.61502E	02
38.80	1.17818E	00	-4.04040E	01	-4.88262E	00	4.89645E-03	-4.80023E	00	4.14489E	01	-1.61614E	02
38.90	1.17817E	00	-4.05050E	01	-4.90519E	00	4.89561E-03	-4.82253E	00	4.15497E	01	-1.61726E	02
39.00	1.17816E	00	-4.06059E	01	-4.92781E	00	4.89476E-03	-4.84489E	00	4.16505E	01	-1.61838E	02
39.10	1.17815E	00	-4.07068E	01	-4.95048E	00	4.89389E-03	-4.86729E	00	4.17512E	01	-1.61950E	02
39.20	1.17815E	00	-4.08076E	01	-4.97320E	00	4.89302E-03	-4.88974E	00	4.18519E	01	-1.62062E	02
39.30	1.17814E	00	-4.09084E	01	-4.99596E	00	4.89212E-03	-4.91225E	00	4.19526E	01	-1.62175E	02
39.40	1.17813E	00	-4.10092E	01	-5.01878E	00	4.89120E-03	-4.93480E	00	4.20532E	01	-1.62287E	02
39.50	1.17812E	00	-4.11100E	01	-5.04164E	00	4.89028E-03	-4.95740E	00	4.21539E	01	-1.62400E	02
39.60	1.17811E	00	-4.12107E	01	-5.06456E	00	4.88934E-03	-4.98005E	00	4.22545E	01	-1.62512E	02
39.70	1.17811E	00	-4.13114E	01	-5.08752E	00	4.88839E-03	-5.00275E	00	4.23550E	01	-1.62625E	02
39.80	1.17810E	00	-4.14121E	01	-5.11053E	00	4.88743E-03	-5.02550E	00	4.24555E	01	-1.62738E	02
39.90	1.17809E	00	-4.15127E	01	-5.13359E	00	4.88643E-03	-5.04829E	00	4.25560E	01	-1.62851E	02
40.00	1.17808E	00	-4.16133E	01	-5.15670E	00	4.88544E-03	-5.07114E	00	4.26565E	01	-1.62964E	02
40.10	1.17807E	00	-4.17139E	01	-5.17986E	00	4.88443E-03	-5.09403E	00	4.27569E	01	-1.63077E	02
40.20	1.17807E	00	-4.18144E	01	-5.20307E	00	4.88340E-03	-5.11698E	00	4.28573E	01	-1.63191E	02
40.30	1.17806E	00	-4.19150E	01	-5.22632E	00	4.88236E-03	-5.13997E	00	4.29577E	01	-1.63304E	02
40.40	1.17805E	00	-4.20154E	01	-5.24963E	00	4.88131E-03	-5.16301E	00	4.30580E	01	-1.63417E	02
40.50	1.17804E	00	-4.21159E	01	-5.27298E	00	4.88025E-03	-5.18610E	00	4.31583E	01	-1.63531E	02
40.60	1.17803E	00	-4.22163E	01	-5.29638E	00	4.87917E-03	-5.20924E	00	4.32586E	01	-1.63645E	02
40.70	1.17803E	00	-4.23167E	01	-5.31983E	00	4.87808E-03	-5.23243E	00	4.33589E	01	-1.63759E	02
40.80	1.17802E	00	-4.24170E	01	-5.34333E	00	4.87696E-03	-5.25567E	00	4.34591E	01	-1.63873E	02
40.90	1.17801E	00	-4.25173E	01	-5.36688E	00	4.87584E-03	-5.27895E	00	4.35593E	01	-1.63987E	02
41.00	1.17800E	00	-4.26176E	01	-5.39048E	00	4.87470E-03	-5.30229E	00	4.36594E	01	-1.64101E	02
41.10	1.17800E	00	-4.27179E	01	-5.41413E	00	4.87355E-03	-5.32567E	00	4.37595E	01	-1.64216E	02
41.20	1.17799E	00	-4.28181E	01	-5.43782E	00	4.87239E-03	-5.34910E	00	4.38596E	01	-1.64330E	02
41.30	1.17798E	00	-4.29183E	01	-5.46156E	00	4.87121E-03	-5.37258E	00	4.39597E	01	-1.64445E	02
41.40	1.17797E	00	-4.30185E	01	-5.48536E	00	4.87002E-03	-5.39611E	00	4.40597E	01	-1.64559E	02
41.50	1.17796E	00	-4.31186E	01	-5.50920E	00	4.86881E-03	-5.41969E	00	4.41597E	01	-1.64675E	02
41.60	1.17796E	00	-4.32187E	01	-5.53309E	00	4.86760E-03	-5.44331E	00	4.42596E	01	-1.64790E	02
41.70	1.17795E	00	-4.33188E	01	-5.55703E	00	4.86637E-03	-5.46699E	00	4.43595E	01	-1.64905E	02
41.80	1.17794E	00	-4.34188E	01	-5.58101E	00	4.86512E-03	-5.49071E	00	4.44594E	01	-1.65020E	02
41.90	1.17793E	00	-4.35188E	01	-5.60505E	00	4.86386E-03	-5.51449E	00	4.45593E	01	-1.65136E	02
42.00	1.17793E	00	-4.36188E	01	-5.62913E	00	4.86259E-03	-5.53831E	00	4.46591E	01	-1.65251E	02

## ELECTRON RADIAL FUNCTIONS

$p$	$Z=7$ $A=14$ $\rho=1.2A^{1/3}F$ Electron							
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
36.10	2.39022E-03	-3.43319E 00	-2.31680E-01	2.96661E 01	-2.27568E-01	3.52942E 00	-3.30001E-02	
36.20	2.40348E-03	-3.45217E 00	-2.33483E-01	2.96670E 01	-2.29344E-01	3.54866E 00	-3.30010E-02	
36.30	2.41676E-03	-3.47120E 00	-2.35294E-01	2.96679E 01	-2.31130E-01	3.56794E 00	-3.30019E-02	
36.40	2.43009E-03	-3.49027E 00	-2.37115E-01	2.96689E 01	-2.32925E-01	3.58728E 00	-3.30028E-02	
36.50	2.44345E-03	-3.50940E 00	-2.38945E-01	2.96698E 01	-2.34729E-01	3.60667E 00	-3.30037E-02	
36.60	2.45685E-03	-3.52857E 00	-2.40784E-01	2.96707E 01	-2.36542E-01	3.62610E 00	-3.30046E-02	
36.70	2.47028E-03	-3.54780E 00	-2.42633E-01	2.96715E 01	-2.38364E-01	3.64559E 00	-3.30055E-02	
36.80	2.48375E-03	-3.56708E 00	-2.44491E-01	2.96724E 01	-2.40196E-01	3.66513E 00	-3.30064E-02	
36.90	2.49726E-03	-3.58641E 00	-2.46358E-01	2.96733E 01	-2.42037E-01	3.68472E 00	-3.30073E-02	
37.00	2.51080E-03	-3.60579E 00	-2.48235E-01	2.96742E 01	-2.43887E-01	3.70436E 00	-3.30082E-02	
37.10	2.52438E-03	-3.62522E 00	-2.50120E-01	2.96751E 01	-2.45747E-01	3.72405E 00	-3.30091E-02	
37.20	2.53800E-03	-3.64470E 00	-2.52016E-01	2.96759E 01	-2.47615E-01	3.74379E 00	-3.30099E-02	
37.30	2.55165E-03	-3.66424E 00	-2.53921E-01	2.96768E 01	-2.49494E-01	3.76358E 00	-3.30108E-02	
37.40	2.56535E-03	-3.68382E 00	-2.55835E-01	2.96777E 01	-2.51381E-01	3.78343E 00	-3.30116E-02	
37.50	2.57907E-03	-3.70345E 00	-2.57759E-01	2.96785E 01	-2.53278E-01	3.80332E 00	-3.30125E-02	
37.60	2.59284E-03	-3.72313E 00	-2.59692E-01	2.96793E 01	-2.55184E-01	3.82326E 00	-3.30134E-02	
37.70	2.60664E-03	-3.74287E 00	-2.61634E-01	2.96802E 01	-2.57100E-01	3.84326E 00	-3.30142E-02	
37.80	2.62047E-03	-3.76265E 00	-2.63587E-01	2.96810E 01	-2.59025E-01	3.86330E 00	-3.30150E-02	
37.90	2.63435E-03	-3.78249E 00	-2.65548E-01	2.96819E 01	-2.60960E-01	3.88340E 00	-3.30159E-02	
38.00	2.64826E-03	-3.80237E 00	-2.67520E-01	2.96827E 01	-2.62904E-01	3.90354E 00	-3.30167E-02	
38.10	2.66220E-03	-3.82231E 00	-2.69501E-01	2.96835E 01	-2.64858E-01	3.92374E 00	-3.30175E-02	
38.20	2.67619E-03	-3.84230E 00	-2.71491E-01	2.96843E 01	-2.66821E-01	3.94398E 00	-3.30184E-02	
38.30	2.69021E-03	-3.86233E 00	-2.73492E-01	2.96852E 01	-2.68794E-01	3.96428E 00	-3.30192E-02	
38.40	2.70426E-03	-3.88242E 00	-2.75502E-01	2.96860E 01	-2.70776E-01	3.98463E 00	-3.30200E-02	
38.50	2.71836E-03	-3.90256E 00	-2.77521E-01	2.96868E 01	-2.72768E-01	4.00502E 00	-3.30208E-02	
38.60	2.73248E-03	-3.92275E 00	-2.79551E-01	2.96876E 01	-2.74770E-01	4.02547E 00	-3.30216E-02	
38.70	2.74665E-03	-3.94299E 00	-2.81590E-01	2.96884E 01	-2.76781E-01	4.04597E 00	-3.30224E-02	
38.80	2.76085E-03	-3.96327E 00	-2.83638E-01	2.96892E 01	-2.78802E-01	4.06652E 00	-3.30232E-02	
38.90	2.77509E-03	-3.98361E 00	-2.85697E-01	2.96900E 01	-2.80833E-01	4.08711E 00	-3.30240E-02	
39.00	2.78937E-03	-4.00400E 00	-2.87765E-01	2.96907E 01	-2.82873E-01	4.10776E 00	-3.30248E-02	
39.10	2.80368E-03	-4.02444E 00	-2.89844E-01	2.96915E 01	-2.84924E-01	4.12846E 00	-3.30256E-02	
39.20	2.81803E-03	-4.04493E 00	-2.91932E-01	2.96923E 01	-2.86983E-01	4.14921E 00	-3.30264E-02	
39.30	2.83242E-03	-4.06547E 00	-2.94030E-01	2.96931E 01	-2.89053E-01	4.17001E 00	-3.30272E-02	
39.40	2.84684E-03	-4.08606E 00	-2.96138E-01	2.96938E 01	-2.91133E-01	4.19086E 00	-3.30280E-02	
39.50	2.86130E-03	-4.10670E 00	-2.98255E-01	2.96946E 01	-2.93222E-01	4.21176E 00	-3.30288E-02	
39.60	2.87579E-03	-4.12740E 00	-3.00383E-01	2.96954E 01	-2.95321E-01	4.23271E 00	-3.30295E-02	
39.70	2.89033E-03	-4.14814E 00	-3.02521E-01	2.96961E 01	-2.97431E-01	4.25371E 00	-3.30303E-02	
39.80	2.90490E-03	-4.16893E 00	-3.04668E-01	2.96969E 01	-2.99550E-01	4.27476E 00	-3.30311E-02	
39.90	2.91950E-03	-4.18977E 00	-3.06826E-01	2.96976E 01	-3.01679E-01	4.29586E 00	-3.30318E-02	
40.00	2.93414E-03	-4.21066E 00	-3.08993E-01	2.96984E 01	-3.03817E-01	4.31701E 00	-3.30326E-02	
40.10	2.94882E-03	-4.23160E 00	-3.11171E-01	2.96991E 01	-3.05966E-01	4.33821E 00	-3.30333E-02	
40.20	2.96354E-03	-4.25260E 00	-3.13359E-01	2.96998E 01	-3.08125E-01	4.35946E 00	-3.30341E-02	
40.30	2.97829E-03	-4.27364E 00	-3.15557E-01	2.97006E 01	-3.10294E-01	4.38076E 00	-3.30348E-02	
40.40	2.99308E-03	-4.29473E 00	-3.17765E-01	2.97013E 01	-3.12473E-01	4.40211E 00	-3.30356E-02	
40.50	3.00790E-03	-4.31587E 00	-3.19983E-01	2.97020E 01	-3.14662E-01	4.42351E 00	-3.30363E-02	
40.60	3.02276E-03	-4.33706E 00	-3.22211E-01	2.97027E 01	-3.16861E-01	4.44497E 00	-3.30371E-02	
40.70	3.03766E-03	-4.35831E 00	-3.24449E-01	2.97035E 01	-3.19070E-01	4.46647E 00	-3.30378E-02	
40.80	3.05260E-03	-4.37960E 00	-3.26698E-01	2.97042E 01	-3.21289E-01	4.48802E 00	-3.30385E-02	
40.90	3.06757E-03	-4.40094E 00	-3.28957E-01	2.97049E 01	-3.23519E-01	4.50962E 00	-3.30393E-02	
41.00	3.08258E-03	-4.42233E 00	-3.31226E-01	2.97056E 01	-3.25758E-01	4.53127E 00	-3.30400E-02	
41.10	3.09762E-03	-4.44378E 00	-3.33505E-01	2.97063E 01	-3.28008E-01	4.55297E 00	-3.30407E-02	
41.20	3.11270E-03	-4.46527E 00	-3.35795E-01	2.97070E 01	-3.30268E-01	4.57472E 00	-3.30414E-02	
41.30	3.12782E-03	-4.48681E 00	-3.38095E-01	2.97077E 01	-3.32538E-01	4.59652E 00	-3.30421E-02	
41.40	3.14298E-03	-4.50840E 00	-3.40405E-01	2.97084E 01	-3.34819E-01	4.61837E 00	-3.30429E-02	
41.50	3.15817E-03	-4.53004E 00	-3.42726E-01	2.97091E 01	-3.37109E-01	4.64027E 00	-3.30436E-02	
41.60	3.17339E-03	-4.55174E 00	-3.45057E-01	2.97098E 01	-3.39410E-01	4.66222E 00	-3.30443E-02	
41.70	3.18866E-03	-4.57348E 00	-3.47398E-01	2.97104E 01	-3.41722E-01	4.68422E 00	-3.30450E-02	
41.80	3.20396E-03	-4.59527E 00	-3.49750E-01	2.97111E 01	-3.44043E-01	4.70627E 00	-3.30457E-02	
41.90	3.21930E-03	-4.61711E 00	-3.52112E-01	2.97118E 01	-3.46376E-01	4.72837E 00	-3.30464E-02	
42.00	3.23467E-03	-4.63900E 00	-3.54485E-01	2.97125E 01	-3.48718E-01	4.75051E 00	-3.30471E-02	



ELECTRON RADIAL FUNCTIONS

Electron	$Z=8$		$A=17$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$-1$	$g_{-1}$	$\tan \delta_{-1}$	
0.10	3.89283E 00	-1.60734E-02	-4.61370E-04	-2.62176E-01	-6.50389E-03	2.78240E-01	-3.58527E 00	
0.20	2.27268E 00	-4.37417E-02	-1.25729E-03	-1.22319E-01	-9.91955E-03	4.23647E-01	-6.10771E 00	
0.30	1.81770E 00	-8.45713E-02	-2.43634E-03	-7.94326E-01	-1.32666E-02	5.65036E-01	-8.81765E 00	
0.40	1.61430E 00	-1.37279E-01	-3.96685E-03	-5.83051E-02	-1.66062E-02	7.04631E-01	-1.15073E 01	
0.50	1.50214E 00	-2.00350E-01	-5.81124E-03	-4.56508E-02	-1.99380E-02	8.42096E-01	-1.41385E 01	
0.60	1.43253E 00	-2.72209E-01	-7.93053E-03	-3.71911E-02	-2.32609E-02	9.77144E-01	-1.66976E 01	
0.70	1.38593E 00	-3.51364E-01	-1.02877E-02	-3.11197E-02	-2.65771E-02	1.10968E 00	-1.91784E 01	
0.80	1.35304E 00	-4.36474E-01	-1.28494E-02	-2.65406E-02	-2.98910E-02	1.23977E 00	-2.15787E 01	
0.90	1.32891E 00	-5.26393E-01	-1.55875E-02	-2.29577E-02	-3.32081E-02	1.36756E 00	-2.38983E 01	
1.00	1.31065E 00	-6.20168E-01	-1.84782E-02	-2.00744E-02	-3.65346E-02	1.49325E 00	-2.61381E 01	
1.10	1.29649E 00	-7.17022E-01	-2.15025E-02	-1.77015E-02	-3.98765E-02	1.61708E 00	-2.83001E 01	
1.20	1.28528E 00	-8.16334E-01	-2.46450E-02	-1.57132E-02	-4.32394E-02	1.73926E 00	-3.03866E 01	
1.30	1.27626E 00	-9.17607E-01	-2.78935E-02	-1.40218E-02	-4.66283E-02	1.86000E 00	-3.24002E 01	
1.40	1.26888E 00	-1.02045E 00	-3.12385E-02	-1.25650E-02	-5.00477E-02	1.97948E 00	-3.43438E 01	
1.50	1.26277E 00	-1.12455E 00	-3.46723E-02	-1.12967E-02	-5.35014E-02	2.09786E 00	-3.62204E 01	
1.60	1.25764E 00	-1.22967E 00	-3.81888E-02	-1.01822E-02	-5.69927E-02	2.21530E 00	-3.80327E 01	
1.70	1.25331E 00	-1.33561E 00	-4.17835E-02	-9.19487E-03	-6.05246E-02	2.33191E 00	-3.97837E 01	
1.80	1.24960E 00	-1.44221E 00	-4.54525E-02	-8.31405E-03	-6.40993E-02	2.44779E 00	-4.14761E 01	
1.90	1.24641E 00	-1.54935E 00	-4.91928E-02	-7.52327E-03	-6.77190E-02	2.56305E 00	-4.31125E 01	
2.00	1.24364E 00	-1.65694E 00	-5.30020E-02	-6.80931E-03	-7.13853E-02	2.67776E 00	-4.46954E 01	
2.10	1.24121E 00	-1.76488E 00	-5.68783E-02	-6.16147E-03	-7.50997E-02	2.79199E 00	-4.62274E 01	
2.20	1.23908E 00	-1.87313E 00	-6.08199E-02	-5.57092E-03	-7.88634E-02	2.90578E 00	-4.77107E 01	
2.30	1.23719E 00	-1.98162E 00	-6.48258E-02	-5.03036E-03	-8.26777E-02	3.01920E 00	-4.91475E 01	
2.40	1.23551E 00	-2.09032E 00	-6.88948E-02	-4.53367E-03	-8.65433E-02	3.13229E 00	-5.05399E 01	
2.50	1.23400E 00	-2.19918E 00	-7.30262E-02	-4.07572E-03	-9.04611E-02	3.24508E 00	-5.18899E 01	
2.60	1.23265E 00	-2.30819E 00	-7.72192E-02	-3.65213E-03	-9.44316E-02	3.35759E 00	-5.31993E 01	
2.70	1.23143E 00	-2.41730E 00	-8.14732E-02	-3.25918E-03	-9.84555E-02	3.46987E 00	-5.44700E 01	
2.80	1.23032E 00	-2.52652E 00	-8.57878E-02	-2.89364E-03	-1.02533E-01	3.58194E 00	-5.57035E 01	
2.90	1.22932E 00	-2.63581E 00	-9.01626E-02	-2.55273E-03	-1.06666E-01	3.69380E 00	-5.69014E 01	
3.00	1.22839E 00	-2.74517E 00	-9.45972E-02	-2.23405E-03	-1.10853E-01	3.80549E 00	-5.80653E 01	
3.10	1.22755E 00	-2.85458E 00	-9.90914E-02	-1.93551E-03	-1.15094E-01	3.91702E 00	-5.91967E 01	
3.20	1.22678E 00	-2.96404E 00	-1.03645E-01	-1.65523E-03	-1.19392E-01	4.02841E 00	-6.02967E 01	
3.30	1.22606E 00	-3.07353E 00	-1.08258E-01	-1.39160E-03	-1.23745E-01	4.13965E 00	-6.13667E 01	
3.40	1.22540E 00	-3.18305E 00	-1.12929E-01	-1.14318E-03	-1.28153E-01	4.25078E 00	-6.24081E 01	
3.50	1.22479E 00	-3.29259E 00	-1.17660E-01	-9.08689E-04	-1.32618E-01	4.36179E 00	-6.34217E 01	
3.60	1.22422E 00	-3.40215E 00	-1.22449E-01	-6.86996E-04	-1.37139E-01	4.47269E 00	-6.44088E 01	
3.70	1.22368E 00	-3.51171E 00	-1.27296E-01	-4.77064E-04	-1.41716E-01	4.58349E 00	-6.53704E 01	
3.80	1.22319E 00	-3.62129E 00	-1.32203E-01	-2.78010E-04	-1.46350E-01	4.69421E 00	-6.63075E 01	
3.90	1.22272E 00	-3.73088E 00	-1.37167E-01	-8.89782E-05	-1.51040E-01	4.80484E 00	-6.72209E 01	
4.00	1.22229E 00	-3.84046E 00	-1.42190E-01	9.07387E-05	-1.55787E-01	4.91539E 00	-6.81117E 01	
4.10	1.22188E 00	-3.95005E 00	-1.47271E-01	2.61819E-04	-1.60591E-01	5.02587E 00	-6.89806E 01	
4.20	1.22149E 00	-4.05963E 00	-1.52410E-01	4.24886E-04	-1.65451E-01	5.13627E 00	-6.98284E 01	
4.30	1.22113E 00	-4.16921E 00	-1.57608E-01	5.80455E-04	-1.70369E-01	5.24661E 00	-7.06560E 01	
4.40	1.22078E 00	-4.27879E 00	-1.62863E-01	7.29064E-04	-1.75344E-01	5.35689E 00	-7.14639E 01	
4.50	1.22046E 00	-4.38835E 00	-1.68177E-01	8.71139E-04	-1.80375E-01	5.46711E 00	-7.22531E 01	
4.60	1.22015E 00	-4.49791E 00	-1.73549E-01	1.00713E-03	-1.85464E-01	5.57727E 00	-7.30240E 01	
4.70	1.21985E 00	-4.60746E 00	-1.78978E-01	1.13739E-03	-1.90610E-01	5.68738E 00	-7.37773E 01	
4.80	1.21957E 00	-4.71700E 00	-1.84466E-01	1.26227E-03	-1.95813E-01	5.79744E 00	-7.45137E 01	
4.90	1.21931E 00	-4.82653E 00	-1.90012E-01	1.38212E-03	-2.01073E-01	5.90745E 00	-7.52337E 01	
5.00	1.21906E 00	-4.93605E 00	-1.95615E-01	1.49723E-03	-2.06391E-01	6.01741E 00	-7.59379E 01	
5.10	1.21881E 00	-5.04555E 00	-2.01277E-01	1.60786E-03	-2.11766E-01	6.12733E 00	-7.66267E 01	
5.20	1.21858E 00	-5.15504E 00	-2.06996E-01	1.71427E-03	-2.17198E-01	6.23721E 00	-7.73008E 01	
5.30	1.21836E 00	-5.26452E 00	-2.12773E-01	1.81670E-03	-2.22688E-01	6.34705E 00	-7.79606E 01	
5.40	1.21815E 00	-5.37398E 00	-2.18608E-01	1.91537E-03	-2.28235E-01	6.45684E 00	-7.86064E 01	
5.50	1.21794E 00	-5.48342E 00	-2.24501E-01	2.01047E-03	-2.33839E-01	6.56660E 00	-7.92389E 01	
5.60	1.21775E 00	-5.59286E 00	-2.30451E-01	2.10219E-03	-2.39501E-01	6.67632E 00	-7.98584E 01	
5.70	1.21756E 00	-5.70227E 00	-2.36460E-01	2.19072E-03	-2.45221E-01	6.78601E 00	-8.04653E 01	
5.80	1.21738E 00	-5.81168E 00	-2.42526E-01	2.27621E-03	-2.50997E-01	6.89566E 00	-8.10600E 01	
5.90	1.21721E 00	-5.92106E 00	-2.48650E-01	2.35880E-03	-2.56831E-01	7.00527E 00	-8.16430E 01	
6.00	1.21704E 00	-6.03043E 00	-2.54832E-01	2.43866E-03	-2.62723E-01	7.11486E 00	-8.22145E 01	

## ELECTRON RADIAL FUNCTIONS

$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
$Z=8 \quad A=17 \quad \rho=1.2 A^{1/3} F \quad \text{Electron}$							
0.10	9.15275E-08	-4.42647E-06	-7.32608E-08	1.65232E 00	-1.14074E-06	8.54233E-05	-2.66277E-01
0.20	1.73184E-07	-2.34222E-05	-3.88206E-07	3.57875E 00	-3.13245E-06	2.34155E-04	-1.28249E-01
0.30	2.98263E-07	-6.75755E-05	-1.12264E-06	5.36916E 00	-6.14846E-06	4.58279E-04	-8.73676E-02
0.40	4.63619E-07	-1.46007E-04	-2.43332E-06	7.04787E 00	-1.01838E-05	7.56079E-04	-6.82071E-02
0.50	6.69264E-07	-2.66171E-04	-4.45340E-06	8.60558E 00	-1.52326E-05	1.12544E-03	-5.74351E-02
0.60	9.15587E-07	-4.33827E-04	-7.29192E-06	1.00352E 01	-2.12907E-05	1.56414E-03	-5.07537E-02
0.70	1.20299E-06	-6.53211E-04	-1.10363E-05	1.13356E 01	-2.83573E-05	2.07005E-03	-4.63478E-02
0.80	1.53184E-06	-9.27304E-04	-1.57561E-05	1.25105E 01	-3.64357E-05	2.64129E-03	-4.33195E-02
0.90	1.90242E-06	-1.25812E-03	-2.15074E-05	1.35673E 01	-4.55342E-05	3.27626E-03	-4.11754E-02
1.00	2.31497E-06	-1.64698E-03	-2.83362E-05	1.45154E 01	-5.56647E-05	3.97370E-03	-3.96233E-02
1.10	2.76966E-06	-2.09469E-03	-3.62815E-05	1.53649E 01	-6.68431E-05	4.73258E-03	-3.84809E-02
1.20	3.26665E-06	-2.60173E-03	-4.53778E-05	1.61262E 01	-7.90880E-05	5.55211E-03	-3.76294E-02
1.30	3.80604E-06	-3.16838E-03	-5.56564E-05	1.68091E 01	-9.24205E-05	6.43171E-03	-3.69887E-02
1.40	4.38793E-06	-3.79473E-03	-6.71466E-05	1.74225E 01	-1.06863E-04	7.37092E-03	-3.65036E-02
1.50	5.01236E-06	-4.48083E-03	-7.98765E-05	1.79747E 01	-1.22441E-04	8.36939E-03	-3.61349E-02
1.60	5.67941E-06	-5.22663E-03	-9.38737E-05	1.84730E 01	-1.39178E-04	9.42687E-03	-3.58543E-02
1.70	6.38910E-06	-6.03207E-03	-1.09165E-04	1.89236E 01	-1.57100E-04	1.05432E-02	-3.56414E-02
1.80	7.14149E-06	-6.89709E-03	-1.25777E-04	1.93323E 01	-1.76234E-04	1.17181E-02	-3.54807E-02
1.90	7.93657E-06	-7.82159E-03	-1.43737E-04	1.97040E 01	-1.96608E-04	1.29517E-02	-3.53606E-02
2.00	8.77438E-06	-8.80549E-03	-1.63071E-04	2.00429E 01	-2.18247E-04	1.42437E-02	-3.52725E-02
2.10	9.65494E-06	-9.84870E-03	-1.83806E-04	2.03527E 01	-2.41180E-04	1.55941E-02	-3.52096E-02
2.20	1.05782E-05	-1.09512E-02	-2.05968E-04	2.06367E 01	-2.65435E-04	1.70029E-02	-3.51667E-02
2.30	1.15443E-05	-1.21128E-02	-2.29586E-04	2.08977E 01	-2.91038E-04	1.84701E-02	-3.51396E-02
2.40	1.25532E-05	-1.33335E-02	-2.54685E-04	2.11382E 01	-3.18017E-04	1.99956E-02	-3.51252E-02
2.50	1.36048E-05	-1.46132E-02	-2.81293E-04	2.13602E 01	-3.46401E-04	2.15794E-02	-3.51209E-02
2.60	1.46992E-05	-1.59519E-02	-3.09437E-04	2.15658E 01	-3.76218E-04	2.32214E-02	-3.51247E-02
2.70	1.58364E-05	-1.73495E-02	-3.39145E-04	2.17564E 01	-4.07494E-04	2.49218E-02	-3.51350E-02
2.80	1.70163E-05	-1.88060E-02	-3.70442E-04	2.19337E 01	-4.40259E-04	2.66804E-02	-3.51504E-02
2.90	1.82391E-05	-2.03213E-02	-4.03358E-04	2.20988E 01	-4.74540E-04	2.84973E-02	-3.51699E-02
3.00	1.95047E-05	-2.18954E-02	-4.37918E-04	2.22529E 01	-5.10366E-04	3.03725E-02	-3.51927E-02
3.10	2.08130E-05	-2.35283E-02	-4.74152E-04	2.23970E 01	-5.47763E-04	3.23059E-02	-3.52180E-02
3.20	2.21642E-05	-2.52198E-02	-5.12085E-04	2.25320E 01	-5.86760E-04	3.42975E-02	-3.52453E-02
3.30	2.35581E-05	-2.69700E-02	-5.51746E-04	2.26586E 01	-6.27386E-04	3.63474E-02	-3.52741E-02
3.40	2.49948E-05	-2.87789E-02	-5.93162E-04	2.27777E 01	-6.69668E-04	3.84556E-02	-3.53041E-02
3.50	2.64743E-05	-3.06464E-02	-6.36361E-04	2.28898E 01	-7.13633E-04	4.06220E-02	-3.53349E-02
3.60	2.79967E-05	-3.25725E-02	-6.81371E-04	2.29954E 01	-7.59311E-04	4.28466E-02	-3.53662E-02
3.70	2.95617E-05	-3.45572E-02	-7.28218E-04	2.30952E 01	-8.06728E-04	4.51295E-02	-3.53978E-02
3.80	3.11696E-05	-3.66004E-02	-7.76931E-04	2.31895E 01	-8.55914E-04	4.74706E-02	-3.54297E-02
3.90	3.28203E-05	-3.87021E-02	-8.27537E-04	2.32788E 01	-9.06895E-04	4.98700E-02	-3.54616E-02
4.00	3.45138E-05	-4.08624E-02	-8.80065E-04	2.33635E 01	-9.59700E-04	5.23276E-02	-3.54933E-02
4.10	3.62500E-05	-4.30811E-02	-9.34540E-04	2.34438E 01	-1.01436E-03	5.48433E-02	-3.55249E-02
4.20	3.80291E-05	-4.53584E-02	-9.90993E-04	2.35201E 01	-1.07089E-03	5.74174E-02	-3.55563E-02
4.30	3.98509E-05	-4.76940E-02	-1.04945E-03	2.35928E 01	-1.12934E-03	6.00496E-02	-3.55873E-02
4.40	4.17155E-05	-5.00882E-02	-1.10994E-03	2.36619E 01	-1.18972E-03	6.27401E-02	-3.56180E-02
4.50	4.36229E-05	-5.25407E-02	-1.17249E-03	2.37278E 01	-1.25206E-03	6.54888E-02	-3.56482E-02
4.60	4.55731E-05	-5.50517E-02	-1.23712E-03	2.37907E 01	-1.31639E-03	6.82957E-02	-3.56780E-02
4.70	4.75660E-05	-5.76210E-02	-1.30387E-03	2.38508E 01	-1.38274E-03	7.11608E-02	-3.57074E-02
4.80	4.96018E-05	-6.02488E-02	-1.37276E-03	2.39083E 01	-1.45114E-03	7.40841E-02	-3.57362E-02
4.90	5.16803E-05	-6.29349E-02	-1.44383E-03	2.39632E 01	-1.52162E-03	7.70656E-02	-3.57646E-02
5.00	5.38015E-05	-6.56793E-02	-1.51709E-03	2.40159E 01	-1.59420E-03	8.01053E-02	-3.57924E-02
5.10	5.59656E-05	-6.84821E-02	-1.59258E-03	2.40663E 01	-1.66890E-03	8.32032E-02	-3.58198E-02
5.20	5.81725E-05	-7.13433E-02	-1.67032E-03	2.41148E 01	-1.74577E-03	8.63593E-02	-3.58466E-02
5.30	6.04221E-05	-7.42628E-02	-1.75034E-03	2.41612E 01	-1.82482E-03	8.95735E-02	-3.58729E-02
5.40	6.27144E-05	-7.72406E-02	-1.83267E-03	2.42059E 01	-1.90609E-03	9.28459E-02	-3.58987E-02
5.50	6.50496E-05	-8.02767E-02	-1.91735E-03	2.42488E 01	-1.98960E-03	9.61765E-02	-3.59240E-02
5.60	6.74275E-05	-8.33710E-02	-2.00438E-03	2.42901E 01	-2.07538E-03	9.95652E-02	-3.59488E-02
5.70	6.98482E-05	-8.65237E-02	-2.09381E-03	2.43299E 01	-2.16345E-03	1.03012E-01	-3.59731E-02
5.80	7.23117E-05	-8.97346E-02	-2.18565E-03	2.43682E 01	-2.25386E-03	1.06517E-01	-3.59969E-02
5.90	7.48180E-05	-9.30039E-02	-2.27995E-03	2.44051E 01	-2.34661E-03	1.10080E-01	-3.60203E-02
6.00	7.73669E-05	-9.63313E-02	-2.37672E-03	2.44407E 01	-2.44175E-03	1.13702E-01	-3.60431E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=8$		$A=17$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	1.21688E 00	-6.13979E 00	-2.61071E-01	2.51592E-03	-2.68672E-01	7.22441E 00	-8.27748E 01	01
6.20	1.21672E 00	-6.24912E 00	-2.67368E-01	2.59067E-03	-2.74679E-01	7.33393E 00	-8.33244E 01	01
6.30	1.21657E 00	-6.35844E 00	-2.73723E-01	2.66307E-03	-2.80743E-01	7.44342E 00	-8.38636E 01	01
6.40	1.21642E 00	-6.46775E 00	-2.80135E-01	2.73320E-03	-2.86865E-01	7.55288E 00	-8.43926E 01	01
6.50	1.21628E 00	-6.57703E 00	-2.86606E-01	2.80118E-03	-2.93044E-01	7.66231E 00	-8.49117E 01	01
6.60	1.21614E 00	-6.68630E 00	-2.93133E-01	2.86710E-03	-2.99280E-01	7.77172E 00	-8.54212E 01	01
6.70	1.21601E 00	-6.79555E 00	-2.99719E-01	2.93103E-03	-3.05574E-01	7.88109E 00	-8.59216E 01	01
6.80	1.21588E 00	-6.90479E 00	-3.06362E-01	2.99310E-03	-3.11926E-01	7.99044E 00	-8.64128E 01	01
6.90	1.21576E 00	-7.01401E 00	-3.13063E-01	3.05335E-03	-3.18335E-01	8.09976E 00	-8.68953E 01	01
7.00	1.21564E 00	-7.12321E 00	-3.19821E-01	3.11188E-03	-3.24801E-01	8.20905E 00	-8.73692E 01	01
7.10	1.21552E 00	-7.23239E 00	-3.26637E-01	3.16875E-03	-3.31325E-01	8.31832E 00	-8.78349E 01	01
7.20	1.21541E 00	-7.34156E 00	-3.33511E-01	3.22404E-03	-3.37907E-01	8.42756E 00	-8.82924E 01	01
7.30	1.21529E 00	-7.45070E 00	-3.40442E-01	3.27780E-03	-3.44545E-01	8.53678E 00	-8.87422E 01	01
7.40	1.21518E 00	-7.55983E 00	-3.47431E-01	3.33009E-03	-3.51242E-01	8.64597E 00	-8.91843E 01	01
7.50	1.21508E 00	-7.66894E 00	-3.54477E-01	3.38098E-03	-3.57996E-01	8.75514E 00	-8.96190E 01	01
7.60	1.21498E 00	-7.77804E 00	-3.61581E-01	3.43052E-03	-3.64807E-01	8.86428E 00	-9.00465E 01	01
7.70	1.21488E 00	-7.88711E 00	-3.68742E-01	3.47876E-03	-3.71676E-01	8.97340E 00	-9.04669E 01	01
7.80	1.21478E 00	-7.99617E 00	-3.75961E-01	3.52575E-03	-3.78602E-01	9.08249E 00	-9.08805E 01	01
7.90	1.21468E 00	-8.10521E 00	-3.83238E-01	3.57154E-03	-3.85586E-01	9.19156E 00	-9.12873E 01	01
8.00	1.21459E 00	-8.21423E 00	-3.90572E-01	3.61616E-03	-3.92627E-01	9.30061E 00	-9.16877E 01	01
8.10	1.21450E 00	-8.32324E 00	-3.97963E-01	3.65968E-03	-3.99725E-01	9.40963E 00	-9.20817E 01	01
8.20	1.21441E 00	-8.43222E 00	-4.05412E-01	3.70211E-03	-4.06881E-01	9.51863E 00	-9.24695E 01	01
8.30	1.21432E 00	-8.54119E 00	-4.12919E-01	3.74351E-03	-4.14095E-01	9.62761E 00	-9.28513E 01	01
8.40	1.21424E 00	-8.65013E 00	-4.20482E-01	3.78391E-03	-4.21366E-01	9.73656E 00	-9.32272E 01	01
8.50	1.21415E 00	-8.75907E 00	-4.28104E-01	3.82333E-03	-4.28694E-01	9.84550E 00	-9.35974E 01	01
8.60	1.21407E 00	-8.86798E 00	-4.35783E-01	3.86183E-03	-4.36079E-01	9.95441E 00	-9.39620E 01	01
8.70	1.21399E 00	-8.97687E 00	-4.43519E-01	3.89942E-03	-4.43523E-01	1.00633E 01	-9.43212E 01	01
8.80	1.21391E 00	-9.08575E 00	-4.51313E-01	3.93613E-03	-4.51023E-01	1.01722E 01	-9.46751E 01	01
8.90	1.21384E 00	-9.19460E 00	-4.59164E-01	3.97200E-03	-4.58581E-01	1.02810E 01	-9.50237E 01	01
9.00	1.21376E 00	-9.30344E 00	-4.67072E-01	4.00707E-03	-4.66196E-01	1.03898E 01	-9.53673E 01	01
9.10	1.21369E 00	-9.41226E 00	-4.75038E-01	4.04134E-03	-4.73869E-01	1.04986E 01	-9.57059E 01	01
9.20	1.21361E 00	-9.52106E 00	-4.83061E-01	4.07484E-03	-4.81598E-01	1.06074E 01	-9.60397E 01	01
9.30	1.21354E 00	-9.62984E 00	-4.91141E-01	4.10761E-03	-4.89386E-01	1.07162E 01	-9.63688E 01	01
9.40	1.21347E 00	-9.73860E 00	-4.99279E-01	4.13966E-03	-4.97230E-01	1.08249E 01	-9.66932E 01	01
9.50	1.21340E 00	-9.84734E 00	-5.07474E-01	4.17101E-03	-5.05132E-01	1.09336E 01	-9.70133E 01	01
9.60	1.21334E 00	-9.95607E 00	-5.15727E-01	4.20169E-03	-5.13091E-01	1.10423E 01	-9.73288E 01	01
9.70	1.21327E 00	-1.00648E 01	-5.24037E-01	4.23171E-03	-5.21108E-01	1.11510E 01	-9.76401E 01	01
9.80	1.21321E 00	-1.01735E 01	-5.32404E-01	4.26111E-03	-5.29181E-01	1.12596E 01	-9.79472E 01	01
9.90	1.21314E 00	-1.02821E 01	-5.40829E-01	4.28989E-03	-5.37313E-01	1.13682E 01	-9.82502E 01	01
10.00	1.21308E 00	-1.03908E 01	-5.49310E-01	4.31807E-03	-5.45501E-01	1.14768E 01	-9.85491E 01	01
10.10	1.21302E 00	-1.04994E 01	-5.57849E-01	4.34567E-03	-5.53746E-01	1.15854E 01	-9.88441E 01	01
10.20	1.21296E 00	-1.06080E 01	-5.66446E-01	4.37271E-03	-5.62049E-01	1.16940E 01	-9.91353E 01	01
10.30	1.21290E 00	-1.07166E 01	-5.75099E-01	4.39921E-03	-5.70409E-01	1.18025E 01	-9.94228E 01	01
10.40	1.21284E 00	-1.08252E 01	-5.83810E-01	4.42516E-03	-5.78827E-01	1.19111E 01	-9.97066E 01	01
10.50	1.21278E 00	-1.09337E 01	-5.92578E-01	4.45062E-03	-5.87301E-01	1.20196E 01	-9.99867E 01	01
10.60	1.21273E 00	-1.10423E 01	-6.01403E-01	4.47556E-03	-5.95833E-01	1.21280E 01	-1.00263E 02	02
10.70	1.21267E 00	-1.11508E 01	-6.10285E-01	4.50002E-03	-6.04422E-01	1.22365E 01	-1.00537E 02	02
10.80	1.21261E 00	-1.12593E 01	-6.19225E-01	4.52399E-03	-6.13068E-01	1.23449E 01	-1.00807E 02	02
10.90	1.21256E 00	-1.13678E 01	-6.28222E-01	4.54751E-03	-6.21771E-01	1.24533E 01	-1.01073E 02	02
11.00	1.21251E 00	-1.14762E 01	-6.37276E-01	4.57058E-03	-6.30532E-01	1.25617E 01	-1.01336E 02	02
11.10	1.21245E 00	-1.15847E 01	-6.46387E-01	4.59320E-03	-6.39349E-01	1.26701E 01	-1.01597E 02	02
11.20	1.21240E 00	-1.16931E 01	-6.55555E-01	4.61541E-03	-6.48224E-01	1.27785E 01	-1.01854E 02	02
11.30	1.21235E 00	-1.18015E 01	-6.64780E-01	4.63719E-03	-6.57156E-01	1.28868E 01	-1.02108E 02	02
11.40	1.21230E 00	-1.19099E 01	-6.74063E-01	4.65857E-03	-6.66145E-01	1.29951E 01	-1.02359E 02	02
11.50	1.21225E 00	-1.20182E 01	-6.83402E-01	4.67956E-03	-6.75191E-01	1.31034E 01	-1.02607E 02	02
11.60	1.21220E 00	-1.21266E 01	-6.92799E-01	4.70016E-03	-6.84294E-01	1.32117E 01	-1.02853E 02	02
11.70	1.21215E 00	-1.22349E 01	-7.02252E-01	4.72038E-03	-6.93454E-01	1.33199E 01	-1.03095E 02	02
11.80	1.21210E 00	-1.23432E 01	-7.11763E-01	4.74024E-03	-7.02672E-01	1.34281E 01	-1.03335E 02	02
11.90	1.21206E 00	-1.24515E 01	-7.21331E-01	4.75974E-03	-7.11946E-01	1.35363E 01	-1.03572E 02	02
12.00	1.21201E 00	-1.25597E 01	-7.30956E-01	4.77890E-03	-7.21278E-01	1.36445E 01	-1.03807E 02	02

## ELECTRON RADIAL FUNCTIONS

	$Z=8$	$A=17$	$\rho=1.2 A^{1/3} F$				Electron
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	7.99587E-05	-9.97170E-02	-2.47600E-03	2.44751E 01	-2.53930E-03	1.17381E-01	-3.60656E-02
6.20	8.25932E-05	-1.03161E-01	-2.57780E-03	2.45083E 01	-2.63928E-03	1.21119E-01	-3.60875E-02
6.30	8.52705E-05	-1.06663E-01	-2.68217E-03	2.45404E 01	-2.74172E-03	1.24915E-01	-3.61090E-02
6.40	8.79906E-05	-1.10223E-01	-2.78912E-03	2.45714E 01	-2.84666E-03	1.28769E-01	-3.61301E-02
6.50	9.07533E-05	-1.13842E-01	-2.89869E-03	2.46014E 01	-2.95412E-03	1.32680E-01	-3.61507E-02
6.60	9.35589E-05	-1.17519E-01	-3.01090E-03	2.46304E 01	-3.06413E-03	1.36651E-01	-3.61709E-02
6.70	9.64073E-05	-1.21254E-01	-3.12577E-03	2.46586E 01	-3.17672E-03	1.40679E-01	-3.61908E-02
6.80	9.92983E-05	-1.25047E-01	-3.24335E-03	2.46858E 01	-3.29190E-03	1.44765E-01	-3.62102E-02
6.90	1.02232E-04	-1.28898E-01	-3.36365E-03	2.47122E 01	-3.40972E-03	1.48909E-01	-3.62292E-02
7.00	1.05209E-04	-1.32808E-01	-3.48671E-03	2.47378E 01	-3.53020E-03	1.53112E-01	-3.62479E-02
7.10	1.08228E-04	-1.36775E-01	-3.61254E-03	2.47626E 01	-3.65336E-03	1.57372E-01	-3.62662E-02
7.20	1.11290E-04	-1.40801E-01	-3.74119E-03	2.47867E 01	-3.77924E-03	1.61691E-01	-3.62841E-02
7.30	1.14395E-04	-1.44885E-01	-3.87267E-03	2.48101E 01	-3.90786E-03	1.66067E-01	-3.63017E-02
7.40	1.17543E-04	-1.49027E-01	-4.00702E-03	2.48328E 01	-4.03925E-03	1.70502E-01	-3.63189E-02
7.50	1.20733E-04	-1.53227E-01	-4.14426E-03	2.48549E 01	-4.17344E-03	1.74995E-01	-3.63358E-02
7.60	1.23966E-04	-1.57485E-01	-4.28441E-03	2.48764E 01	-4.31045E-03	1.79545E-01	-3.63524E-02
7.70	1.27242E-04	-1.61801E-01	-4.42752E-03	2.48972E 01	-4.45032E-03	1.84154E-01	-3.63687E-02
7.80	1.30561E-04	-1.66176E-01	-4.57360E-03	2.49175E 01	-4.59307E-03	1.88821E-01	-3.63846E-02
7.90	1.33922E-04	-1.70608E-01	-4.72268E-03	2.49373E 01	-4.73873E-03	1.93546E-01	-3.64003E-02
8.00	1.37326E-04	-1.75099E-01	-4.87479E-03	2.49565E 01	-4.88732E-03	1.98329E-01	-3.64156E-02
8.10	1.40773E-04	-1.79647E-01	-5.02996E-03	2.49752E 01	-5.03888E-03	2.03169E-01	-3.64307E-02
8.20	1.44262E-04	-1.84254E-01	-5.18822E-03	2.49935E 01	-5.19343E-03	2.08068E-01	-3.64455E-02
8.30	1.47795E-04	-1.88919E-01	-5.34958E-03	2.50112E 01	-5.35100E-03	2.13025E-01	-3.64600E-02
8.40	1.51370E-04	-1.93642E-01	-5.51409E-03	2.50286E 01	-5.51162E-03	2.18040E-01	-3.64742E-02
8.50	1.54988E-04	-1.98422E-01	-5.68177E-03	2.50455E 01	-5.67531E-03	2.23112E-01	-3.64882E-02
8.60	1.58648E-04	-2.03261E-01	-5.85265E-03	2.50619E 01	-5.84210E-03	2.28243E-01	-3.65020E-02
8.70	1.62351E-04	-2.08158E-01	-6.02675E-03	2.50780E 01	-6.01202E-03	2.33432E-01	-3.65155E-02
8.80	1.66097E-04	-2.13113E-01	-6.20410E-03	2.50937E 01	-6.18510E-03	2.38678E-01	-3.65287E-02
8.90	1.69886E-04	-2.18126E-01	-6.38473E-03	2.51090E 01	-6.36137E-03	2.43983E-01	-3.65417E-02
9.00	1.73718E-04	-2.23196E-01	-6.56866E-03	2.51240E 01	-6.54086E-03	2.49345E-01	-3.65545E-02
9.10	1.77592E-04	-2.28325E-01	-6.75593E-03	2.51386E 01	-6.72358E-03	2.54766E-01	-3.65671E-02
9.20	1.81509E-04	-2.33512E-01	-6.94657E-03	2.51528E 01	-6.90957E-03	2.60244E-01	-3.65795E-02
9.30	1.85468E-04	-2.38756E-01	-7.14059E-03	2.51668E 01	-7.09886E-03	2.65780E-01	-3.65916E-02
9.40	1.89471E-04	-2.44059E-01	-7.33803E-03	2.51804E 01	-7.29147E-03	2.71374E-01	-3.66035E-02
9.50	1.93516E-04	-2.49420E-01	-7.53892E-03	2.51937E 01	-7.48743E-03	2.77026E-01	-3.66153E-02
9.60	1.97604E-04	-2.54838E-01	-7.74328E-03	2.52068E 01	-7.68677E-03	2.82736E-01	-3.66268E-02
9.70	2.01735E-04	-2.60315E-01	-7.95114E-03	2.52195E 01	-7.88952E-03	2.88504E-01	-3.66381E-02
9.80	2.05908E-04	-2.65849E-01	-8.16253E-03	2.52320E 01	-8.09570E-03	2.94329E-01	-3.66493E-02
9.90	2.10124E-04	-2.71441E-01	-8.37747E-03	2.52442E 01	-8.30535E-03	3.00213E-01	-3.66603E-02
10.00	2.14383E-04	-2.77091E-01	-8.59600E-03	2.52561E 01	-8.51849E-03	3.06154E-01	-3.66711E-02
10.10	2.18684E-04	-2.82799E-01	-8.81813E-03	2.52678E 01	-8.73514E-03	3.12153E-01	-3.66817E-02
10.20	2.23029E-04	-2.88565E-01	-9.04391E-03	2.52793E 01	-8.95534E-03	3.18210E-01	-3.66921E-02
10.30	2.27416E-04	-2.94389E-01	-9.27335E-03	2.52905E 01	-9.17911E-03	3.24325E-01	-3.67024E-02
10.40	2.31846E-04	-3.00271E-01	-9.50648E-03	2.53015E 01	-9.40648E-03	3.30498E-01	-3.67125E-02
10.50	2.36318E-04	-3.06210E-01	-9.74334E-03	2.53123E 01	-9.63748E-03	3.36728E-01	-3.67224E-02
10.60	2.40833E-04	-3.12207E-01	-9.98394E-03	2.53228E 01	-9.87213E-03	3.43016E-01	-3.67322E-02
10.70	2.45391E-04	-3.18263E-01	-1.02283E-02	2.53332E 01	-1.01105E-02	3.49362E-01	-3.67419E-02
10.80	2.49992E-04	-3.24376E-01	-1.04765E-02	2.53433E 01	-1.03525E-02	3.55766E-01	-3.67514E-02
10.90	2.54635E-04	-3.30546E-01	-1.07285E-02	2.53533E 01	-1.05983E-02	3.62228E-01	-3.67607E-02
11.00	2.59321E-04	-3.36775E-01	-1.09844E-02	2.53630E 01	-1.08478E-02	3.68747E-01	-3.67699E-02
11.10	2.64050E-04	-3.43061E-01	-1.12442E-02	2.53726E 01	-1.11012E-02	3.75324E-01	-3.67790E-02
11.20	2.68821E-04	-3.49406E-01	-1.15078E-02	2.53820E 01	-1.13584E-02	3.81959E-01	-3.67879E-02
11.30	2.73636E-04	-3.55808E-01	-1.17755E-02	2.53912E 01	-1.16194E-02	3.88651E-01	-3.67967E-02
11.40	2.78493E-04	-3.62267E-01	-1.20470E-02	2.54003E 01	-1.18843E-02	3.95402E-01	-3.68054E-02
11.50	2.83392E-04	-3.68785E-01	-1.23226E-02	2.54091E 01	-1.21530E-02	4.02209E-01	-3.68139E-02
11.60	2.88334E-04	-3.75360E-01	-1.26022E-02	2.54179E 01	-1.24258E-02	4.09075E-01	-3.68223E-02
11.70	2.93320E-04	-3.81993E-01	-1.28859E-02	2.54264E 01	-1.27024E-02	4.15998E-01	-3.68306E-02
11.80	2.98347E-04	-3.88684E-01	-1.31736E-02	2.54348E 01	-1.29831E-02	4.22979E-01	-3.68388E-02
11.90	3.03418E-04	-3.95432E-01	-1.34655E-02	2.54431E 01	-1.32678E-02	4.30018E-01	-3.68469E-02
12.00	3.08531E-04	-4.02238E-01	-1.37614E-02	2.54512E 01	-1.35565E-02	4.37115E-01	-3.68548E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=8$		$A=17$		$\rho=1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
12.10	1.21196E 00	-1.26680E 01	-7.40638E-01	4.79771E-03	-7.30667E-01	1.37527E 01	-1.04039E 02			
12.20	1.21192E 00	-1.27762E 01	-7.50377E-01	4.81619E-03	-7.40112E-01	1.38608E 01	-1.04268E 02			
12.30	1.21187E 00	-1.28844E 01	-7.60173E-01	4.83435E-03	-7.49615E-01	1.39690E 01	-1.04495E 02			
12.40	1.21183E 00	-1.29926E 01	-7.70025E-01	4.85219E-03	-7.59174E-01	1.40771E 01	-1.04720E 02			
12.50	1.21178E 00	-1.31007E 01	-7.79935E-01	4.86971E-03	-7.68791E-01	1.41852E 01	-1.04942E 02			
12.60	1.21174E 00	-1.32089E 01	-7.89902E-01	4.88694E-03	-7.78464E-01	1.42932E 01	-1.05162E 02			
12.70	1.21170E 00	-1.33170E 01	-7.99926E-01	4.90387E-03	-7.88195E-01	1.44012E 01	-1.05380E 02			
12.80	1.21166E 00	-1.34251E 01	-8.10006E-01	4.92052E-03	-7.97982E-01	1.45093E 01	-1.05595E 02			
12.90	1.21161E 00	-1.35332E 01	-8.20144E-01	4.93687E-03	-8.07826E-01	1.46173E 01	-1.05809E 02			
13.00	1.21157E 00	-1.36412E 01	-8.30338E-01	4.95296E-03	-8.17728E-01	1.47252E 01	-1.06020E 02			
13.10	1.21153E 00	-1.37493E 01	-8.40590E-01	4.96878E-03	-8.27686E-01	1.48332E 01	-1.06229E 02			
13.20	1.21149E 00	-1.38573E 01	-8.50898E-01	4.98433E-03	-8.37701E-01	1.49411E 01	-1.06435E 02			
13.30	1.21145E 00	-1.39653E 01	-8.61263E-01	4.99962E-03	-8.47772E-01	1.50490E 01	-1.06640E 02			
13.40	1.21141E 00	-1.40733E 01	-8.71685E-01	5.01466E-03	-8.57901E-01	1.51569E 01	-1.06843E 02			
13.50	1.21137E 00	-1.41812E 01	-8.82164E-01	5.02946E-03	-8.68087E-01	1.52648E 01	-1.07044E 02			
13.60	1.21133E 00	-1.42892E 01	-8.92699E-01	5.04400E-03	-8.78329E-01	1.53726E 01	-1.07243E 02			
13.70	1.21129E 00	-1.43971E 01	-9.03292E-01	5.05831E-03	-8.88629E-01	1.54804E 01	-1.07440E 02			
13.80	1.21125E 00	-1.45050E 01	-9.13941E-01	5.07240E-03	-8.98985E-01	1.55883E 01	-1.07635E 02			
13.90	1.21122E 00	-1.46129E 01	-9.24647E-01	5.08626E-03	-9.09398E-01	1.56960E 01	-1.07829E 02			
14.00	1.21118E 00	-1.47207E 01	-9.35409E-01	5.09988E-03	-9.19867E-01	1.58038E 01	-1.08021E 02			
14.10	1.21114E 00	-1.48285E 01	-9.46229E-01	5.11330E-03	-9.30394E-01	1.59115E 01	-1.08211E 02			
14.20	1.21111E 00	-1.49364E 01	-9.57105E-01	5.12650E-03	-9.40977E-01	1.60193E 01	-1.08399E 02			
14.30	1.21107E 00	-1.50441E 01	-9.68038E-01	5.13950E-03	-9.51617E-01	1.61269E 01	-1.08585E 02			
14.40	1.21103E 00	-1.51519E 01	-9.79028E-01	5.15228E-03	-9.62314E-01	1.62346E 01	-1.08770E 02			
14.50	1.21100E 00	-1.52597E 01	-9.90075E-01	5.16485E-03	-9.73068E-01	1.63423E 01	-1.08954E 02			
14.60	1.21096E 00	-1.53674E 01	-1.00118E 00	5.17725E-03	-9.83878E-01	1.64499E 01	-1.09135E 02			
14.70	1.21093E 00	-1.54751E 01	-1.01234E 00	5.18944E-03	-9.94745E-01	1.65575E 01	-1.09315E 02			
14.80	1.21089E 00	-1.55828E 01	-1.02355E 00	5.20144E-03	-1.00567E 00	1.66651E 01	-1.09494E 02			
14.90	1.21086E 00	-1.56905E 01	-1.03483E 00	5.21326E-03	-1.01665E 00	1.67727E 01	-1.09671E 02			
15.00	1.21083E 00	-1.57981E 01	-1.04616E 00	5.22490E-03	-1.02769E 00	1.68802E 01	-1.09846E 02			
15.10	1.21079E 00	-1.59057E 01	-1.05754E 00	5.23635E-03	-1.03878E 00	1.69877E 01	-1.10021E 02			
15.20	1.21076E 00	-1.60133E 01	-1.06899E 00	5.24763E-03	-1.04993E 00	1.70952E 01	-1.10193E 02			
15.30	1.21073E 00	-1.61209E 01	-1.08049E 00	5.25874E-03	-1.06114E 00	1.72027E 01	-1.10365E 02			
15.40	1.21069E 00	-1.62285E 01	-1.09204E 00	5.26968E-03	-1.07240E 00	1.73102E 01	-1.10534E 02			
15.50	1.21066E 00	-1.63360E 01	-1.10365E 00	5.28045E-03	-1.08372E 00	1.74176E 01	-1.10703E 02			
15.60	1.21063E 00	-1.64435E 01	-1.11532E 00	5.29106E-03	-1.09510E 00	1.75250E 01	-1.10870E 02			
15.70	1.21060E 00	-1.65510E 01	-1.12705E 00	5.30150E-03	-1.10653E 00	1.76324E 01	-1.11036E 02			
15.80	1.21057E 00	-1.66585E 01	-1.13883E 00	5.31180E-03	-1.11802E 00	1.77398E 01	-1.11201E 02			
15.90	1.21054E 00	-1.67659E 01	-1.15067E 00	5.32194E-03	-1.12956E 00	1.78471E 01	-1.11364E 02			
16.00	1.21050E 00	-1.68733E 01	-1.16257E 00	5.33192E-03	-1.14117E 00	1.79544E 01	-1.11526E 02			
16.10	1.21047E 00	-1.69808E 01	-1.17452E 00	5.34175E-03	-1.15283E 00	1.80617E 01	-1.11687E 02			
16.20	1.21044E 00	-1.70881E 01	-1.18652E 00	5.35144E-03	-1.16454E 00	1.81690E 01	-1.11847E 02			
16.30	1.21041E 00	-1.71955E 01	-1.19859E 00	5.36098E-03	-1.17631E 00	1.82762E 01	-1.12005E 02			
16.40	1.21038E 00	-1.73028E 01	-1.21071E 00	5.37039E-03	-1.18814E 00	1.83835E 01	-1.12163E 02			
16.50	1.21035E 00	-1.74101E 01	-1.22289E 00	5.37965E-03	-1.20003E 00	1.84907E 01	-1.12319E 02			
16.60	1.21032E 00	-1.75174E 01	-1.23512E 00	5.38878E-03	-1.21197E 00	1.85979E 01	-1.12474E 02			
16.70	1.21029E 00	-1.76247E 01	-1.24741E 00	5.39777E-03	-1.22397E 00	1.87050E 01	-1.12628E 02			
16.80	1.21026E 00	-1.77320E 01	-1.25976E 00	5.40663E-03	-1.23602E 00	1.88122E 01	-1.12781E 02			
16.90	1.21024E 00	-1.78392E 01	-1.27216E 00	5.41537E-03	-1.24813E 00	1.89193E 01	-1.12932E 02			
17.00	1.21021E 00	-1.79464E 01	-1.28462E 00	5.42396E-03	-1.26030E 00	1.90264E 01	-1.13083E 02			
17.10	1.21018E 00	-1.80536E 01	-1.29714E 00	5.43244E-03	-1.27252E 00	1.91335E 01	-1.13233E 02			
17.20	1.21015E 00	-1.81607E 01	-1.30971E 00	5.44078E-03	-1.28480E 00	1.92405E 01	-1.13382E 02			
17.30	1.21012E 00	-1.82679E 01	-1.32234E 00	5.44902E-03	-1.29714E 00	1.93475E 01	-1.13530E 02			
17.40	1.21010E 00	-1.83750E 01	-1.33502E 00	5.45713E-03	-1.30953E 00	1.94545E 01	-1.13676E 02			
17.50	1.21007E 00	-1.84821E 01	-1.34776E 00	5.46512E-03	-1.32198E 00	1.95615E 01	-1.13822E 02			
17.60	1.21004E 00	-1.85892E 01	-1.36056E 00	5.47299E-03	-1.33448E 00	1.96685E 01	-1.13967E 02			
17.70	1.21001E 00	-1.86962E 01	-1.37341E 00	5.48074E-03	-1.34704E 00	1.97754E 01	-1.14111E 02			
17.80	1.20999E 00	-1.88032E 01	-1.38632E 00	5.48840E-03	-1.35966E 00	1.98823E 01	-1.14254E 02			
17.90	1.20996E 00	-1.89102E 01	-1.39929E 00	5.49593E-03	-1.37233E 00	1.99892E 01	-1.14396E 02			
18.00	1.20993E 00	-1.90172E 01	-1.41231E 00	5.50336E-03	-1.38506E 00	2.00961E 01	-1.14537E 02			

## ELECTRON RADIAL FUNCTIONS

	$Z=8$	$A=17$	$\rho=1.2A^{1/3}F$	Electron			
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	3.13687E-04	-4.09102E-01	-1.40616E-02	2.54592E 01	-1.38493E-02	4.44269E-01	-3.68626E-02
12.20	3.18886E-04	-4.16024E-01	-1.43659E-02	2.54670E 01	-1.41462E-02	4.51481E-01	-3.68703E-02
12.30	3.24128E-04	-4.23003E-01	-1.46745E-02	2.54747E 01	-1.44472E-02	4.58750E-01	-3.68779E-02
12.40	3.29412E-04	-4.30040E-01	-1.49873E-02	2.54823E 01	-1.47524E-02	4.66077E-01	-3.68854E-02
12.50	3.34739E-04	-4.37134E-01	-1.53043E-02	2.54897E 01	-1.50617E-02	4.73462E-01	-3.68928E-02
12.60	3.40108E-04	-4.44287E-01	-1.56257E-02	2.54971E 01	-1.53753E-02	4.80904E-01	-3.69001E-02
12.70	3.45520E-04	-4.51496E-01	-1.59514E-02	2.55043E 01	-1.56930E-02	4.88404E-01	-3.69073E-02
12.80	3.50975E-04	-4.58764E-01	-1.62814E-02	2.55113E 01	-1.60151E-02	4.95961E-01	-3.69144E-02
12.90	3.56473E-04	-4.66089E-01	-1.66158E-02	2.55183E 01	-1.63414E-02	5.03576E-01	-3.69214E-02
13.00	3.62013E-04	-4.73472E-01	-1.69547E-02	2.55252E 01	-1.66720E-02	5.11249E-01	-3.69283E-02
13.10	3.67596E-04	-4.80912E-01	-1.72979E-02	2.55319E 01	-1.70070E-02	5.18979E-01	-3.69352E-02
13.20	3.73222E-04	-4.88410E-01	-1.76456E-02	2.55385E 01	-1.73464E-02	5.26766E-01	-3.69419E-02
13.30	3.78891E-04	-4.95966E-01	-1.79979E-02	2.55451E 01	-1.76901E-02	5.34612E-01	-3.69485E-02
13.40	3.84602E-04	-5.03579E-01	-1.83546E-02	2.55515E 01	-1.80383E-02	5.42515E-01	-3.69551E-02
13.50	3.90356E-04	-5.11249E-01	-1.87159E-02	2.55578E 01	-1.83910E-02	5.50475E-01	-3.69615E-02
13.60	3.96153E-04	-5.18977E-01	-1.90817E-02	2.55641E 01	-1.87481E-02	5.58493E-01	-3.69679E-02
13.70	4.01992E-04	-5.26763E-01	-1.94522E-02	2.55702E 01	-1.91097E-02	5.66568E-01	-3.69742E-02
13.80	4.07874E-04	-5.34606E-01	-1.98273E-02	2.55762E 01	-1.94758E-02	5.74701E-01	-3.69804E-02
13.90	4.13799E-04	-5.42507E-01	-2.02070E-02	2.55822E 01	-1.98466E-02	5.82891E-01	-3.69866E-02
14.00	4.19766E-04	-5.50465E-01	-2.05915E-02	2.55881E 01	-2.02219E-02	5.91139E-01	-3.69927E-02
14.10	4.25776E-04	-5.58481E-01	-2.09806E-02	2.55938E 01	-2.06018E-02	5.99444E-01	-3.69986E-02
14.20	4.31829E-04	-5.66555E-01	-2.13745E-02	2.55995E 01	-2.09864E-02	6.07807E-01	-3.70046E-02
14.30	4.37925E-04	-5.74685E-01	-2.17731E-02	2.56051E 01	-2.13756E-02	6.16227E-01	-3.70104E-02
14.40	4.44063E-04	-5.82874E-01	-2.21765E-02	2.56106E 01	-2.17696E-02	6.24704E-01	-3.70162E-02
14.50	4.50244E-04	-5.91119E-01	-2.25848E-02	2.56161E 01	-2.21682E-02	6.33239E-01	-3.70219E-02
14.60	4.56468E-04	-5.99423E-01	-2.29979E-02	2.56215E 01	-2.25716E-02	6.41832E-01	-3.70275E-02
14.70	4.62734E-04	-6.07783E-01	-2.34158E-02	2.56268E 01	-2.29798E-02	6.50482E-01	-3.70331E-02
14.80	4.69043E-04	-6.16201E-01	-2.38387E-02	2.56320E 01	-2.33929E-02	6.59189E-01	-3.70386E-02
14.90	4.75395E-04	-6.24677E-01	-2.42665E-02	2.56371E 01	-2.38107E-02	6.67953E-01	-3.70440E-02
15.00	4.81790E-04	-6.33209E-01	-2.46993E-02	2.56422E 01	-2.42334E-02	6.76775E-01	-3.70494E-02
15.10	4.88227E-04	-6.41800E-01	-2.51370E-02	2.56472E 01	-2.46610E-02	6.85654E-01	-3.70547E-02
15.20	4.94706E-04	-6.50447E-01	-2.55798E-02	2.56521E 01	-2.50935E-02	6.94591E-01	-3.70599E-02
15.30	5.01229E-04	-6.59152E-01	-2.60275E-02	2.56570E 01	-2.55310E-02	7.03585E-01	-3.70651E-02
15.40	5.07794E-04	-6.67915E-01	-2.64804E-02	2.56618E 01	-2.59734E-02	7.12636E-01	-3.70702E-02
15.50	5.14403E-04	-6.76735E-01	-2.69384E-02	2.56665E 01	-2.64209E-02	7.21745E-01	-3.70753E-02
15.60	5.21053E-04	-6.85612E-01	-2.74014E-02	2.56712E 01	-2.68733E-02	7.30911E-01	-3.70803E-02
15.70	5.27747E-04	-6.94546E-01	-2.78696E-02	2.56758E 01	-2.73309E-02	7.40134E-01	-3.70852E-02
15.80	5.34483E-04	-7.03538E-01	-2.83430E-02	2.56803E 01	-2.77935E-02	7.49414E-01	-3.70901E-02
15.90	5.41261E-04	-7.12587E-01	-2.88216E-02	2.56848E 01	-2.82612E-02	7.58752E-01	-3.70949E-02
16.00	5.48083E-04	-7.21693E-01	-2.93054E-02	2.56893E 01	-2.87340E-02	7.68147E-01	-3.70997E-02
16.10	5.54947E-04	-7.30857E-01	-2.97945E-02	2.56936E 01	-2.92120E-02	7.77599E-01	-3.71044E-02
16.20	5.61854E-04	-7.40078E-01	-3.02889E-02	2.56979E 01	-2.96952E-02	7.87109E-01	-3.71091E-02
16.30	5.68803E-04	-7.49356E-01	-3.07885E-02	2.57022E 01	-3.01837E-02	7.96675E-01	-3.71137E-02
16.40	5.75796E-04	-7.58691E-01	-3.12935E-02	2.57064E 01	-3.06773E-02	8.06299E-01	-3.71183E-02
16.50	5.82830E-04	-7.68084E-01	-3.18039E-02	2.57106E 01	-3.11763E-02	8.15981E-01	-3.71228E-02
16.60	5.89908E-04	-7.77534E-01	-3.23197E-02	2.57147E 01	-3.16805E-02	8.25719E-01	-3.71273E-02
16.70	5.97028E-04	-7.87041E-01	-3.28409E-02	2.57187E 01	-3.21901E-02	8.35514E-01	-3.71317E-02
16.80	6.04191E-04	-7.96605E-01	-3.33675E-02	2.57227E 01	-3.27050E-02	8.45367E-01	-3.71361E-02
16.90	6.11397E-04	-8.06227E-01	-3.38996E-02	2.57267E 01	-3.32253E-02	8.55277E-01	-3.71404E-02
17.00	6.18645E-04	-8.15906E-01	-3.44372E-02	2.57306E 01	-3.37510E-02	8.65244E-01	-3.71447E-02
17.10	6.25937E-04	-8.25641E-01	-3.49803E-02	2.57344E 01	-3.42821E-02	8.75268E-01	-3.71489E-02
17.20	6.33271E-04	-8.35435E-01	-3.55290E-02	2.57382E 01	-3.48188E-02	8.85349E-01	-3.71531E-02
17.30	6.40647E-04	-8.45285E-01	-3.60833E-02	2.57420E 01	-3.53609E-02	8.95488E-01	-3.71573E-02
17.40	6.48066E-04	-8.55192E-01	-3.66432E-02	2.57457E 01	-3.59085E-02	9.05683E-01	-3.71614E-02
17.50	6.55528E-04	-8.65157E-01	-3.72087E-02	2.57494E 01	-3.64616E-02	9.15936E-01	-3.71654E-02
17.60	6.63032E-04	-8.75178E-01	-3.77799E-02	2.57530E 01	-3.70204E-02	9.26245E-01	-3.71695E-02
17.70	6.70579E-04	-8.85257E-01	-3.83568E-02	2.57566E 01	-3.75847E-02	9.36612E-01	-3.71734E-02
17.80	6.78169E-04	-8.95393E-01	-3.89394E-02	2.57601E 01	-3.81546E-02	9.47036E-01	-3.71774E-02
17.90	6.85802E-04	-9.05585E-01	-3.95277E-02	2.57636E 01	-3.87303E-02	9.57516E-01	-3.71813E-02
18.00	6.93477E-04	-9.15835E-01	-4.01218E-02	2.57671E 01	-3.93115E-02	9.68054E-01	-3.71851E-02



## ELECTRON RADIAL FUNCTIONS

Electron	Z = 8		A = 17		$\rho = 1.2 A^{1/3} F$					
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$		
18.10	1.20991 E 00	-1.91242 E 01	-1.42539 E 00	5.51069 E-03	-1.39785 E 00	2.02029 E 01	-1.14678 E 02			
18.20	1.20988 E 00	-1.92311 E 01	-1.43852 E 00	5.51790 E-03	-1.41069 E 00	2.03097 E 01	-1.14817 E 02			
18.30	1.20985 E 00	-1.93380 E 01	-1.45171 E 00	5.52501 E-03	-1.42359 E 00	2.04165 E 01	-1.14956 E 02			
18.40	1.20983 E 00	-1.94449 E 01	-1.46496 E 00	5.53200 E-03	-1.43655 E 00	2.05233 E 01	-1.15094 E 02			
18.50	1.20980 E 00	-1.95517 E 01	-1.47826 E 00	5.53891 E-03	-1.44956 E 00	2.06300 E 01	-1.15231 E 02			
18.60	1.20978 E 00	-1.96586 E 01	-1.49162 E 00	5.54573 E-03	-1.46262 E 00	2.07368 E 01	-1.15367 E 02			
18.70	1.20975 E 00	-1.97654 E 01	-1.50504 E 00	5.55243 E-03	-1.47575 E 00	2.08435 E 01	-1.15503 E 02			
18.80	1.20973 E 00	-1.98722 E 01	-1.51851 E 00	5.55904 E-03	-1.48893 E 00	2.09501 E 01	-1.15637 E 02			
18.90	1.20970 E 00	-1.99790 E 01	-1.53203 E 00	5.56555 E-03	-1.50216 E 00	2.10568 E 01	-1.15771 E 02			
19.00	1.20968 E 00	-2.00857 E 01	-1.54562 E 00	5.57197 E-03	-1.51545 E 00	2.11634 E 01	-1.15904 E 02			
19.10	1.20965 E 00	-2.01924 E 01	-1.55926 E 00	5.57830 E-03	-1.52880 E 00	2.12700 E 01	-1.16037 E 02			
19.20	1.20963 E 00	-2.02991 E 01	-1.57295 E 00	5.58455 E-03	-1.54220 E 00	2.13766 E 01	-1.16168 E 02			
19.30	1.20960 E 00	-2.04058 E 01	-1.58670 E 00	5.59068 E-03	-1.55566 E 00	2.14831 E 01	-1.16299 E 02			
19.40	1.20958 E 00	-2.05124 E 01	-1.60051 E 00	5.59674 E-03	-1.56918 E 00	2.15897 E 01	-1.16430 E 02			
19.50	1.20956 E 00	-2.06191 E 01	-1.61437 E 00	5.60272 E-03	-1.58275 E 00	2.16962 E 01	-1.16559 E 02			
19.60	1.20953 E 00	-2.07257 E 01	-1.62829 E 00	5.60860 E-03	-1.59637 E 00	2.18027 E 01	-1.16688 E 02			
19.70	1.20951 E 00	-2.08322 E 01	-1.64226 E 00	5.61440 E-03	-1.61006 E 00	2.19091 E 01	-1.16817 E 02			
19.80	1.20948 E 00	-2.09388 E 01	-1.65630 E 00	5.62011 E-03	-1.62380 E 00	2.20156 E 01	-1.16944 E 02			
19.90	1.20946 E 00	-2.10453 E 01	-1.67038 E 00	5.62574 E-03	-1.63759 E 00	2.21220 E 01	-1.17071 E 02			
20.00	1.20944 E 00	-2.11518 E 01	-1.68452 E 00	5.63129 E-03	-1.65144 E 00	2.22283 E 01	-1.17197 E 02			
20.10	1.20941 E 00	-2.12583 E 01	-1.69872 E 00	5.63676 E-03	-1.66535 E 00	2.23347 E 01	-1.17323 E 02			
20.20	1.20939 E 00	-2.13648 E 01	-1.71298 E 00	5.64215 E-03	-1.67931 E 00	2.24410 E 01	-1.17448 E 02			
20.30	1.20937 E 00	-2.14712 E 01	-1.72729 E 00	5.64745 E-03	-1.69333 E 00	2.25474 E 01	-1.17573 E 02			
20.40	1.20935 E 00	-2.15776 E 01	-1.74165 E 00	5.65268 E-03	-1.70740 E 00	2.26536 E 01	-1.17697 E 02			
20.50	1.20932 E 00	-2.16840 E 01	-1.75607 E 00	5.65784 E-03	-1.72153 E 00	2.27599 E 01	-1.17820 E 02			
20.60	1.20930 E 00	-2.17903 E 01	-1.77055 E 00	5.66292 E-03	-1.73572 E 00	2.28661 E 01	-1.17943 E 02			
20.70	1.20928 E 00	-2.18967 E 01	-1.78508 E 00	5.66793 E-03	-1.74996 E 00	2.29723 E 01	-1.18065 E 02			
20.80	1.20926 E 00	-2.20030 E 01	-1.79967 E 00	5.67284 E-03	-1.76426 E 00	2.30785 E 01	-1.18187 E 02			
20.90	1.20923 E 00	-2.21093 E 01	-1.81432 E 00	5.67771 E-03	-1.77861 E 00	2.31847 E 01	-1.18308 E 02			
21.00	1.20921 E 00	-2.22155 E 01	-1.82902 E 00	5.68249 E-03	-1.79302 E 00	2.32908 E 01	-1.18428 E 02			
21.10	1.20919 E 00	-2.23218 E 01	-1.84377 E 00	5.68720 E-03	-1.80749 E 00	2.33969 E 01	-1.18548 E 02			
21.20	1.20917 E 00	-2.24280 E 01	-1.85858 E 00	5.69185 E-03	-1.82201 E 00	2.35030 E 01	-1.18668 E 02			
21.30	1.20915 E 00	-2.25342 E 01	-1.87345 E 00	5.69642 E-03	-1.83658 E 00	2.36091 E 01	-1.18787 E 02			
21.40	1.20913 E 00	-2.26403 E 01	-1.88837 E 00	5.70093 E-03	-1.85121 E 00	2.37151 E 01	-1.18905 E 02			
21.50	1.20910 E 00	-2.27464 E 01	-1.90335 E 00	5.70537 E-03	-1.86590 E 00	2.38211 E 01	-1.19023 E 02			
21.60	1.20908 E 00	-2.28526 E 01	-1.91839 E 00	5.70975 E-03	-1.88064 E 00	2.39271 E 01	-1.19140 E 02			
21.70	1.20906 E 00	-2.29586 E 01	-1.93348 E 00	5.71405 E-03	-1.89544 E 00	2.40331 E 01	-1.19258 E 02			
21.80	1.20904 E 00	-2.30647 E 01	-1.94862 E 00	5.71829 E-03	-1.91030 E 00	2.41390 E 01	-1.19374 E 02			
21.90	1.20902 E 00	-2.31707 E 01	-1.96382 E 00	5.72246 E-03	-1.92521 E 00	2.42449 E 01	-1.19490 E 02			
22.00	1.20900 E 00	-2.32767 E 01	-1.97908 E 00	5.72658 E-03	-1.94017 E 00	2.43508 E 01	-1.19606 E 02			
22.10	1.20898 E 00	-2.33827 E 01	-1.99439 E 00	5.73064 E-03	-1.95519 E 00	2.44566 E 01	-1.19721 E 02			
22.20	1.20896 E 00	-2.34887 E 01	-2.00976 E 00	5.73462 E-03	-1.97027 E 00	2.45625 E 01	-1.19836 E 02			
22.30	1.20894 E 00	-2.35946 E 01	-2.02518 E 00	5.73854 E-03	-1.98540 E 00	2.46683 E 01	-1.19950 E 02			
22.40	1.20892 E 00	-2.37005 E 01	-2.04066 E 00	5.74241 E-03	-2.00059 E 00	2.47741 E 01	-1.20064 E 02			
22.50	1.20890 E 00	-2.38064 E 01	-2.05619 E 00	5.74622 E-03	-2.01583 E 00	2.48798 E 01	-1.20177 E 02			
22.60	1.20888 E 00	-2.39122 E 01	-2.07178 E 00	5.74996 E-03	-2.03113 E 00	2.49855 E 01	-1.20291 E 02			
22.70	1.20886 E 00	-2.40181 E 01	-2.08743 E 00	5.75364 E-03	-2.04649 E 00	2.50912 E 01	-1.20403 E 02			
22.80	1.20884 E 00	-2.41239 E 01	-2.10313 E 00	5.75728 E-03	-2.06190 E 00	2.51969 E 01	-1.20515 E 02			
22.90	1.20882 E 00	-2.42297 E 01	-2.11888 E 00	5.76085 E-03	-2.07736 E 00	2.53026 E 01	-1.20627 E 02			
23.00	1.20880 E 00	-2.43354 E 01	-2.13469 E 00	5.76437 E-03	-2.09288 E 00	2.54082 E 01	-1.20739 E 02			
23.10	1.20878 E 00	-2.44411 E 01	-2.15056 E 00	5.76782 E-03	-2.10846 E 00	2.55138 E 01	-1.20850 E 02			
23.20	1.20876 E 00	-2.45468 E 01	-2.16648 E 00	5.77122 E-03	-2.12409 E 00	2.56193 E 01	-1.20961 E 02			
23.30	1.20874 E 00	-2.46525 E 01	-2.18246 E 00	5.77458 E-03	-2.13977 E 00	2.57249 E 01	-1.21071 E 02			
23.40	1.20872 E 00	-2.47581 E 01	-2.19849 E 00	5.77787 E-03	-2.15551 E 00	2.58304 E 01	-1.21181 E 02			
23.50	1.20870 E 00	-2.48638 E 01	-2.21458 E 00	5.78110 E-03	-2.17131 E 00	2.59359 E 01	-1.21291 E 02			
23.60	1.20868 E 00	-2.49694 E 01	-2.23072 E 00	5.78430 E-03	-2.18716 E 00	2.60414 E 01	-1.21400 E 02			
23.70	1.20866 E 00	-2.50749 E 01	-2.24692 E 00	5.78743 E-03	-2.20307 E 00	2.61468 E 01	-1.21509 E 02			
23.80	1.20864 E 00	-2.51805 E 01	-2.26317 E 00	5.79051 E-03	-2.21903 E 00	2.62522 E 01	-1.21618 E 02			
23.90	1.20863 E 00	-2.52860 E 01	-2.27948 E 00	5.79354 E-03	-2.23505 E 00	2.63576 E 01	-1.21726 E 02			
24.00	1.20861 E 00	-2.53915 E 01	-2.29584 E 00	5.79652 E-03	-2.25113 E 00	2.64629 E 01	-1.21834 E 02			

## ELECTRON RADIAL FUNCTIONS

$\rho$	$Z=8 \quad A=17 \quad \rho=1.2 A^{1/3} F$								Electron
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$		
18.10	7.01196E-04	-9.26143E-01	-4.07218E-02	2.57705E 01	-3.98986E-02	9.78650E-01	-3.71889E-02		
18.20	7.08956E-04	-9.36507E-01	-4.13275E-02	2.57739E 01	-4.04913E-02	9.89301E-01	-3.71927E-02		
18.30	7.16759E-04	-9.46928E-01	-4.19391E-02	2.57772E 01	-4.10898E-02	1.00001E 00	-3.71965E-02		
18.40	7.24605E-04	-9.57406E-01	-4.25565E-02	2.57805E 01	-4.16941E-02	1.01078E 00	-3.72002E-02		
18.50	7.32494E-04	-9.67941E-01	-4.31799E-02	2.57838E 01	-4.23042E-02	1.02160E 00	-3.72038E-02		
18.60	7.40426E-04	-9.78533E-01	-4.38092E-02	2.57870E 01	-4.29201E-02	1.03248E 00	-3.72075E-02		
18.70	7.48399E-04	-9.89182E-01	-4.44445E-02	2.57902E 01	-4.35419E-02	1.04341E 00	-3.72111E-02		
18.80	7.56416E-04	-9.99888E-01	-4.50858E-02	2.57934E 01	-4.41696E-02	1.05441E 00	-3.72146E-02		
18.90	7.64476E-04	-1.01065E 00	-4.57331E-02	2.57965E 01	-4.48033E-02	1.06546E 00	-3.72182E-02		
19.00	7.72578E-04	-1.02147E 00	-4.63864E-02	2.57996E 01	-4.54428E-02	1.07657E 00	-3.72217E-02		
19.10	7.80722E-04	-1.03235E 00	-4.70458E-02	2.58027E 01	-4.60884E-02	1.08773E 00	-3.72251E-02		
19.20	7.88910E-04	-1.04328E 00	-4.77113E-02	2.58057E 01	-4.67400E-02	1.09895E 00	-3.72286E-02		
19.30	7.97140E-04	-1.05427E 00	-4.83829E-02	2.58087E 01	-4.73976E-02	1.11023E 00	-3.72319E-02		
19.40	8.05413E-04	-1.06532E 00	-4.90607E-02	2.58117E 01	-4.80612E-02	1.12156E 00	-3.72353E-02		
19.50	8.13729E-04	-1.07643E 00	-4.97446E-02	2.58146E 01	-4.87310E-02	1.13296E 00	-3.72386E-02		
19.60	8.22087E-04	-1.08759E 00	-5.04348E-02	2.58175E 01	-4.94068E-02	1.14441E 00	-3.72419E-02		
19.70	8.30488E-04	-1.09880E 00	-5.11312E-02	2.58203E 01	-5.00888E-02	1.15591E 00	-3.72452E-02		
19.80	8.38931E-04	-1.11008E 00	-5.18338E-02	2.58232E 01	-5.07770E-02	1.16747E 00	-3.72485E-02		
19.90	8.47418E-04	-1.12141E 00	-5.25428E-02	2.58260E 01	-5.14713E-02	1.17909E 00	-3.72517E-02		
20.00	8.55946E-04	-1.13280E 00	-5.32580E-02	2.58288E 01	-5.21719E-02	1.19077E 00	-3.72548E-02		
20.10	8.64518E-04	-1.14425E 00	-5.39796E-02	2.58315E 01	-5.28788E-02	1.20250E 00	-3.72580E-02		
20.20	8.73132E-04	-1.15575E 00	-5.47076E-02	2.58342E 01	-5.35919E-02	1.21429E 00	-3.72611E-02		
20.30	8.81789E-04	-1.16731E 00	-5.54419E-02	2.58369E 01	-5.43113E-02	1.22614E 00	-3.72642E-02		
20.40	8.90489E-04	-1.17892E 00	-5.61827E-02	2.58396E 01	-5.50370E-02	1.23804E 00	-3.72673E-02		
20.50	8.99231E-04	-1.19060E 00	-5.69299E-02	2.58422E 01	-5.57691E-02	1.25000E 00	-3.72703E-02		
20.60	9.08016E-04	-1.20233E 00	-5.76836E-02	2.58449E 01	-5.65076E-02	1.26201E 00	-3.72733E-02		
20.70	9.16844E-04	-1.21411E 00	-5.84438E-02	2.58474E 01	-5.72524E-02	1.27409E 00	-3.72763E-02		
20.80	9.25714E-04	-1.22595E 00	-5.92105E-02	2.58500E 01	-5.80038E-02	1.28622E 00	-3.72793E-02		
20.90	9.34627E-04	-1.23785E 00	-5.99838E-02	2.58525E 01	-5.87615E-02	1.29840E 00	-3.72822E-02		
21.00	9.43583E-04	-1.24981E 00	-6.07636E-02	2.58550E 01	-5.95258E-02	1.31065E 00	-3.72851E-02		
21.10	9.52581E-04	-1.26182E 00	-6.15501E-02	2.58575E 01	-6.02966E-02	1.32295E 00	-3.72880E-02		
21.20	9.61622E-04	-1.27389E 00	-6.23432E-02	2.58600E 01	-6.10739E-02	1.33530E 00	-3.72908E-02		
21.30	9.70706E-04	-1.28602E 00	-6.31430E-02	2.58624E 01	-6.18579E-02	1.34771E 00	-3.72937E-02		
21.40	9.79832E-04	-1.29820E 00	-6.39494E-02	2.58648E 01	-6.26484E-02	1.36018E 00	-3.72965E-02		
21.50	9.89001E-04	-1.31044E 00	-6.47626E-02	2.58672E 01	-6.34455E-02	1.37271E 00	-3.72992E-02		
21.60	9.98213E-04	-1.32274E 00	-6.55826E-02	2.58696E 01	-6.42493E-02	1.38529E 00	-3.73020E-02		
21.70	1.00747E-03	-1.33509E 00	-6.64092E-02	2.58719E 01	-6.50597E-02	1.39793E 00	-3.73047E-02		
21.80	1.01676E-03	-1.34750E 00	-6.72427E-02	2.58743E 01	-6.58769E-02	1.41063E 00	-3.73075E-02		
21.90	1.02610E-03	-1.35997E 00	-6.80830E-02	2.58766E 01	-6.67008E-02	1.42338E 00	-3.73101E-02		
22.00	1.03549E-03	-1.37249E 00	-6.89302E-02	2.58788E 01	-6.75315E-02	1.43619E 00	-3.73128E-02		
22.10	1.04491E-03	-1.38507E 00	-6.97843E-02	2.58811E 01	-6.83689E-02	1.44905E 00	-3.73154E-02		
22.20	1.05438E-03	-1.39770E 00	-7.06452E-02	2.58833E 01	-6.92132E-02	1.46197E 00	-3.73181E-02		
22.30	1.06389E-03	-1.41040E 00	-7.15131E-02	2.58856E 01	-7.00643E-02	1.47495E 00	-3.73207E-02		
22.40	1.07344E-03	-1.42314E 00	-7.23879E-02	2.58877E 01	-7.09222E-02	1.48799E 00	-3.73232E-02		
22.50	1.08304E-03	-1.43595E 00	-7.32697E-02	2.58899E 01	-7.17871E-02	1.50108E 00	-3.73258E-02		
22.60	1.09268E-03	-1.44881E 00	-7.41586E-02	2.58921E 01	-7.26589E-02	1.51423E 00	-3.73283E-02		
22.70	1.10236E-03	-1.46173E 00	-7.50545E-02	2.58942E 01	-7.35376E-02	1.52743E 00	-3.73308E-02		
22.80	1.11208E-03	-1.47470E 00	-7.59574E-02	2.58963E 01	-7.44233E-02	1.54069E 00	-3.73333E-02		
22.90	1.12185E-03	-1.48773E 00	-7.68674E-02	2.58984E 01	-7.53160E-02	1.55401E 00	-3.73358E-02		
23.00	1.13166E-03	-1.50082E 00	-7.77846E-02	2.59005E 01	-7.62157E-02	1.56738E 00	-3.73383E-02		
23.10	1.14151E-03	-1.51396E 00	-7.87089E-02	2.59026E 01	-7.71225E-02	1.58081E 00	-3.73407E-02		
23.20	1.15140E-03	-1.52717E 00	-7.96404E-02	2.59046E 01	-7.80364E-02	1.59430E 00	-3.73431E-02		
23.30	1.16134E-03	-1.54042E 00	-8.05790E-02	2.59066E 01	-7.89573E-02	1.60784E 00	-3.73455E-02		
23.40	1.17132E-03	-1.55373E 00	-8.15249E-02	2.59086E 01	-7.98854E-02	1.62144E 00	-3.73479E-02		
23.50	1.18134E-03	-1.56710E 00	-8.24781E-02	2.59106E 01	-8.08207E-02	1.63509E 00	-3.73502E-02		
23.60	1.19141E-03	-1.58053E 00	-8.34385E-02	2.59126E 01	-8.17631E-02	1.64880E 00	-3.73526E-02		
23.70	1.20152E-03	-1.59401E 00	-8.44062E-02	2.59145E 01	-8.27128E-02	1.66257E 00	-3.73549E-02		
23.80	1.21167E-03	-1.60755E 00	-8.53812E-02	2.59165E 01	-8.36697E-02	1.67639E 00	-3.73572E-02		
23.90	1.22186E-03	-1.62114E 00	-8.63637E-02	2.59184E 01	-8.46339E-02	1.69027E 00	-3.73595E-02		
24.00	1.23210E-03	-1.63479E 00	-8.73535E-02	2.59203E 01	-8.56053E-02	1.70421E 00	-3.73617E-02		



ELECTRON RADIAL FUNCTIONS

Electron	$Z=8$		$A=17$		$\rho=1.2A^{1/3}F$								
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$					
24.10	1.20859E	00	-2.54969E	01	-2.31226E	00	5.79945E-03	-2.26725E	00	2.65683E	01	-1.21942E	02
24.20	1.20857E	00	-2.56024E	01	-2.32874E	00	5.80232E-03	-2.28344E	00	2.66736E	01	-1.22050E	02
24.30	1.20855E	00	-2.57078E	01	-2.34527E	00	5.80516E-03	-2.29968E	00	2.67789E	01	-1.22157E	02
24.40	1.20853E	00	-2.58132E	01	-2.36185E	00	5.80793E-03	-2.31597E	00	2.68841E	01	-1.22264E	02
24.50	1.20851E	00	-2.59185E	01	-2.37849E	00	5.81067E-03	-2.33232E	00	2.69893E	01	-1.22370E	02
24.60	1.20850E	00	-2.60238E	01	-2.39518E	00	5.81335E-03	-2.34872E	00	2.70945E	01	-1.22476E	02
24.70	1.20848E	00	-2.61291E	01	-2.41193E	00	5.81599E-03	-2.36518E	00	2.71997E	01	-1.22582E	02
24.80	1.20846E	00	-2.62344E	01	-2.42874E	00	5.81858E-03	-2.38170E	00	2.73048E	01	-1.22688E	02
24.90	1.20844E	00	-2.63397E	01	-2.44560E	00	5.82112E-03	-2.39827E	00	2.74099E	01	-1.22793E	02
25.00	1.20842E	00	-2.64449E	01	-2.46251E	00	5.82362E-03	-2.41489E	00	2.75150E	01	-1.22898E	02
25.10	1.20841E	00	-2.65501E	01	-2.47948E	00	5.82607E-03	-2.43157E	00	2.76201E	01	-1.23003E	02
25.20	1.20839E	00	-2.66552E	01	-2.49650E	00	5.82849E-03	-2.44831E	00	2.77251E	01	-1.23108E	02
25.30	1.20837E	00	-2.67604E	01	-2.51358E	00	5.83085E-03	-2.46510E	00	2.78301E	01	-1.23212E	02
25.40	1.20835E	00	-2.68655E	01	-2.53072E	00	5.83317E-03	-2.48194E	00	2.79351E	01	-1.23316E	02
25.50	1.20834E	00	-2.69706E	01	-2.54791E	00	5.83544E-03	-2.49884E	00	2.80400E	01	-1.23420E	02
25.60	1.20832E	00	-2.70756E	01	-2.56515E	00	5.83766E-03	-2.51579E	00	2.81449E	01	-1.23524E	02
25.70	1.20830E	00	-2.71806E	01	-2.58245E	00	5.83985E-03	-2.53280E	00	2.82498E	01	-1.23627E	02
25.80	1.20828E	00	-2.72856E	01	-2.59980E	00	5.84200E-03	-2.54987E	00	2.83547E	01	-1.23731E	02
25.90	1.20827E	00	-2.73906E	01	-2.61721E	00	5.84410E-03	-2.56699E	00	2.84595E	01	-1.23834E	02
26.00	1.20825E	00	-2.74955E	01	-2.63468E	00	5.84616E-03	-2.58416E	00	2.85643E	01	-1.23936E	02
26.10	1.20823E	00	-2.76005E	01	-2.65219E	00	5.84818E-03	-2.60139E	00	2.86691E	01	-1.24039E	02
26.20	1.20822E	00	-2.77053E	01	-2.66977E	00	5.85015E-03	-2.61867E	00	2.87739E	01	-1.24141E	02
26.30	1.20820E	00	-2.78102E	01	-2.68740E	00	5.85209E-03	-2.63601E	00	2.88786E	01	-1.24243E	02
26.40	1.20818E	00	-2.79150E	01	-2.70508E	00	5.85399E-03	-2.65340E	00	2.89833E	01	-1.24345E	02
26.50	1.20817E	00	-2.80198E	01	-2.72282E	00	5.85584E-03	-2.67085E	00	2.90879E	01	-1.24447E	02
26.60	1.20815E	00	-2.81246E	01	-2.74061E	00	5.85766E-03	-2.68835E	00	2.91926E	01	-1.24549E	02
26.70	1.20813E	00	-2.82294E	01	-2.75845E	00	5.85944E-03	-2.70591E	00	2.92972E	01	-1.24650E	02
26.80	1.20812E	00	-2.83341E	01	-2.77636E	00	5.86118E-03	-2.72352E	00	2.94018E	01	-1.24751E	02
26.90	1.20810E	00	-2.84388E	01	-2.79431E	00	5.86287E-03	-2.74119E	00	2.95063E	01	-1.24852E	02
27.00	1.20808E	00	-2.85434E	01	-2.81232E	00	5.86454E-03	-2.75891E	00	2.96108E	01	-1.24953E	02
27.10	1.20807E	00	-2.86481E	01	-2.83039E	00	5.86616E-03	-2.77669E	00	2.97153E	01	-1.25054E	02
27.20	1.20805E	00	-2.87527E	01	-2.84851E	00	5.86774E-03	-2.79452E	00	2.98198E	01	-1.25154E	02
27.30	1.20803E	00	-2.88572E	01	-2.86668E	00	5.86930E-03	-2.81240E	00	2.99242E	01	-1.25254E	02
27.40	1.20802E	00	-2.89618E	01	-2.88491E	00	5.87080E-03	-2.83034E	00	3.00286E	01	-1.25355E	02
27.50	1.20800E	00	-2.90663E	01	-2.90319E	00	5.87229E-03	-2.84834E	00	3.01330E	01	-1.25454E	02
27.60	1.20799E	00	-2.91708E	01	-2.92153E	00	5.87371E-03	-2.86639E	00	3.02374E	01	-1.25554E	02
27.70	1.20797E	00	-2.92753E	01	-2.93993E	00	5.87512E-03	-2.88449E	00	3.03417E	01	-1.25654E	02
27.80	1.20795E	00	-2.93797E	01	-2.95837E	00	5.87649E-03	-2.90265E	00	3.04460E	01	-1.25754E	02
27.90	1.20794E	00	-2.94841E	01	-2.97687E	00	5.87782E-03	-2.92086E	00	3.05502E	01	-1.25853E	02
28.00	1.20792E	00	-2.95885E	01	-2.99543E	00	5.87911E-03	-2.93913E	00	3.06545E	01	-1.25952E	02
28.10	1.20791E	00	-2.96928E	01	-3.01404E	00	5.88038E-03	-2.95745E	00	3.07587E	01	-1.26051E	02
28.20	1.20789E	00	-2.97971E	01	-3.03271E	00	5.88160E-03	-2.97583E	00	3.08629E	01	-1.26151E	02
28.30	1.20788E	00	-2.99014E	01	-3.05142E	00	5.88279E-03	-2.99426E	00	3.09670E	01	-1.26249E	02
28.40	1.20786E	00	-3.00057E	01	-3.07020E	00	5.88394E-03	-3.01274E	00	3.10711E	01	-1.26348E	02
28.50	1.20784E	00	-3.01099E	01	-3.08903E	00	5.88507E-03	-3.03128E	00	3.11752E	01	-1.26447E	02
28.60	1.20783E	00	-3.02141E	01	-3.10791E	00	5.88616E-03	-3.04988E	00	3.12792E	01	-1.26545E	02
28.70	1.20781E	00	-3.03182E	01	-3.12684E	00	5.88722E-03	-3.06852E	00	3.13833E	01	-1.26644E	02
28.80	1.20780E	00	-3.04224E	01	-3.14584E	00	5.88825E-03	-3.08723E	00	3.14873E	01	-1.26742E	02
28.90	1.20778E	00	-3.05265E	01	-3.16488E	00	5.88924E-03	-3.10598E	00	3.15912E	01	-1.26840E	02
29.00	1.20777E	00	-3.06306E	01	-3.18398E	00	5.89019E-03	-3.12479E	00	3.16952E	01	-1.26938E	02
29.10	1.20775E	00	-3.07346E	01	-3.20313E	00	5.89112E-03	-3.14366E	00	3.17991E	01	-1.27036E	02
29.20	1.20774E	00	-3.08386E	01	-3.22234E	00	5.89201E-03	-3.16258E	00	3.19030E	01	-1.27134E	02
29.30	1.20772E	00	-3.09426E	01	-3.24160E	00	5.89287E-03	-3.18155E	00	3.20068E	01	-1.27232E	02
29.40	1.20771E	00	-3.10466E	01	-3.26092E	00	5.89371E-03	-3.20058E	00	3.21106E	01	-1.27330E	02
29.50	1.20769E	00	-3.11505E	01	-3.28029E	00	5.89451E-03	-3.21966E	00	3.22144E	01	-1.27427E	02
29.60	1.20768E	00	-3.12544E	01	-3.29971E	00	5.89527E-03	-3.23880E	00	3.23182E	01	-1.27525E	02
29.70	1.20766E	00	-3.13583E	01	-3.31919E	00	5.89601E-03	-3.25799E	00	3.24219E	01	-1.27623E	02
29.80	1.20765E	00	-3.14621E	01	-3.33873E	00	5.89671E-03	-3.27723E	00	3.25256E	01	-1.27720E	02
29.90	1.20764E	00	-3.15659E	01	-3.35831E	00	5.89740E-03	-3.29653E	00	3.26292E	01	-1.27817E	02
30.00	1.20762E	00	-3.16697E	01	-3.37795E	00	5.89804E-03	-3.31588E	00	3.27329E	01	-1.27915E	02

## ELECTRON RADIAL FUNCTIONS

	$Z = 8$			$A = 17$			$\rho = 1.2 A^{1/3} F$			Electron
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$			
24.10	1.24237E-03	-1.64850E 00	-8.83507E-02	2.59222E 01	-8.65842E-02	1.71820E 00	-3.73640E-02			
24.20	1.25270E-03	-1.66227E 00	-8.93554E-02	2.59240E 01	-8.75703E-02	1.73225E 00	-3.73662E-02			
24.30	1.26306E-03	-1.67608E 00	-9.03675E-02	2.59259E 01	-8.85638E-02	1.74635E 00	-3.73684E-02			
24.40	1.27347E-03	-1.68996E 00	-9.13871E-02	2.59277E 01	-8.95647E-02	1.76052E 00	-3.73706E-02			
24.50	1.28391E-03	-1.70389E 00	-9.24143E-02	2.59296E 01	-9.05731E-02	1.77473E 00	-3.73728E-02			
24.60	1.29441E-03	-1.71788E 00	-9.34490E-02	2.59314E 01	-9.15888E-02	1.78901E 00	-3.73750E-02			
24.70	1.30494E-03	-1.73192E 00	-9.44912E-02	2.59332E 01	-9.26121E-02	1.80333E 00	-3.73771E-02			
24.80	1.31552E-03	-1.74603E 00	-9.55410E-02	2.59349E 01	-9.36429E-02	1.81772E 00	-3.73793E-02			
24.90	1.32614E-03	-1.76018E 00	-9.65985E-02	2.59367E 01	-9.46812E-02	1.83216E 00	-3.73814E-02			
25.00	1.33680E-03	-1.77439E 00	-9.76636E-02	2.59384E 01	-9.57271E-02	1.84666E 00	-3.73835E-02			
25.10	1.34751E-03	-1.78866E 00	-9.87364E-02	2.59402E 01	-9.67805E-02	1.86121E 00	-3.73856E-02			
25.20	1.35825E-03	-1.80299E 00	-9.98169E-02	2.59419E 01	-9.78416E-02	1.87582E 00	-3.73876E-02			
25.30	1.36904E-03	-1.81737E 00	-1.00905E-01	2.59436E 01	-9.89103E-02	1.89049E 00	-3.73897E-02			
25.40	1.37988E-03	-1.83181E 00	-1.02001E-01	2.59453E 01	-9.99867E-02	1.90521E 00	-3.73917E-02			
25.50	1.39075E-03	-1.84630E 00	-1.03105E-01	2.59470E 01	-1.01071E-01	1.91999E 00	-3.73937E-02			
25.60	1.40167E-03	-1.86085E 00	-1.04217E-01	2.59486E 01	-1.02163E-01	1.93482E 00	-3.73957E-02			
25.70	1.41263E-03	-1.87545E 00	-1.05336E-01	2.59503E 01	-1.03262E-01	1.94971E 00	-3.73977E-02			
25.80	1.42364E-03	-1.89012E 00	-1.06463E-01	2.59519E 01	-1.04369E-01	1.96466E 00	-3.73997E-02			
25.90	1.43468E-03	-1.90483E 00	-1.07598E-01	2.59535E 01	-1.05485E-01	1.97966E 00	-3.74017E-02			
26.00	1.44577E-03	-1.91961E 00	-1.08742E-01	2.59551E 01	-1.06607E-01	1.99472E 00	-3.74036E-02			
26.10	1.45690E-03	-1.93444E 00	-1.09893E-01	2.59567E 01	-1.07738E-01	2.00983E 00	-3.74056E-02			
26.20	1.46808E-03	-1.94932E 00	-1.11052E-01	2.59583E 01	-1.08877E-01	2.02500E 00	-3.74075E-02			
26.30	1.47929E-03	-1.96426E 00	-1.12219E-01	2.59599E 01	-1.10023E-01	2.04023E 00	-3.74094E-02			
26.40	1.49055E-03	-1.97926E 00	-1.13394E-01	2.59615E 01	-1.11178E-01	2.05551E 00	-3.74113E-02			
26.50	1.50186E-03	-1.99431E 00	-1.14577E-01	2.59630E 01	-1.12340E-01	2.07084E 00	-3.74132E-02			
26.60	1.51320E-03	-2.00942E 00	-1.15768E-01	2.59645E 01	-1.13511E-01	2.08624E 00	-3.74150E-02			
26.70	1.52459E-03	-2.02459E 00	-1.16967E-01	2.59661E 01	-1.14689E-01	2.10169E 00	-3.74169E-02			
26.80	1.53602E-03	-2.03981E 00	-1.18175E-01	2.59676E 01	-1.15876E-01	2.11719E 00	-3.74187E-02			
26.90	1.54749E-03	-2.05508E 00	-1.19390E-01	2.59691E 01	-1.17070E-01	2.13275E 00	-3.74206E-02			
27.00	1.55901E-03	-2.07041E 00	-1.20614E-01	2.59706E 01	-1.18273E-01	2.14837E 00	-3.74224E-02			
27.10	1.57057E-03	-2.08580E 00	-1.21846E-01	2.59721E 01	-1.19484E-01	2.16404E 00	-3.74242E-02			
27.20	1.58217E-03	-2.10125E 00	-1.23086E-01	2.59735E 01	-1.20703E-01	2.17977E 00	-3.74260E-02			
27.30	1.59381E-03	-2.11675E 00	-1.24334E-01	2.59750E 01	-1.21930E-01	2.19555E 00	-3.74278E-02			
27.40	1.60550E-03	-2.13230E 00	-1.25591E-01	2.59764E 01	-1.23165E-01	2.21139E 00	-3.74295E-02			
27.50	1.61722E-03	-2.14791E 00	-1.26856E-01	2.59779E 01	-1.24408E-01	2.22728E 00	-3.74313E-02			
27.60	1.62900E-03	-2.16358E 00	-1.28129E-01	2.59793E 01	-1.25660E-01	2.24323E 00	-3.74330E-02			
27.70	1.64081E-03	-2.17930E 00	-1.29411E-01	2.59807E 01	-1.26920E-01	2.25924E 00	-3.74348E-02			
27.80	1.65267E-03	-2.19508E 00	-1.30701E-01	2.59821E 01	-1.28188E-01	2.27530E 00	-3.74365E-02			
27.90	1.66457E-03	-2.21091E 00	-1.32000E-01	2.59835E 01	-1.29465E-01	2.29142E 00	-3.74382E-02			
28.00	1.67651E-03	-2.22680E 00	-1.33307E-01	2.59849E 01	-1.30750E-01	2.30759E 00	-3.74399E-02			
28.10	1.68849E-03	-2.24275E 00	-1.34622E-01	2.59862E 01	-1.32043E-01	2.32382E 00	-3.74416E-02			
28.20	1.70052E-03	-2.25875E 00	-1.35946E-01	2.59876E 01	-1.33345E-01	2.34011E 00	-3.74432E-02			
28.30	1.71259E-03	-2.27481E 00	-1.37279E-01	2.59889E 01	-1.34655E-01	2.35645E 00	-3.74449E-02			
28.40	1.72470E-03	-2.29092E 00	-1.38620E-01	2.59903E 01	-1.35974E-01	2.37284E 00	-3.74466E-02			
28.50	1.73686E-03	-2.30709E 00	-1.39969E-01	2.59916E 01	-1.37301E-01	2.38929E 00	-3.74482E-02			
28.60	1.74906E-03	-2.32331E 00	-1.41327E-01	2.59929E 01	-1.38637E-01	2.40580E 00	-3.74498E-02			
28.70	1.76130E-03	-2.33959E 00	-1.42694E-01	2.59942E 01	-1.39981E-01	2.42236E 00	-3.74514E-02			
28.80	1.77358E-03	-2.35592E 00	-1.44070E-01	2.59956E 01	-1.41334E-01	2.43898E 00	-3.74531E-02			
28.90	1.78591E-03	-2.37231E 00	-1.45454E-01	2.59968E 01	-1.42695E-01	2.45565E 00	-3.74547E-02			
29.00	1.79828E-03	-2.38876E 00	-1.46847E-01	2.59981E 01	-1.44065E-01	2.47238E 00	-3.74562E-02			
29.10	1.81069E-03	-2.40526E 00	-1.48248E-01	2.59994E 01	-1.45444E-01	2.48916E 00	-3.74578E-02			
29.20	1.82314E-03	-2.42182E 00	-1.49659E-01	2.60007E 01	-1.46831E-01	2.50600E 00	-3.74594E-02			
29.30	1.83564E-03	-2.43843E 00	-1.51078E-01	2.60019E 01	-1.48227E-01	2.52290E 00	-3.74610E-02			
29.40	1.84818E-03	-2.45509E 00	-1.52506E-01	2.60032E 01	-1.49632E-01	2.53985E 00	-3.74625E-02			
29.50	1.86076E-03	-2.47182E 00	-1.53943E-01	2.60044E 01	-1.51045E-01	2.55685E 00	-3.74640E-02			
29.60	1.87338E-03	-2.48860E 00	-1.55388E-01	2.60056E 01	-1.52467E-01	2.57391E 00	-3.74656E-02			
29.70	1.88605E-03	-2.50543E 00	-1.56843E-01	2.60069E 01	-1.53898E-01	2.59103E 00	-3.74671E-02			
29.80	1.89876E-03	-2.52232E 00	-1.58306E-01	2.60081E 01	-1.55338E-01	2.60820E 00	-3.74686E-02			
29.90	1.91151E-03	-2.53926E 00	-1.59779E-01	2.60093E 01	-1.56787E-01	2.62543E 00	-3.74701E-02			
30.00	1.92431E-03	-2.55626E 00	-1.61260E-01	2.60105E 01	-1.58245E-01	2.64271E 00	-3.74716E-02			



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=8$		$A=17$		$\rho=1.2A^{1/3}F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
30.10	1.20761E 00	-3.17735E 01	-3.39765E 00	5.89865E-03	-3.33529E 00	3.28365E 01	-1.28012E 02			
30.20	1.20759E 00	-3.18772E 01	-3.41740E 00	5.89924E-03	-3.35475E 00	3.29401E 01	-1.28109E 02			
30.30	1.20758E 00	-3.19809E 01	-3.43720E 00	5.89979E-03	-3.37427E 00	3.30436E 01	-1.28206E 02			
30.40	1.20756E 00	-3.20845E 01	-3.45706E 00	5.90033E-03	-3.39384E 00	3.31471E 01	-1.28303E 02			
30.50	1.20755E 00	-3.21882E 01	-3.47697E 00	5.90083E-03	-3.41346E 00	3.32506E 01	-1.28400E 02			
30.60	1.20753E 00	-3.22918E 01	-3.49693E 00	5.90130E-03	-3.43314E 00	3.33540E 01	-1.28497E 02			
30.70	1.20752E 00	-3.23953E 01	-3.51695E 00	5.90174E-03	-3.45287E 00	3.34575E 01	-1.28593E 02			
30.80	1.20751E 00	-3.24989E 01	-3.53702E 00	5.90215E-03	-3.47265E 00	3.35609E 01	-1.28690E 02			
30.90	1.20749E 00	-3.26024E 01	-3.55715E 00	5.90253E-03	-3.49249E 00	3.36642E 01	-1.28787E 02			
31.00	1.20748E 00	-3.27058E 01	-3.57733E 00	5.90288E-03	-3.51238E 00	3.37675E 01	-1.28884E 02			
31.10	1.20746E 00	-3.28093E 01	-3.59756E 00	5.90321E-03	-3.53233E 00	3.38708E 01	-1.28980E 02			
31.20	1.20745E 00	-3.29127E 01	-3.61785E 00	5.90351E-03	-3.55233E 00	3.39741E 01	-1.29077E 02			
31.30	1.20744E 00	-3.30161E 01	-3.63819E 00	5.90378E-03	-3.57238E 00	3.40773E 01	-1.29173E 02			
31.40	1.20742E 00	-3.31194E 01	-3.65859E 00	5.90402E-03	-3.59249E 00	3.41805E 01	-1.29270E 02			
31.50	1.20741E 00	-3.32227E 01	-3.67904E 00	5.90424E-03	-3.61265E 00	3.42837E 01	-1.29367E 02			
31.60	1.20740E 00	-3.33260E 01	-3.69954E 00	5.90443E-03	-3.63287E 00	3.43868E 01	-1.29463E 02			
31.70	1.20738E 00	-3.34293E 01	-3.72010E 00	5.90460E-03	-3.65314E 00	3.44899E 01	-1.29559E 02			
31.80	1.20737E 00	-3.35325E 01	-3.74071E 00	5.90474E-03	-3.67346E 00	3.45930E 01	-1.29656E 02			
31.90	1.20736E 00	-3.36357E 01	-3.76137E 00	5.90485E-03	-3.69384E 00	3.46961E 01	-1.29752E 02			
32.00	1.20734E 00	-3.37389E 01	-3.78209E 00	5.90494E-03	-3.71427E 00	3.47991E 01	-1.29848E 02			
32.10	1.20733E 00	-3.38420E 01	-3.80286E 00	5.90499E-03	-3.73475E 00	3.49021E 01	-1.29945E 02			
32.20	1.20731E 00	-3.39451E 01	-3.82368E 00	5.90502E-03	-3.75529E 00	3.50050E 01	-1.30041E 02			
32.30	1.20730E 00	-3.40481E 01	-3.84456E 00	5.90503E-03	-3.77588E 00	3.51079E 01	-1.30137E 02			
32.40	1.20729E 00	-3.41512E 01	-3.86549E 00	5.90501E-03	-3.79652E 00	3.52108E 01	-1.30234E 02			
32.50	1.20727E 00	-3.42542E 01	-3.88648E 00	5.90496E-03	-3.81722E 00	3.53137E 01	-1.30330E 02			
32.60	1.20726E 00	-3.43572E 01	-3.90752E 00	5.90489E-03	-3.83797E 00	3.54165E 01	-1.30426E 02			
32.70	1.20725E 00	-3.44601E 01	-3.92861E 00	5.90480E-03	-3.85878E 00	3.55193E 01	-1.30523E 02			
32.80	1.20724E 00	-3.45630E 01	-3.94976E 00	5.90467E-03	-3.87964E 00	3.56220E 01	-1.30619E 02			
32.90	1.20722E 00	-3.46659E 01	-3.97095E 00	5.90453E-03	-3.90055E 00	3.57247E 01	-1.30715E 02			
33.00	1.20721E 00	-3.47687E 01	-3.99221E 00	5.90436E-03	-3.92152E 00	3.58274E 01	-1.30812E 02			
33.10	1.20720E 00	-3.48715E 01	-4.01351E 00	5.90417E-03	-3.94254E 00	3.59301E 01	-1.30908E 02			
33.20	1.20718E 00	-3.49743E 01	-4.03487E 00	5.90395E-03	-3.96361E 00	3.60327E 01	-1.31004E 02			
33.30	1.20717E 00	-3.50771E 01	-4.05628E 00	5.90370E-03	-3.98473E 00	3.61353E 01	-1.31101E 02			
33.40	1.20716E 00	-3.51798E 01	-4.07775E 00	5.90344E-03	-4.00591E 00	3.62379E 01	-1.31197E 02			
33.50	1.20714E 00	-3.52824E 01	-4.09927E 00	5.90314E-03	-4.02715E 00	3.63404E 01	-1.31293E 02			
33.60	1.20713E 00	-3.53851E 01	-4.12084E 00	5.90283E-03	-4.04843E 00	3.64429E 01	-1.31390E 02			
33.70	1.20712E 00	-3.54877E 01	-4.14247E 00	5.90249E-03	-4.06977E 00	3.65454E 01	-1.31486E 02			
33.80	1.20711E 00	-3.55903E 01	-4.16415E 00	5.90213E-03	-4.09116E 00	3.66478E 01	-1.31582E 02			
33.90	1.20709E 00	-3.56929E 01	-4.18588E 00	5.90174E-03	-4.11261E 00	3.67502E 01	-1.31679E 02			
34.00	1.20708E 00	-3.57954E 01	-4.20767E 00	5.90132E-03	-4.13411E 00	3.68526E 01	-1.31775E 02			
34.10	1.20707E 00	-3.58979E 01	-4.22950E 00	5.90089E-03	-4.15566E 00	3.69549E 01	-1.31872E 02			
34.20	1.20706E 00	-3.60003E 01	-4.25140E 00	5.90044E-03	-4.17727E 00	3.70572E 01	-1.31968E 02			
34.30	1.20704E 00	-3.61027E 01	-4.27334E 00	5.89996E-03	-4.19893E 00	3.71595E 01	-1.32065E 02			
34.40	1.20703E 00	-3.62051E 01	-4.29534E 00	5.89946E-03	-4.22064E 00	3.72617E 01	-1.32162E 02			
34.50	1.20702E 00	-3.63075E 01	-4.31739E 00	5.89893E-03	-4.24240E 00	3.73639E 01	-1.32258E 02			
34.60	1.20701E 00	-3.64098E 01	-4.33950E 00	5.89839E-03	-4.26422E 00	3.74660E 01	-1.32355E 02			
34.70	1.20699E 00	-3.65121E 01	-4.36165E 00	5.89782E-03	-4.28609E 00	3.75682E 01	-1.32452E 02			
34.80	1.20698E 00	-3.66143E 01	-4.38386E 00	5.89723E-03	-4.30802E 00	3.76703E 01	-1.32548E 02			
34.90	1.20697E 00	-3.67165E 01	-4.40613E 00	5.89662E-03	-4.32999E 00	3.77723E 01	-1.32645E 02			
35.00	1.20696E 00	-3.68187E 01	-4.42844E 00	5.89598E-03	-4.35203E 00	3.78744E 01	-1.32742E 02			
35.10	1.20694E 00	-3.69209E 01	-4.45081E 00	5.89531E-03	-4.37411E 00	3.79764E 01	-1.32839E 02			
35.20	1.20693E 00	-3.70230E 01	-4.47323E 00	5.89465E-03	-4.39625E 00	3.80783E 01	-1.32936E 02			
35.30	1.20692E 00	-3.71251E 01	-4.49571E 00	5.89394E-03	-4.41844E 00	3.81803E 01	-1.33033E 02			
35.40	1.20691E 00	-3.72271E 01	-4.51824E 00	5.89321E-03	-4.44068E 00	3.82822E 01	-1.33130E 02			
35.50	1.20690E 00	-3.73292E 01	-4.54082E 00	5.89248E-03	-4.46297E 00	3.83840E 01	-1.33227E 02			
35.60	1.20688E 00	-3.74312E 01	-4.56345E 00	5.89170E-03	-4.48532E 00	3.84859E 01	-1.33324E 02			
35.70	1.20687E 00	-3.75331E 01	-4.58614E 00	5.89092E-03	-4.50772E 00	3.85877E 01	-1.33421E 02			
35.80	1.20686E 00	-3.76350E 01	-4.60888E 00	5.89011E-03	-4.53018E 00	3.86894E 01	-1.33518E 02			
35.90	1.20685E 00	-3.77369E 01	-4.63167E 00	5.88928E-03	-4.55268E 00	3.87911E 01	-1.33616E 02			
36.00	1.20684E 00	-3.78388E 01	-4.65452E 00	5.88843E-03	-4.57524E 00	3.88928E 01	-1.33713E 02			

## ELECTRON RADIAL FUNCTIONS

$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
30.10	1.93715E-03	-2.57332E 00	-1.62750E-01	2.60117E 01	-1.59711E-01	2.66005E 00	-3.74731E-02
30.20	1.95003E-03	-2.59043E 00	-1.64250E-01	2.60128E 01	-1.61187E-01	2.67744E 00	-3.74745E-02
30.30	1.96295E-03	-2.60759E 00	-1.65758E-01	2.60140E 01	-1.62671E-01	2.69489E 00	-3.74760E-02
30.40	1.97592E-03	-2.62481E 00	-1.67276E-01	2.60152E 01	-1.64164E-01	2.71239E 00	-3.74775E-02
30.50	1.98893E-03	-2.64209E 00	-1.68802E-01	2.60163E 01	-1.65667E-01	2.72995E 00	-3.74789E-02
30.60	2.00198E-03	-2.65942E 00	-1.70338E-01	2.60175E 01	-1.67178E-01	2.74756E 00	-3.74803E-02
30.70	2.01507E-03	-2.67681E 00	-1.71883E-01	2.60186E 01	-1.68698E-01	2.76523E 00	-3.74818E-02
30.80	2.02821E-03	-2.69425E 00	-1.73437E-01	2.60198E 01	-1.70228E-01	2.78296E 00	-3.74832E-02
30.90	2.04139E-03	-2.71175E 00	-1.75000E-01	2.60209E 01	-1.71767E-01	2.80074E 00	-3.74846E-02
31.00	2.05461E-03	-2.72930E 00	-1.76573E-01	2.60220E 01	-1.73314E-01	2.81857E 00	-3.74860E-02
31.10	2.06787E-03	-2.74691E 00	-1.78154E-01	2.60231E 01	-1.74871E-01	2.83646E 00	-3.74874E-02
31.20	2.08118E-03	-2.76457E 00	-1.79746E-01	2.60242E 01	-1.76437E-01	2.85440E 00	-3.74888E-02
31.30	2.09453E-03	-2.78229E 00	-1.81346E-01	2.60253E 01	-1.78013E-01	2.87240E 00	-3.74901E-02
31.40	2.10792E-03	-2.80006E 00	-1.82955E-01	2.60264E 01	-1.79597E-01	2.89046E 00	-3.74915E-02
31.50	2.12136E-03	-2.81789E 00	-1.84574E-01	2.60275E 01	-1.81191E-01	2.90857E 00	-3.74929E-02
31.60	2.13483E-03	-2.83577E 00	-1.86203E-01	2.60286E 01	-1.82794E-01	2.92673E 00	-3.74942E-02
31.70	2.14835E-03	-2.85371E 00	-1.87841E-01	2.60296E 01	-1.84407E-01	2.94495E 00	-3.74956E-02
31.80	2.16192E-03	-2.87170E 00	-1.89488E-01	2.60307E 01	-1.86029E-01	2.96322E 00	-3.74969E-02
31.90	2.17552E-03	-2.88975E 00	-1.91145E-01	2.60317E 01	-1.87660E-01	2.98155E 00	-3.74982E-02
32.00	2.18917E-03	-2.90785E 00	-1.92811E-01	2.60328E 01	-1.89300E-01	2.99994E 00	-3.74996E-02
32.10	2.20286E-03	-2.92601E 00	-1.94486E-01	2.60338E 01	-1.90950E-01	3.01838E 00	-3.75009E-02
32.20	2.21659E-03	-2.94422E 00	-1.96172E-01	2.60349E 01	-1.92610E-01	3.03687E 00	-3.75022E-02
32.30	2.23037E-03	-2.96249E 00	-1.97867E-01	2.60359E 01	-1.94279E-01	3.05542E 00	-3.75035E-02
32.40	2.24419E-03	-2.98081E 00	-1.99571E-01	2.60369E 01	-1.95957E-01	3.07402E 00	-3.75048E-02
32.50	2.25805E-03	-2.99919E 00	-2.01285E-01	2.60379E 01	-1.97645E-01	3.09268E 00	-3.75060E-02
32.60	2.27195E-03	-3.01762E 00	-2.03009E-01	2.60389E 01	-1.99343E-01	3.11140E 00	-3.75073E-02
32.70	2.28590E-03	-3.03611E 00	-2.04742E-01	2.60399E 01	-2.01050E-01	3.13016E 00	-3.75086E-02
32.80	2.29989E-03	-3.05465E 00	-2.06485E-01	2.60409E 01	-2.02766E-01	3.14899E 00	-3.75098E-02
32.90	2.31392E-03	-3.07325E 00	-2.08238E-01	2.60419E 01	-2.04493E-01	3.16787E 00	-3.75111E-02
33.00	2.32800E-03	-3.09190E 00	-2.10000E-01	2.60429E 01	-2.06229E-01	3.18680E 00	-3.75124E-02
33.10	2.34211E-03	-3.11061E 00	-2.11772E-01	2.60439E 01	-2.07974E-01	3.20579E 00	-3.75136E-02
33.20	2.35627E-03	-3.12937E 00	-2.13555E-01	2.60448E 01	-2.09730E-01	3.22483E 00	-3.75148E-02
33.30	2.37048E-03	-3.14818E 00	-2.15346E-01	2.60458E 01	-2.11495E-01	3.24392E 00	-3.75160E-02
33.40	2.38472E-03	-3.16705E 00	-2.17148E-01	2.60467E 01	-2.13270E-01	3.26308E 00	-3.75173E-02
33.50	2.39901E-03	-3.18598E 00	-2.18960E-01	2.60477E 01	-2.15054E-01	3.28228E 00	-3.75185E-02
33.60	2.41334E-03	-3.20496E 00	-2.20781E-01	2.60486E 01	-2.16849E-01	3.30154E 00	-3.75197E-02
33.70	2.42771E-03	-3.22399E 00	-2.22613E-01	2.60496E 01	-2.18653E-01	3.32086E 00	-3.75209E-02
33.80	2.44213E-03	-3.24308E 00	-2.24454E-01	2.60505E 01	-2.20467E-01	3.34023E 00	-3.75221E-02
33.90	2.45659E-03	-3.26223E 00	-2.26305E-01	2.60514E 01	-2.22291E-01	3.35965E 00	-3.75232E-02
34.00	2.47109E-03	-3.28143E 00	-2.28167E-01	2.60524E 01	-2.24125E-01	3.37913E 00	-3.75244E-02
34.10	2.48563E-03	-3.30068E 00	-2.30038E-01	2.60533E 01	-2.25969E-01	3.39867E 00	-3.75256E-02
34.20	2.50022E-03	-3.31999E 00	-2.31920E-01	2.60542E 01	-2.27823E-01	3.41825E 00	-3.75268E-02
34.30	2.51485E-03	-3.33935E 00	-2.33811E-01	2.60551E 01	-2.29687E-01	3.43790E 00	-3.75279E-02
34.40	2.52952E-03	-3.35877E 00	-2.35713E-01	2.60560E 01	-2.31561E-01	3.45759E 00	-3.75291E-02
34.50	2.54423E-03	-3.37824E 00	-2.37624E-01	2.60569E 01	-2.33444E-01	3.47735E 00	-3.75302E-02
34.60	2.55899E-03	-3.39777E 00	-2.39546E-01	2.60578E 01	-2.35338E-01	3.49715E 00	-3.75314E-02
34.70	2.57379E-03	-3.41735E 00	-2.41478E-01	2.60587E 01	-2.37242E-01	3.51701E 00	-3.75325E-02
34.80	2.58863E-03	-3.43698E 00	-2.43421E-01	2.60595E 01	-2.39157E-01	3.53693E 00	-3.75336E-02
34.90	2.60352E-03	-3.45667E 00	-2.45373E-01	2.60604E 01	-2.41081E-01	3.55690E 00	-3.75347E-02
35.00	2.61844E-03	-3.47642E 00	-2.47336E-01	2.60613E 01	-2.43015E-01	3.57692E 00	-3.75359E-02
35.10	2.63341E-03	-3.49621E 00	-2.49309E-01	2.60621E 01	-2.44960E-01	3.59700E 00	-3.75370E-02
35.20	2.64843E-03	-3.51607E 00	-2.51293E-01	2.60630E 01	-2.46915E-01	3.61713E 00	-3.75381E-02
35.30	2.66348E-03	-3.53597E 00	-2.53286E-01	2.60639E 01	-2.48880E-01	3.63732E 00	-3.75392E-02
35.40	2.67858E-03	-3.55594E 00	-2.55290E-01	2.60647E 01	-2.50856E-01	3.65756E 00	-3.75403E-02
35.50	2.69372E-03	-3.57595E 00	-2.57305E-01	2.60655E 01	-2.52841E-01	3.67786E 00	-3.75414E-02
35.60	2.70890E-03	-3.59602E 00	-2.59330E-01	2.60664E 01	-2.54837E-01	3.69821E 00	-3.75424E-02
35.70	2.72413E-03	-3.61615E 00	-2.61365E-01	2.60672E 01	-2.56844E-01	3.71861E 00	-3.75435E-02
35.80	2.73940E-03	-3.63633E 00	-2.63411E-01	2.60680E 01	-2.58861E-01	3.73907E 00	-3.75446E-02
35.90	2.75471E-03	-3.65656E 00	-2.65467E-01	2.60689E 01	-2.60888E-01	3.75958E 00	-3.75456E-02
36.00	2.77006E-03	-3.67685E 00	-2.67534E-01	2.60697E 01	-2.62925E-01	3.78015E 00	-3.75467E-02



ELECTRON RADIAL FUNCTIONS

Electron	$Z=8$		$A=17$		$\rho=1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
36.10	1.20682E 00	-3.79406E 01	-4.67742E 00	5.88756E-03	-4.59786E 00	3.89945E 01	-1.33811E 02			
36.20	1.20681E 00	-3.80424E 01	-4.70037E 00	5.88666E-03	-4.62052E 00	3.90961E 01	-1.33908E 02			
36.30	1.20680E 00	-3.81441E 01	-4.72337E 00	5.88576E-03	-4.64324E 00	3.91977E 01	-1.34006E 02			
36.40	1.20679E 00	-3.82458E 01	-4.74642E 00	5.88483E-03	-4.66601E 00	3.92993E 01	-1.34103E 02			
36.50	1.20678E 00	-3.83475E 01	-4.76953E 00	5.88387E-03	-4.68883E 00	3.94008E 01	-1.34201E 02			
36.60	1.20676E 00	-3.84492E 01	-4.79269E 00	5.88290E-03	-4.71171E 00	3.95023E 01	-1.34299E 02			
36.70	1.20675E 00	-3.85508E 01	-4.81591E 00	5.88190E-03	-4.73464E 00	3.96037E 01	-1.34397E 02			
36.80	1.20674E 00	-3.86523E 01	-4.83917E 00	5.88089E-03	-4.75762E 00	3.97052E 01	-1.34495E 02			
36.90	1.20673E 00	-3.87539E 01	-4.86249E 00	5.87986E-03	-4.78065E 00	3.98065E 01	-1.34593E 02			
37.00	1.20672E 00	-3.88554E 01	-4.88587E 00	5.87880E-03	-4.80374E 00	3.99079E 01	-1.34691E 02			
37.10	1.20671E 00	-3.89569E 01	-4.90929E 00	5.87773E-03	-4.82688E 00	4.00092E 01	-1.34789E 02			
37.20	1.20670E 00	-3.90583E 01	-4.93277E 00	5.87663E-03	-4.85007E 00	4.01105E 01	-1.34888E 02			
37.30	1.20668E 00	-3.91597E 01	-4.95629E 00	5.87552E-03	-4.87331E 00	4.02117E 01	-1.34986E 02			
37.40	1.20667E 00	-3.92611E 01	-4.97988E 00	5.87439E-03	-4.89661E 00	4.03129E 01	-1.35084E 02			
37.50	1.20666E 00	-3.93624E 01	-5.00351E 00	5.87324E-03	-4.91996E 00	4.04141E 01	-1.35183E 02			
37.60	1.20665E 00	-3.94637E 01	-5.02720E 00	5.87206E-03	-4.94336E 00	4.05153E 01	-1.35282E 02			
37.70	1.20664E 00	-3.95650E 01	-5.05093E 00	5.87088E-03	-4.96681E 00	4.06164E 01	-1.35380E 02			
37.80	1.20663E 00	-3.96662E 01	-5.07473E 00	5.86966E-03	-4.99032E 00	4.07174E 01	-1.35479E 02			
37.90	1.20662E 00	-3.97674E 01	-5.09857E 00	5.86844E-03	-5.01388E 00	4.08185E 01	-1.35578E 02			
38.00	1.20660E 00	-3.98686E 01	-5.12246E 00	5.86719E-03	-5.03749E 00	4.09195E 01	-1.35677E 02			
38.10	1.20659E 00	-3.99697E 01	-5.14641E 00	5.86592E-03	-5.06115E 00	4.10204E 01	-1.35777E 02			
38.20	1.20658E 00	-4.00708E 01	-5.17041E 00	5.86463E-03	-5.08487E 00	4.11213E 01	-1.35876E 02			
38.30	1.20657E 00	-4.01718E 01	-5.19446E 00	5.86333E-03	-5.10864E 00	4.12222E 01	-1.35975E 02			
38.40	1.20656E 00	-4.02729E 01	-5.21857E 00	5.86201E-03	-5.13246E 00	4.13231E 01	-1.36075E 02			
38.50	1.20655E 00	-4.03738E 01	-5.24272E 00	5.86067E-03	-5.15633E 00	4.14239E 01	-1.36174E 02			
38.60	1.20654E 00	-4.04748E 01	-5.26693E 00	5.85931E-03	-5.18026E 00	4.15247E 01	-1.36274E 02			
38.70	1.20653E 00	-4.05757E 01	-5.29119E 00	5.85793E-03	-5.20423E 00	4.16254E 01	-1.36374E 02			
38.80	1.20652E 00	-4.06766E 01	-5.31551E 00	5.85653E-03	-5.22826E 00	4.17262E 01	-1.36474E 02			
38.90	1.20651E 00	-4.07774E 01	-5.33987E 00	5.85512E-03	-5.25234E 00	4.18268E 01	-1.36574E 02			
39.00	1.20649E 00	-4.08782E 01	-5.36429E 00	5.85368E-03	-5.27648E 00	4.19275E 01	-1.36674E 02			
39.10	1.20648E 00	-4.09790E 01	-5.38876E 00	5.85223E-03	-5.30066E 00	4.20281E 01	-1.36774E 02			
39.20	1.20647E 00	-4.10797E 01	-5.41328E 00	5.85076E-03	-5.32490E 00	4.21287E 01	-1.36874E 02			
39.30	1.20646E 00	-4.11804E 01	-5.43785E 00	5.84928E-03	-5.34919E 00	4.22292E 01	-1.36975E 02			
39.40	1.20645E 00	-4.12811E 01	-5.46248E 00	5.84777E-03	-5.37353E 00	4.23297E 01	-1.37075E 02			
39.50	1.20644E 00	-4.13817E 01	-5.48716E 00	5.84625E-03	-5.39792E 00	4.24301E 01	-1.37176E 02			
39.60	1.20643E 00	-4.14823E 01	-5.51189E 00	5.84470E-03	-5.42237E 00	4.25306E 01	-1.37277E 02			
39.70	1.20642E 00	-4.15828E 01	-5.53667E 00	5.84313E-03	-5.44687E 00	4.26310E 01	-1.37378E 02			
39.80	1.20641E 00	-4.16834E 01	-5.56150E 00	5.84157E-03	-5.47141E 00	4.27313E 01	-1.37479E 02			
39.90	1.20640E 00	-4.17838E 01	-5.58638E 00	5.83997E-03	-5.49602E 00	4.28316E 01	-1.37581E 02			
40.00	1.20639E 00	-4.18843E 01	-5.61132E 00	5.83836E-03	-5.52067E 00	4.29319E 01	-1.37682E 02			
40.10	1.20638E 00	-4.19847E 01	-5.63631E 00	5.83673E-03	-5.54537E 00	4.30321E 01	-1.37783E 02			
40.20	1.20637E 00	-4.20851E 01	-5.66135E 00	5.83508E-03	-5.57013E 00	4.31323E 01	-1.37885E 02			
40.30	1.20635E 00	-4.21854E 01	-5.68644E 00	5.83342E-03	-5.59494E 00	4.32325E 01	-1.37987E 02			
40.40	1.20634E 00	-4.22857E 01	-5.71159E 00	5.83175E-03	-5.61980E 00	4.33326E 01	-1.38089E 02			
40.50	1.20633E 00	-4.23860E 01	-5.73678E 00	5.83004E-03	-5.64471E 00	4.34327E 01	-1.38191E 02			
40.60	1.20632E 00	-4.24862E 01	-5.76203E 00	5.82833E-03	-5.66968E 00	4.35328E 01	-1.38293E 02			
40.70	1.20631E 00	-4.25864E 01	-5.78733E 00	5.82660E-03	-5.69469E 00	4.36328E 01	-1.38395E 02			
40.80	1.20630E 00	-4.26865E 01	-5.81268E 00	5.82486E-03	-5.71976E 00	4.37328E 01	-1.38498E 02			
40.90	1.20629E 00	-4.27866E 01	-5.83808E 00	5.82309E-03	-5.74488E 00	4.38328E 01	-1.38601E 02			
41.00	1.20628E 00	-4.28867E 01	-5.86353E 00	5.82131E-03	-5.77005E 00	4.39327E 01	-1.38703E 02			
41.10	1.20627E 00	-4.29867E 01	-5.88904E 00	5.81951E-03	-5.79527E 00	4.40325E 01	-1.38806E 02			
41.20	1.20626E 00	-4.30867E 01	-5.91459E 00	5.81769E-03	-5.82054E 00	4.41324E 01	-1.38909E 02			
41.30	1.20625E 00	-4.31867E 01	-5.94020E 00	5.81586E-03	-5.84587E 00	4.42322E 01	-1.39013E 02			
41.40	1.20624E 00	-4.32866E 01	-5.96586E 00	5.81402E-03	-5.87125E 00	4.43319E 01	-1.39116E 02			
41.50	1.20623E 00	-4.33865E 01	-5.99157E 00	5.81215E-03	-5.89668E 00	4.44317E 01	-1.39219E 02			
41.60	1.20622E 00	-4.34864E 01	-6.01734E 00	5.81027E-03	-5.92215E 00	4.45313E 01	-1.39323E 02			
41.70	1.20621E 00	-4.35862E 01	-6.04315E 00	5.80837E-03	-5.94769E 00	4.46310E 01	-1.39427E 02			
41.80	1.20620E 00	-4.36860E 01	-6.06902E 00	5.80645E-03	-5.97327E 00	4.47306E 01	-1.39531E 02			
41.90	1.20619E 00	-4.37857E 01	-6.09493E 00	5.80452E-03	-5.99890E 00	4.48302E 01	-1.39635E 02			
42.00	1.20618E 00	-4.38854E 01	-6.12090E 00	5.80258E-03	-6.02459E 00	4.49297E 01	-1.39739E 02			

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=8 \quad A=17 \quad \rho=1.2 A^{1/3} F$							Electron
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$		
36.10	2.78546E-03	-3.69719E 00	-2.69611E-01	2.60705E 01	-2.64973E-01	3.80077E 00	-3.75478E-02		
36.20	2.80090E-03	-3.71759E 00	-2.71699E-01	2.60713E 01	-2.67032E-01	3.82145E 00	-3.75488E-02		
36.30	2.81638E-03	-3.73804E 00	-2.73798E-01	2.60721E 01	-2.69101E-01	3.84217E 00	-3.75498E-02		
36.40	2.83190E-03	-3.75854E 00	-2.75907E-01	2.60729E 01	-2.71181E-01	3.86296E 00	-3.75509E-02		
36.50	2.84747E-03	-3.77910E 00	-2.78027E-01	2.60737E 01	-2.73271E-01	3.88380E 00	-3.75519E-02		
36.60	2.86308E-03	-3.79971E 00	-2.80157E-01	2.60745E 01	-2.75371E-01	3.90469E 00	-3.75529E-02		
36.70	2.87873E-03	-3.82038E 00	-2.82298E-01	2.60753E 01	-2.77483E-01	3.92563E 00	-3.75540E-02		
36.80	2.89443E-03	-3.84110E 00	-2.84450E-01	2.60761E 01	-2.79605E-01	3.94663E 00	-3.75550E-02		
36.90	2.91016E-03	-3.86187E 00	-2.86613E-01	2.60768E 01	-2.81737E-01	3.96769E 00	-3.75560E-02		
37.00	2.92594E-03	-3.88270E 00	-2.88786E-01	2.60776E 01	-2.83880E-01	3.98879E 00	-3.75570E-02		
37.10	2.94177E-03	-3.90359E 00	-2.90970E-01	2.60784E 01	-2.86034E-01	4.00996E 00	-3.75580E-02		
37.20	2.95763E-03	-3.92452E 00	-2.93165E-01	2.60791E 01	-2.88199E-01	4.03117E 00	-3.75590E-02		
37.30	2.97354E-03	-3.94551E 00	-2.95371E-01	2.60799E 01	-2.90374E-01	4.05244E 00	-3.75600E-02		
37.40	2.98949E-03	-3.96656E 00	-2.97587E-01	2.60806E 01	-2.92561E-01	4.07376E 00	-3.75610E-02		
37.50	3.00548E-03	-3.98766E 00	-2.99815E-01	2.60814E 01	-2.94758E-01	4.09514E 00	-3.75620E-02		
37.60	3.02152E-03	-4.00881E 00	-3.02054E-01	2.60821E 01	-2.96965E-01	4.11657E 00	-3.75629E-02		
37.70	3.03760E-03	-4.03002E 00	-3.04303E-01	2.60829E 01	-2.99184E-01	4.13806E 00	-3.75639E-02		
37.80	3.05372E-03	-4.05128E 00	-3.06563E-01	2.60836E 01	-3.01414E-01	4.15960E 00	-3.75649E-02		
37.90	3.06988E-03	-4.07259E 00	-3.08835E-01	2.60844E 01	-3.03654E-01	4.18119E 00	-3.75658E-02		
38.00	3.08609E-03	-4.09396E 00	-3.11117E-01	2.60851E 01	-3.05906E-01	4.20283E 00	-3.75668E-02		
38.10	3.10234E-03	-4.11538E 00	-3.13411E-01	2.60858E 01	-3.08168E-01	4.22454E 00	-3.75678E-02		
38.20	3.11863E-03	-4.13686E 00	-3.15715E-01	2.60865E 01	-3.10441E-01	4.24629E 00	-3.75687E-02		
38.30	3.13496E-03	-4.15839E 00	-3.18031E-01	2.60872E 01	-3.12726E-01	4.26810E 00	-3.75696E-02		
38.40	3.15134E-03	-4.17997E 00	-3.20357E-01	2.60880E 01	-3.15021E-01	4.28996E 00	-3.75706E-02		
38.50	3.16776E-03	-4.20161E 00	-3.22695E-01	2.60887E 01	-3.17328E-01	4.31187E 00	-3.75715E-02		
38.60	3.18422E-03	-4.22330E 00	-3.25044E-01	2.60894E 01	-3.19645E-01	4.33384E 00	-3.75724E-02		
38.70	3.20073E-03	-4.24504E 00	-3.27405E-01	2.60901E 01	-3.21974E-01	4.35586E 00	-3.75734E-02		
38.80	3.21728E-03	-4.26684E 00	-3.29776E-01	2.60908E 01	-3.24314E-01	4.37794E 00	-3.75743E-02		
38.90	3.23387E-03	-4.28869E 00	-3.32159E-01	2.60915E 01	-3.26664E-01	4.40007E 00	-3.75752E-02		
39.00	3.25050E-03	-4.31060E 00	-3.34553E-01	2.60922E 01	-3.29027E-01	4.42225E 00	-3.75761E-02		
39.10	3.26717E-03	-4.33256E 00	-3.36958E-01	2.60929E 01	-3.31400E-01	4.44449E 00	-3.75770E-02		
39.20	3.28389E-03	-4.35457E 00	-3.39375E-01	2.60935E 01	-3.33785E-01	4.46678E 00	-3.75779E-02		
39.30	3.30065E-03	-4.37664E 00	-3.41803E-01	2.60942E 01	-3.36180E-01	4.48913E 00	-3.75788E-02		
39.40	3.31746E-03	-4.39876E 00	-3.44242E-01	2.60949E 01	-3.38587E-01	4.51152E 00	-3.75797E-02		
39.50	3.33430E-03	-4.42093E 00	-3.46693E-01	2.60956E 01	-3.41006E-01	4.53397E 00	-3.75806E-02		
39.60	3.35119E-03	-4.44316E 00	-3.49155E-01	2.60962E 01	-3.43436E-01	4.55648E 00	-3.75815E-02		
39.70	3.36812E-03	-4.46544E 00	-3.51629E-01	2.60969E 01	-3.45877E-01	4.57904E 00	-3.75824E-02		
39.80	3.38509E-03	-4.48777E 00	-3.54114E-01	2.60976E 01	-3.48329E-01	4.60165E 00	-3.75833E-02		
39.90	3.40211E-03	-4.51016E 00	-3.56610E-01	2.60982E 01	-3.50793E-01	4.62431E 00	-3.75841E-02		
40.00	3.41917E-03	-4.53260E 00	-3.59118E-01	2.60989E 01	-3.53268E-01	4.64703E 00	-3.75850E-02		
40.10	3.43627E-03	-4.55510E 00	-3.61638E-01	2.60995E 01	-3.55755E-01	4.66980E 00	-3.75859E-02		
40.20	3.45342E-03	-4.57765E 00	-3.64169E-01	2.61002E 01	-3.58254E-01	4.69263E 00	-3.75867E-02		
40.30	3.47060E-03	-4.60025E 00	-3.66712E-01	2.61008E 01	-3.60763E-01	4.71550E 00	-3.75876E-02		
40.40	3.48783E-03	-4.62290E 00	-3.69266E-01	2.61015E 01	-3.63285E-01	4.73843E 00	-3.75885E-02		
40.50	3.50510E-03	-4.64561E 00	-3.71832E-01	2.61021E 01	-3.65817E-01	4.76142E 00	-3.75893E-02		
40.60	3.52242E-03	-4.66837E 00	-3.74410E-01	2.61027E 01	-3.68362E-01	4.78446E 00	-3.75902E-02		
40.70	3.53978E-03	-4.69119E 00	-3.77000E-01	2.61034E 01	-3.70918E-01	4.80755E 00	-3.75910E-02		
40.80	3.55718E-03	-4.71405E 00	-3.79601E-01	2.61040E 01	-3.73486E-01	4.83069E 00	-3.75919E-02		
40.90	3.57462E-03	-4.73697E 00	-3.82214E-01	2.61046E 01	-3.76065E-01	4.85389E 00	-3.75927E-02		
41.00	3.59210E-03	-4.75995E 00	-3.84838E-01	2.61052E 01	-3.78656E-01	4.87714E 00	-3.75935E-02		
41.10	3.60963E-03	-4.78298E 00	-3.87475E-01	2.61058E 01	-3.81259E-01	4.90044E 00	-3.75943E-02		
41.20	3.62720E-03	-4.80606E 00	-3.90123E-01	2.61065E 01	-3.83873E-01	4.92380E 00	-3.75952E-02		
41.30	3.64482E-03	-4.82919E 00	-3.92783E-01	2.61071E 01	-3.86500E-01	4.94721E 00	-3.75960E-02		
41.40	3.66247E-03	-4.85238E 00	-3.95455E-01	2.61077E 01	-3.89138E-01	4.97068E 00	-3.75968E-02		
41.50	3.68017E-03	-4.87562E 00	-3.98139E-01	2.61083E 01	-3.91788E-01	4.99419E 00	-3.75976E-02		
41.60	3.69791E-03	-4.89891E 00	-4.00835E-01	2.61089E 01	-3.94449E-01	5.01776E 00	-3.75984E-02		
41.70	3.71569E-03	-4.92226E 00	-4.03543E-01	2.61095E 01	-3.97123E-01	5.04138E 00	-3.75993E-02		
41.80	3.73352E-03	-4.94566E 00	-4.06263E-01	2.61101E 01	-3.99808E-01	5.06506E 00	-3.76001E-02		
41.90	3.75139E-03	-4.96911E 00	-4.08995E-01	2.61107E 01	-4.02505E-01	5.08879E 00	-3.76009E-02		
42.00	3.76930E-03	-4.99261E 00	-4.11738E-01	2.61113E 01	-4.05215E-01	5.11257E 00	-3.76017E-02		



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=9$	$A=18$	$\rho=1.2 A^{1/3} F$				
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
0.10	4.37042E 00	-1.75903E-02	-5.58147E-04	-3.00210E-01	-7.75040E-03	2.94709E-01	-3.35765E 00
0.20	2.48087E 00	-4.61667E-02	-1.46674E-03	-1.37838E-01	-1.16541E-02	4.42469E-01	-5.48576E 00
0.30	1.94783E 00	-8.79568E-02	-2.80024E-03	-8.91322E-02	-1.54389E-02	5.84703E-01	-7.85528E 00
0.40	1.71030E 00	-1.41675E-01	-4.52315E-03	-6.52592E-02	-1.92090E-02	7.25021E-01	-1.02165E 01
0.50	1.57973E 00	-2.05800E-01	-6.59337E-03	-5.09885E-02	-2.29678E-02	8.63263E-01	-1.25270E 01
0.60	1.49889E 00	-2.78754E-01	-8.96717E-03	-4.14573E-02	-2.67144E-02	9.99163E-01	-1.47722E 01
0.70	1.44487E 00	-3.59040E-01	-1.16030E-02	-3.46205E-02	-3.04504E-02	1.13262E 00	-1.69464E 01
0.80	1.40679E 00	-4.45313E-01	-1.44637E-02	-2.94656E-02	-3.41803E-02	1.26370E 00	-1.90472E 01
0.90	1.37887E 00	-5.36421E-01	-1.75173E-02	-2.54332E-02	-3.79099E-02	1.39252E 00	-2.10744E 01
1.00	1.35776E 00	-6.31407E-01	-2.07374E-02	-2.21883E-02	-4.16457E-02	1.51930E 00	-2.30292E 01
1.10	1.34138E 00	-7.29492E-01	-2.41025E-02	-1.95182E-02	-4.53942E-02	1.64424E 00	-2.49134E 01
1.20	1.32843E 00	-8.30051E-01	-2.75953E-02	-1.72809E-02	-4.91615E-02	1.76756E 00	-2.67292E 01
1.30	1.31799E 00	-9.32585E-01	-3.12021E-02	-1.53780E-02	-5.29532E-02	1.88947E 00	-2.84793E 01
1.40	1.30946E 00	-1.03670E 00	-3.49121E-02	-1.37389E-02	-5.67741E-02	2.01014E 00	-3.01664E 01
1.50	1.30239E 00	-1.14208E 00	-3.87167E-02	-1.23119E-02	-6.06284E-02	2.12972E 00	-3.17931E 01
1.60	1.29646E 00	-1.24849E 00	-4.26092E-02	-1.10580E-02	-6.45200E-02	2.24838E 00	-3.33622E 01
1.70	1.29144E 00	-1.35572E 00	-4.65841E-02	-9.94723E-03	-6.84517E-02	2.36621E 00	-3.48763E 01
1.80	1.28715E 00	-1.46362E 00	-5.06374E-02	-8.95627E-03	-7.24264E-02	2.48334E 00	-3.63381E 01
1.90	1.28345E 00	-1.57207E 00	-5.47655E-02	-8.06662E-03	-7.64463E-02	2.59985E 00	-3.77499E 01
2.00	1.28024E 00	-1.68096E 00	-5.89658E-02	-7.26341E-03	-8.05132E-02	2.71581E 00	-3.91141E 01
2.10	1.27742E 00	-1.79022E 00	-6.32361E-02	-6.53457E-03	-8.46290E-02	2.83129E 00	-4.04329E 01
2.20	1.27494E 00	-1.89978E 00	-6.75746E-02	-5.87019E-03	-8.87948E-02	2.94635E 00	-4.17086E 01
2.30	1.27275E 00	-2.00958E 00	-7.19800E-02	-5.26205E-03	-9.30119E-02	3.06104E 00	-4.29430E 01
2.40	1.27079E 00	-2.11959E 00	-7.64509E-02	-4.70329E-03	-9.72814E-02	3.17539E 00	-4.41381E 01
2.50	1.26904E 00	-2.22977E 00	-8.09866E-02	-4.18809E-03	-1.01604E-01	3.28945E 00	-4.52958E 01
2.60	1.26746E 00	-2.34009E 00	-8.55861E-02	-3.71156E-03	-1.05981E-01	3.40324E 00	-4.64176E 01
2.70	1.26604E 00	-2.45052E 00	-9.02489E-02	-3.26950E-03	-1.10412E-01	3.51680E 00	-4.75052E 01
2.80	1.26474E 00	-2.56105E 00	-9.49743E-02	-2.85826E-03	-1.14898E-01	3.63014E 00	-4.85602E 01
2.90	1.26357E 00	-2.67165E 00	-9.97621E-02	-2.47475E-03	-1.19440E-01	3.74328E 00	-4.95839E 01
3.00	1.26249E 00	-2.78232E 00	-1.04612E-01	-2.11626E-03	-1.24039E-01	3.85625E 00	-5.05777E 01
3.10	1.26150E 00	-2.89305E 00	-1.09523E-01	-1.78041E-03	-1.28693E-01	3.96905E 00	-5.15430E 01
3.20	1.26059E 00	-3.00381E 00	-1.14495E-01	-1.46510E-03	-1.33404E-01	4.08171E 00	-5.24808E 01
3.30	1.25975E 00	-3.11461E 00	-1.19529E-01	-1.16853E-03	-1.38173E-01	4.19423E 00	-5.33924E 01
3.40	1.25898E 00	-3.22543E 00	-1.24623E-01	-8.89074E-04	-1.42998E-01	4.30663E 00	-5.42788E 01
3.50	1.25825E 00	-3.33628E 00	-1.29778E-01	-6.25284E-04	-1.47882E-01	4.41891E 00	-5.51412E 01
3.60	1.25758E 00	-3.44714E 00	-1.34993E-01	-3.75896E-04	-1.52822E-01	4.53109E 00	-5.59804E 01
3.70	1.25695E 00	-3.55801E 00	-1.40269E-01	-1.39740E-04	-1.57821E-01	4.64317E 00	-5.67973E 01
3.80	1.25637E 00	-3.66889E 00	-1.45605E-01	8.41860E-05	-1.62878E-01	4.75516E 00	-5.75929E 01
3.90	1.25582E 00	-3.77977E 00	-1.51001E-01	2.96819E-04	-1.67993E-01	4.86705E 00	-5.83680E 01
4.00	1.25530E 00	-3.89065E 00	-1.56458E-01	4.98991E-04	-1.73166E-01	4.97887E 00	-5.91233E 01
4.10	1.25482E 00	-4.00153E 00	-1.61974E-01	6.91431E-04	-1.78397E-01	5.09061E 00	-5.98597E 01
4.20	1.25436E 00	-4.11241E 00	-1.67551E-01	8.74845E-04	-1.83687E-01	5.20228E 00	-6.05779E 01
4.30	1.25393E 00	-4.22328E 00	-1.73187E-01	1.04986E-03	-1.89036E-01	5.31389E 00	-6.12784E 01
4.40	1.25352E 00	-4.33414E 00	-1.78883E-01	1.21703E-03	-1.94443E-01	5.42543E 00	-6.19620E 01
4.50	1.25313E 00	-4.44500E 00	-1.84639E-01	1.37683E-03	-1.99908E-01	5.53690E 00	-6.26293E 01
4.60	1.25276E 00	-4.55584E 00	-1.90455E-01	1.52979E-03	-2.05433E-01	5.64832E 00	-6.32809E 01
4.70	1.25241E 00	-4.66667E 00	-1.96331E-01	1.67631E-03	-2.11016E-01	5.75969E 00	-6.39173E 01
4.80	1.25208E 00	-4.77749E 00	-2.02266E-01	1.81678E-03	-2.16658E-01	5.87100E 00	-6.45391E 01
4.90	1.25176E 00	-4.88829E 00	-2.08261E-01	1.95159E-03	-2.22359E-01	5.98227E 00	-6.51467E 01
5.00	1.25146E 00	-4.99909E 00	-2.14315E-01	2.08105E-03	-2.28119E-01	6.09348E 00	-6.57407E 01
5.10	1.25117E 00	-5.10986E 00	-2.20429E-01	2.20549E-03	-2.33938E-01	6.20465E 00	-6.63215E 01
5.20	1.25089E 00	-5.22062E 00	-2.26603E-01	2.32517E-03	-2.39816E-01	6.31577E 00	-6.68896E 01
5.30	1.25063E 00	-5.33137E 00	-2.32836E-01	2.44038E-03	-2.45753E-01	6.42685E 00	-6.74453E 01
5.40	1.25037E 00	-5.44209E 00	-2.39129E-01	2.55134E-03	-2.51749E-01	6.53789E 00	-6.79893E 01
5.50	1.25012E 00	-5.55280E 00	-2.45481E-01	2.65831E-03	-2.57803E-01	6.64889E 00	-6.85216E 01
5.60	1.24989E 00	-5.66350E 00	-2.51893E-01	2.76146E-03	-2.63917E-01	6.75985E 00	-6.90428E 01
5.70	1.24966E 00	-5.77417E 00	-2.58365E-01	2.86102E-03	-2.70091E-01	6.87077E 00	-6.95533E 01
5.80	1.24945E 00	-5.88483E 00	-2.64895E-01	2.95716E-03	-2.76323E-01	6.98166E 00	-7.00533E 01
5.90	1.24924E 00	-5.99547E 00	-2.71486E-01	3.05006E-03	-2.82614E-01	7.09250E 00	-7.05431E 01
6.00	1.24903E 00	-6.10610E 00	-2.78135E-01	3.13987E-03	-2.88964E-01	7.20332E 00	-7.10232E 01

## ELECTRON RADIAL FUNCTIONS

 $Z=9$  $A=18$  $\rho=1.2 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	1.13621E-07	-4.98688E-06	-9.11665E-08	1.42009E 00	-1.42970E-06	9.51673E-05	-3.05220E-01
0.20	1.99953E-07	-2.52414E-05	-4.62055E-07	3.15962E 00	-3.78553E-06	2.51577E-04	-1.44780E-01
0.30	3.34412E-07	-7.16471E-05	-1.31436E-06	4.76144E 00	-7.32019E-06	4.85209E-04	-9.83006E-02
0.40	5.11881E-07	-1.53529E-04	-2.82474E-06	6.26065E 00	-1.20273E-05	7.94380E-04	-7.66279E-02
0.50	7.32124E-07	-2.78516E-04	-5.14294E-06	7.65125E 00	-1.78989E-05	1.17699E-03	-6.44681E-02
0.60	9.95515E-07	-4.52503E-04	-8.39122E-06	8.92759E 00	-2.49284E-05	1.63083E-03	-5.69333E-02
0.70	1.30250E-06	-6.79833E-04	-1.26672E-05	1.00887E 01	-3.31129E-05	2.15375E-03	-5.19675E-02
0.80	1.65348E-06	-9.63562E-04	-1.80480E-05	1.11381E 01	-4.24540E-05	2.74388E-03	-4.85555E-02
0.90	2.04879E-06	-1.30576E-03	-2.45954E-05	1.20822E 01	-5.29584E-05	3.39961E-03	-4.61402E-02
1.00	2.48869E-06	-1.70779E-03	-3.23596E-05	1.29294E 01	-6.46376E-05	4.11967E-03	-4.43922E-02
1.10	2.97341E-06	-2.17047E-03	-4.13829E-05	1.36888E 01	-7.75071E-05	4.90303E-03	-4.31057E-02
1.20	3.50309E-06	-2.69433E-03	-5.17022E-05	1.43694E 01	-9.15856E-05	5.74891E-03	-4.21468E-02
1.30	4.07787E-06	-3.27962E-03	-6.33509E-05	1.49801E 01	-1.06895E-04	6.65669E-03	-4.14254E-02
1.40	4.69785E-06	-3.92647E-03	-7.63600E-05	1.55288E 01	-1.23457E-04	7.62593E-03	-4.08792E-02
1.50	5.36310E-06	-4.63491E-03	-9.07593E-05	1.60227E 01	-1.41299E-04	8.65627E-03	-4.04640E-02
1.60	6.07369E-06	-5.40491E-03	-1.06577E-04	1.64685E 01	-1.60446E-04	9.74746E-03	-4.01481E-02
1.70	6.82966E-06	-6.23640E-03	-1.23843E-04	1.68718E 01	-1.80925E-04	1.08993E-02	-3.99084E-02
1.80	7.63105E-06	-7.12933E-03	-1.42583E-04	1.72376E 01	-2.02763E-04	1.21117E-02	-3.97274E-02
1.90	8.47789E-06	-8.08358E-03	-1.62827E-04	1.75702E 01	-2.25990E-04	1.33844E-02	-3.95922E-02
2.00	9.37019E-06	-9.09909E-03	-1.84602E-04	1.78736E 01	-2.50633E-04	1.47175E-02	-3.94931E-02
2.10	1.03080E-05	-1.01758E-02	-2.07937E-04	1.81510E 01	-2.76720E-04	1.61108E-02	-3.94222E-02
2.20	1.12913E-05	-1.13135E-02	-2.32858E-04	1.84053E 01	-3.04282E-04	1.75643E-02	-3.93738E-02
2.30	1.23201E-05	-1.25123E-02	-2.59396E-04	1.86390E 01	-3.33347E-04	1.90780E-02	-3.93433E-02
2.40	1.33944E-05	-1.37720E-02	-2.87577E-04	1.88543E 01	-3.63945E-04	2.06519E-02	-3.93271E-02
2.50	1.45142E-05	-1.50926E-02	-3.17430E-04	1.90532E 01	-3.96104E-04	2.22859E-02	-3.93222E-02
2.60	1.56796E-05	-1.64740E-02	-3.48984E-04	1.92373E 01	-4.29853E-04	2.39800E-02	-3.93265E-02
2.70	1.68905E-05	-1.79161E-02	-3.82267E-04	1.94081E 01	-4.65223E-04	2.57342E-02	-3.93380E-02
2.80	1.81470E-05	-1.94189E-02	-4.17308E-04	1.95668E 01	-5.02243E-04	2.75485E-02	-3.93554E-02
2.90	1.94489E-05	-2.09825E-02	-4.54135E-04	1.97147E 01	-5.40941E-04	2.94229E-02	-3.93773E-02
3.00	2.07965E-05	-2.26066E-02	-4.92778E-04	1.98528E 01	-5.81348E-04	3.13574E-02	-3.94030E-02
3.10	2.21895E-05	-2.42913E-02	-5.33264E-04	1.99819E 01	-6.23492E-04	3.33519E-02	-3.94315E-02
3.20	2.36281E-05	-2.60365E-02	-5.75624E-04	2.01028E 01	-6.67403E-04	3.54065E-02	-3.94622E-02
3.30	2.51123E-05	-2.78423E-02	-6.19885E-04	2.02163E 01	-7.13111E-04	3.75212E-02	-3.94946E-02
3.40	2.66419E-05	-2.97085E-02	-6.66076E-04	2.03230E 01	-7.60644E-04	3.96959E-02	-3.95283E-02
3.50	2.82171E-05	-3.16352E-02	-7.14227E-04	2.04234E 01	-8.10033E-04	4.19307E-02	-3.95629E-02
3.60	2.98379E-05	-3.36223E-02	-7.64367E-04	2.05181E 01	-8.61307E-04	4.42256E-02	-3.95981E-02
3.70	3.15042E-05	-3.56698E-02	-8.16524E-04	2.06075E 01	-9.14494E-04	4.65806E-02	-3.96338E-02
3.80	3.32160E-05	-3.77777E-02	-8.70727E-04	2.06920E 01	-9.69624E-04	4.89955E-02	-3.96696E-02
3.90	3.49733E-05	-3.99459E-02	-9.27006E-04	2.07720E 01	-1.02673E-03	5.14705E-02	-3.97055E-02
4.00	3.67762E-05	-4.21745E-02	-9.85390E-04	2.08479E 01	-1.08583E-03	5.40056E-02	-3.97412E-02
4.10	3.86246E-05	-4.44633E-02	-1.04591E-03	2.09199E 01	-1.14697E-03	5.66007E-02	-3.97768E-02
4.20	4.05185E-05	-4.68125E-02	-1.10859E-03	2.09883E 01	-1.21017E-03	5.92558E-02	-3.98121E-02
4.30	4.24580E-05	-4.92219E-02	-1.17346E-03	2.10534E 01	-1.27545E-03	6.19710E-02	-3.98470E-02
4.40	4.44430E-05	-5.16916E-02	-1.24055E-03	2.11154E 01	-1.34286E-03	6.47462E-02	-3.98815E-02
4.50	4.64735E-05	-5.42215E-02	-1.30990E-03	2.11745E 01	-1.41241E-03	6.75814E-02	-3.99155E-02
4.60	4.85495E-05	-5.68117E-02	-1.38152E-03	2.12309E 01	-1.48415E-03	7.04766E-02	-3.99491E-02
4.70	5.06711E-05	-5.94620E-02	-1.45545E-03	2.12847E 01	-1.55809E-03	7.34318E-02	-3.99821E-02
4.80	5.28381E-05	-6.21725E-02	-1.53172E-03	2.13362E 01	-1.63426E-03	7.64470E-02	-4.00145E-02
4.90	5.50508E-05	-6.49433E-02	-1.61035E-03	2.13855E 01	-1.71270E-03	7.95223E-02	-4.00464E-02
5.00	5.73088E-05	-6.77742E-02	-1.69138E-03	2.14327E 01	-1.79344E-03	8.26575E-02	-4.00778E-02
5.10	5.96125E-05	-7.06652E-02	-1.77483E-03	2.14779E 01	-1.87650E-03	8.58527E-02	-4.01086E-02
5.20	6.19616E-05	-7.36164E-02	-1.86074E-03	2.15213E 01	-1.96192E-03	8.91079E-02	-4.01387E-02
5.30	6.43562E-05	-7.66278E-02	-1.94913E-03	2.15630E 01	-2.04971E-03	9.24231E-02	-4.01684E-02
5.40	6.67964E-05	-7.96992E-02	-2.04004E-03	2.16030E 01	-2.13992E-03	9.57983E-02	-4.01974E-02
5.50	6.92820E-05	-8.28307E-02	-2.13348E-03	2.16415E 01	-2.23257E-03	9.92334E-02	-4.02259E-02
5.60	7.18132E-05	-8.60224E-02	-2.22950E-03	2.16785E 01	-2.32769E-03	1.02728E-01	-4.02538E-02
5.70	7.43899E-05	-8.92741E-02	-2.32811E-03	2.17141E 01	-2.42532E-03	1.06283E-01	-4.02811E-02
5.80	7.70120E-05	-9.25858E-02	-2.42936E-03	2.17485E 01	-2.52546E-03	1.09898E-01	-4.03079E-02
5.90	7.96796E-05	-9.59577E-02	-2.53326E-03	2.17816E 01	-2.62817E-03	1.13573E-01	-4.03342E-02
6.00	8.23928E-05	-9.93896E-02	-2.63985E-03	2.18135E 01	-2.73347E-03	1.17308E-01	-4.03599E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=9$			$A=18$		$\rho=1.2A^{1/3}F$					
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
6.10	1.24884E	00	-6.21670E	00	-2.84844E-01	3.22674E-03	-2.95374E-01	7.31410E	00	-7.14938E	01
6.20	1.24865E	00	-6.32728E	00	-2.91613E-01	3.31081E-03	-3.01842E-01	7.42484E	00	-7.19552E	01
6.30	1.24846E	00	-6.43785E	00	-2.98441E-01	3.39221E-03	-3.08370E-01	7.53556E	00	-7.24077E	01
6.40	1.24829E	00	-6.54840E	00	-3.05328E-01	3.47108E-03	-3.14957E-01	7.64624E	00	-7.28514E	01
6.50	1.24811E	00	-6.65892E	00	-3.12275E-01	3.54752E-03	-3.21603E-01	7.75689E	00	-7.32868E	01
6.60	1.24795E	00	-6.76943E	00	-3.19280E-01	3.62162E-03	-3.28308E-01	7.86751E	00	-7.37141E	01
6.70	1.24779E	00	-6.87992E	00	-3.26346E-01	3.69352E-03	-3.35072E-01	7.97810E	00	-7.41334E	01
6.80	1.24763E	00	-6.99039E	00	-3.33470E-01	3.76330E-03	-3.41895E-01	8.08866E	00	-7.45450E	01
6.90	1.24748E	00	-7.10084E	00	-3.40654E-01	3.83104E-03	-3.48778E-01	8.19919E	00	-7.49491E	01
7.00	1.24733E	00	-7.21127E	00	-3.47897E-01	3.89686E-03	-3.55720E-01	8.30969E	00	-7.53459E	01
7.10	1.24718E	00	-7.32168E	00	-3.55199E-01	3.96079E-03	-3.62720E-01	8.42016E	00	-7.57358E	01
7.20	1.24705E	00	-7.43207E	00	-3.62561E-01	4.02294E-03	-3.69780E-01	8.53061E	00	-7.61188E	01
7.30	1.24691E	00	-7.54243E	00	-3.69982E-01	4.08338E-03	-3.76899E-01	8.64103E	00	-7.64951E	01
7.40	1.24678E	00	-7.65278E	00	-3.77462E-01	4.14217E-03	-3.84077E-01	8.75142E	00	-7.68649E	01
7.50	1.24665E	00	-7.76311E	00	-3.85001E-01	4.19937E-03	-3.91315E-01	8.86178E	00	-7.72284E	01
7.60	1.24652E	00	-7.87342E	00	-3.92600E-01	4.25507E-03	-3.98611E-01	8.97212E	00	-7.75857E	01
7.70	1.24640E	00	-7.98371E	00	-4.00258E-01	4.30930E-03	-4.05967E-01	9.08243E	00	-7.79371E	01
7.80	1.24628E	00	-8.09398E	00	-4.07975E-01	4.36210E-03	-4.13381E-01	9.19271E	00	-7.82827E	01
7.90	1.24616E	00	-8.20422E	00	-4.15751E-01	4.41357E-03	-4.20855E-01	9.30297E	00	-7.86226E	01
8.00	1.24604E	00	-8.31445E	00	-4.23586E-01	4.46373E-03	-4.28387E-01	9.41320E	00	-7.89570E	01
8.10	1.24593E	00	-8.42465E	00	-4.31480E-01	4.51263E-03	-4.35979E-01	9.52340E	00	-7.92860E	01
8.20	1.24582E	00	-8.53484E	00	-4.39434E-01	4.56032E-03	-4.43630E-01	9.63359E	00	-7.96099E	01
8.30	1.24571E	00	-8.64501E	00	-4.47446E-01	4.60684E-03	-4.51340E-01	9.74374E	00	-7.99285E	01
8.40	1.24561E	00	-8.75515E	00	-4.55518E-01	4.65223E-03	-4.59109E-01	9.85387E	00	-8.02423E	01
8.50	1.24550E	00	-8.86527E	00	-4.63649E-01	4.69654E-03	-4.66937E-01	9.96398E	00	-8.05512E	01
8.60	1.24540E	00	-8.97538E	00	-4.71839E-01	4.73979E-03	-4.74824E-01	1.00741E	01	-8.08553E	01
8.70	1.24531E	00	-9.08546E	00	-4.80088E-01	4.78203E-03	-4.82770E-01	1.01841E	01	-8.11549E	01
8.80	1.24521E	00	-9.19552E	00	-4.88396E-01	4.82329E-03	-4.90775E-01	1.02941E	01	-8.14499E	01
8.90	1.24511E	00	-9.30556E	00	-4.96763E-01	4.86359E-03	-4.98839E-01	1.04042E	01	-8.17406E	01
9.00	1.24502E	00	-9.41558E	00	-5.05189E-01	4.90297E-03	-5.06962E-01	1.05141E	01	-8.20270E	01
9.10	1.24493E	00	-9.52558E	00	-5.13674E-01	4.94148E-03	-5.15144E-01	1.06241E	01	-8.23092E	01
9.20	1.24484E	00	-9.63556E	00	-5.22218E-01	4.97911E-03	-5.23385E-01	1.07340E	01	-8.25873E	01
9.30	1.24475E	00	-9.74551E	00	-5.30821E-01	5.01592E-03	-5.31685E-01	1.08439E	01	-8.28615E	01
9.40	1.24466E	00	-9.85545E	00	-5.39483E-01	5.05192E-03	-5.40044E-01	1.09538E	01	-8.31318E	01
9.50	1.24458E	00	-9.96536E	00	-5.48204E-01	5.08713E-03	-5.48462E-01	1.10637E	01	-8.33983E	01
9.60	1.24449E	00	-1.00753E	01	-5.56984E-01	5.12159E-03	-5.56939E-01	1.11735E	01	-8.36611E	01
9.70	1.24441E	00	-1.01851E	01	-5.65823E-01	5.15530E-03	-5.65474E-01	1.12833E	01	-8.39203E	01
9.80	1.24433E	00	-1.02950E	01	-5.74720E-01	5.18832E-03	-5.74069E-01	1.13931E	01	-8.41760E	01
9.90	1.24425E	00	-1.04048E	01	-5.83677E-01	5.22064E-03	-5.82722E-01	1.15029E	01	-8.44281E	01
10.00	1.24417E	00	-1.05146E	01	-5.92693E-01	5.25228E-03	-5.91435E-01	1.16127E	01	-8.46770E	01
10.10	1.24410E	00	-1.06244E	01	-6.01767E-01	5.28327E-03	-6.00206E-01	1.17224E	01	-8.49224E	01
10.20	1.24402E	00	-1.07342E	01	-6.10900E-01	5.31363E-03	-6.09036E-01	1.18321E	01	-8.51648E	01
10.30	1.24395E	00	-1.08439E	01	-6.20093E-01	5.34337E-03	-6.17925E-01	1.19417E	01	-8.54039E	01
10.40	1.24387E	00	-1.09536E	01	-6.29343E-01	5.37251E-03	-6.26873E-01	1.20514E	01	-8.56400E	01
10.50	1.24380E	00	-1.10633E	01	-6.38654E-01	5.40107E-03	-6.35880E-01	1.21610E	01	-8.58730E	01
10.60	1.24373E	00	-1.11730E	01	-6.48022E-01	5.42908E-03	-6.44945E-01	1.22706E	01	-8.61031E	01
10.70	1.24366E	00	-1.12827E	01	-6.57449E-01	5.45652E-03	-6.54069E-01	1.23802E	01	-8.63303E	01
10.80	1.24359E	00	-1.13923E	01	-6.66936E-01	5.48342E-03	-6.63252E-01	1.24898E	01	-8.65548E	01
10.90	1.24352E	00	-1.15019E	01	-6.76481E-01	5.50982E-03	-6.72494E-01	1.25993E	01	-8.67764E	01
11.00	1.24346E	00	-1.16115E	01	-6.86084E-01	5.53571E-03	-6.81795E-01	1.27088E	01	-8.69952E	01
11.10	1.24339E	00	-1.17211E	01	-6.95747E-01	5.56109E-03	-6.91154E-01	1.28183E	01	-8.72116E	01
11.20	1.24333E	00	-1.18306E	01	-7.05468E-01	5.58600E-03	-7.00572E-01	1.29278E	01	-8.74253E	01
11.30	1.24326E	00	-1.19402E	01	-7.15248E-01	5.61044E-03	-7.10049E-01	1.30372E	01	-8.76365E	01
11.40	1.24320E	00	-1.20497E	01	-7.25086E-01	5.63442E-03	-7.19584E-01	1.31466E	01	-8.78451E	01
11.50	1.24313E	00	-1.21591E	01	-7.34984E-01	5.65796E-03	-7.29178E-01	1.32560E	01	-8.80514E	01
11.60	1.24307E	00	-1.22686E	01	-7.44939E-01	5.68107E-03	-7.38831E-01	1.33654E	01	-8.82552E	01
11.70	1.24301E	00	-1.23780E	01	-7.54954E-01	5.70375E-03	-7.48542E-01	1.34748E	01	-8.84568E	01
11.80	1.24295E	00	-1.24875E	01	-7.65027E-01	5.72602E-03	-7.58312E-01	1.35841E	01	-8.86560E	01
11.90	1.24289E	00	-1.25969E	01	-7.75159E-01	5.74790E-03	-7.68141E-01	1.36934E	01	-8.88530E	01
12.00	1.24283E	00	-1.27062E	01	-7.85350E-01	5.76936E-03	-7.78028E-01	1.38027E	01	-8.90479E	01

## ELECTRON RADIAL FUNCTIONS

 $Z=9$  $A=18$  $\rho=1.2 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	8.51515E-05	-1.02882E-01	-2.74916E-03	2.18443E 01	-2.84138E-03	1.21103E-01	-4.03851E-02
6.20	8.79557E-05	-1.06434E-01	-2.86121E-03	2.18741E 01	-2.95194E-03	1.24958E-01	-4.04098E-02
6.30	9.08053E-05	-1.10045E-01	-2.97603E-03	2.19029E 01	-3.06517E-03	1.28872E-01	-4.04340E-02
6.40	9.37005E-05	-1.13717E-01	-3.09366E-03	2.19307E 01	-3.18110E-03	1.32847E-01	-4.04578E-02
6.50	9.66412E-05	-1.17449E-01	-3.21412E-03	2.19576E 01	-3.29977E-03	1.36881E-01	-4.04810E-02
6.60	9.96272E-05	-1.21241E-01	-3.33744E-03	2.19836E 01	-3.42120E-03	1.40975E-01	-4.05037E-02
6.70	1.02659E-04	-1.25093E-01	-3.46365E-03	2.20088E 01	-3.54543E-03	1.45129E-01	-4.05260E-02
6.80	1.05736E-04	-1.29005E-01	-3.59279E-03	2.20332E 01	-3.67247E-03	1.49343E-01	-4.05479E-02
6.90	1.08859E-04	-1.32977E-01	-3.72487E-03	2.20569E 01	-3.80237E-03	1.53617E-01	-4.05693E-02
7.00	1.12027E-04	-1.37009E-01	-3.85993E-03	2.20798E 01	-3.93514E-03	1.57951E-01	-4.05903E-02
7.10	1.15240E-04	-1.41100E-01	-3.99800E-03	2.21021E 01	-4.07082E-03	1.62345E-01	-4.06109E-02
7.20	1.18499E-04	-1.45252E-01	-4.13910E-03	2.21237E 01	-4.20944E-03	1.66798E-01	-4.06311E-02
7.30	1.21804E-04	-1.49464E-01	-4.28327E-03	2.21447E 01	-4.35102E-03	1.71311E-01	-4.06509E-02
7.40	1.25154E-04	-1.53735E-01	-4.43053E-03	2.21651E 01	-4.49560E-03	1.75884E-01	-4.06703E-02
7.50	1.28549E-04	-1.58066E-01	-4.58092E-03	2.21849E 01	-4.64321E-03	1.80517E-01	-4.06893E-02
7.60	1.31990E-04	-1.62458E-01	-4.73446E-03	2.22041E 01	-4.79386E-03	1.85210E-01	-4.07079E-02
7.70	1.35477E-04	-1.66909E-01	-4.89118E-03	2.22228E 01	-4.94761E-03	1.89962E-01	-4.07262E-02
7.80	1.39009E-04	-1.71420E-01	-5.05111E-03	2.22410E 01	-5.10446E-03	1.94775E-01	-4.07442E-02
7.90	1.42586E-04	-1.75990E-01	-5.21429E-03	2.22587E 01	-5.26445E-03	1.99647E-01	-4.07618E-02
8.00	1.46209E-04	-1.80621E-01	-5.38073E-03	2.22760E 01	-5.42762E-03	2.04579E-01	-4.07791E-02
8.10	1.49877E-04	-1.85312E-01	-5.55047E-03	2.22928E 01	-5.59398E-03	2.09570E-01	-4.07960E-02
8.20	1.53591E-04	-1.90062E-01	-5.72353E-03	2.23091E 01	-5.76357E-03	2.14622E-01	-4.08127E-02
8.30	1.57350E-04	-1.94872E-01	-5.89996E-03	2.23251E 01	-5.93643E-03	2.19733E-01	-4.08290E-02
8.40	1.61155E-04	-1.99742E-01	-6.07976E-03	2.23406E 01	-6.11256E-03	2.24904E-01	-4.08451E-02
8.50	1.65005E-04	-2.04672E-01	-6.26298E-03	2.23557E 01	-6.29201E-03	2.30134E-01	-4.08608E-02
8.60	1.68901E-04	-2.09661E-01	-6.44964E-03	2.23705E 01	-6.47481E-03	2.35424E-01	-4.08763E-02
8.70	1.72842E-04	-2.14710E-01	-6.63978E-03	2.23849E 01	-6.66098E-03	2.40774E-01	-4.08915E-02
8.80	1.76828E-04	-2.19819E-01	-6.83342E-03	2.23990E 01	-6.85055E-03	2.46184E-01	-4.09061E-02
8.90	1.80860E-04	-2.24988E-01	-7.03059E-03	2.24127E 01	-7.04355E-03	2.51654E-01	-4.09210E-02
9.00	1.84938E-04	-2.30217E-01	-7.23131E-03	2.24261E 01	-7.24002E-03	2.57183E-01	-4.09354E-02
9.10	1.89061E-04	-2.35505E-01	-7.43563E-03	2.24392E 01	-7.43997E-03	2.62772E-01	-4.09496E-02
9.20	1.93229E-04	-2.40853E-01	-7.64356E-03	2.24520E 01	-7.64345E-03	2.68420E-01	-4.09635E-02
9.30	1.97443E-04	-2.46261E-01	-7.85514E-03	2.24645E 01	-7.85047E-03	2.74128E-01	-4.09771E-02
9.40	2.01703E-04	-2.51728E-01	-8.07040E-03	2.24767E 01	-8.06106E-03	2.79896E-01	-4.09906E-02
9.50	2.06007E-04	-2.57255E-01	-8.28935E-03	2.24887E 01	-8.27527E-03	2.85723E-01	-4.10038E-02
9.60	2.10358E-04	-2.62842E-01	-8.51205E-03	2.25004E 01	-8.49311E-03	2.91610E-01	-4.10167E-02
9.70	2.14753E-04	-2.68489E-01	-8.73850E-03	2.25118E 01	-8.71461E-03	2.97557E-01	-4.10295E-02
9.80	2.19195E-04	-2.74195E-01	-8.96874E-03	2.25230E 01	-8.93980E-03	3.03563E-01	-4.10421E-02
9.90	2.23681E-04	-2.79961E-01	-9.20281E-03	2.25339E 01	-9.16872E-03	3.09629E-01	-4.10544E-02
10.00	2.28213E-04	-2.85786E-01	-9.44072E-03	2.25447E 01	-9.40139E-03	3.15754E-01	-4.10665E-02
10.10	2.32791E-04	-2.91671E-01	-9.68251E-03	2.25551E 01	-9.63783E-03	3.21940E-01	-4.10785E-02
10.20	2.37414E-04	-2.97616E-01	-9.92821E-03	2.25654E 01	-9.87809E-03	3.28184E-01	-4.10902E-02
10.30	2.42082E-04	-3.03620E-01	-1.01778E-02	2.25755E 01	-1.01222E-02	3.34488E-01	-4.11018E-02
10.40	2.46796E-04	-3.09684E-01	-1.04314E-02	2.25853E 01	-1.03701E-02	3.40852E-01	-4.11132E-02
10.50	2.51555E-04	-3.15808E-01	-1.06890E-02	2.25950E 01	-1.06220E-02	3.47275E-01	-4.11244E-02
10.60	2.56360E-04	-3.21991E-01	-1.09506E-02	2.26045E 01	-1.08778E-02	3.53758E-01	-4.11354E-02
10.70	2.61210E-04	-3.28233E-01	-1.12163E-02	2.26137E 01	-1.11375E-02	3.60300E-01	-4.11463E-02
10.80	2.66106E-04	-3.34536E-01	-1.14861E-02	2.26228E 01	-1.14012E-02	3.66902E-01	-4.11570E-02
10.90	2.71047E-04	-3.40898E-01	-1.17599E-02	2.26318E 01	-1.16690E-02	3.73564E-01	-4.11675E-02
11.00	2.76033E-04	-3.47319E-01	-1.20379E-02	2.26405E 01	-1.19407E-02	3.80285E-01	-4.11778E-02
11.10	2.81065E-04	-3.53800E-01	-1.23201E-02	2.26491E 01	-1.22166E-02	3.87065E-01	-4.11880E-02
11.20	2.86143E-04	-3.60340E-01	-1.26064E-02	2.26575E 01	-1.24965E-02	3.93905E-01	-4.11981E-02
11.30	2.91265E-04	-3.66940E-01	-1.28970E-02	2.26658E 01	-1.27805E-02	4.00804E-01	-4.12080E-02
11.40	2.96434E-04	-3.73599E-01	-1.31918E-02	2.26739E 01	-1.30688E-02	4.07763E-01	-4.12177E-02
11.50	3.01647E-04	-3.80318E-01	-1.34910E-02	2.26819E 01	-1.33612E-02	4.14781E-01	-4.12273E-02
11.60	3.06906E-04	-3.87097E-01	-1.37944E-02	2.26897E 01	-1.36578E-02	4.21858E-01	-4.12368E-02
11.70	3.12211E-04	-3.93935E-01	-1.41022E-02	2.26974E 01	-1.39586E-02	4.28995E-01	-4.12461E-02
11.80	3.17561E-04	-4.00832E-01	-1.44143E-02	2.27049E 01	-1.42638E-02	4.36192E-01	-4.12553E-02
11.90	3.22956E-04	-4.07789E-01	-1.47308E-02	2.27123E 01	-1.45732E-02	4.43448E-01	-4.12644E-02
12.00	3.28397E-04	-4.14805E-01	-1.50518E-02	2.27196E 01	-1.48869E-02	4.50763E-01	-4.12733E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=9$		$A=18$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	1.24277E 00	-1.28156E 01	-7.95599E-01	5.79045E-03	-7.87975E-01	1.39119E 01	-8.92407E 01	01
12.20	1.24272E 00	-1.29249E 01	-8.05907E-01	5.81117E-03	-7.97979E-01	1.40211E 01	-8.94312E 01	01
12.30	1.24266E 00	-1.30342E 01	-8.16273E-01	5.83151E-03	-8.08042E-01	1.41304E 01	-8.96199E 01	01
12.40	1.24260E 00	-1.31435E 01	-8.26698E-01	5.85151E-03	-8.18164E-01	1.42395E 01	-8.98063E 01	01
12.50	1.24255E 00	-1.32528E 01	-8.37181E-01	5.87115E-03	-8.28344E-01	1.43487E 01	-8.99909E 01	01
12.60	1.24249E 00	-1.33620E 01	-8.47723E-01	5.89045E-03	-8.38583E-01	1.44578E 01	-9.01736E 01	01
12.70	1.24244E 00	-1.34712E 01	-8.58323E-01	5.90943E-03	-8.48880E-01	1.45669E 01	-9.03542E 01	01
12.80	1.24239E 00	-1.35804E 01	-8.68982E-01	5.92808E-03	-8.59236E-01	1.46760E 01	-9.05330E 01	01
12.90	1.24233E 00	-1.36896E 01	-8.79699E-01	5.94639E-03	-8.69651E-01	1.47851E 01	-9.07101E 01	01
13.00	1.24228E 00	-1.37987E 01	-8.90475E-01	5.96441E-03	-8.80123E-01	1.48942E 01	-9.08854E 01	01
13.10	1.24223E 00	-1.39078E 01	-9.01309E-01	5.98212E-03	-8.90655E-01	1.50032E 01	-9.10588E 01	01
13.20	1.24218E 00	-1.40169E 01	-9.12202E-01	5.99954E-03	-9.01244E-01	1.51122E 01	-9.12305E 01	01
13.30	1.24213E 00	-1.41260E 01	-9.23153E-01	6.01665E-03	-9.11892E-01	1.52211E 01	-9.14006E 01	01
13.40	1.24208E 00	-1.42351E 01	-9.34162E-01	6.03350E-03	-9.22599E-01	1.53301E 01	-9.15690E 01	01
13.50	1.24203E 00	-1.43441E 01	-9.45230E-01	6.05006E-03	-9.33364E-01	1.54390E 01	-9.17357E 01	01
13.60	1.24198E 00	-1.44531E 01	-9.56356E-01	6.06635E-03	-9.44187E-01	1.55479E 01	-9.19009E 01	01
13.70	1.24193E 00	-1.45621E 01	-9.67541E-01	6.08236E-03	-9.55069E-01	1.56568E 01	-9.20645E 01	01
13.80	1.24188E 00	-1.46711E 01	-9.78784E-01	6.09813E-03	-9.66009E-01	1.57657E 01	-9.22266E 01	01
13.90	1.24183E 00	-1.47800E 01	-9.90085E-01	6.11363E-03	-9.77008E-01	1.58745E 01	-9.23871E 01	01
14.00	1.24179E 00	-1.48889E 01	-1.00144E 00	6.12887E-03	-9.88064E-01	1.59833E 01	-9.25463E 01	01
14.10	1.24174E 00	-1.49978E 01	-1.01286E 00	6.14388E-03	-9.99179E-01	1.60921E 01	-9.27039E 01	01
14.20	1.24169E 00	-1.51067E 01	-1.02434E 00	6.15864E-03	-1.01035E 00	1.62008E 01	-9.28601E 01	01
14.30	1.24165E 00	-1.52156E 01	-1.03587E 00	6.17317E-03	-1.02158E 00	1.63096E 01	-9.30149E 01	01
14.40	1.24160E 00	-1.53244E 01	-1.04747E 00	6.18746E-03	-1.03287E 00	1.64183E 01	-9.31683E 01	01
14.50	1.24156E 00	-1.54332E 01	-1.05912E 00	6.20154E-03	-1.04422E 00	1.65270E 01	-9.33204E 01	01
14.60	1.24151E 00	-1.55420E 01	-1.07083E 00	6.21538E-03	-1.05563E 00	1.66356E 01	-9.34712E 01	01
14.70	1.24147E 00	-1.56507E 01	-1.08259E 00	6.22900E-03	-1.06709E 00	1.67443E 01	-9.36207E 01	01
14.80	1.24142E 00	-1.57595E 01	-1.09442E 00	6.24241E-03	-1.07862E 00	1.68529E 01	-9.37689E 01	01
14.90	1.24138E 00	-1.58682E 01	-1.10630E 00	6.25562E-03	-1.09020E 00	1.69615E 01	-9.39158E 01	01
15.00	1.24134E 00	-1.59768E 01	-1.11824E 00	6.26862E-03	-1.10184E 00	1.70700E 01	-9.40615E 01	01
15.10	1.24130E 00	-1.60855E 01	-1.13024E 00	6.28141E-03	-1.11353E 00	1.71786E 01	-9.42060E 01	01
15.20	1.24125E 00	-1.61941E 01	-1.14230E 00	6.29401E-03	-1.12529E 00	1.72871E 01	-9.43494E 01	01
15.30	1.24121E 00	-1.63028E 01	-1.15442E 00	6.30641E-03	-1.13710E 00	1.73956E 01	-9.44915E 01	01
15.40	1.24117E 00	-1.64113E 01	-1.16659E 00	6.31862E-03	-1.14898E 00	1.75041E 01	-9.46325E 01	01
15.50	1.24113E 00	-1.65199E 01	-1.17882E 00	6.33065E-03	-1.16091E 00	1.76125E 01	-9.47724E 01	01
15.60	1.24109E 00	-1.66284E 01	-1.19111E 00	6.34248E-03	-1.17289E 00	1.77209E 01	-9.49112E 01	01
15.70	1.24105E 00	-1.67370E 01	-1.20346E 00	6.35415E-03	-1.18494E 00	1.78293E 01	-9.50488E 01	01
15.80	1.24101E 00	-1.68454E 01	-1.21587E 00	6.36562E-03	-1.19704E 00	1.79377E 01	-9.51855E 01	01
15.90	1.24097E 00	-1.69539E 01	-1.22833E 00	6.37693E-03	-1.20921E 00	1.80460E 01	-9.53211E 01	01
16.00	1.24093E 00	-1.70624E 01	-1.24086E 00	6.38806E-03	-1.22143E 00	1.81544E 01	-9.54557E 01	01
16.10	1.24089E 00	-1.71708E 01	-1.25344E 00	6.39903E-03	-1.23370E 00	1.82627E 01	-9.55892E 01	01
16.20	1.24085E 00	-1.72792E 01	-1.26607E 00	6.40983E-03	-1.24604E 00	1.83709E 01	-9.57217E 01	01
16.30	1.24081E 00	-1.73875E 01	-1.27877E 00	6.42046E-03	-1.25843E 00	1.84792E 01	-9.58533E 01	01
16.40	1.24077E 00	-1.74959E 01	-1.29152E 00	6.43094E-03	-1.27089E 00	1.85874E 01	-9.59840E 01	01
16.50	1.24074E 00	-1.76042E 01	-1.30434E 00	6.44127E-03	-1.28340E 00	1.86956E 01	-9.61135E 01	01
16.60	1.24070E 00	-1.77125E 01	-1.31721E 00	6.45143E-03	-1.29596E 00	1.88038E 01	-9.62423E 01	01
16.70	1.24066E 00	-1.78208E 01	-1.33013E 00	6.46145E-03	-1.30859E 00	1.89119E 01	-9.63701E 01	01
16.80	1.24062E 00	-1.79290E 01	-1.34312E 00	6.47131E-03	-1.32127E 00	1.90200E 01	-9.64971E 01	01
16.90	1.24059E 00	-1.80372E 01	-1.35616E 00	6.48103E-03	-1.33401E 00	1.91281E 01	-9.66232E 01	01
17.00	1.24055E 00	-1.81454E 01	-1.36927E 00	6.49059E-03	-1.34681E 00	1.92362E 01	-9.67484E 01	01
17.10	1.24051E 00	-1.82536E 01	-1.38242E 00	6.50004E-03	-1.35967E 00	1.93442E 01	-9.68726E 01	01
17.20	1.24048E 00	-1.83618E 01	-1.39564E 00	6.50932E-03	-1.37259E 00	1.94523E 01	-9.69963E 01	01
17.30	1.24044E 00	-1.84699E 01	-1.40892E 00	6.51847E-03	-1.38556E 00	1.95603E 01	-9.71190E 01	01
17.40	1.24041E 00	-1.85780E 01	-1.42225E 00	6.52748E-03	-1.39859E 00	1.96682E 01	-9.72409E 01	01
17.50	1.24037E 00	-1.86861E 01	-1.43564E 00	6.53638E-03	-1.41168E 00	1.97762E 01	-9.73619E 01	01
17.60	1.24034E 00	-1.87941E 01	-1.44909E 00	6.54513E-03	-1.42482E 00	1.98841E 01	-9.74822E 01	01
17.70	1.24030E 00	-1.89021E 01	-1.46259E 00	6.55374E-03	-1.43803E 00	1.99920E 01	-9.76019E 01	01
17.80	1.24027E 00	-1.90101E 01	-1.47616E 00	6.56224E-03	-1.45129E 00	2.00998E 01	-9.77207E 01	01
17.90	1.24023E 00	-1.91181E 01	-1.48978E 00	6.57060E-03	-1.46461E 00	2.02077E 01	-9.78388E 01	01
18.00	1.24020E 00	-1.92260E 01	-1.50345E 00	6.57885E-03	-1.47799E 00	2.03155E 01	-9.79561E 01	01

## ELECTRON RADIAL FUNCTIONS

 $Z=9$        $A=18$        $\rho=1.2A^{1/3}F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	3.33884E-04	-4.21881E-01	-1.53772E-02	2.27267E 01	-1.52051E-02	4.58138E-01	-4.12821E-02
12.20	3.39416E-04	-4.29016E-01	-1.57071E-02	2.27338E 01	-1.55276E-02	4.65572E-01	-4.12908E-02
12.30	3.44993E-04	-4.36210E-01	-1.60416E-02	2.27407E 01	-1.58545E-02	4.73065E-01	-4.12994E-02
12.40	3.50615E-04	-4.43464E-01	-1.63805E-02	2.27475E 01	-1.61858E-02	4.80618E-01	-4.13078E-02
12.50	3.56283E-04	-4.50777E-01	-1.67240E-02	2.27541E 01	-1.65217E-02	4.88230E-01	-4.13161E-02
12.60	3.61997E-04	-4.58150E-01	-1.70722E-02	2.27607E 01	-1.68620E-02	4.95901E-01	-4.13244E-02
12.70	3.67756E-04	-4.65582E-01	-1.74249E-02	2.27672E 01	-1.72069E-02	5.03632E-01	-4.13325E-02
12.80	3.73560E-04	-4.73073E-01	-1.77823E-02	2.27735E 01	-1.75563E-02	5.11422E-01	-4.13404E-02
12.90	3.79410E-04	-4.80624E-01	-1.81444E-02	2.27798E 01	-1.79103E-02	5.19271E-01	-4.13483E-02
13.00	3.85305E-04	-4.88234E-01	-1.85113E-02	2.27859E 01	-1.82689E-02	5.27179E-01	-4.13561E-02
13.10	3.91245E-04	-4.95903E-01	-1.88828E-02	2.27920E 01	-1.86322E-02	5.35147E-01	-4.13638E-02
13.20	3.97231E-04	-5.03632E-01	-1.92592E-02	2.27979E 01	-1.90002E-02	5.43174E-01	-4.13713E-02
13.30	4.03263E-04	-5.11420E-01	-1.96403E-02	2.28038E 01	-1.93728E-02	5.51261E-01	-4.13788E-02
13.40	4.09340E-04	-5.19267E-01	-2.00262E-02	2.28095E 01	-1.97502E-02	5.59406E-01	-4.13862E-02
13.50	4.15462E-04	-5.27173E-01	-2.04171E-02	2.28152E 01	-2.01324E-02	5.67611E-01	-4.13935E-02
13.60	4.21630E-04	-5.35139E-01	-2.08128E-02	2.28208E 01	-2.05193E-02	5.75875E-01	-4.14006E-02
13.70	4.27843E-04	-5.43164E-01	-2.12134E-02	2.28263E 01	-2.09110E-02	5.84198E-01	-4.14077E-02
13.80	4.34101E-04	-5.51248E-01	-2.16190E-02	2.28317E 01	-2.13076E-02	5.92581E-01	-4.14148E-02
13.90	4.40405E-04	-5.59392E-01	-2.20295E-02	2.28371E 01	-2.17091E-02	6.01022E-01	-4.14217E-02
14.00	4.46755E-04	-5.67594E-01	-2.24451E-02	2.28423E 01	-2.21155E-02	6.09523E-01	-4.14285E-02
14.10	4.53149E-04	-5.75856E-01	-2.28656E-02	2.28475E 01	-2.25268E-02	6.18083E-01	-4.14352E-02
14.20	4.59590E-04	-5.84177E-01	-2.32913E-02	2.28526E 01	-2.29431E-02	6.26702E-01	-4.14419E-02
14.30	4.66075E-04	-5.92557E-01	-2.37220E-02	2.28576E 01	-2.33644E-02	6.35380E-01	-4.14485E-02
14.40	4.72606E-04	-6.00997E-01	-2.41578E-02	2.28626E 01	-2.37906E-02	6.44118E-01	-4.14550E-02
14.50	4.79183E-04	-6.09495E-01	-2.45988E-02	2.28675E 01	-2.42220E-02	6.52914E-01	-4.14614E-02
14.60	4.85805E-04	-6.18053E-01	-2.50450E-02	2.28723E 01	-2.46584E-02	6.61770E-01	-4.14677E-02
14.70	4.92472E-04	-6.26670E-01	-2.54963E-02	2.28770E 01	-2.50999E-02	6.70684E-01	-4.14740E-02
14.80	4.99184E-04	-6.35346E-01	-2.59529E-02	2.28817E 01	-2.55465E-02	6.79658E-01	-4.14801E-02
14.90	5.05942E-04	-6.44081E-01	-2.64148E-02	2.28863E 01	-2.59984E-02	6.88691E-01	-4.14863E-02
15.00	5.12746E-04	-6.52875E-01	-2.68819E-02	2.28909E 01	-2.64554E-02	6.97782E-01	-4.14923E-02
15.10	5.19595E-04	-6.61728E-01	-2.73544E-02	2.28954E 01	-2.69176E-02	7.06933E-01	-4.14983E-02
15.20	5.26489E-04	-6.70641E-01	-2.78322E-02	2.28998E 01	-2.73851E-02	7.16143E-01	-4.15042E-02
15.30	5.33429E-04	-6.79612E-01	-2.83153E-02	2.29041E 01	-2.78578E-02	7.25412E-01	-4.15100E-02
15.40	5.40414E-04	-6.88642E-01	-2.88039E-02	2.29084E 01	-2.83358E-02	7.34740E-01	-4.15157E-02
15.50	5.47444E-04	-6.97732E-01	-2.92979E-02	2.29127E 01	-2.88192E-02	7.44127E-01	-4.15214E-02
15.60	5.54520E-04	-7.06880E-01	-2.97974E-02	2.29169E 01	-2.93080E-02	7.53573E-01	-4.15271E-02
15.70	5.61642E-04	-7.16088E-01	-3.03024E-02	2.29210E 01	-2.98021E-02	7.63078E-01	-4.15326E-02
15.80	5.68808E-04	-7.25354E-01	-3.08129E-02	2.29251E 01	-3.03017E-02	7.72642E-01	-4.15381E-02
15.90	5.76021E-04	-7.34680E-01	-3.13289E-02	2.29291E 01	-3.08067E-02	7.82264E-01	-4.15436E-02
16.00	5.83278E-04	-7.44064E-01	-3.18505E-02	2.29331E 01	-3.13172E-02	7.91946E-01	-4.15490E-02
16.10	5.90581E-04	-7.53508E-01	-3.23777E-02	2.29370E 01	-3.18332E-02	8.01687E-01	-4.15543E-02
16.20	5.97929E-04	-7.63101E-01	-3.29105E-02	2.29409E 01	-3.23547E-02	8.11486E-01	-4.15595E-02
16.30	6.05323E-04	-7.72572E-01	-3.34490E-02	2.29447E 01	-3.28818E-02	8.21345E-01	-4.15647E-02
16.40	6.12763E-04	-7.82192E-01	-3.39932E-02	2.29485E 01	-3.34145E-02	8.31262E-01	-4.15699E-02
16.50	6.20247E-04	-7.91871E-01	-3.45431E-02	2.29522E 01	-3.39528E-02	8.41238E-01	-4.15750E-02
16.60	6.27777E-04	-8.01609E-01	-3.50987E-02	2.29559E 01	-3.44967E-02	8.51273E-01	-4.15800E-02
16.70	6.35352E-04	-8.11406E-01	-3.56602E-02	2.29595E 01	-3.50464E-02	8.61367E-01	-4.15850E-02
16.80	6.42973E-04	-8.21262E-01	-3.62274E-02	2.29631E 01	-3.56017E-02	8.71520E-01	-4.15899E-02
16.90	6.50639E-04	-8.31176E-01	-3.68004E-02	2.29666E 01	-3.61627E-02	8.81731E-01	-4.15948E-02
17.00	6.58350E-04	-8.41150E-01	-3.73793E-02	2.29701E 01	-3.67296E-02	8.92001E-01	-4.15996E-02
17.10	6.66107E-04	-8.51182E-01	-3.79641E-02	2.29736E 01	-3.73022E-02	9.02330E-01	-4.16044E-02
17.20	6.73910E-04	-8.61273E-01	-3.85548E-02	2.29770E 01	-3.78806E-02	9.12718E-01	-4.16091E-02
17.30	6.81757E-04	-8.71423E-01	-3.91515E-02	2.29804E 01	-3.84649E-02	9.23165E-01	-4.16137E-02
17.40	6.89651E-04	-8.81632E-01	-3.97542E-02	2.29837E 01	-3.90551E-02	9.33670E-01	-4.16184E-02
17.50	6.97589E-04	-8.91900E-01	-4.03628E-02	2.29870E 01	-3.96511E-02	9.44235E-01	-4.16229E-02
17.60	7.05573E-04	-9.02226E-01	-4.09775E-02	2.29903E 01	-4.02531E-02	9.54857E-01	-4.16274E-02
17.70	7.13602E-04	-9.12611E-01	-4.15982E-02	2.29935E 01	-4.08611E-02	9.65539E-01	-4.16319E-02
17.80	7.21677E-04	-9.23055E-01	-4.22250E-02	2.29966E 01	-4.14750E-02	9.76280E-01	-4.16364E-02
17.90	7.29797E-04	-9.33558E-01	-4.28579E-02	2.29998E 01	-4.20950E-02	9.87079E-01	-4.16408E-02
18.00	7.37963E-04	-9.44119E-01	-4.34970E-02	2.30029E 01	-4.27210E-02	9.97936E-01	-4.16451E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=9$		$A=18$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	1.24017E 00	-1.93340E 01	-1.51719E 00	6.58698E-03	-1.49142E 00	2.04233E 01	-9.80727E 01	01
18.20	1.24013E 00	-1.94419E 01	-1.53099E 00	6.59498E-03	-1.50491E 00	2.05311E 01	-9.81886E 01	01
18.30	1.24010E 00	-1.95497E 01	-1.54484E 00	6.60286E-03	-1.51846E 00	2.06388E 01	-9.83039E 01	01
18.40	1.24007E 00	-1.96576E 01	-1.55875E 00	6.61064E-03	-1.53207E 00	2.07465E 01	-9.84184E 01	01
18.50	1.24003E 00	-1.97654E 01	-1.57271E 00	6.61830E-03	-1.54574E 00	2.08542E 01	-9.85322E 01	01
18.60	1.24000E 00	-1.98732E 01	-1.58674E 00	6.62583E-03	-1.55946E 00	2.09618E 01	-9.86456E 01	01
18.70	1.23997E 00	-1.99810E 01	-1.60082E 00	6.63326E-03	-1.57324E 00	2.10695E 01	-9.87582E 01	01
18.80	1.23994E 00	-2.00887E 01	-1.61496E 00	6.64058E-03	-1.58708E 00	2.11771E 01	-9.88701E 01	01
18.90	1.23990E 00	-2.01964E 01	-1.62916E 00	6.64781E-03	-1.60097E 00	2.12847E 01	-9.89813E 01	01
19.00	1.23987E 00	-2.03041E 01	-1.64341E 00	6.65491E-03	-1.61492E 00	2.13922E 01	-9.90921E 01	01
19.10	1.23984E 00	-2.04118E 01	-1.65772E 00	6.66190E-03	-1.62893E 00	2.14997E 01	-9.92023E 01	01
19.20	1.23981E 00	-2.05194E 01	-1.67209E 00	6.66881E-03	-1.64300E 00	2.16072E 01	-9.93116E 01	01
19.30	1.23978E 00	-2.06270E 01	-1.68652E 00	6.67560E-03	-1.65713E 00	2.17147E 01	-9.94207E 01	01
19.40	1.23975E 00	-2.07346E 01	-1.70100E 00	6.68230E-03	-1.67131E 00	2.18222E 01	-9.95290E 01	01
19.50	1.23972E 00	-2.08421E 01	-1.71554E 00	6.68890E-03	-1.68555E 00	2.19296E 01	-9.96368E 01	01
19.60	1.23969E 00	-2.09497E 01	-1.73014E 00	6.69540E-03	-1.69985E 00	2.20370E 01	-9.97440E 01	01
19.70	1.23966E 00	-2.10572E 01	-1.74480E 00	6.70179E-03	-1.71420E 00	2.21444E 01	-9.98507E 01	01
19.80	1.23963E 00	-2.11647E 01	-1.75951E 00	6.70811E-03	-1.72861E 00	2.22517E 01	-9.99568E 01	01
19.90	1.23960E 00	-2.12721E 01	-1.77428E 00	6.71431E-03	-1.74308E 00	2.23590E 01	-1.00063E 02	02
20.00	1.23957E 00	-2.13795E 01	-1.78911E 00	6.72044E-03	-1.75761E 00	2.24663E 01	-1.00168E 02	02
20.10	1.23954E 00	-2.14869E 01	-1.80399E 00	6.72646E-03	-1.77220E 00	2.25736E 01	-1.00272E 02	02
20.20	1.23951E 00	-2.15943E 01	-1.81894E 00	6.73240E-03	-1.78684E 00	2.26808E 01	-1.00376E 02	02
20.30	1.23948E 00	-2.17016E 01	-1.83394E 00	6.73826E-03	-1.80154E 00	2.27880E 01	-1.00480E 02	02
20.40	1.23945E 00	-2.18090E 01	-1.84899E 00	6.74401E-03	-1.81629E 00	2.28952E 01	-1.00583E 02	02
20.50	1.23942E 00	-2.19163E 01	-1.86411E 00	6.74968E-03	-1.83111E 00	2.30023E 01	-1.00686E 02	02
20.60	1.23939E 00	-2.20235E 01	-1.87928E 00	6.75528E-03	-1.84598E 00	2.31095E 01	-1.00788E 02	02
20.70	1.23936E 00	-2.21308E 01	-1.89451E 00	6.76077E-03	-1.86090E 00	2.32166E 01	-1.00890E 02	02
20.80	1.23933E 00	-2.22380E 01	-1.90979E 00	6.76621E-03	-1.87589E 00	2.33236E 01	-1.00991E 02	02
20.90	1.23931E 00	-2.23451E 01	-1.92514E 00	6.77153E-03	-1.89093E 00	2.34307E 01	-1.01092E 02	02
21.00	1.23928E 00	-2.24523E 01	-1.94054E 00	6.77679E-03	-1.90603E 00	2.35377E 01	-1.01192E 02	02
21.10	1.23925E 00	-2.25594E 01	-1.95599E 00	6.78197E-03	-1.92119E 00	2.36447E 01	-1.01292E 02	02
21.20	1.23922E 00	-2.26665E 01	-1.97151E 00	6.78706E-03	-1.93640E 00	2.37516E 01	-1.01391E 02	02
21.30	1.23919E 00	-2.27736E 01	-1.98708E 00	6.79207E-03	-1.95167E 00	2.38586E 01	-1.01491E 02	02
21.40	1.23917E 00	-2.28806E 01	-2.00271E 00	6.79702E-03	-1.96700E 00	2.39655E 01	-1.01589E 02	02
21.50	1.23914E 00	-2.29877E 01	-2.01839E 00	6.80188E-03	-1.98238E 00	2.40723E 01	-1.01688E 02	02
21.60	1.23911E 00	-2.30947E 01	-2.03413E 00	6.80667E-03	-1.99782E 00	2.41792E 01	-1.01785E 02	02
21.70	1.23909E 00	-2.32016E 01	-2.04993E 00	6.81138E-03	-2.01332E 00	2.42860E 01	-1.01883E 02	02
21.80	1.23906E 00	-2.33086E 01	-2.06579E 00	6.81602E-03	-2.02888E 00	2.43928E 01	-1.01980E 02	02
21.90	1.23903E 00	-2.34155E 01	-2.08170E 00	6.82059E-03	-2.04449E 00	2.44996E 01	-1.02077E 02	02
22.00	1.23900E 00	-2.35223E 01	-2.09767E 00	6.82508E-03	-2.06016E 00	2.46063E 01	-1.02173E 02	02
22.10	1.23898E 00	-2.36292E 01	-2.11370E 00	6.82950E-03	-2.07589E 00	2.47130E 01	-1.02269E 02	02
22.20	1.23895E 00	-2.37360E 01	-2.12978E 00	6.83386E-03	-2.09167E 00	2.48197E 01	-1.02365E 02	02
22.30	1.23893E 00	-2.38428E 01	-2.14592E 00	6.83813E-03	-2.10751E 00	2.49263E 01	-1.02460E 02	02
22.40	1.23890E 00	-2.39496E 01	-2.16212E 00	6.84234E-03	-2.12341E 00	2.50330E 01	-1.02555E 02	02
22.50	1.23887E 00	-2.40563E 01	-2.17837E 00	6.84649E-03	-2.13936E 00	2.51396E 01	-1.02650E 02	02
22.60	1.23885E 00	-2.41630E 01	-2.19469E 00	6.85056E-03	-2.15537E 00	2.52461E 01	-1.02744E 02	02
22.70	1.23882E 00	-2.42697E 01	-2.21105E 00	6.85457E-03	-2.17144E 00	2.53527E 01	-1.02838E 02	02
22.80	1.23880E 00	-2.43764E 01	-2.22748E 00	6.85852E-03	-2.18757E 00	2.54592E 01	-1.02932E 02	02
22.90	1.23877E 00	-2.44830E 01	-2.24396E 00	6.86240E-03	-2.20375E 00	2.55656E 01	-1.03025E 02	02
23.00	1.23875E 00	-2.45896E 01	-2.26050E 00	6.86622E-03	-2.21998E 00	2.56721E 01	-1.03118E 02	02
23.10	1.23872E 00	-2.46962E 01	-2.27709E 00	6.86998E-03	-2.23628E 00	2.57785E 01	-1.03211E 02	02
23.20	1.23870E 00	-2.48027E 01	-2.29374E 00	6.87366E-03	-2.25263E 00	2.58849E 01	-1.03304E 02	02
23.30	1.23867E 00	-2.49092E 01	-2.31045E 00	6.87728E-03	-2.26904E 00	2.59913E 01	-1.03396E 02	02
23.40	1.23865E 00	-2.50157E 01	-2.32722E 00	6.88084E-03	-2.28551E 00	2.60976E 01	-1.03488E 02	02
23.50	1.23862E 00	-2.51221E 01	-2.34404E 00	6.88435E-03	-2.30203E 00	2.62039E 01	-1.03579E 02	02
23.60	1.23860E 00	-2.52286E 01	-2.36092E 00	6.88779E-03	-2.31861E 00	2.63102E 01	-1.03670E 02	02
23.70	1.23857E 00	-2.53350E 01	-2.37785E 00	6.89117E-03	-2.33524E 00	2.64165E 01	-1.03762E 02	02
23.80	1.23855E 00	-2.54413E 01	-2.39484E 00	6.89450E-03	-2.35193E 00	2.65227E 01	-1.03852E 02	02
23.90	1.23852E 00	-2.55477E 01	-2.41189E 00	6.89776E-03	-2.36868E 00	2.66289E 01	-1.03943E 02	02
24.00	1.23850E 00	-2.56540E 01	-2.42900E 00	6.90098E-03	-2.38548E 00	2.67350E 01	-1.04033E 02	02

## ELECTRON RADIAL FUNCTIONS

 $Z=9$  $A=18$  $\rho = 1.2 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	7.46174E-04	-9.54740E-01	-4.41423E-02	2.30060E 01	-4.33532E-02	1.00885E 00	-4.16494E-02
18.20	7.54431E-04	-9.65419E-01	-4.47937E-02	2.30090E 01	-4.39914E-02	1.01983E 00	-4.16536E-02
18.30	7.62732E-04	-9.76156E-01	-4.54514E-02	2.30120E 01	-4.46357E-02	1.03086E 00	-4.16579E-02
18.40	7.71079E-04	-9.86952E-01	-4.61153E-02	2.30150E 01	-4.52862E-02	1.04195E 00	-4.16620E-02
18.50	7.79472E-04	-9.97807E-01	-4.67856E-02	2.30179E 01	-4.59429E-02	1.05310E 00	-4.16662E-02
18.60	7.87910E-04	-1.00872E 00	-4.74621E-02	2.30208E 01	-4.66057E-02	1.06431E 00	-4.16703E-02
18.70	7.96393E-04	-1.01969E 00	-4.81450E-02	2.30237E 01	-4.72749E-02	1.07558E 00	-4.16743E-02
18.80	8.04921E-04	-1.03072E 00	-4.88342E-02	2.30265E 01	-4.79503E-02	1.08691E 00	-4.16783E-02
18.90	8.13495E-04	-1.04181E 00	-4.95299E-02	2.30293E 01	-4.86320E-02	1.09829E 00	-4.16823E-02
19.00	8.22115E-04	-1.05296E 00	-5.02319E-02	2.30321E 01	-4.93201E-02	1.10974E 00	-4.16862E-02
19.10	8.30779E-04	-1.06417E 00	-5.09405E-02	2.30348E 01	-5.00145E-02	1.12124E 00	-4.16901E-02
19.20	8.39490E-04	-1.07543E 00	-5.16555E-02	2.30375E 01	-5.07153E-02	1.13280E 00	-4.16940E-02
19.30	8.48245E-04	-1.08675E 00	-5.23770E-02	2.30402E 01	-5.14225E-02	1.14442E 00	-4.16978E-02
19.40	8.57046E-04	-1.09814E 00	-5.31051E-02	2.30429E 01	-5.21361E-02	1.15610E 00	-4.17016E-02
19.50	8.65893E-04	-1.10958E 00	-5.38397E-02	2.30455E 01	-5.28562E-02	1.16783E 00	-4.17053E-02
19.60	8.74784E-04	-1.12108E 00	-5.45809E-02	2.30481E 01	-5.35829E-02	1.17963E 00	-4.17090E-02
19.70	8.83721E-04	-1.13263E 00	-5.53288E-02	2.30507E 01	-5.43160E-02	1.19148E 00	-4.17127E-02
19.80	8.92704E-04	-1.14425E 00	-5.60833E-02	2.30532E 01	-5.50557E-02	1.20339E 00	-4.17164E-02
19.90	9.01732E-04	-1.15592E 00	-5.68445E-02	2.30557E 01	-5.58020E-02	1.21536E 00	-4.17200E-02
20.00	9.10805E-04	-1.16766E 00	-5.76124E-02	2.30582E 01	-5.65549E-02	1.22739E 00	-4.17236E-02
20.10	9.19924E-04	-1.17945E 00	-5.83871E-02	2.30607E 01	-5.73145E-02	1.23948E 00	-4.17271E-02
20.20	9.29088E-04	-1.19130E 00	-5.91685E-02	2.30631E 01	-5.80807E-02	1.25162E 00	-4.17306E-02
20.30	9.38297E-04	-1.20321E 00	-5.99567E-02	2.30655E 01	-5.88536E-02	1.26383E 00	-4.17341E-02
20.40	9.47552E-04	-1.21517E 00	-6.07517E-02	2.30679E 01	-5.96333E-02	1.27609E 00	-4.17375E-02
20.50	9.56852E-04	-1.22720E 00	-6.15536E-02	2.30703E 01	-6.04197E-02	1.28841E 00	-4.17410E-02
20.60	9.66198E-04	-1.23928E 00	-6.23623E-02	2.30726E 01	-6.12129E-02	1.30079E 00	-4.17444E-02
20.70	9.75589E-04	-1.25142E 00	-6.31780E-02	2.30750E 01	-6.20129E-02	1.31322E 00	-4.17477E-02
20.80	9.85025E-04	-1.26362E 00	-6.40006E-02	2.30773E 01	-6.28197E-02	1.32572E 00	-4.17510E-02
20.90	9.94507E-04	-1.27588E 00	-6.48302E-02	2.30795E 01	-6.36334E-02	1.33827E 00	-4.17543E-02
21.00	1.00403E-03	-1.28820E 00	-6.56667E-02	2.30818E 01	-6.44540E-02	1.35088E 00	-4.17576E-02
21.10	1.01361E-03	-1.30057E 00	-6.65103E-02	2.30840E 01	-6.52815E-02	1.36355E 00	-4.17609E-02
21.20	1.02322E-03	-1.31301E 00	-6.73609E-02	2.30862E 01	-6.61160E-02	1.37628E 00	-4.17641E-02
21.30	1.03289E-03	-1.32550E 00	-6.82186E-02	2.30884E 01	-6.69574E-02	1.38907E 00	-4.17672E-02
21.40	1.04260E-03	-1.33805E 00	-6.90835E-02	2.30906E 01	-6.78059E-02	1.40191E 00	-4.17704E-02
21.50	1.05235E-03	-1.35066E 00	-6.99554E-02	2.30927E 01	-6.86614E-02	1.41482E 00	-4.17735E-02
21.60	1.06215E-03	-1.36332E 00	-7.08345E-02	2.30948E 01	-6.95239E-02	1.42778E 00	-4.17766E-02
21.70	1.07199E-03	-1.37605E 00	-7.17208E-02	2.30969E 01	-7.03936E-02	1.44080E 00	-4.17797E-02
21.80	1.08188E-03	-1.38883E 00	-7.26143E-02	2.30990E 01	-7.12704E-02	1.45387E 00	-4.17828E-02
21.90	1.09182E-03	-1.40167E 00	-7.35150E-02	2.31011E 01	-7.21543E-02	1.46701E 00	-4.17858E-02
22.00	1.10180E-03	-1.41457E 00	-7.44231E-02	2.31031E 01	-7.30454E-02	1.48020E 00	-4.17888E-02
22.10	1.11183E-03	-1.42752E 00	-7.53384E-02	2.31051E 01	-7.39437E-02	1.49345E 00	-4.17918E-02
22.20	1.12190E-03	-1.44054E 00	-7.62610E-02	2.31072E 01	-7.48492E-02	1.50676E 00	-4.17947E-02
22.30	1.13201E-03	-1.45361E 00	-7.71911E-02	2.31091E 01	-7.57620E-02	1.52013E 00	-4.17976E-02
22.40	1.14218E-03	-1.46674E 00	-7.81285E-02	2.31111E 01	-7.66821E-02	1.53355E 00	-4.18005E-02
22.50	1.15238E-03	-1.47993E 00	-7.90733E-02	2.31131E 01	-7.76095E-02	1.54704E 00	-4.18034E-02
22.60	1.16264E-03	-1.49318E 00	-8.00255E-02	2.31150E 01	-7.85442E-02	1.56058E 00	-4.18063E-02
22.70	1.17294E-03	-1.50649E 00	-8.09853E-02	2.31169E 01	-7.94864E-02	1.57418E 00	-4.18091E-02
22.80	1.18328E-03	-1.51985E 00	-8.19525E-02	2.31188E 01	-8.04359E-02	1.58784E 00	-4.18119E-02
22.90	1.19367E-03	-1.53327E 00	-8.29272E-02	2.31207E 01	-8.13928E-02	1.60155E 00	-4.18147E-02
23.00	1.20410E-03	-1.54675E 00	-8.39095E-02	2.31225E 01	-8.23573E-02	1.61533E 00	-4.18174E-02
23.10	1.21458E-03	-1.56029E 00	-8.48994E-02	2.31244E 01	-8.33291E-02	1.62916E 00	-4.18202E-02
23.20	1.22511E-03	-1.57388E 00	-8.58969E-02	2.31262E 01	-8.43085E-02	1.64305E 00	-4.18229E-02
23.30	1.23568E-03	-1.58754E 00	-8.69020E-02	2.31280E 01	-8.52955E-02	1.65700E 00	-4.18256E-02
23.40	1.24629E-03	-1.60125E 00	-8.79148E-02	2.31298E 01	-8.62900E-02	1.67100E 00	-4.18283E-02
23.50	1.25696E-03	-1.61502E 00	-8.89353E-02	2.31316E 01	-8.72921E-02	1.68506E 00	-4.18309E-02
23.60	1.26766E-03	-1.62885E 00	-8.99635E-02	2.31334E 01	-8.83018E-02	1.69918E 00	-4.18336E-02
23.70	1.27842E-03	-1.64273E 00	-9.09994E-02	2.31351E 01	-8.93192E-02	1.71336E 00	-4.18362E-02
23.80	1.28921E-03	-1.65667E 00	-9.20431E-02	2.31369E 01	-9.03443E-02	1.72760E 00	-4.18388E-02
23.90	1.30006E-03	-1.67068E 00	-9.30947E-02	2.31386E 01	-9.13771E-02	1.74189E 00	-4.18413E-02
24.00	1.31094E-03	-1.68473E 00	-9.41540E-02	2.31403E 01	-9.24176E-02	1.75625E 00	-4.18439E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=9$		$A=18$		$\rho=1.2A^{1/3}F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
24.10	1.23848E 00	-2.57603E 01	-2.44616E 00	6.90412E-03	-2.40235E 00	2.68412E 01	-1.04123E 02			
24.20	1.23845E 00	-2.58665E 01	-2.46338E 00	6.90722E-03	-2.41926E 00	2.69473E 01	-1.04213E 02			
24.30	1.23843E 00	-2.59727E 01	-2.48065E 00	6.91025E-03	-2.43624E 00	2.70533E 01	-1.04302E 02			
24.40	1.23841E 00	-2.60789E 01	-2.49798E 00	6.91323E-03	-2.45327E 00	2.71594E 01	-1.04392E 02			
24.50	1.23838E 00	-2.61851E 01	-2.51537E 00	6.91615E-03	-2.47036E 00	2.72654E 01	-1.04481E 02			
24.60	1.23836E 00	-2.62912E 01	-2.53281E 00	6.91903E-03	-2.48750E 00	2.73714E 01	-1.04569E 02			
24.70	1.23834E 00	-2.63973E 01	-2.55031E 00	6.92185E-03	-2.50470E 00	2.74773E 01	-1.04658E 02			
24.80	1.23831E 00	-2.65034E 01	-2.56786E 00	6.92461E-03	-2.52196E 00	2.75833E 01	-1.04746E 02			
24.90	1.23829E 00	-2.66094E 01	-2.58548E 00	6.92732E-03	-2.53927E 00	2.76891E 01	-1.04835E 02			
25.00	1.23827E 00	-2.67155E 01	-2.60315E 00	6.92998E-03	-2.55664E 00	2.77950E 01	-1.04922E 02			
25.10	1.23824E 00	-2.68214E 01	-2.62087E 00	6.93259E-03	-2.57406E 00	2.79008E 01	-1.05010E 02			
25.20	1.23822E 00	-2.69274E 01	-2.63865E 00	6.93515E-03	-2.59155E 00	2.80066E 01	-1.05098E 02			
25.30	1.23820E 00	-2.70333E 01	-2.65649E 00	6.93764E-03	-2.60909E 00	2.81124E 01	-1.05185E 02			
25.40	1.23817E 00	-2.71392E 01	-2.67438E 00	6.94010E-03	-2.62668E 00	2.82182E 01	-1.05272E 02			
25.50	1.23815E 00	-2.72451E 01	-2.69233E 00	6.94251E-03	-2.64433E 00	2.83239E 01	-1.05359E 02			
25.60	1.23813E 00	-2.73509E 01	-2.71034E 00	6.94485E-03	-2.66204E 00	2.84296E 01	-1.05446E 02			
25.70	1.23811E 00	-2.74567E 01	-2.72840E 00	6.94716E-03	-2.67980E 00	2.85352E 01	-1.05533E 02			
25.80	1.23809E 00	-2.75625E 01	-2.74652E 00	6.94942E-03	-2.69762E 00	2.86408E 01	-1.05619E 02			
25.90	1.23806E 00	-2.76682E 01	-2.76469E 00	6.95162E-03	-2.71550E 00	2.87464E 01	-1.05705E 02			
26.00	1.23804E 00	-2.77739E 01	-2.78292E 00	6.95379E-03	-2.73343E 00	2.88520E 01	-1.05791E 02			
26.10	1.23802E 00	-2.78796E 01	-2.80121E 00	6.95590E-03	-2.75142E 00	2.89575E 01	-1.05877E 02			
26.20	1.23800E 00	-2.79853E 01	-2.81955E 00	6.95797E-03	-2.76946E 00	2.90630E 01	-1.05963E 02			
26.30	1.23798E 00	-2.80909E 01	-2.83795E 00	6.95999E-03	-2.78756E 00	2.91685E 01	-1.06048E 02			
26.40	1.23795E 00	-2.81965E 01	-2.85641E 00	6.96196E-03	-2.80572E 00	2.92739E 01	-1.06134E 02			
26.50	1.23793E 00	-2.83021E 01	-2.87492E 00	6.96390E-03	-2.82393E 00	2.93793E 01	-1.06219E 02			
26.60	1.23791E 00	-2.84076E 01	-2.89349E 00	6.96578E-03	-2.84220E 00	2.94847E 01	-1.06304E 02			
26.70	1.23789E 00	-2.85131E 01	-2.91211E 00	6.96762E-03	-2.86052E 00	2.95900E 01	-1.06389E 02			
26.80	1.23787E 00	-2.86186E 01	-2.93079E 00	6.96942E-03	-2.87890E 00	2.96954E 01	-1.06474E 02			
26.90	1.23785E 00	-2.87240E 01	-2.94952E 00	6.97116E-03	-2.89734E 00	2.98006E 01	-1.06558E 02			
27.00	1.23783E 00	-2.88294E 01	-2.96831E 00	6.97287E-03	-2.91583E 00	2.99059E 01	-1.06643E 02			
27.10	1.23781E 00	-2.89348E 01	-2.98716E 00	6.97453E-03	-2.93438E 00	3.00111E 01	-1.06727E 02			
27.20	1.23779E 00	-2.90401E 01	-3.00606E 00	6.97615E-03	-2.95298E 00	3.01163E 01	-1.06812E 02			
27.30	1.23776E 00	-2.91454E 01	-3.02502E 00	6.97772E-03	-2.97164E 00	3.02215E 01	-1.06896E 02			
27.40	1.23774E 00	-2.92507E 01	-3.04404E 00	6.97926E-03	-2.99036E 00	3.03266E 01	-1.06980E 02			
27.50	1.23772E 00	-2.93560E 01	-3.06311E 00	6.98076E-03	-3.00913E 00	3.04317E 01	-1.07064E 02			
27.60	1.23770E 00	-2.94612E 01	-3.08223E 00	6.98221E-03	-3.02796E 00	3.05367E 01	-1.07148E 02			
27.70	1.23768E 00	-2.95664E 01	-3.10141E 00	6.98362E-03	-3.04684E 00	3.06418E 01	-1.07231E 02			
27.80	1.23766E 00	-2.96715E 01	-3.12065E 00	6.98500E-03	-3.06578E 00	3.07468E 01	-1.07315E 02			
27.90	1.23764E 00	-2.97767E 01	-3.13995E 00	6.98633E-03	-3.08478E 00	3.08517E 01	-1.07398E 02			
28.00	1.23762E 00	-2.98817E 01	-3.15929E 00	6.98761E-03	-3.10383E 00	3.09567E 01	-1.07482E 02			
28.10	1.23760E 00	-2.99868E 01	-3.17870E 00	6.98887E-03	-3.12293E 00	3.10616E 01	-1.07565E 02			
28.20	1.23758E 00	-3.00918E 01	-3.19816E 00	6.99007E-03	-3.14210E 00	3.11664E 01	-1.07648E 02			
28.30	1.23756E 00	-3.01968E 01	-3.21767E 00	6.99124E-03	-3.16131E 00	3.12713E 01	-1.07731E 02			
28.40	1.23754E 00	-3.03018E 01	-3.23725E 00	6.99237E-03	-3.18059E 00	3.13761E 01	-1.07814E 02			
28.50	1.23752E 00	-3.04067E 01	-3.25687E 00	6.99347E-03	-3.19992E 00	3.14809E 01	-1.07897E 02			
28.60	1.23750E 00	-3.05116E 01	-3.27656E 00	6.99452E-03	-3.21930E 00	3.15856E 01	-1.07980E 02			
28.70	1.23748E 00	-3.06165E 01	-3.29629E 00	6.99554E-03	-3.23874E 00	3.16903E 01	-1.08062E 02			
28.80	1.23746E 00	-3.07213E 01	-3.31609E 00	6.99652E-03	-3.25824E 00	3.17950E 01	-1.08145E 02			
28.90	1.23744E 00	-3.08262E 01	-3.33594E 00	6.99746E-03	-3.27779E 00	3.18997E 01	-1.08227E 02			
29.00	1.23742E 00	-3.09309E 01	-3.35584E 00	6.99836E-03	-3.29740E 00	3.20043E 01	-1.08310E 02			
29.10	1.23740E 00	-3.10357E 01	-3.37580E 00	6.99924E-03	-3.31706E 00	3.21089E 01	-1.08392E 02			
29.20	1.23739E 00	-3.11404E 01	-3.39582E 00	7.00007E-03	-3.33678E 00	3.22134E 01	-1.08475E 02			
29.30	1.23737E 00	-3.12451E 01	-3.41589E 00	7.00086E-03	-3.35655E 00	3.23179E 01	-1.08557E 02			
29.40	1.23735E 00	-3.13497E 01	-3.43602E 00	7.00162E-03	-3.37638E 00	3.24224E 01	-1.08639E 02			
29.50	1.23733E 00	-3.14543E 01	-3.45620E 00	7.00234E-03	-3.39626E 00	3.25269E 01	-1.08721E 02			
29.60	1.23731E 00	-3.15589E 01	-3.47643E 00	7.00303E-03	-3.41620E 00	3.26313E 01	-1.08803E 02			
29.70	1.23729E 00	-3.16634E 01	-3.49673E 00	7.00368E-03	-3.43620E 00	3.27357E 01	-1.08885E 02			
29.80	1.23727E 00	-3.17679E 01	-3.51707E 00	7.00430E-03	-3.45625E 00	3.28400E 01	-1.08967E 02			
29.90	1.23725E 00	-3.18724E 01	-3.53748E 00	7.00489E-03	-3.47636E 00	3.29443E 01	-1.09049E 02			
30.00	1.23723E 00	-3.19769E 01	-3.55794E 00	7.00543E-03	-3.49652E 00	3.30486E 01	-1.09131E 02			

## ELECTRON RADIAL FUNCTIONS

	$Z=9$	$A=18$	$\rho=1.2 A^{1/3} F$	Electron			
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
24.10	1.32188E-03	-1.69885E 00	-9.52213E-02	2.31420E 01	-9.34659E-02	1.77066E 00	-4.18464E-02
24.20	1.33286E-03	-1.71303E 00	-9.62964E-02	2.31437E 01	-9.45220E-02	1.78513E 00	-4.18489E-02
24.30	1.34388E-03	-1.72726E 00	-9.73795E-02	2.31453E 01	-9.55859E-02	1.79965E 00	-4.18514E-02
24.40	1.35495E-03	-1.74155E 00	-9.84704E-02	2.31470E 01	-9.66576E-02	1.81423E 00	-4.18539E-02
24.50	1.36607E-03	-1.75590E 00	-9.95694E-02	2.31486E 01	-9.77372E-02	1.82888E 00	-4.18563E-02
24.60	1.37723E-03	-1.77030E 00	-1.00676E-01	2.31502E 01	-9.88247E-02	1.84357E 00	-4.18588E-02
24.70	1.38843E-03	-1.78477E 00	-1.01791E-01	2.31518E 01	-9.99202E-02	1.85833E 00	-4.18612E-02
24.80	1.39968E-03	-1.79929E 00	-1.02914E-01	2.31534E 01	-1.01024E-01	1.87314E 00	-4.18636E-02
24.90	1.41098E-03	-1.81386E 00	-1.04045E-01	2.31550E 01	-1.02135E-01	1.88802E 00	-4.18660E-02
25.00	1.42232E-03	-1.82850E 00	-1.05185E-01	2.31566E 01	-1.03254E-01	1.90295E 00	-4.18683E-02
25.10	1.43371E-03	-1.84319E 00	-1.06332E-01	2.31581E 01	-1.04382E-01	1.91793E 00	-4.18707E-02
25.20	1.44514E-03	-1.85795E 00	-1.07488E-01	2.31597E 01	-1.05517E-01	1.93298E 00	-4.18730E-02
25.30	1.45662E-03	-1.87276E 00	-1.08651E-01	2.31612E 01	-1.06661E-01	1.94808E 00	-4.18753E-02
25.40	1.46814E-03	-1.88762E 00	-1.09823E-01	2.31627E 01	-1.07813E-01	1.96324E 00	-4.18776E-02
25.50	1.47971E-03	-1.90255E 00	-1.11003E-01	2.31642E 01	-1.08973E-01	1.97846E 00	-4.18799E-02
25.60	1.49132E-03	-1.91753E 00	-1.12192E-01	2.31657E 01	-1.10141E-01	1.99373E 00	-4.18821E-02
25.70	1.50298E-03	-1.93257E 00	-1.13389E-01	2.31672E 01	-1.11317E-01	2.00906E 00	-4.18844E-02
25.80	1.51469E-03	-1.94767E 00	-1.14594E-01	2.31687E 01	-1.12501E-01	2.02445E 00	-4.18866E-02
25.90	1.52644E-03	-1.96282E 00	-1.15807E-01	2.31701E 01	-1.13694E-01	2.03990E 00	-4.18888E-02
26.00	1.53823E-03	-1.97803E 00	-1.17029E-01	2.31716E 01	-1.14895E-01	2.05541E 00	-4.18910E-02
26.10	1.55007E-03	-1.99330E 00	-1.18259E-01	2.31730E 01	-1.16105E-01	2.07097E 00	-4.18932E-02
26.20	1.56196E-03	-2.00863E 00	-1.19498E-01	2.31744E 01	-1.17322E-01	2.08659E 00	-4.18954E-02
26.30	1.57389E-03	-2.02402E 00	-1.20745E-01	2.31758E 01	-1.18549E-01	2.10226E 00	-4.18975E-02
26.40	1.58587E-03	-2.03946E 00	-1.22001E-01	2.31772E 01	-1.19783E-01	2.11800E 00	-4.18997E-02
26.50	1.59789E-03	-2.05496E 00	-1.23265E-01	2.31786E 01	-1.21026E-01	2.13379E 00	-4.19018E-02
26.60	1.60996E-03	-2.07051E 00	-1.24538E-01	2.31800E 01	-1.22277E-01	2.14964E 00	-4.19039E-02
26.70	1.62207E-03	-2.08613E 00	-1.25819E-01	2.31814E 01	-1.23537E-01	2.16555E 00	-4.19060E-02
26.80	1.63423E-03	-2.10180E 00	-1.27109E-01	2.31827E 01	-1.24806E-01	2.18151E 00	-4.19080E-02
26.90	1.64643E-03	-2.11753E 00	-1.28408E-01	2.31841E 01	-1.26083E-01	2.19753E 00	-4.19101E-02
27.00	1.65868E-03	-2.13332E 00	-1.29715E-01	2.31854E 01	-1.27368E-01	2.21361E 00	-4.19121E-02
27.10	1.67097E-03	-2.14916E 00	-1.31031E-01	2.31867E 01	-1.28662E-01	2.22975E 00	-4.19142E-02
27.20	1.68331E-03	-2.16506E 00	-1.32355E-01	2.31880E 01	-1.29965E-01	2.24594E 00	-4.19162E-02
27.30	1.69570E-03	-2.18102E 00	-1.33689E-01	2.31893E 01	-1.31276E-01	2.26219E 00	-4.19182E-02
27.40	1.70813E-03	-2.19704E 00	-1.35031E-01	2.31906E 01	-1.32596E-01	2.27850E 00	-4.19202E-02
27.50	1.72061E-03	-2.21311E 00	-1.36382E-01	2.31919E 01	-1.33925E-01	2.29486E 00	-4.19222E-02
27.60	1.73313E-03	-2.22924E 00	-1.37742E-01	2.31932E 01	-1.35263E-01	2.31129E 00	-4.19241E-02
27.70	1.74569E-03	-2.24543E 00	-1.39110E-01	2.31945E 01	-1.36609E-01	2.32776E 00	-4.19261E-02
27.80	1.75831E-03	-2.26167E 00	-1.40488E-01	2.31957E 01	-1.37964E-01	2.34430E 00	-4.19280E-02
27.90	1.77096E-03	-2.27797E 00	-1.41874E-01	2.31970E 01	-1.39328E-01	2.36089E 00	-4.19299E-02
28.00	1.78366E-03	-2.29433E 00	-1.43270E-01	2.31982E 01	-1.40701E-01	2.37755E 00	-4.19318E-02
28.10	1.79641E-03	-2.31075E 00	-1.44674E-01	2.31994E 01	-1.42082E-01	2.39425E 00	-4.19337E-02
28.20	1.80921E-03	-2.32722E 00	-1.46088E-01	2.32007E 01	-1.43473E-01	2.41102E 00	-4.19356E-02
28.30	1.82204E-03	-2.34375E 00	-1.47510E-01	2.32019E 01	-1.44872E-01	2.42784E 00	-4.19375E-02
28.40	1.83493E-03	-2.36034E 00	-1.48941E-01	2.32031E 01	-1.46281E-01	2.44472E 00	-4.19394E-02
28.50	1.84786E-03	-2.37699E 00	-1.50382E-01	2.32043E 01	-1.47698E-01	2.46165E 00	-4.19412E-02
28.60	1.86083E-03	-2.39369E 00	-1.51831E-01	2.32054E 01	-1.49124E-01	2.47865E 00	-4.19430E-02
28.70	1.87385E-03	-2.41045E 00	-1.53290E-01	2.32066E 01	-1.50560E-01	2.49570E 00	-4.19449E-02
28.80	1.88692E-03	-2.42726E 00	-1.54758E-01	2.32078E 01	-1.52004E-01	2.51280E 00	-4.19467E-02
28.90	1.90003E-03	-2.44414E 00	-1.56235E-01	2.32089E 01	-1.53458E-01	2.52997E 00	-4.19485E-02
29.00	1.91318E-03	-2.46107E 00	-1.57721E-01	2.32101E 01	-1.54920E-01	2.54719E 00	-4.19503E-02
29.10	1.92638E-03	-2.47805E 00	-1.59217E-01	2.32112E 01	-1.56392E-01	2.56447E 00	-4.19520E-02
29.20	1.93963E-03	-2.49510E 00	-1.60722E-01	2.32124E 01	-1.57873E-01	2.58180E 00	-4.19538E-02
29.30	1.95292E-03	-2.51220E 00	-1.62236E-01	2.32135E 01	-1.59363E-01	2.59919E 00	-4.19556E-02
29.40	1.96626E-03	-2.52936E 00	-1.63759E-01	2.32146E 01	-1.60863E-01	2.61664E 00	-4.19573E-02
29.50	1.97964E-03	-2.54657E 00	-1.65292E-01	2.32157E 01	-1.62371E-01	2.63415E 00	-4.19590E-02
29.60	1.99307E-03	-2.56384E 00	-1.66834E-01	2.32168E 01	-1.63889E-01	2.65171E 00	-4.19608E-02
29.70	2.00654E-03	-2.58117E 00	-1.68386E-01	2.32179E 01	-1.65416E-01	2.66933E 00	-4.19625E-02
29.80	2.02006E-03	-2.59856E 00	-1.69947E-01	2.32190E 01	-1.66953E-01	2.68700E 00	-4.19642E-02
29.90	2.03363E-03	-2.61600E 00	-1.71517E-01	2.32201E 01	-1.68499E-01	2.70474E 00	-4.19659E-02
30.00	2.04723E-03	-2.63350E 00	-1.73097E-01	2.32212E 01	-1.70054E-01	2.72253E 00	-4.19675E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=9$		$A=18$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
30.10	1.23722E 00	-3.20813E 01	-3.57845E 00	7.00595E-03	-3.51673E 00	3.31529E 01	-1.09212E 02	02
30.20	1.23720E 00	-3.21857E 01	-3.59902E 00	7.00642E-03	-3.53701E 00	3.32571E 01	-1.09294E 02	02
30.30	1.23718E 00	-3.22900E 01	-3.61964E 00	7.00687E-03	-3.55733E 00	3.33613E 01	-1.09376E 02	02
30.40	1.23716E 00	-3.23943E 01	-3.64032E 00	7.00729E-03	-3.57772E 00	3.34654E 01	-1.09457E 02	02
30.50	1.23714E 00	-3.24986E 01	-3.66106E 00	7.00766E-03	-3.59815E 00	3.35695E 01	-1.09539E 02	02
30.60	1.23712E 00	-3.26029E 01	-3.68185E 00	7.00801E-03	-3.61864E 00	3.36736E 01	-1.09621E 02	02
30.70	1.23710E 00	-3.27071E 01	-3.70269E 00	7.00832E-03	-3.63919E 00	3.37777E 01	-1.09702E 02	02
30.80	1.23709E 00	-3.28113E 01	-3.72359E 00	7.00860E-03	-3.65979E 00	3.38817E 01	-1.09784E 02	02
30.90	1.23707E 00	-3.29154E 01	-3.74454E 00	7.00885E-03	-3.68045E 00	3.39857E 01	-1.09865E 02	02
31.00	1.23705E 00	-3.30195E 01	-3.76555E 00	7.00906E-03	-3.70117E 00	3.40896E 01	-1.09947E 02	02
31.10	1.23703E 00	-3.31236E 01	-3.78662E 00	7.00924E-03	-3.72193E 00	3.41936E 01	-1.10028E 02	02
31.20	1.23701E 00	-3.32277E 01	-3.80774E 00	7.00940E-03	-3.74276E 00	3.42974E 01	-1.10109E 02	02
31.30	1.23700E 00	-3.33317E 01	-3.82891E 00	7.00952E-03	-3.76363E 00	3.44013E 01	-1.10191E 02	02
31.40	1.23698E 00	-3.34356E 01	-3.85014E 00	7.00961E-03	-3.78457E 00	3.45051E 01	-1.10272E 02	02
31.50	1.23696E 00	-3.35396E 01	-3.87143E 00	7.00967E-03	-3.80556E 00	3.46089E 01	-1.10354E 02	02
31.60	1.23694E 00	-3.36435E 01	-3.89277E 00	7.00969E-03	-3.82660E 00	3.47126E 01	-1.10435E 02	02
31.70	1.23693E 00	-3.37474E 01	-3.91416E 00	7.00969E-03	-3.84770E 00	3.48163E 01	-1.10516E 02	02
31.80	1.23691E 00	-3.38512E 01	-3.93561E 00	7.00966E-03	-3.86885E 00	3.49200E 01	-1.10597E 02	02
31.90	1.23689E 00	-3.39550E 01	-3.95711E 00	7.00959E-03	-3.89006E 00	3.50237E 01	-1.10679E 02	02
32.00	1.23687E 00	-3.40588E 01	-3.97867E 00	7.00949E-03	-3.91132E 00	3.51273E 01	-1.10760E 02	02
32.10	1.23686E 00	-3.41626E 01	-4.00028E 00	7.00937E-03	-3.93264E 00	3.52308E 01	-1.10841E 02	02
32.20	1.23684E 00	-3.42663E 01	-4.02195E 00	7.00922E-03	-3.95401E 00	3.53344E 01	-1.10922E 02	02
32.30	1.23682E 00	-3.43699E 01	-4.04368E 00	7.00904E-03	-3.97543E 00	3.54379E 01	-1.11004E 02	02
32.40	1.23680E 00	-3.44736E 01	-4.06545E 00	7.00882E-03	-3.99692E 00	3.55414E 01	-1.11085E 02	02
32.50	1.23679E 00	-3.45772E 01	-4.08729E 00	7.00858E-03	-4.01845E 00	3.56448E 01	-1.11166E 02	02
32.60	1.23677E 00	-3.46807E 01	-4.10917E 00	7.00831E-03	-4.04004E 00	3.57482E 01	-1.11247E 02	02
32.70	1.23675E 00	-3.47843E 01	-4.13112E 00	7.00801E-03	-4.06169E 00	3.58516E 01	-1.11329E 02	02
32.80	1.23674E 00	-3.48878E 01	-4.15311E 00	7.00767E-03	-4.08339E 00	3.59549E 01	-1.11410E 02	02
32.90	1.23672E 00	-3.49913E 01	-4.17516E 00	7.00731E-03	-4.10515E 00	3.60582E 01	-1.11491E 02	02
33.00	1.23670E 00	-3.50947E 01	-4.19727E 00	7.00693E-03	-4.12695E 00	3.61615E 01	-1.11573E 02	02
33.10	1.23668E 00	-3.51981E 01	-4.21943E 00	7.00651E-03	-4.14882E 00	3.62647E 01	-1.11654E 02	02
33.20	1.23667E 00	-3.53014E 01	-4.24164E 00	7.00607E-03	-4.17074E 00	3.63679E 01	-1.11735E 02	02
33.30	1.23665E 00	-3.54048E 01	-4.26391E 00	7.00560E-03	-4.19271E 00	3.64711E 01	-1.11817E 02	02
33.40	1.23663E 00	-3.55081E 01	-4.28624E 00	7.00510E-03	-4.21474E 00	3.65742E 01	-1.11898E 02	02
33.50	1.23662E 00	-3.56113E 01	-4.30861E 00	7.00457E-03	-4.23682E 00	3.66773E 01	-1.11980E 02	02
33.60	1.23660E 00	-3.57145E 01	-4.33105E 00	7.00402E-03	-4.25896E 00	3.67803E 01	-1.12061E 02	02
33.70	1.23658E 00	-3.58177E 01	-4.35353E 00	7.00344E-03	-4.28115E 00	3.68833E 01	-1.12142E 02	02
33.80	1.23657E 00	-3.59209E 01	-4.37607E 00	7.00283E-03	-4.30340E 00	3.69863E 01	-1.12224E 02	02
33.90	1.23655E 00	-3.60240E 01	-4.39867E 00	7.00220E-03	-4.32570E 00	3.70893E 01	-1.12305E 02	02
34.00	1.23654E 00	-3.61271E 01	-4.42132E 00	7.00154E-03	-4.34805E 00	3.71922E 01	-1.12387E 02	02
34.10	1.23652E 00	-3.62301E 01	-4.44402E 00	7.00086E-03	-4.37046E 00	3.72950E 01	-1.12468E 02	02
34.20	1.23650E 00	-3.63331E 01	-4.46678E 00	7.00013E-03	-4.39292E 00	3.73979E 01	-1.12550E 02	02
34.30	1.23649E 00	-3.64361E 01	-4.48959E 00	6.99939E-03	-4.41544E 00	3.75007E 01	-1.12632E 02	02
34.40	1.23647E 00	-3.65390E 01	-4.51246E 00	6.99863E-03	-4.43801E 00	3.76034E 01	-1.12713E 02	02
34.50	1.23645E 00	-3.66419E 01	-4.53538E 00	6.99783E-03	-4.46064E 00	3.77062E 01	-1.12795E 02	02
34.60	1.23644E 00	-3.67448E 01	-4.55836E 00	6.99701E-03	-4.48332E 00	3.78089E 01	-1.12877E 02	02
34.70	1.23642E 00	-3.68476E 01	-4.58139E 00	6.99617E-03	-4.50605E 00	3.79115E 01	-1.12959E 02	02
34.80	1.23641E 00	-3.69504E 01	-4.60447E 00	6.99531E-03	-4.52884E 00	3.80142E 01	-1.13041E 02	02
34.90	1.23639E 00	-3.70532E 01	-4.62761E 00	6.99441E-03	-4.55168E 00	3.81167E 01	-1.13122E 02	02
35.00	1.23638E 00	-3.71559E 01	-4.65080E 00	6.99349E-03	-4.57458E 00	3.82193E 01	-1.13204E 02	02
35.10	1.23636E 00	-3.72586E 01	-4.67405E 00	6.99254E-03	-4.59753E 00	3.83218E 01	-1.13286E 02	02
35.20	1.23634E 00	-3.73612E 01	-4.69735E 00	6.99157E-03	-4.62054E 00	3.84243E 01	-1.13368E 02	02
35.30	1.23633E 00	-3.74639E 01	-4.72070E 00	6.99057E-03	-4.64360E 00	3.85267E 01	-1.13451E 02	02
35.40	1.23631E 00	-3.75664E 01	-4.74411E 00	6.98956E-03	-4.66671E 00	3.86291E 01	-1.13533E 02	02
35.50	1.23630E 00	-3.76690E 01	-4.76757E 00	6.98851E-03	-4.68988E 00	3.87315E 01	-1.13615E 02	02
35.60	1.23628E 00	-3.77715E 01	-4.79109E 00	6.98743E-03	-4.71310E 00	3.88338E 01	-1.13697E 02	02
35.70	1.23627E 00	-3.78740E 01	-4.81466E 00	6.98634E-03	-4.73637E 00	3.89361E 01	-1.13779E 02	02
35.80	1.23625E 00	-3.79764E 01	-4.83828E 00	6.98523E-03	-4.75970E 00	3.90384E 01	-1.13862E 02	02
35.90	1.23623E 00	-3.80788E 01	-4.86196E 00	6.98408E-03	-4.78309E 00	3.91406E 01	-1.13944E 02	02
36.00	1.23622E 00	-3.81811E 01	-4.88569E 00	6.98291E-03	-4.80652E 00	3.92428E 01	-1.14027E 02	02

## ELECTRON RADIAL FUNCTIONS

 $Z=9$        $A=18$        $\rho=1.2A^{1/3}F$       Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
30.10	2.06089E-03	-2.65105E 00	-1.74687E-01	2.32222E 01	-1.71619E-01	2.74037E 00	-4.19692E-02
30.20	2.07459E-03	-2.66866E 00	-1.76286E-01	2.32233E 01	-1.73193E-01	2.75828E 00	-4.19709E-02
30.30	2.08834E-03	-2.68633E 00	-1.77894E-01	2.32243E 01	-1.74777E-01	2.77623E 00	-4.19725E-02
30.40	2.10213E-03	-2.70406E 00	-1.79512E-01	2.32254E 01	-1.76370E-01	2.79425E 00	-4.19741E-02
30.50	2.11596E-03	-2.72184E 00	-1.81140E-01	2.32264E 01	-1.77973E-01	2.81232E 00	-4.19758E-02
30.60	2.12984E-03	-2.73968E 00	-1.82777E-01	2.32275E 01	-1.79585E-01	2.83045E 00	-4.19774E-02
30.70	2.14377E-03	-2.75758E 00	-1.84425E-01	2.32285E 01	-1.81207E-01	2.84864E 00	-4.19790E-02
30.80	2.15774E-03	-2.77553E 00	-1.86081E-01	2.32295E 01	-1.82838E-01	2.86688E 00	-4.19806E-02
30.90	2.17176E-03	-2.79354E 00	-1.87748E-01	2.32305E 01	-1.84479E-01	2.88518E 00	-4.19822E-02
31.00	2.18582E-03	-2.81161E 00	-1.89424E-01	2.32315E 01	-1.86130E-01	2.90354E 00	-4.19837E-02
31.10	2.19993E-03	-2.82973E 00	-1.91110E-01	2.32325E 01	-1.87791E-01	2.92195E 00	-4.19853E-02
31.20	2.21408E-03	-2.84791E 00	-1.92806E-01	2.32335E 01	-1.89461E-01	2.94042E 00	-4.19869E-02
31.30	2.22828E-03	-2.86614E 00	-1.94512E-01	2.32345E 01	-1.91141E-01	2.95894E 00	-4.19884E-02
31.40	2.24253E-03	-2.88444E 00	-1.96227E-01	2.32354E 01	-1.92830E-01	2.97753E 00	-4.19900E-02
31.50	2.25682E-03	-2.90279E 00	-1.97953E-01	2.32364E 01	-1.94530E-01	2.99616E 00	-4.19915E-02
31.60	2.27115E-03	-2.92119E 00	-1.99688E-01	2.32374E 01	-1.96239E-01	3.01486E 00	-4.19930E-02
31.70	2.28553E-03	-2.93965E 00	-2.01434E-01	2.32383E 01	-1.97958E-01	3.03361E 00	-4.19945E-02
31.80	2.29996E-03	-2.95817E 00	-2.03189E-01	2.32393E 01	-1.99687E-01	3.05242E 00	-4.19960E-02
31.90	2.31443E-03	-2.97675E 00	-2.04954E-01	2.32402E 01	-2.01426E-01	3.07128E 00	-4.19975E-02
32.00	2.32894E-03	-2.99538E 00	-2.06730E-01	2.32412E 01	-2.03175E-01	3.09020E 00	-4.19990E-02
32.10	2.34350E-03	-3.01407E 00	-2.08515E-01	2.32421E 01	-2.04934E-01	3.10918E 00	-4.20005E-02
32.20	2.35811E-03	-3.03281E 00	-2.10310E-01	2.32430E 01	-2.06703E-01	3.12821E 00	-4.20020E-02
32.30	2.37276E-03	-3.05161E 00	-2.12116E-01	2.32439E 01	-2.08481E-01	3.14730E 00	-4.20034E-02
32.40	2.38746E-03	-3.07047E 00	-2.13932E-01	2.32449E 01	-2.10270E-01	3.16645E 00	-4.20049E-02
32.50	2.40220E-03	-3.08938E 00	-2.15758E-01	2.32458E 01	-2.12069E-01	3.18565E 00	-4.20063E-02
32.60	2.41699E-03	-3.10835E 00	-2.17594E-01	2.32467E 01	-2.13878E-01	3.20491E 00	-4.20078E-02
32.70	2.43182E-03	-3.12738E 00	-2.19440E-01	2.32476E 01	-2.15697E-01	3.22422E 00	-4.20092E-02
32.80	2.44670E-03	-3.14646E 00	-2.21297E-01	2.32485E 01	-2.17527E-01	3.24359E 00	-4.20106E-02
32.90	2.46163E-03	-3.16560E 00	-2.23163E-01	2.32493E 01	-2.19366E-01	3.26302E 00	-4.20120E-02
33.00	2.47660E-03	-3.18479E 00	-2.25040E-01	2.32502E 01	-2.21216E-01	3.28250E 00	-4.20134E-02
33.10	2.49161E-03	-3.20404E 00	-2.26928E-01	2.32511E 01	-2.23076E-01	3.30204E 00	-4.20148E-02
33.20	2.50667E-03	-3.22335E 00	-2.28826E-01	2.32520E 01	-2.24946E-01	3.32164E 00	-4.20162E-02
33.30	2.52178E-03	-3.24271E 00	-2.30734E-01	2.32528E 01	-2.26827E-01	3.34129E 00	-4.20176E-02
33.40	2.53693E-03	-3.26213E 00	-2.32652E-01	2.32537E 01	-2.28717E-01	3.36100E 00	-4.20190E-02
33.50	2.55212E-03	-3.28161E 00	-2.34581E-01	2.32545E 01	-2.30618E-01	3.38076E 00	-4.20203E-02
33.60	2.56737E-03	-3.30114E 00	-2.36521E-01	2.32554E 01	-2.32530E-01	3.40058E 00	-4.20217E-02
33.70	2.58265E-03	-3.32073E 00	-2.38471E-01	2.32562E 01	-2.34452E-01	3.42046E 00	-4.20230E-02
33.80	2.59798E-03	-3.34037E 00	-2.40431E-01	2.32571E 01	-2.36384E-01	3.44039E 00	-4.20244E-02
33.90	2.61336E-03	-3.36007E 00	-2.42402E-01	2.32579E 01	-2.38327E-01	3.46038E 00	-4.20257E-02
34.00	2.62878E-03	-3.37982E 00	-2.44384E-01	2.32587E 01	-2.40280E-01	3.48042E 00	-4.20270E-02
34.10	2.64425E-03	-3.39964E 00	-2.46376E-01	2.32595E 01	-2.42244E-01	3.50052E 00	-4.20284E-02
34.20	2.65977E-03	-3.41950E 00	-2.48379E-01	2.32604E 01	-2.44218E-01	3.52068E 00	-4.20297E-02
34.30	2.67532E-03	-3.43943E 00	-2.50392E-01	2.32612E 01	-2.46203E-01	3.54089E 00	-4.20310E-02
34.40	2.69093E-03	-3.45941E 00	-2.52416E-01	2.32620E 01	-2.48198E-01	3.56116E 00	-4.20323E-02
34.50	2.70658E-03	-3.47944E 00	-2.54451E-01	2.32628E 01	-2.50204E-01	3.58148E 00	-4.20336E-02
34.60	2.72227E-03	-3.49953E 00	-2.56497E-01	2.32636E 01	-2.52221E-01	3.60186E 00	-4.20349E-02
34.70	2.73801E-03	-3.51968E 00	-2.58553E-01	2.32644E 01	-2.54248E-01	3.62229E 00	-4.20361E-02
34.80	2.75380E-03	-3.53989E 00	-2.60620E-01	2.32652E 01	-2.56286E-01	3.64279E 00	-4.20374E-02
34.90	2.76963E-03	-3.56015E 00	-2.62698E-01	2.32659E 01	-2.58334E-01	3.66333E 00	-4.20387E-02
35.00	2.78550E-03	-3.58046E 00	-2.64787E-01	2.32667E 01	-2.60394E-01	3.68394E 00	-4.20399E-02
35.10	2.80143E-03	-3.60083E 00	-2.66886E-01	2.32675E 01	-2.62464E-01	3.70459E 00	-4.20412E-02
35.20	2.81739E-03	-3.62126E 00	-2.68997E-01	2.32683E 01	-2.64545E-01	3.72531E 00	-4.20424E-02
35.30	2.83340E-03	-3.64174E 00	-2.71118E-01	2.32690E 01	-2.66637E-01	3.74608E 00	-4.20437E-02
35.40	2.84946E-03	-3.66228E 00	-2.73250E-01	2.32698E 01	-2.68739E-01	3.76690E 00	-4.20449E-02
35.50	2.86556E-03	-3.68287E 00	-2.75394E-01	2.32705E 01	-2.70853E-01	3.78778E 00	-4.20461E-02
35.60	2.88171E-03	-3.70352E 00	-2.77548E-01	2.32713E 01	-2.72977E-01	3.80872E 00	-4.20473E-02
35.70	2.89791E-03	-3.72423E 00	-2.79713E-01	2.32720E 01	-2.75113E-01	3.82971E 00	-4.20485E-02
35.80	2.91414E-03	-3.74499E 00	-2.81890E-01	2.32728E 01	-2.77259E-01	3.85076E 00	-4.20497E-02
35.90	2.93043E-03	-3.76580E 00	-2.84077E-01	2.32735E 01	-2.79416E-01	3.87186E 00	-4.20509E-02
36.00	2.94676E-03	-3.78668E 00	-2.86275E-01	2.32742E 01	-2.81584E-01	3.89302E 00	-4.20521E-02



ELECTRON RADIAL FUNCTIONS

Electron	$Z=9$		$A=18$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
36.10	1.23620E 00	-3.82835E 01	-4.90948E 00	6.98172E-03	-4.83001E 00	3.93449E 01	-1.14109E 02	
36.20	1.23619E 00	-3.83857E 01	-4.93331E 00	6.98050E-03	-4.85356E 00	3.94471E 01	-1.14192E 02	
36.30	1.23617E 00	-3.84880E 01	-4.95721E 00	6.97927E-03	-4.87716E 00	3.95491E 01	-1.14275E 02	
36.40	1.23616E 00	-3.85902E 01	-4.98115E 00	6.97800E-03	-4.90081E 00	3.96512E 01	-1.14357E 02	
36.50	1.23614E 00	-3.86924E 01	-5.00515E 00	6.97672E-03	-4.92452E 00	3.97532E 01	-1.14440E 02	
36.60	1.23613E 00	-3.87945E 01	-5.02921E 00	6.97541E-03	-4.94828E 00	3.98551E 01	-1.14523E 02	
36.70	1.23611E 00	-3.88966E 01	-5.05332E 00	6.97408E-03	-4.97209E 00	3.99570E 01	-1.14606E 02	
36.80	1.23610E 00	-3.89987E 01	-5.07748E 00	6.97272E-03	-4.99596E 00	4.00589E 01	-1.14689E 02	
36.90	1.23608E 00	-3.91007E 01	-5.10169E 00	6.97134E-03	-5.01988E 00	4.01608E 01	-1.14772E 02	
37.00	1.23607E 00	-3.92027E 01	-5.12596E 00	6.96994E-03	-5.04385E 00	4.02626E 01	-1.14855E 02	
37.10	1.23605E 00	-3.93046E 01	-5.15028E 00	6.96851E-03	-5.06788E 00	4.03644E 01	-1.14939E 02	
37.20	1.23604E 00	-3.94066E 01	-5.17466E 00	6.96707E-03	-5.09196E 00	4.04661E 01	-1.15022E 02	
37.30	1.23602E 00	-3.95084E 01	-5.19909E 00	6.96560E-03	-5.11610E 00	4.05678E 01	-1.15105E 02	
37.40	1.23601E 00	-3.96103E 01	-5.22357E 00	6.96411E-03	-5.14029E 00	4.06695E 01	-1.15189E 02	
37.50	1.23599E 00	-3.97121E 01	-5.24810E 00	6.96259E-03	-5.16453E 00	4.07711E 01	-1.15273E 02	
37.60	1.23598E 00	-3.98138E 01	-5.27269E 00	6.96105E-03	-5.18882E 00	4.08727E 01	-1.15356E 02	
37.70	1.23597E 00	-3.99156E 01	-5.29734E 00	6.95950E-03	-5.21317E 00	4.09742E 01	-1.15440E 02	
37.80	1.23595E 00	-4.00172E 01	-5.32203E 00	6.95792E-03	-5.23757E 00	4.10757E 01	-1.15524E 02	
37.90	1.23593E 00	-4.01189E 01	-5.34678E 00	6.95632E-03	-5.26203E 00	4.11772E 01	-1.15608E 02	
38.00	1.23592E 00	-4.02205E 01	-5.37158E 00	6.95469E-03	-5.28654E 00	4.12786E 01	-1.15692E 02	
38.10	1.23591E 00	-4.03221E 01	-5.39644E 00	6.95304E-03	-5.31110E 00	4.13800E 01	-1.15776E 02	
38.20	1.23589E 00	-4.04236E 01	-5.42135E 00	6.95137E-03	-5.33572E 00	4.14814E 01	-1.15860E 02	
38.30	1.23588E 00	-4.05251E 01	-5.44631E 00	6.94969E-03	-5.36039E 00	4.15827E 01	-1.15945E 02	
38.40	1.23586E 00	-4.06266E 01	-5.47133E 00	6.94798E-03	-5.38511E 00	4.16840E 01	-1.16029E 02	
38.50	1.23585E 00	-4.07280E 01	-5.49640E 00	6.94624E-03	-5.40989E 00	4.17852E 01	-1.16114E 02	
38.60	1.23583E 00	-4.08294E 01	-5.52152E 00	6.94448E-03	-5.43472E 00	4.18864E 01	-1.16198E 02	
38.70	1.23582E 00	-4.09307E 01	-5.54669E 00	6.94271E-03	-5.45960E 00	4.19876E 01	-1.16283E 02	
38.80	1.23581E 00	-4.10320E 01	-5.57192E 00	6.94091E-03	-5.48454E 00	4.20887E 01	-1.16368E 02	
38.90	1.23579E 00	-4.11333E 01	-5.59721E 00	6.93909E-03	-5.50953E 00	4.21898E 01	-1.16453E 02	
39.00	1.23578E 00	-4.12345E 01	-5.62254E 00	6.93725E-03	-5.53457E 00	4.22909E 01	-1.16538E 02	
39.10	1.23576E 00	-4.13357E 01	-5.64793E 00	6.93539E-03	-5.55966E 00	4.23919E 01	-1.16623E 02	
39.20	1.23575E 00	-4.14369E 01	-5.67337E 00	6.93351E-03	-5.58481E 00	4.24928E 01	-1.16708E 02	
39.30	1.23574E 00	-4.15380E 01	-5.69886E 00	6.93161E-03	-5.61001E 00	4.25938E 01	-1.16794E 02	
39.40	1.23572E 00	-4.16391E 01	-5.72441E 00	6.92969E-03	-5.63527E 00	4.26947E 01	-1.16879E 02	
39.50	1.23571E 00	-4.17401E 01	-5.75001E 00	6.92774E-03	-5.66057E 00	4.27955E 01	-1.16965E 02	
39.60	1.23569E 00	-4.18411E 01	-5.77566E 00	6.92579E-03	-5.68593E 00	4.28963E 01	-1.17051E 02	
39.70	1.23568E 00	-4.19420E 01	-5.80137E 00	6.92380E-03	-5.71135E 00	4.29971E 01	-1.17136E 02	
39.80	1.23567E 00	-4.20430E 01	-5.82713E 00	6.92180E-03	-5.73681E 00	4.30979E 01	-1.17222E 02	
39.90	1.23565E 00	-4.21438E 01	-5.85294E 00	6.91977E-03	-5.76233E 00	4.31986E 01	-1.17308E 02	
40.00	1.23564E 00	-4.22447E 01	-5.87880E 00	6.91773E-03	-5.78791E 00	4.32992E 01	-1.17395E 02	
40.10	1.23563E 00	-4.23455E 01	-5.90472E 00	6.91566E-03	-5.81353E 00	4.33998E 01	-1.17481E 02	
40.20	1.23561E 00	-4.24463E 01	-5.93069E 00	6.91359E-03	-5.83921E 00	4.35004E 01	-1.17567E 02	
40.30	1.23560E 00	-4.25470E 01	-5.95671E 00	6.91148E-03	-5.86494E 00	4.36010E 01	-1.17654E 02	
40.40	1.23558E 00	-4.26477E 01	-5.98279E 00	6.90935E-03	-5.89072E 00	4.37015E 01	-1.17740E 02	
40.50	1.23557E 00	-4.27483E 01	-6.00892E 00	6.90721E-03	-5.91656E 00	4.38019E 01	-1.17827E 02	
40.60	1.23556E 00	-4.28489E 01	-6.03510E 00	6.90504E-03	-5.94245E 00	4.39024E 01	-1.17914E 02	
40.70	1.23554E 00	-4.29495E 01	-6.06133E 00	6.90286E-03	-5.96839E 00	4.40027E 01	-1.18001E 02	
40.80	1.23553E 00	-4.30500E 01	-6.08762E 00	6.90066E-03	-5.99438E 00	4.41031E 01	-1.18088E 02	
40.90	1.23552E 00	-4.31505E 01	-6.11395E 00	6.89844E-03	-6.02043E 00	4.42034E 01	-1.18176E 02	
41.00	1.23550E 00	-4.32509E 01	-6.14034E 00	6.89620E-03	-6.04653E 00	4.43036E 01	-1.18263E 02	
41.10	1.23549E 00	-4.33513E 01	-6.16679E 00	6.89394E-03	-6.07268E 00	4.44039E 01	-1.18351E 02	
41.20	1.23548E 00	-4.34517E 01	-6.19328E 00	6.89166E-03	-6.09888E 00	4.45040E 01	-1.18438E 02	
41.30	1.23546E 00	-4.35520E 01	-6.21983E 00	6.88936E-03	-6.12514E 00	4.46042E 01	-1.18526E 02	
41.40	1.23545E 00	-4.36523E 01	-6.24643E 00	6.88705E-03	-6.15145E 00	4.47043E 01	-1.18614E 02	
41.50	1.23544E 00	-4.37526E 01	-6.27309E 00	6.88471E-03	-6.17781E 00	4.48044E 01	-1.18702E 02	
41.60	1.23542E 00	-4.38528E 01	-6.29979E 00	6.88235E-03	-6.20423E 00	4.49044E 01	-1.18791E 02	
41.70	1.23541E 00	-4.39529E 01	-6.32655E 00	6.87998E-03	-6.23069E 00	4.50044E 01	-1.18879E 02	
41.80	1.23540E 00	-4.40531E 01	-6.35336E 00	6.87759E-03	-6.25721E 00	4.51043E 01	-1.18967E 02	
41.90	1.23539E 00	-4.41532E 01	-6.38022E 00	6.87517E-03	-6.28378E 00	4.52042E 01	-1.19056E 02	
42.00	1.23537E 00	-4.42532E 01	-6.40714E 00	6.87274E-03	-6.31041E 00	4.53041E 01	-1.19145E 02	

## ELECTRON RADIAL FUNCTIONS

$\rho$	Electron							
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
36.10	2.96313E-03	-3.80761E 00	-2.88485E-01	2.32750E 01	-2.83764E-01	3.91424E 00	-4.20533E-02	
36.20	2.97955E-03	-3.82859E 00	-2.90706E-01	2.32757E 01	-2.85954E-01	3.93551E 00	-4.20545E-02	
36.30	2.99602E-03	-3.84963E 00	-2.92938E-01	2.32764E 01	-2.88156E-01	3.95684E 00	-4.20557E-02	
36.40	3.01253E-03	-3.87072E 00	-2.95181E-01	2.32771E 01	-2.90368E-01	3.97822E 00	-4.20569E-02	
36.50	3.02908E-03	-3.89187E 00	-2.97436E-01	2.32778E 01	-2.92592E-01	3.99965E 00	-4.20580E-02	
36.60	3.04569E-03	-3.91308E 00	-2.99701E-01	2.32785E 01	-2.94827E-01	4.02114E 00	-4.20592E-02	
36.70	3.06233E-03	-3.93434E 00	-3.01978E-01	2.32792E 01	-2.97073E-01	4.04269E 00	-4.20603E-02	
36.80	3.07902E-03	-3.95566E 00	-3.04266E-01	2.32799E 01	-2.99330E-01	4.06430E 00	-4.20615E-02	
36.90	3.09576E-03	-3.97703E 00	-3.06566E-01	2.32806E 01	-3.01598E-01	4.08595E 00	-4.20626E-02	
37.00	3.11254E-03	-3.99846E 00	-3.08877E-01	2.32813E 01	-3.03878E-01	4.10767E 00	-4.20637E-02	
37.10	3.12937E-03	-4.01994E 00	-3.11199E-01	2.32820E 01	-3.06169E-01	4.12944E 00	-4.20649E-02	
37.20	3.14625E-03	-4.04148E 00	-3.13533E-01	2.32827E 01	-3.08472E-01	4.15126E 00	-4.20660E-02	
37.30	3.16316E-03	-4.06307E 00	-3.15878E-01	2.32834E 01	-3.10785E-01	4.17314E 00	-4.20671E-02	
37.40	3.18013E-03	-4.08472E 00	-3.18235E-01	2.32841E 01	-3.13111E-01	4.19507E 00	-4.20682E-02	
37.50	3.19714E-03	-4.10642E 00	-3.20603E-01	2.32847E 01	-3.15447E-01	4.21706E 00	-4.20693E-02	
37.60	3.21419E-03	-4.12818E 00	-3.22983E-01	2.32854E 01	-3.17795E-01	4.23911E 00	-4.20704E-02	
37.70	3.23129E-03	-4.15000E 00	-3.25374E-01	2.32861E 01	-3.20154E-01	4.26121E 00	-4.20715E-02	
37.80	3.24844E-03	-4.17187E 00	-3.27777E-01	2.32867E 01	-3.22525E-01	4.28337E 00	-4.20726E-02	
37.90	3.26563E-03	-4.19379E 00	-3.30191E-01	2.32874E 01	-3.24908E-01	4.30558E 00	-4.20737E-02	
38.00	3.28286E-03	-4.21577E 00	-3.32617E-01	2.32880E 01	-3.27302E-01	4.32784E 00	-4.20748E-02	
38.10	3.30014E-03	-4.23781E 00	-3.35055E-01	2.32887E 01	-3.29707E-01	4.35016E 00	-4.20759E-02	
38.20	3.31747E-03	-4.25990E 00	-3.37505E-01	2.32893E 01	-3.32124E-01	4.37254E 00	-4.20769E-02	
38.30	3.33484E-03	-4.28204E 00	-3.39966E-01	2.32900E 01	-3.34553E-01	4.39497E 00	-4.20780E-02	
38.40	3.35226E-03	-4.30425E 00	-3.42438E-01	2.32906E 01	-3.36993E-01	4.41746E 00	-4.20790E-02	
38.50	3.36972E-03	-4.32650E 00	-3.44923E-01	2.32913E 01	-3.39445E-01	4.44000E 00	-4.20801E-02	
38.60	3.38723E-03	-4.34881E 00	-3.47419E-01	2.32919E 01	-3.41909E-01	4.46259E 00	-4.20811E-02	
38.70	3.40478E-03	-4.37118E 00	-3.49928E-01	2.32925E 01	-3.44384E-01	4.48524E 00	-4.20822E-02	
38.80	3.42238E-03	-4.39360E 00	-3.52448E-01	2.32931E 01	-3.46871E-01	4.50795E 00	-4.20832E-02	
38.90	3.44002E-03	-4.41607E 00	-3.54979E-01	2.32938E 01	-3.49370E-01	4.53071E 00	-4.20843E-02	
39.00	3.45771E-03	-4.43861E 00	-3.57523E-01	2.32944E 01	-3.51881E-01	4.55353E 00	-4.20853E-02	
39.10	3.47545E-03	-4.46119E 00	-3.60079E-01	2.32950E 01	-3.54404E-01	4.57640E 00	-4.20863E-02	
39.20	3.49323E-03	-4.48383E 00	-3.62646E-01	2.32956E 01	-3.56938E-01	4.59932E 00	-4.20873E-02	
39.30	3.51105E-03	-4.50653E 00	-3.65226E-01	2.32962E 01	-3.59484E-01	4.62230E 00	-4.20884E-02	
39.40	3.52892E-03	-4.52928E 00	-3.67818E-01	2.32968E 01	-3.62042E-01	4.64534E 00	-4.20894E-02	
39.50	3.54684E-03	-4.55208E 00	-3.70421E-01	2.32974E 01	-3.64613E-01	4.66843E 00	-4.20904E-02	
39.60	3.56480E-03	-4.57494E 00	-3.73037E-01	2.32980E 01	-3.67195E-01	4.69157E 00	-4.20914E-02	
39.70	3.58280E-03	-4.59786E 00	-3.75665E-01	2.32986E 01	-3.69789E-01	4.71477E 00	-4.20924E-02	
39.80	3.60086E-03	-4.62083E 00	-3.78304E-01	2.32992E 01	-3.72395E-01	4.73803E 00	-4.20934E-02	
39.90	3.61895E-03	-4.64385E 00	-3.80956E-01	2.32998E 01	-3.75013E-01	4.76134E 00	-4.20944E-02	
40.00	3.63709E-03	-4.66693E 00	-3.83620E-01	2.33004E 01	-3.77643E-01	4.78470E 00	-4.20953E-02	
40.10	3.65528E-03	-4.69007E 00	-3.86297E-01	2.33010E 01	-3.80285E-01	4.80812E 00	-4.20963E-02	
40.20	3.67351E-03	-4.71326E 00	-3.88985E-01	2.33015E 01	-3.82939E-01	4.83159E 00	-4.20973E-02	
40.30	3.69179E-03	-4.73650E 00	-3.91686E-01	2.33021E 01	-3.85606E-01	4.85512E 00	-4.20983E-02	
40.40	3.71012E-03	-4.75980E 00	-3.94399E-01	2.33027E 01	-3.88284E-01	4.87870E 00	-4.20992E-02	
40.50	3.72848E-03	-4.78315E 00	-3.97124E-01	2.33033E 01	-3.90975E-01	4.90234E 00	-4.21002E-02	
40.60	3.74690E-03	-4.80656E 00	-3.99862E-01	2.33038E 01	-3.93678E-01	4.92603E 00	-4.21011E-02	
40.70	3.76536E-03	-4.83002E 00	-4.02612E-01	2.33044E 01	-3.96393E-01	4.94978E 00	-4.21021E-02	
40.80	3.78386E-03	-4.85354E 00	-4.05374E-01	2.33050E 01	-3.99121E-01	4.97358E 00	-4.21030E-02	
40.90	3.80241E-03	-4.87711E 00	-4.08148E-01	2.33055E 01	-4.01861E-01	4.99743E 00	-4.21040E-02	
41.00	3.82101E-03	-4.90073E 00	-4.10935E-01	2.33061E 01	-4.04613E-01	5.02134E 00	-4.21049E-02	
41.10	3.83965E-03	-4.92441E 00	-4.13735E-01	2.33066E 01	-4.07377E-01	5.04530E 00	-4.21059E-02	
41.20	3.85833E-03	-4.94815E 00	-4.16547E-01	2.33072E 01	-4.10154E-01	5.06932E 00	-4.21068E-02	
41.30	3.87706E-03	-4.97194E 00	-4.19371E-01	2.33077E 01	-4.12943E-01	5.09339E 00	-4.21077E-02	
41.40	3.89584E-03	-4.99578E 00	-4.22208E-01	2.33083E 01	-4.15745E-01	5.11752E 00	-4.21086E-02	
41.50	3.91466E-03	-5.01968E 00	-4.25057E-01	2.33088E 01	-4.18559E-01	5.14170E 00	-4.21096E-02	
41.60	3.93353E-03	-5.04363E 00	-4.27920E-01	2.33093E 01	-4.21386E-01	5.16594E 00	-4.21105E-02	
41.70	3.95244E-03	-5.06764E 00	-4.30794E-01	2.33099E 01	-4.24225E-01	5.19023E 00	-4.21114E-02	
41.80	3.97140E-03	-5.09170E 00	-4.33681E-01	2.33104E 01	-4.27076E-01	5.21457E 00	-4.21123E-02	
41.90	3.99040E-03	-5.11581E 00	-4.36581E-01	2.33109E 01	-4.29940E-01	5.23897E 00	-4.21132E-02	
42.00	4.00945E-03	-5.13998E 00	-4.39494E-01	2.33115E 01	-4.32817E-01	5.26342E 00	-4.21141E-02	



## ELECTRON RADIAL FUNCTIONS

Electron	$Z = 10$		$A = 20$		$\rho = 1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
0.10	4.86640E 00	-1.92118E-02	-6.69524E-04	-3.40276E-01	-9.08420E-03	3.10857E-01	-3.20527E 00	00
0.20	2.69996E 00	-4.87091E-02	-1.69953E-03	-1.53485E-01	-1.35030E-02	4.61408E-01	-4.99575E 00	00
0.30	2.08466E 00	-9.14753E-02	-3.19795E-03	-8.97980E-02	-1.77362E-02	6.04648E-01	-7.08942E 00	00
0.40	1.81102E 00	-1.46223E-01	-5.12550E-03	-7.21433E-02	-2.19449E-02	7.45763E-01	-9.18645E 00	00
0.50	1.66099E 00	-2.11425E-01	-7.43544E-03	-5.62443E-02	-2.61392E-02	8.84830E-01	-1.12397E 01	01
0.60	1.56830E 00	-2.85499E-01	-1.00792E-02	-4.56368E-02	-3.03188E-02	1.02162E 00	-1.32337E 01	01
0.70	1.50645E 00	-3.66941E-01	-1.30108E-02	-3.80324E-02	-3.44853E-02	1.15604E 00	-1.51625E 01	01
0.80	1.46290E 00	-4.54402E-01	-1.61887E-02	-3.23007E-02	-3.86431E-02	1.28812E 00	-1.70238E 01	01
0.90	1.43099E 00	-5.46727E-01	-1.95776E-02	-2.78180E-02	-4.27984E-02	1.41801E 00	-1.88175E 01	01
1.00	1.40687E 00	-6.42952E-01	-2.31481E-02	-2.42114E-02	-4.69580E-02	1.54590E 00	-2.05447E 01	01
1.10	1.38818E 00	-7.42296E-01	-2.68761E-02	-2.12439E-02	-5.11289E-02	1.67198E 00	-2.22073E 01	01
1.20	1.37338E 00	-8.44129E-01	-3.07426E-02	-1.87575E-02	-5.53176E-02	1.79647E 00	-2.38074E 01	01
1.30	1.36146E 00	-9.47951E-01	-3.47323E-02	-1.66429E-02	-5.95303E-02	1.91956E 00	-2.53475E 01	01
1.40	1.35171E 00	-1.05336E 00	-3.88331E-02	-1.48215E-02	-6.37721E-02	2.04144E 00	-2.68302E 01	01
1.50	1.34363E 00	-1.16006E 00	-4.30355E-02	-1.32358E-02	-6.80477E-02	2.16225E 00	-2.82581E 01	01
1.60	1.33686E 00	-1.26777E 00	-4.73318E-02	-1.18425E-02	-7.23610E-02	2.28215E 00	-2.96338E 01	01
1.70	1.33112E 00	-1.37633E 00	-5.17163E-02	-1.06083E-02	-7.67156E-02	2.40123E 00	-3.09597E 01	01
1.80	1.32621E 00	-1.48555E 00	-5.61840E-02	-9.50719E-03	-8.11142E-02	2.51962E 00	-3.22383E 01	01
1.90	1.32197E 00	-1.59533E 00	-6.07312E-02	-8.51866E-03	-8.55594E-02	2.63739E 00	-3.34718E 01	01
2.00	1.31828E 00	-1.70555E 00	-6.53550E-02	-7.62620E-03	-9.00533E-02	2.75462E 00	-3.46625E 01	01
2.10	1.31506E 00	-1.81614E 00	-7.00528E-02	-6.81639E-03	-9.45976E-02	2.87138E 00	-3.58125E 01	01
2.20	1.31221E 00	-1.92703E 00	-7.48226E-02	-6.07819E-03	-9.91939E-02	2.98773E 00	-3.69236E 01	01
2.30	1.30969E 00	-2.03817E 00	-7.96630E-02	-5.40250E-03	-1.03844E-01	3.10370E 00	-3.79978E 01	01
2.40	1.30744E 00	-2.14951E 00	-8.45725E-02	-4.78165E-03	-1.08547E-01	3.21934E 00	-3.90368E 01	01
2.50	1.30543E 00	-2.26103E 00	-8.95501E-02	-4.20922E-03	-1.13307E-01	3.33468E 00	-4.00423E 01	01
2.60	1.30361E 00	-2.37268E 00	-9.45949E-02	-3.67975E-03	-1.18122E-01	3.44976E 00	-4.10159E 01	01
2.70	1.30197E 00	-2.48444E 00	-9.97062E-02	-3.18858E-03	-1.22995E-01	3.56460E 00	-4.19589E 01	01
2.80	1.30048E 00	-2.59630E 00	-1.04883E-01	-2.73168E-03	-1.27924E-01	3.67923E 00	-4.28729E 01	01
2.90	1.29912E 00	-2.70824E 00	-1.10126E-01	-2.30558E-03	-1.32912E-01	3.79367E 00	-4.37592E 01	01
3.00	1.29787E 00	-2.82024E 00	-1.15433E-01	-1.90727E-03	-1.37959E-01	3.90792E 00	-4.46189E 01	01
3.10	1.29673E 00	-2.93229E 00	-1.20805E-01	-1.53412E-03	-1.43064E-01	4.02202E 00	-4.54532E 01	01
3.20	1.29568E 00	-3.04438E 00	-1.26241E-01	-1.18382E-03	-1.48228E-01	4.13596E 00	-4.62633E 01	01
3.30	1.29470E 00	-3.15650E 00	-1.31741E-01	-8.54324E-04	-1.53452E-01	4.24977E 00	-4.70501E 01	01
3.40	1.29380E 00	-3.26865E 00	-1.37305E-01	-5.43850E-04	-1.58736E-01	4.36345E 00	-4.78147E 01	01
3.50	1.29296E 00	-3.38081E 00	-1.42933E-01	-2.50772E-04	-1.64080E-01	4.47702E 00	-4.85580E 01	01
3.60	1.29218E 00	-3.49299E 00	-1.48624E-01	2.62915E-05	-1.69484E-01	4.59048E 00	-4.92809E 01	01
3.70	1.29145E 00	-3.60518E 00	-1.54378E-01	2.88660E-04	-1.74948E-01	4.70384E 00	-4.99842E 01	01
3.80	1.29077E 00	-3.71737E 00	-1.60195E-01	5.37435E-04	-1.80473E-01	4.81710E 00	-5.06687E 01	01
3.90	1.29013E 00	-3.82956E 00	-1.66075E-01	7.73650E-04	-1.86059E-01	4.93027E 00	-5.13352E 01	01
4.00	1.28952E 00	-3.94175E 00	-1.72019E-01	9.98244E-04	-1.91706E-01	5.04337E 00	-5.19844E 01	01
4.10	1.28896E 00	-4.05394E 00	-1.78025E-01	1.21204E-03	-1.97414E-01	5.15638E 00	-5.26168E 01	01
4.20	1.28842E 00	-4.16611E 00	-1.84093E-01	1.41579E-03	-2.03182E-01	5.26932E 00	-5.32333E 01	01
4.30	1.28791E 00	-4.27829E 00	-1.90225E-01	1.61020E-03	-2.09012E-01	5.38220E 00	-5.38344E 01	01
4.40	1.28743E 00	-4.39044E 00	-1.96419E-01	1.79589E-03	-2.14903E-01	5.49500E 00	-5.44206E 01	01
4.50	1.28698E 00	-4.50259E 00	-2.02676E-01	1.97342E-03	-2.20856E-01	5.60774E 00	-5.49925E 01	01
4.60	1.28655E 00	-4.61473E 00	-2.08995E-01	2.14332E-03	-2.26870E-01	5.72042E 00	-5.55508E 01	01
4.70	1.28613E 00	-4.72685E 00	-2.15377E-01	2.30607E-03	-2.32945E-01	5.83305E 00	-5.60957E 01	01
4.80	1.28574E 00	-4.83895E 00	-2.21821E-01	2.46211E-03	-2.39082E-01	5.94562E 00	-5.66279E 01	01
4.90	1.28537E 00	-4.95104E 00	-2.28328E-01	2.61185E-03	-2.45280E-01	6.05814E 00	-5.71477E 01	01
5.00	1.28501E 00	-5.06311E 00	-2.34897E-01	2.75565E-03	-2.51540E-01	6.17060E 00	-5.76556E 01	01
5.10	1.28467E 00	-5.17516E 00	-2.41528E-01	2.89385E-03	-2.57862E-01	6.28302E 00	-5.81522E 01	01
5.20	1.28434E 00	-5.28720E 00	-2.48221E-01	3.02678E-03	-2.64245E-01	6.39539E 00	-5.86376E 01	01
5.30	1.28402E 00	-5.39921E 00	-2.54977E-01	3.15473E-03	-2.70690E-01	6.50771E 00	-5.91122E 01	01
5.40	1.28372E 00	-5.51121E 00	-2.61796E-01	3.27798E-03	-2.77196E-01	6.61999E 00	-5.95765E 01	01
5.50	1.28343E 00	-5.62319E 00	-2.68676E-01	3.39676E-03	-2.83765E-01	6.73223E 00	-6.00309E 01	01
5.60	1.28315E 00	-5.73514E 00	-2.75618E-01	3.51133E-03	-2.90394E-01	6.84442E 00	-6.04756E 01	01
5.70	1.28288E 00	-5.84708E 00	-2.82623E-01	3.62189E-03	-2.97086E-01	6.95658E 00	-6.09109E 01	01
5.80	1.28262E 00	-5.95900E 00	-2.89690E-01	3.72866E-03	-3.03840E-01	7.06869E 00	-6.13371E 01	01
5.90	1.28237E 00	-6.07089E 00	-2.96819E-01	3.83181E-03	-3.10655E-01	7.18077E 00	-6.17546E 01	01
6.00	1.28213E 00	-6.18277E 00	-3.04011E-01	3.93154E-03	-3.17532E-01	7.29281E 00	-6.21636E 01	01

## ELECTRON RADIAL FUNCTIONS

	$Z = 10$	$A = 20$	$\rho = 1.2 A^{1/3} F$	Electron			
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	1.44849E-07	-5.69172E-06	-1.14217E-07	1.22839E 00	-1.79345E-06	1.07441E-04	-3.46333E-01
0.20	2.38080E-07	-2.76228E-05	-5.55006E-07	2.82175E 00	-4.58873E-06	2.74487E-04	-1.61513E-01
0.30	3.87010E-07	-7.71748E-05	-1.55378E-06	4.27361E 00	-8.74647E-06	5.21916E-04	-1.09262E-01
0.40	5.83538E-07	-1.64039E-04	-3.31177E-06	5.62966E 00	-1.42595E-05	8.48066E-04	-8.50359E-02
0.50	8.27035E-07	-2.96147E-04	-5.99941E-06	6.88684E 00	-2.11180E-05	1.25082E-03	-7.14737E-02
0.60	1.11784E-06	-4.79636E-04	-9.75554E-06	8.04069E 00	-2.93136E-05	1.72792E-03	-6.30791E-02
0.70	1.45645E-06	-7.19027E-04	-1.46908E-05	9.09058E 00	-3.88414E-05	2.27721E-03	-5.75501E-02
0.80	1.84331E-06	-1.01751E-03	-2.08922E-05	1.00396E 01	-4.97022E-05	2.89676E-03	-5.37526E-02
0.90	2.27881E-06	-1.37724E-03	-2.84290E-05	1.08937E 01	-6.19018E-05	3.58495E-03	-5.10651E-02
1.00	2.76327E-06	-1.79964E-03	-3.73573E-05	1.16603E 01	-7.54519E-05	4.34046E-03	-4.91204E-02
1.10	3.29693E-06	-2.28558E-03	-4.77242E-05	1.23476E 01	-9.03683E-05	5.16225E-03	-4.76893E-02
1.20	3.87998E-06	-2.83561E-03	-5.95702E-05	1.29638E 01	-1.06671E-04	6.04951E-03	-4.66228E-02
1.30	4.51257E-06	-3.45000E-03	-7.29319E-05	1.35167E 01	-1.24382E-04	7.00162E-03	-4.58204E-02
1.40	5.19483E-06	-4.12888E-03	-8.78435E-05	1.40136E 01	-1.43528E-04	8.01812E-03	-4.52129E-02
1.50	5.92682E-06	-4.87228E-03	-1.04337E-04	1.44611E 01	-1.64134E-04	9.09864E-03	-4.47512E-02
1.60	6.70864E-06	-5.68019E-03	-1.22444E-04	1.48650E 01	-1.86230E-04	1.02429E-02	-4.43999E-02
1.70	7.54033E-06	-6.55254E-03	-1.42194E-04	1.52304E 01	-2.09843E-04	1.14508E-02	-4.41332E-02
1.80	8.42195E-06	-7.48926E-03	-1.63620E-04	1.55619E 01	-2.35005E-04	1.27220E-02	-4.39320E-02
1.90	9.35349E-06	-8.49024E-03	-1.86750E-04	1.58634E 01	-2.61745E-04	1.40566E-02	-4.37817E-02
2.00	1.03350E-05	-9.55541E-03	-2.11615E-04	1.61384E 01	-2.90095E-04	1.54544E-02	-4.36713E-02
2.10	1.13666E-05	-1.06847E-02	-2.38245E-04	1.63898E 01	-3.20085E-04	1.69153E-02	-4.35925E-02
2.20	1.24481E-05	-1.18780E-02	-2.66671E-04	1.66204E 01	-3.51747E-04	1.84393E-02	-4.35387E-02
2.30	1.35796E-05	-1.31352E-02	-2.96924E-04	1.68323E 01	-3.85113E-04	2.00265E-02	-4.35048E-02
2.40	1.47612E-05	-1.44562E-02	-3.29033E-04	1.70275E 01	-4.20213E-04	2.16766E-02	-4.34867E-02
2.50	1.59928E-05	-1.58411E-02	-3.63031E-04	1.72079E 01	-4.57080E-04	2.33898E-02	-4.34813E-02
2.60	1.72745E-05	-1.72897E-02	-3.98946E-04	1.73748E 01	-4.95746E-04	2.51659E-02	-4.34860E-02
2.70	1.86062E-05	-1.88019E-02	-4.36811E-04	1.75297E 01	-5.36243E-04	2.70051E-02	-4.34988E-02
2.80	1.99880E-05	-2.03778E-02	-4.76657E-04	1.76737E 01	-5.78601E-04	2.89072E-02	-4.35180E-02
2.90	2.14198E-05	-2.20172E-02	-5.18513E-04	1.78079E 01	-6.22854E-04	3.08723E-02	-4.35425E-02
3.00	2.29016E-05	-2.37202E-02	-5.62413E-04	1.79331E 01	-6.69032E-04	3.29004E-02	-4.35709E-02
3.10	2.44335E-05	-2.54866E-02	-6.08386E-04	1.80502E 01	-7.17168E-04	3.49914E-02	-4.36026E-02
3.20	2.60155E-05	-2.73165E-02	-6.56464E-04	1.81599E 01	-7.67294E-04	3.71453E-02	-4.36367E-02
3.30	2.76475E-05	-2.92098E-02	-7.06678E-04	1.82629E 01	-8.19442E-04	3.93622E-02	-4.36727E-02
3.40	2.93295E-05	-3.11664E-02	-7.59060E-04	1.83597E 01	-8.73642E-04	4.16421E-02	-4.37102E-02
3.50	3.10616E-05	-3.31864E-02	-8.13641E-04	1.84508E 01	-9.29929E-04	4.39849E-02	-4.37486E-02
3.60	3.28437E-05	-3.52697E-02	-8.70453E-04	1.85367E 01	-9.88332E-04	4.63906E-02	-4.37878E-02
3.70	3.46759E-05	-3.74163E-02	-9.29526E-04	1.86178E 01	-1.04888E-03	4.88592E-02	-4.38274E-02
3.80	3.65581E-05	-3.96262E-02	-9.90892E-04	1.86945E 01	-1.11162E-03	5.13908E-02	-4.38672E-02
3.90	3.84904E-05	-4.18992E-02	-1.05458E-03	1.87671E 01	-1.17656E-03	5.39852E-02	-4.39071E-02
4.00	4.04727E-05	-4.42355E-02	-1.12063E-03	1.88360E 01	-1.24375E-03	5.66426E-02	-4.39468E-02
4.10	4.25050E-05	-4.66350E-02	-1.18906E-03	1.89013E 01	-1.31322E-03	5.93629E-02	-4.39864E-02
4.20	4.45873E-05	-4.90977E-02	-1.25992E-03	1.89634E 01	-1.38499E-03	6.21461E-02	-4.40256E-02
4.30	4.67198E-05	-5.16235E-02	-1.33322E-03	1.90225E 01	-1.45911E-03	6.49922E-02	-4.40644E-02
4.40	4.89022E-05	-5.42124E-02	-1.40901E-03	1.90787E 01	-1.53559E-03	6.79011E-02	-4.41027E-02
4.50	5.11346E-05	-5.68644E-02	-1.48731E-03	1.91323E 01	-1.61448E-03	7.08730E-02	-4.41405E-02
4.60	5.34170E-05	-5.95796E-02	-1.56816E-03	1.91835E 01	-1.69581E-03	7.39076E-02	-4.41778E-02
4.70	5.57495E-05	-6.23578E-02	-1.65158E-03	1.92324E 01	-1.77960E-03	7.70052E-02	-4.42145E-02
4.80	5.81320E-05	-6.51991E-02	-1.73761E-03	1.92791E 01	-1.86589E-03	8.01657E-02	-4.42506E-02
4.90	6.05645E-05	-6.81034E-02	-1.82628E-03	1.93239E 01	-1.95471E-03	8.33889E-02	-4.42861E-02
5.00	6.30471E-05	-7.10707E-02	-1.91763E-03	1.93667E 01	-2.04609E-03	8.66751E-02	-4.43209E-02
5.10	6.55796E-05	-7.41011E-02	-2.01167E-03	1.94078E 01	-2.14006E-03	9.00241E-02	-4.43551E-02
5.20	6.81622E-05	-7.71944E-02	-2.10846E-03	1.94471E 01	-2.23667E-03	9.34359E-02	-4.43886E-02
5.30	7.07947E-05	-8.03508E-02	-2.20800E-03	1.94850E 01	-2.33593E-03	9.69105E-02	-4.44216E-02
5.40	7.34773E-05	-8.35701E-02	-2.31035E-03	1.95213E 01	-2.43787E-03	1.00448E-01	-4.44538E-02
5.50	7.62098E-05	-8.68524E-02	-2.41553E-03	1.95562E 01	-2.54254E-03	1.04048E-01	-4.44855E-02
5.60	7.89924E-05	-9.01976E-02	-2.52356E-03	1.95898E 01	-2.64996E-03	1.07711E-01	-4.45165E-02
5.70	8.18250E-05	-9.36058E-02	-2.63449E-03	1.96222E 01	-2.76017E-03	1.11437E-01	-4.45469E-02
5.80	8.47075E-05	-9.70768E-02	-2.74834E-03	1.96534E 01	-2.87319E-03	1.15226E-01	-4.45767E-02
5.90	8.76401E-05	-1.00611E-01	-2.86515E-03	1.96834E 01	-2.98906E-03	1.19077E-01	-4.46059E-02
6.00	9.06226E-05	-1.04208E-01	-2.98495E-03	1.97124E 01	-3.10780E-03	1.22991E-01	-4.46345E-02



ELECTRON RADIAL FUNCTIONS

Electron	$Z = 10$		$A = 20$		$\rho = 1.2 A^{1/3} F$		
$\rho$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
6.10	1.28190E 00	-6.29462E 00	-3.11264E-01	4.02798E-03	-3.24471 E-01	7.40481 E 00	-6.25645 E 01
6.20	1.28167E 00	-6.40645E 00	-3.18580E-01	4.12134E-03	-3.31471 E-01	7.51678 E 00	-6.29573 E 01
6.30	1.28145E 00	-6.51826E 00	-3.25957E-01	4.21173E-03	-3.38534 E-01	7.62871 E 00	-6.33423 E 01
6.40	1.28124E 00	-6.63005E 00	-3.33397E-01	4.29929E-03	-3.45658 E-01	7.74061 E 00	-6.37200 E 01
6.50	1.28103E 00	-6.74181E 00	-3.40898E-01	4.38414E-03	-3.52844 E-01	7.85247 E 00	-6.40904 E 01
6.60	1.28083E 00	-6.85355E 00	-3.48462E-01	4.46642E-03	-3.60092 E-01	7.96430 E 00	-6.44537 E 01
6.70	1.28064E 00	-6.96527E 00	-3.56088E-01	4.54623E-03	-3.67401 E-01	8.07609 E 00	-6.48102 E 01
6.80	1.28045E 00	-7.07697E 00	-3.63775E-01	4.62368E-03	-3.74773 E-01	8.18785 E 00	-6.51601 E 01
6.90	1.28027E 00	-7.18865E 00	-3.71525E-01	4.69889E-03	-3.82206 E-01	8.29958 E 00	-6.55034 E 01
7.00	1.28009E 00	-7.30030E 00	-3.79337E-01	4.77192E-03	-3.89701 E-01	8.41128 E 00	-6.58406 E 01
7.10	1.27992E 00	-7.41192E 00	-3.87210E-01	4.84289E-03	-3.97257 E-01	8.52295 E 00	-6.61717 E 01
7.20	1.27975E 00	-7.52353E 00	-3.95145E-01	4.91187E-03	-4.04876 E-01	8.63459 E 00	-6.64969 E 01
7.30	1.27958E 00	-7.63511E 00	-4.03143E-01	4.97894E-03	-4.12556 E-01	8.74620 E 00	-6.68164 E 01
7.40	1.27942E 00	-7.74668E 00	-4.11202E-01	5.04419E-03	-4.20298 E-01	8.85777 E 00	-6.71302 E 01
7.50	1.27927E 00	-7.85821E 00	-4.19323E-01	5.10767E-03	-4.28102 E-01	8.96932 E 00	-6.74387 E 01
7.60	1.27911E 00	-7.96972E 00	-4.27506E-01	5.16946E-03	-4.35967 E-01	9.08083 E 00	-6.77419 E 01
7.70	1.27896E 00	-8.08121E 00	-4.35751E-01	5.22963E-03	-4.43895 E-01	9.19232 E 00	-6.80399 E 01
7.80	1.27882E 00	-8.19268E 00	-4.44058E-01	5.28823E-03	-4.51884 E-01	9.30378 E 00	-6.83330 E 01
7.90	1.27868E 00	-8.30412E 00	-4.52426E-01	5.34532E-03	-4.59935 E-01	9.41521 E 00	-6.86212 E 01
8.00	1.27854E 00	-8.41554E 00	-4.60856E-01	5.40097E-03	-4.68047 E-01	9.52661 E 00	-6.89046 E 01
8.10	1.27840E 00	-8.52694E 00	-4.69348E-01	5.45522E-03	-4.76221 E-01	9.63798 E 00	-6.91835 E 01
8.20	1.27827E 00	-8.63831E 00	-4.77902E-01	5.50811E-03	-4.84457 E-01	9.74933 E 00	-6.94579 E 01
8.30	1.27814E 00	-8.74966E 00	-4.86518E-01	5.55970E-03	-4.92755 E-01	9.86065 E 00	-6.97280 E 01
8.40	1.27801E 00	-8.86098E 00	-4.95195E-01	5.61005E-03	-5.01114 E-01	9.97193 E 00	-6.99938 E 01
8.50	1.27788E 00	-8.97228E 00	-5.03934E-01	5.65919E-03	-5.09535 E-01	1.00832 E 01	-7.02554 E 01
8.60	1.27776E 00	-9.08357E 00	-5.12735E-01	5.70715E-03	-5.18018 E-01	1.01944 E 01	-7.05130 E 01
8.70	1.27764E 00	-9.19482E 00	-5.21597E-01	5.75399E-03	-5.26562 E-01	1.03056 E 01	-7.07666 E 01
8.80	1.27752E 00	-9.30605E 00	-5.30521E-01	5.79973E-03	-5.35168 E-01	1.04168 E 01	-7.10164 E 01
8.90	1.27741E 00	-9.41726E 00	-5.39507E-01	5.84442E-03	-5.43835 E-01	1.05280 E 01	-7.12625 E 01
9.00	1.27729E 00	-9.52844E 00	-5.48555E-01	5.88808E-03	-5.52565 E-01	1.06391 E 01	-7.15049 E 01
9.10	1.27718E 00	-9.63960E 00	-5.57664E-01	5.93076E-03	-5.61355 E-01	1.07502 E 01	-7.17437 E 01
9.20	1.27707E 00	-9.75074E 00	-5.66834E-01	5.97247E-03	-5.70208 E-01	1.08613 E 01	-7.19791 E 01
9.30	1.27697E 00	-9.86184E 00	-5.76067E-01	6.01327E-03	-5.79122 E-01	1.09723 E 01	-7.22111 E 01
9.40	1.27686E 00	-9.97293E 00	-5.85360E-01	6.05316E-03	-5.88097 E-01	1.10833 E 01	-7.24397 E 01
9.50	1.27676E 00	-1.00840E 01	-5.94716E-01	6.09218E-03	-5.97134 E-01	1.11943 E 01	-7.26652 E 01
9.60	1.27665E 00	-1.01950E 01	-6.04133E-01	6.13036E-03	-6.06233 E-01	1.13053 E 01	-7.28875 E 01
9.70	1.27655E 00	-1.03060E 01	-6.13611E-01	6.16772E-03	-6.15393 E-01	1.14162 E 01	-7.31067 E 01
9.80	1.27645E 00	-1.04170E 01	-6.23151E-01	6.20430E-03	-6.24614 E-01	1.15271 E 01	-7.33228 E 01
9.90	1.27636E 00	-1.05280E 01	-6.32753E-01	6.24008E-03	-6.33897 E-01	1.16380 E 01	-7.35361 E 01
10.00	1.27626E 00	-1.06389E 01	-6.42416E-01	6.27514E-03	-6.43242 E-01	1.17488 E 01	-7.37465 E 01
10.10	1.27617E 00	-1.07499E 01	-6.52140E-01	6.30945E-03	-6.52648 E-01	1.18597 E 01	-7.39542 E 01
10.20	1.27607E 00	-1.08608E 01	-6.61926E-01	6.34307E-03	-6.62115 E-01	1.19705 E 01	-7.41590 E 01
10.30	1.27598E 00	-1.09716E 01	-6.71773E-01	6.37600E-03	-6.71644 E-01	1.20813 E 01	-7.43611 E 01
10.40	1.27589E 00	-1.10825E 01	-6.81682E-01	6.40827E-03	-6.81234 E-01	1.21920 E 01	-7.45606 E 01
10.50	1.27580E 00	-1.11933E 01	-6.91653E-01	6.43990E-03	-6.90886 E-01	1.23027 E 01	-7.47576 E 01
10.60	1.27572E 00	-1.13041E 01	-7.01684E-01	6.47088E-03	-7.00599 E-01	1.24134 E 01	-7.49521 E 01
10.70	1.27563E 00	-1.14149E 01	-7.11777E-01	6.50125E-03	-7.10374 E-01	1.25241 E 01	-7.51442 E 01
10.80	1.27555E 00	-1.15256E 01	-7.21931E-01	6.53105E-03	-7.20209 E-01	1.26347 E 01	-7.53337 E 01
10.90	1.27546E 00	-1.16363E 01	-7.32147E-01	6.56024E-03	-7.30107 E-01	1.27454 E 01	-7.55211 E 01
11.00	1.27538E 00	-1.17470E 01	-7.42424E-01	6.58888E-03	-7.40065 E-01	1.28560 E 01	-7.57061 E 01
11.10	1.27530E 00	-1.18577E 01	-7.52762E-01	6.61696E-03	-7.50085 E-01	1.29665 E 01	-7.58888 E 01
11.20	1.27522E 00	-1.19683E 01	-7.63162E-01	6.64453E-03	-7.60166 E-01	1.30771 E 01	-7.60693 E 01
11.30	1.27514E 00	-1.20790E 01	-7.73623E-01	6.67154E-03	-7.70309 E-01	1.31876 E 01	-7.62479 E 01
11.40	1.27506E 00	-1.21895E 01	-7.84145E-01	6.69807E-03	-7.80512 E-01	1.32981 E 01	-7.64242 E 01
11.50	1.27498E 00	-1.23001E 01	-7.94728E-01	6.72410E-03	-7.90777 E-01	1.34085 E 01	-7.65984 E 01
11.60	1.27491E 00	-1.24107E 01	-8.05373E-01	6.74963E-03	-8.01103 E-01	1.35190 E 01	-7.67707 E 01
11.70	1.27483E 00	-1.25212E 01	-8.16078E-01	6.77471E-03	-8.11491 E-01	1.36294 E 01	-7.69410 E 01
11.80	1.27476E 00	-1.26317E 01	-8.26846E-01	6.79931E-03	-8.21940 E-01	1.37398 E 01	-7.71094 E 01
11.90	1.27468E 00	-1.27422E 01	-8.37674E-01	6.82348E-03	-8.32449 E-01	1.38501 E 01	-7.72758 E 01
12.00	1.27461E 00	-1.28526E 01	-8.48563E-01	6.84720E-03	-8.43020 E-01	1.39604 E 01	-7.74404 E 01

## ELECTRON RADIAL FUNCTIONS

 $Z = 10$        $A = 20$        $\rho = 1.2 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	9.36551E-05	-1.07867E-01	-3.10777E-03	1.97404E 01	-3.22946E-03	1.26968E-01	-4.46625E-02
6.20	9.67376E-05	-1.11590E-01	-3.23363E-03	1.97674E 01	-3.35406E-03	1.31008E-01	-4.46900E-02
6.30	9.98701E-05	-1.15376E-01	-3.36258E-03	1.97935E 01	-3.48163E-03	1.35110E-01	-4.47169E-02
6.40	1.03053E-04	-1.19224E-01	-3.49464E-03	1.98188E 01	-3.61221E-03	1.39276E-01	-4.47432E-02
6.50	1.06285E-04	-1.23135E-01	-3.62985E-03	1.98432E 01	-3.74583E-03	1.43503E-01	-4.47690E-02
6.60	1.09567E-04	-1.27109E-01	-3.76823E-03	1.98668E 01	-3.88251E-03	1.47794E-01	-4.47943E-02
6.70	1.12900E-04	-1.31146E-01	-3.90982E-03	1.98897E 01	-4.02230E-03	1.52147E-01	-4.48191E-02
6.80	1.16282E-04	-1.35245E-01	-4.05465E-03	1.99119E 01	-4.16522E-03	1.56563E-01	-4.48434E-02
6.90	1.19715E-04	-1.39408E-01	-4.20276E-03	1.99334E 01	-4.31130E-03	1.61042E-01	-4.48672E-02
7.00	1.23197E-04	-1.43633E-01	-4.35416E-03	1.99542E 01	-4.46058E-03	1.65583E-01	-4.48906E-02
7.10	1.26729E-04	-1.47921E-01	-4.50890E-03	1.99744E 01	-4.61308E-03	1.70187E-01	-4.49134E-02
7.20	1.30312E-04	-1.52271E-01	-4.66701E-03	1.99940E 01	-4.76884E-03	1.74854E-01	-4.49359E-02
7.30	1.33944E-04	-1.56685E-01	-4.82851E-03	2.00131E 01	-4.92789E-03	1.79583E-01	-4.49579E-02
7.40	1.37626E-04	-1.61161E-01	-4.99344E-03	2.00316E 01	-5.09026E-03	1.84375E-01	-4.49794E-02
7.50	1.41358E-04	-1.65700E-01	-5.16184E-03	2.00495E 01	-5.25599E-03	1.89230E-01	-4.50006E-02
7.60	1.45140E-04	-1.70301E-01	-5.33372E-03	2.00670E 01	-5.42510E-03	1.94147E-01	-4.50213E-02
7.70	1.48972E-04	-1.74965E-01	-5.50913E-03	2.00840E 01	-5.59763E-03	1.99127E-01	-4.50416E-02
7.80	1.52854E-04	-1.79692E-01	-5.68809E-03	2.01005E 01	-5.77360E-03	2.04169E-01	-4.50616E-02
7.90	1.56786E-04	-1.84482E-01	-5.87064E-03	2.01166E 01	-5.95305E-03	2.09274E-01	-4.50812E-02
8.00	1.60768E-04	-1.89334E-01	-6.05681E-03	2.01322E 01	-6.13602E-03	2.14442E-01	-4.51004E-02
8.10	1.64800E-04	-1.94249E-01	-6.24662E-03	2.01475E 01	-6.32252E-03	2.19672E-01	-4.51192E-02
8.20	1.68882E-04	-1.99226E-01	-6.44012E-03	2.01623E 01	-6.51260E-03	2.24965E-01	-4.51377E-02
8.30	1.73014E-04	-2.04266E-01	-6.63733E-03	2.01768E 01	-6.70628E-03	2.30320E-01	-4.51559E-02
8.40	1.77196E-04	-2.09369E-01	-6.83828E-03	2.01909E 01	-6.90360E-03	2.35738E-01	-4.51737E-02
8.50	1.81427E-04	-2.14534E-01	-7.04301E-03	2.02047E 01	-7.10459E-03	2.41218E-01	-4.51912E-02
8.60	1.85709E-04	-2.19762E-01	-7.25155E-03	2.02181E 01	-7.30928E-03	2.46761E-01	-4.52084E-02
8.70	1.90041E-04	-2.25053E-01	-7.46392E-03	2.02312E 01	-7.51770E-03	2.52367E-01	-4.52253E-02
8.80	1.94422E-04	-2.30406E-01	-7.68016E-03	2.02440E 01	-7.72988E-03	2.58034E-01	-4.52419E-02
8.90	1.98854E-04	-2.35821E-01	-7.90030E-03	2.02564E 01	-7.94586E-03	2.63765E-01	-4.52582E-02
9.00	2.03335E-04	-2.41300E-01	-8.12438E-03	2.02686E 01	-8.16566E-03	2.69558E-01	-4.52742E-02
9.10	2.07866E-04	-2.46840E-01	-8.35242E-03	2.02805E 01	-8.38932E-03	2.75413E-01	-4.52899E-02
9.20	2.12448E-04	-2.52443E-01	-8.58445E-03	2.02921E 01	-8.61686E-03	2.81331E-01	-4.53053E-02
9.30	2.17079E-04	-2.58109E-01	-8.82051E-03	2.03035E 01	-8.84832E-03	2.87311E-01	-4.53205E-02
9.40	2.21760E-04	-2.63837E-01	-9.06063E-03	2.03146E 01	-9.08374E-03	2.93353E-01	-4.53354E-02
9.50	2.26491E-04	-2.69628E-01	-9.30484E-03	2.03254E 01	-9.32314E-03	2.99458E-01	-4.53501E-02
9.60	2.31272E-04	-2.75481E-01	-9.55317E-03	2.03360E 01	-9.56656E-03	3.05626E-01	-4.53645E-02
9.70	2.36103E-04	-2.81397E-01	-9.80564E-03	2.03464E 01	-9.81401E-03	3.11856E-01	-4.53787E-02
9.80	2.40984E-04	-2.87375E-01	-1.00623E-02	2.03566E 01	-1.00655E-02	3.18148E-01	-4.53927E-02
9.90	2.45915E-04	-2.93415E-01	-1.03232E-02	2.03665E 01	-1.03212E-02	3.24503E-01	-4.54064E-02
10.00	2.50895E-04	-2.99518E-01	-1.05883E-02	2.03762E 01	-1.05810E-02	3.30920E-01	-4.54199E-02
10.10	2.55926E-04	-3.05683E-01	-1.08577E-02	2.03857E 01	-1.08449E-02	3.37399E-01	-4.54332E-02
10.20	2.61007E-04	-3.11911E-01	-1.11314E-02	2.03951E 01	-1.11131E-02	3.43941E-01	-4.54462E-02
10.30	2.66137E-04	-3.18201E-01	-1.14095E-02	2.04042E 01	-1.13855E-02	3.50545E-01	-4.54591E-02
10.40	2.71318E-04	-3.24554E-01	-1.16919E-02	2.04132E 01	-1.16621E-02	3.57211E-01	-4.54717E-02
10.50	2.76548E-04	-3.30969E-01	-1.19787E-02	2.04219E 01	-1.19431E-02	3.63940E-01	-4.54842E-02
10.60	2.81828E-04	-3.37446E-01	-1.22700E-02	2.04305E 01	-1.22283E-02	3.70731E-01	-4.54964E-02
10.70	2.87158E-04	-3.43985E-01	-1.25657E-02	2.04390E 01	-1.25180E-02	3.77584E-01	-4.55085E-02
10.80	2.92538E-04	-3.50587E-01	-1.28659E-02	2.04472E 01	-1.28120E-02	3.84499E-01	-4.55204E-02
10.90	2.97968E-04	-3.57252E-01	-1.31707E-02	2.04553E 01	-1.31105E-02	3.91477E-01	-4.55321E-02
11.00	3.03448E-04	-3.63978E-01	-1.34800E-02	2.04633E 01	-1.34134E-02	3.98517E-01	-4.55436E-02
11.10	3.08978E-04	-3.70767E-01	-1.37939E-02	2.04711E 01	-1.37207E-02	4.05619E-01	-4.55549E-02
11.20	3.14558E-04	-3.77618E-01	-1.41124E-02	2.04787E 01	-1.40326E-02	4.12784E-01	-4.55661E-02
11.30	3.20187E-04	-3.84531E-01	-1.44356E-02	2.04862E 01	-1.43491E-02	4.20010E-01	-4.55771E-02
11.40	3.25867E-04	-3.91507E-01	-1.47634E-02	2.04936E 01	-1.46701E-02	4.27299E-01	-4.55879E-02
11.50	3.31596E-04	-3.98545E-01	-1.50960E-02	2.05008E 01	-1.49957E-02	4.34650E-01	-4.55986E-02
11.60	3.37375E-04	-4.05645E-01	-1.54333E-02	2.05079E 01	-1.53260E-02	4.42064E-01	-4.56091E-02
11.70	3.43205E-04	-4.12807E-01	-1.57754E-02	2.05149E 01	-1.56610E-02	4.49539E-01	-4.56195E-02
11.80	3.49084E-04	-4.20032E-01	-1.61223E-02	2.05217E 01	-1.60006E-02	4.57077E-01	-4.56297E-02
11.90	3.55013E-04	-4.27318E-01	-1.64741E-02	2.05285E 01	-1.63450E-02	4.64676E-01	-4.56398E-02
12.00	3.60992E-04	-4.34667E-01	-1.68307E-02	2.05351E 01	-1.66941E-02	4.72338E-01	-4.56497E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z = 10$		$A = 20$		$\rho = 1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	1.27454E 00	-1.29630E 01	-8.59514E-01	6.87050E-03	-8.53653E-01	1.40707E 01	-7.76032E 01	01
12.20	1.27447E 00	-1.30734E 01	-8.70525E-01	6.89338E-03	-8.64346E-01	1.41810E 01	-7.77643E 01	01
12.30	1.27440E 00	-1.31838E 01	-8.81598E-01	6.91585E-03	-8.75101E-01	1.42913E 01	-7.79236E 01	01
12.40	1.27433E 00	-1.32941E 01	-8.92732E-01	6.93793E-03	-8.85916E-01	1.44015E 01	-7.80812E 01	01
12.50	1.27426E 00	-1.34045E 01	-9.03927E-01	6.95961E-03	-8.96793E-01	1.45117E 01	-7.82372E 01	01
12.60	1.27419E 00	-1.35148E 01	-9.15183E-01	6.98093E-03	-9.07730E-01	1.46219E 01	-7.83914E 01	01
12.70	1.27413E 00	-1.36250E 01	-9.26500E-01	7.00186E-03	-9.18729E-01	1.47320E 01	-7.85441E 01	01
12.80	1.27406E 00	-1.37353E 01	-9.37878E-01	7.02244E-03	-9.29789E-01	1.48421E 01	-7.86952E 01	01
12.90	1.27399E 00	-1.38455E 01	-9.49316E-01	7.04265E-03	-9.40910E-01	1.49522E 01	-7.88448E 01	01
13.00	1.27393E 00	-1.39557E 01	-9.60816E-01	7.06252E-03	-9.52091E-01	1.50623E 01	-7.89929E 01	01
13.10	1.27387E 00	-1.40658E 01	-9.72377E-01	7.08205E-03	-9.63334E-01	1.51723E 01	-7.91395E 01	01
13.20	1.27380E 00	-1.41760E 01	-9.83999E-01	7.10126E-03	-9.74638E-01	1.52823E 01	-7.92846E 01	01
13.30	1.27374E 00	-1.42861E 01	-9.95682E-01	7.12013E-03	-9.86002E-01	1.53923E 01	-7.94283E 01	01
13.40	1.27368E 00	-1.43962E 01	-1.00743E 00	7.13869E-03	-9.97428E-01	1.55023E 01	-7.95706E 01	01
13.50	1.27361E 00	-1.45062E 01	-1.01923E 00	7.15694E-03	-1.00891E 00	1.56122E 01	-7.97116E 01	01
13.60	1.27355E 00	-1.46163E 01	-1.03110E 00	7.17488E-03	-1.02046E 00	1.57221E 01	-7.98512E 01	01
13.70	1.27349E 00	-1.47263E 01	-1.04302E 00	7.19252E-03	-1.03207E 00	1.58320E 01	-7.99895E 01	01
13.80	1.27343E 00	-1.48363E 01	-1.05501E 00	7.20989E-03	-1.04374E 00	1.59419E 01	-8.01264E 01	01
13.90	1.27338E 00	-1.49462E 01	-1.06706E 00	7.22694E-03	-1.05547E 00	1.60517E 01	-8.02622E 01	01
14.00	1.27332E 00	-1.50562E 01	-1.07917E 00	7.24374E-03	-1.06726E 00	1.61615E 01	-8.03967E 01	01
14.10	1.27326E 00	-1.51661E 01	-1.09134E 00	7.26025E-03	-1.07911E 00	1.62713E 01	-8.05299E 01	01
14.20	1.27320E 00	-1.52759E 01	-1.10357E 00	7.27650E-03	-1.09102E 00	1.63810E 01	-8.06620E 01	01
14.30	1.27314E 00	-1.53858E 01	-1.11586E 00	7.29248E-03	-1.10300E 00	1.64907E 01	-8.07929E 01	01
14.40	1.27309E 00	-1.54956E 01	-1.12821E 00	7.30820E-03	-1.11503E 00	1.66004E 01	-8.09227E 01	01
14.50	1.27303E 00	-1.56054E 01	-1.14062E 00	7.32367E-03	-1.12713E 00	1.67101E 01	-8.10513E 01	01
14.60	1.27298E 00	-1.57152E 01	-1.15309E 00	7.33889E-03	-1.13928E 00	1.68197E 01	-8.11788E 01	01
14.70	1.27292E 00	-1.58249E 01	-1.16563E 00	7.35386E-03	-1.15150E 00	1.69293E 01	-8.13053E 01	01
14.80	1.27287E 00	-1.59346E 01	-1.17822E 00	7.36860E-03	-1.16377E 00	1.70389E 01	-8.14307E 01	01
14.90	1.27281E 00	-1.60443E 01	-1.19088E 00	7.38312E-03	-1.17611E 00	1.71484E 01	-8.15549E 01	01
15.00	1.27276E 00	-1.61540E 01	-1.20359E 00	7.39738E-03	-1.18851E 00	1.72580E 01	-8.16782E 01	01
15.10	1.27271E 00	-1.62636E 01	-1.21637E 00	7.41143E-03	-1.20097E 00	1.73675E 01	-8.18005E 01	01
15.20	1.27265E 00	-1.63733E 01	-1.22921E 00	7.42526E-03	-1.21349E 00	1.74769E 01	-8.19217E 01	01
15.30	1.27260E 00	-1.64828E 01	-1.24210E 00	7.43887E-03	-1.22607E 00	1.75864E 01	-8.20420E 01	01
15.40	1.27255E 00	-1.65924E 01	-1.25506E 00	7.45226E-03	-1.23871E 00	1.76958E 01	-8.21614E 01	01
15.50	1.27250E 00	-1.67019E 01	-1.26808E 00	7.46544E-03	-1.25141E 00	1.78052E 01	-8.22798E 01	01
15.60	1.27245E 00	-1.68114E 01	-1.28116E 00	7.47842E-03	-1.26417E 00	1.79146E 01	-8.23973E 01	01
15.70	1.27240E 00	-1.69209E 01	-1.29430E 00	7.49120E-03	-1.27699E 00	1.80239E 01	-8.25139E 01	01
15.80	1.27235E 00	-1.70304E 01	-1.30750E 00	7.50379E-03	-1.28988E 00	1.81332E 01	-8.26295E 01	01
15.90	1.27230E 00	-1.71398E 01	-1.32076E 00	7.51616E-03	-1.30282E 00	1.82425E 01	-8.27445E 01	01
16.00	1.27225E 00	-1.72492E 01	-1.33408E 00	7.52836E-03	-1.31582E 00	1.83517E 01	-8.28584E 01	01
16.10	1.27220E 00	-1.73585E 01	-1.34746E 00	7.54035E-03	-1.32889E 00	1.84609E 01	-8.29715E 01	01
16.20	1.27215E 00	-1.74679E 01	-1.36090E 00	7.55219E-03	-1.34201E 00	1.85701E 01	-8.30837E 01	01
16.30	1.27210E 00	-1.75772E 01	-1.37441E 00	7.56382E-03	-1.35520E 00	1.86793E 01	-8.31952E 01	01
16.40	1.27206E 00	-1.76865E 01	-1.38797E 00	7.57527E-03	-1.36844E 00	1.87884E 01	-8.33060E 01	01
16.50	1.27201E 00	-1.77957E 01	-1.40159E 00	7.58655E-03	-1.38175E 00	1.88976E 01	-8.34159E 01	01
16.60	1.27196E 00	-1.79050E 01	-1.41527E 00	7.59767E-03	-1.39511E 00	1.90066E 01	-8.35249E 01	01
16.70	1.27192E 00	-1.80142E 01	-1.42902E 00	7.60861E-03	-1.40854E 00	1.91157E 01	-8.36333E 01	01
16.80	1.27187E 00	-1.81233E 01	-1.44282E 00	7.61937E-03	-1.42203E 00	1.92247E 01	-8.37410E 01	01
16.90	1.27182E 00	-1.82325E 01	-1.45668E 00	7.62999E-03	-1.43557E 00	1.93337E 01	-8.38478E 01	01
17.00	1.27178E 00	-1.83416E 01	-1.47061E 00	7.64043E-03	-1.44918E 00	1.94427E 01	-8.39540E 01	01
17.10	1.27173E 00	-1.84507E 01	-1.48459E 00	7.65072E-03	-1.46285E 00	1.95516E 01	-8.40595E 01	01
17.20	1.27169E 00	-1.85598E 01	-1.49864E 00	7.66084E-03	-1.47658E 00	1.96605E 01	-8.41643E 01	01
17.30	1.27164E 00	-1.86688E 01	-1.51274E 00	7.67081E-03	-1.49036E 00	1.97694E 01	-8.42684E 01	01
17.40	1.27160E 00	-1.87778E 01	-1.52691E 00	7.68064E-03	-1.50421E 00	1.98783E 01	-8.43719E 01	01
17.50	1.27156E 00	-1.88868E 01	-1.54113E 00	7.69030E-03	-1.51812E 00	1.99871E 01	-8.44747E 01	01
17.60	1.27151E 00	-1.89957E 01	-1.55542E 00	7.69984E-03	-1.53209E 00	2.00959E 01	-8.45768E 01	01
17.70	1.27147E 00	-1.91046E 01	-1.56976E 00	7.70923E-03	-1.54612E 00	2.02047E 01	-8.46782E 01	01
17.80	1.27143E 00	-1.92135E 01	-1.58417E 00	7.71846E-03	-1.56020E 00	2.03134E 01	-8.47791E 01	01
17.90	1.27138E 00	-1.93224E 01	-1.59863E 00	7.72756E-03	-1.57435E 00	2.04221E 01	-8.48794E 01	01
18.00	1.27134E 00	-1.94312E 01	-1.61316E 00	7.73652E-03	-1.58856E 00	2.05308E 01	-8.49791E 01	01

## ELECTRON RADIAL FUNCTIONS

	$Z = 10$	$A = 20$	$\rho = 1.2 A^{1/3} F$		Electron		
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	3.67021E-04	-4.42079E-01	-1.71922E-02	2.05416E 01	-1.70481E-02	4.80062E-01	-4.56595E-02
12.20	3.73100E-04	-4.49552E-01	-1.75587E-02	2.05480E 01	-1.74069E-02	4.87849E-01	-4.56692E-02
12.30	3.79228E-04	-4.57087E-01	-1.79301E-02	2.05542E 01	-1.77705E-02	4.95697E-01	-4.56787E-02
12.40	3.85407E-04	-4.64685E-01	-1.83065E-02	2.05604E 01	-1.81390E-02	5.03607E-01	-4.56881E-02
12.50	3.91635E-04	-4.72344E-01	-1.86880E-02	2.05665E 01	-1.85124E-02	5.11579E-01	-4.56973E-02
12.60	3.97914E-04	-4.80066E-01	-1.90745E-02	2.05724E 01	-1.88908E-02	5.19614E-01	-4.57065E-02
12.70	4.04242E-04	-4.87850E-01	-1.94661E-02	2.05783E 01	-1.92742E-02	5.27710E-01	-4.57155E-02
12.80	4.10620E-04	-4.95696E-01	-1.98628E-02	2.05841E 01	-1.96626E-02	5.35868E-01	-4.57243E-02
12.90	4.17048E-04	-5.03604E-01	-2.02647E-02	2.05897E 01	-2.00560E-02	5.44089E-01	-4.57331E-02
13.00	4.23526E-04	-5.11574E-01	-2.06717E-02	2.05953E 01	-2.04546E-02	5.52371E-01	-4.57417E-02
13.10	4.30053E-04	-5.19606E-01	-2.10840E-02	2.06008E 01	-2.08582E-02	5.60716E-01	-4.57503E-02
13.20	4.36631E-04	-5.27700E-01	-2.15015E-02	2.06062E 01	-2.12669E-02	5.69122E-01	-4.57587E-02
13.30	4.43259E-04	-5.35856E-01	-2.19243E-02	2.06115E 01	-2.16809E-02	5.77591E-01	-4.57670E-02
13.40	4.49936E-04	-5.44074E-01	-2.23523E-02	2.06168E 01	-2.21000E-02	5.86121E-01	-4.57752E-02
13.50	4.56663E-04	-5.52354E-01	-2.27858E-02	2.06219E 01	-2.25244E-02	5.94713E-01	-4.57833E-02
13.60	4.63441E-04	-5.60697E-01	-2.32246E-02	2.06270E 01	-2.29540E-02	6.03367E-01	-4.57913E-02
13.70	4.70268E-04	-5.69101E-01	-2.36688E-02	2.06320E 01	-2.33889E-02	6.12084E-01	-4.57991E-02
13.80	4.77145E-04	-5.77567E-01	-2.41184E-02	2.06369E 01	-2.38292E-02	6.20862E-01	-4.58069E-02
13.90	4.84071E-04	-5.86095E-01	-2.45735E-02	2.06418E 01	-2.42748E-02	6.29701E-01	-4.58146E-02
14.00	4.91048E-04	-5.94684E-01	-2.50341E-02	2.06465E 01	-2.47258E-02	6.38603E-01	-4.58222E-02
14.10	4.98075E-04	-6.03336E-01	-2.55002E-02	2.06512E 01	-2.51822E-02	6.47567E-01	-4.58297E-02
14.20	5.05151E-04	-6.12050E-01	-2.59719E-02	2.06559E 01	-2.56441E-02	6.56592E-01	-4.58371E-02
14.30	5.12277E-04	-6.20825E-01	-2.64491E-02	2.06604E 01	-2.61114E-02	6.65679E-01	-4.58444E-02
14.40	5.19454E-04	-6.29663E-01	-2.69320E-02	2.06649E 01	-2.65843E-02	6.74829E-01	-4.58516E-02
14.50	5.26680E-04	-6.38562E-01	-2.74205E-02	2.06694E 01	-2.70627E-02	6.84040E-01	-4.58587E-02
14.60	5.33956E-04	-6.47523E-01	-2.79147E-02	2.06737E 01	-2.75466E-02	6.93312E-01	-4.58658E-02
14.70	5.41281E-04	-6.56546E-01	-2.84147E-02	2.06780E 01	-2.80362E-02	7.02647E-01	-4.58728E-02
14.80	5.48657E-04	-6.65631E-01	-2.89203E-02	2.06823E 01	-2.85314E-02	7.12043E-01	-4.58796E-02
14.90	5.56083E-04	-6.74777E-01	-2.94318E-02	2.06865E 01	-2.90323E-02	7.21501E-01	-4.58864E-02
15.00	5.63558E-04	-6.83986E-01	-2.99490E-02	2.06906E 01	-2.95389E-02	7.31021E-01	-4.58931E-02
15.10	5.71084E-04	-6.93256E-01	-3.04721E-02	2.06947E 01	-3.00512E-02	7.40602E-01	-4.58998E-02
15.20	5.78659E-04	-7.02588E-01	-3.10010E-02	2.06987E 01	-3.05693E-02	7.50246E-01	-4.59063E-02
15.30	5.86284E-04	-7.11982E-01	-3.15358E-02	2.07027E 01	-3.10931E-02	7.59950E-01	-4.59128E-02
15.40	5.93959E-04	-7.21437E-01	-3.20766E-02	2.07066E 01	-3.16228E-02	7.69717E-01	-4.59192E-02
15.50	6.01683E-04	-7.30954E-01	-3.26233E-02	2.07104E 01	-3.21584E-02	7.79545E-01	-4.59255E-02
15.60	6.09458E-04	-7.40533E-01	-3.31760E-02	2.07142E 01	-3.26998E-02	7.89435E-01	-4.59318E-02
15.70	6.17283E-04	-7.50173E-01	-3.37347E-02	2.07180E 01	-3.32471E-02	7.99387E-01	-4.59380E-02
15.80	6.25157E-04	-7.59875E-01	-3.42995E-02	2.07217E 01	-3.38004E-02	8.09400E-01	-4.59441E-02
15.90	6.33081E-04	-7.69639E-01	-3.48704E-02	2.07253E 01	-3.43596E-02	8.19474E-01	-4.59501E-02
16.00	6.41055E-04	-7.79465E-01	-3.54474E-02	2.07290E 01	-3.49249E-02	8.29611E-01	-4.59561E-02
16.10	6.49079E-04	-7.89352E-01	-3.60305E-02	2.07325E 01	-3.54962E-02	8.39809E-01	-4.59620E-02
16.20	6.57153E-04	-7.99301E-01	-3.66198E-02	2.07360E 01	-3.60736E-02	8.50068E-01	-4.59679E-02
16.30	6.65277E-04	-8.09311E-01	-3.72153E-02	2.07395E 01	-3.66571E-02	8.60389E-01	-4.59736E-02
16.40	6.73450E-04	-8.19383E-01	-3.78170E-02	2.07429E 01	-3.72467E-02	8.70772E-01	-4.59794E-02
16.50	6.81674E-04	-8.29516E-01	-3.84250E-02	2.07463E 01	-3.78424E-02	8.81216E-01	-4.59850E-02
16.60	6.89947E-04	-8.39711E-01	-3.90393E-02	2.07496E 01	-3.84444E-02	8.91722E-01	-4.59906E-02
16.70	6.98271E-04	-8.49968E-01	-3.96599E-02	2.07529E 01	-3.90526E-02	9.02289E-01	-4.59961E-02
16.80	7.06643E-04	-8.60286E-01	-4.02869E-02	2.07562E 01	-3.96670E-02	9.12918E-01	-4.60016E-02
16.90	7.15066E-04	-8.70666E-01	-4.09203E-02	2.07594E 01	-4.02877E-02	9.23608E-01	-4.60070E-02
17.00	7.23539E-04	-8.81107E-01	-4.15601E-02	2.07626E 01	-4.09148E-02	9.34359E-01	-4.60124E-02
17.10	7.32062E-04	-8.91610E-01	-4.22064E-02	2.07657E 01	-4.15481E-02	9.45172E-01	-4.60177E-02
17.20	7.40634E-04	-9.02174E-01	-4.28591E-02	2.07688E 01	-4.21879E-02	9.56046E-01	-4.60229E-02
17.30	7.49256E-04	-9.12799E-01	-4.35183E-02	2.07719E 01	-4.28341E-02	9.66982E-01	-4.60281E-02
17.40	7.57928E-04	-9.23486E-01	-4.41841E-02	2.07749E 01	-4.34867E-02	9.77979E-01	-4.60333E-02
17.50	7.66650E-04	-9.34235E-01	-4.48565E-02	2.07779E 01	-4.41457E-02	9.89038E-01	-4.60383E-02
17.60	7.75422E-04	-9.45045E-01	-4.55355E-02	2.07809E 01	-4.48113E-02	1.00016E 00	-4.60434E-02
17.70	7.84244E-04	-9.55916E-01	-4.62211E-02	2.07838E 01	-4.54834E-02	1.01134E 00	-4.60483E-02
17.80	7.93115E-04	-9.66849E-01	-4.69134E-02	2.07867E 01	-4.61621E-02	1.02258E 00	-4.60533E-02
17.90	8.02037E-04	-9.77843E-01	-4.76124E-02	2.07895E 01	-4.68474E-02	1.03389E 00	-4.60582E-02
18.00	8.11008E-04	-9.88898E-01	-4.83181E-02	2.07923E 01	-4.75392E-02	1.04525E 00	-4.60630E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z = 10$		$A = 20$		$\rho = 1.2 A^{1/3} F$			
$\rho$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	1.27130E 00	-1.95400E 01	-1.62774E 00	7.74535E-03	-1.60283E 00	2.06394E 01	-8.50781E 01	01
18.20	1.27126E 00	-1.96488E 01	-1.64239E 00	7.75404E-03	-1.61716E 00	2.07481E 01	-8.51766E 01	01
18.30	1.27121E 00	-1.97575E 01	-1.65709E 00	7.76259E-03	-1.63155E 00	2.08567E 01	-8.52746E 01	01
18.40	1.27117E 00	-1.98663E 01	-1.67186E 00	7.77103E-03	-1.64600E 00	2.09652E 01	-8.53718E 01	01
18.50	1.27113E 00	-1.99750E 01	-1.68669E 00	7.77933E-03	-1.66051E 00	2.10738E 01	-8.54686E 01	01
18.60	1.27109E 00	-2.00836E 01	-1.70157E 00	7.78750E-03	-1.67507E 00	2.11823E 01	-8.55649E 01	01
18.70	1.27105E 00	-2.01922E 01	-1.71652E 00	7.79554E-03	-1.68970E 00	2.12908E 01	-8.56606E 01	01
18.80	1.27101E 00	-2.03008E 01	-1.73152E 00	7.80347E-03	-1.70439E 00	2.13992E 01	-8.57558E 01	01
18.90	1.27097E 00	-2.04094E 01	-1.74658E 00	7.81127E-03	-1.71914E 00	2.15076E 01	-8.58506E 01	01
19.00	1.27093E 00	-2.05180E 01	-1.76171E 00	7.81895E-03	-1.73395E 00	2.16160E 01	-8.59447E 01	01
19.10	1.27089E 00	-2.06265E 01	-1.77689E 00	7.82653E-03	-1.74882E 00	2.17244E 01	-8.60384E 01	01
19.20	1.27085E 00	-2.07350E 01	-1.79214E 00	7.83398E-03	-1.76374E 00	2.18327E 01	-8.61316E 01	01
19.30	1.27081E 00	-2.08434E 01	-1.80744E 00	7.84131E-03	-1.77873E 00	2.19410E 01	-8.62244E 01	01
19.40	1.27077E 00	-2.09518E 01	-1.82280E 00	7.84854E-03	-1.79378E 00	2.20493E 01	-8.63166E 01	01
19.50	1.27074E 00	-2.10602E 01	-1.83823E 00	7.85565E-03	-1.80889E 00	2.21575E 01	-8.64084E 01	01
19.60	1.27070E 00	-2.11686E 01	-1.85371E 00	7.86264E-03	-1.82405E 00	2.22657E 01	-8.64997E 01	01
19.70	1.27066E 00	-2.12769E 01	-1.86925E 00	7.86954E-03	-1.83928E 00	2.23739E 01	-8.65906E 01	01
19.80	1.27062E 00	-2.13853E 01	-1.88486E 00	7.87634E-03	-1.85457E 00	2.24820E 01	-8.66809E 01	01
19.90	1.27058E 00	-2.14935E 01	-1.90052E 00	7.88301E-03	-1.86991E 00	2.25902E 01	-8.67710E 01	01
20.00	1.27055E 00	-2.16018E 01	-1.91624E 00	7.88959E-03	-1.88532E 00	2.26983E 01	-8.68606E 01	01
20.10	1.27051E 00	-2.17100E 01	-1.93202E 00	7.89606E-03	-1.90078E 00	2.28063E 01	-8.69497E 01	01
20.20	1.27047E 00	-2.18182E 01	-1.94786E 00	7.90243E-03	-1.91631E 00	2.29143E 01	-8.70385E 01	01
20.30	1.27044E 00	-2.19263E 01	-1.96376E 00	7.90871E-03	-1.93189E 00	2.30223E 01	-8.71269E 01	01
20.40	1.27040E 00	-2.20345E 01	-1.97972E 00	7.91488E-03	-1.94754E 00	2.31303E 01	-8.72148E 01	01
20.50	1.27036E 00	-2.21426E 01	-1.99574E 00	7.92095E-03	-1.96324E 00	2.32382E 01	-8.73024E 01	01
20.60	1.27033E 00	-2.22506E 01	-2.01182E 00	7.92692E-03	-1.97901E 00	2.33461E 01	-8.73897E 01	01
20.70	1.27029E 00	-2.23587E 01	-2.02796E 00	7.93282E-03	-1.99483E 00	2.34540E 01	-8.74764E 01	01
20.80	1.27026E 00	-2.24667E 01	-2.04416E 00	7.93861E-03	-2.01071E 00	2.35619E 01	-8.75628E 01	01
20.90	1.27022E 00	-2.25747E 01	-2.06042E 00	7.94429E-03	-2.02665E 00	2.36697E 01	-8.76490E 01	01
21.00	1.27019E 00	-2.26826E 01	-2.07673E 00	7.94992E-03	-2.04265E 00	2.37775E 01	-8.77346E 01	01
21.10	1.27015E 00	-2.27905E 01	-2.09311E 00	7.95543E-03	-2.05871E 00	2.38852E 01	-8.78200E 01	01
21.20	1.27012E 00	-2.28984E 01	-2.10954E 00	7.96084E-03	-2.07483E 00	2.39929E 01	-8.79052E 01	01
21.30	1.27008E 00	-2.30062E 01	-2.12604E 00	7.96619E-03	-2.09101E 00	2.41006E 01	-8.79897E 01	01
21.40	1.27005E 00	-2.31141E 01	-2.14259E 00	7.97144E-03	-2.10725E 00	2.42083E 01	-8.80741E 01	01
21.50	1.27001E 00	-2.32219E 01	-2.15921E 00	7.97660E-03	-2.12355E 00	2.43159E 01	-8.81582E 01	01
21.60	1.26998E 00	-2.33296E 01	-2.17588E 00	7.98168E-03	-2.13991E 00	2.44235E 01	-8.82419E 01	01
21.70	1.26994E 00	-2.34373E 01	-2.19261E 00	7.98668E-03	-2.15632E 00	2.45311E 01	-8.83253E 01	01
21.80	1.26991E 00	-2.35450E 01	-2.20940E 00	7.99159E-03	-2.17280E 00	2.46386E 01	-8.84084E 01	01
21.90	1.26988E 00	-2.36527E 01	-2.22625E 00	7.99641E-03	-2.18933E 00	2.47461E 01	-8.84912E 01	01
22.00	1.26984E 00	-2.37603E 01	-2.24316E 00	8.00117E-03	-2.20593E 00	2.48536E 01	-8.85736E 01	01
22.10	1.26981E 00	-2.38679E 01	-2.26013E 00	8.00584E-03	-2.22258E 00	2.49610E 01	-8.86558E 01	01
22.20	1.26978E 00	-2.39755E 01	-2.27716E 00	8.01042E-03	-2.23930E 00	2.50684E 01	-8.87378E 01	01
22.30	1.26974E 00	-2.40831E 01	-2.29424E 00	8.01492E-03	-2.25607E 00	2.51758E 01	-8.88195E 01	01
22.40	1.26971E 00	-2.41906E 01	-2.31139E 00	8.01936E-03	-2.27290E 00	2.52832E 01	-8.89008E 01	01
22.50	1.26968E 00	-2.42981E 01	-2.32860E 00	8.02373E-03	-2.28979E 00	2.53905E 01	-8.89818E 01	01
22.60	1.26965E 00	-2.44055E 01	-2.34586E 00	8.02800E-03	-2.30674E 00	2.54978E 01	-8.90626E 01	01
22.70	1.26961E 00	-2.45129E 01	-2.36318E 00	8.03220E-03	-2.32375E 00	2.56050E 01	-8.91432E 01	01
22.80	1.26958E 00	-2.46203E 01	-2.38057E 00	8.03634E-03	-2.34081E 00	2.57122E 01	-8.92235E 01	01
22.90	1.26955E 00	-2.47276E 01	-2.39801E 00	8.04039E-03	-2.35794E 00	2.58194E 01	-8.93035E 01	01
23.00	1.26952E 00	-2.48350E 01	-2.41551E 00	8.04438E-03	-2.37513E 00	2.59266E 01	-8.93833E 01	01
23.10	1.26949E 00	-2.49423E 01	-2.43307E 00	8.04828E-03	-2.39237E 00	2.60337E 01	-8.94630E 01	01
23.20	1.26946E 00	-2.50495E 01	-2.45068E 00	8.05212E-03	-2.40967E 00	2.61408E 01	-8.95423E 01	01
23.30	1.26942E 00	-2.51567E 01	-2.46836E 00	8.05589E-03	-2.42704E 00	2.62478E 01	-8.96214E 01	01
23.40	1.26939E 00	-2.52639E 01	-2.48610E 00	8.05958E-03	-2.44446E 00	2.63549E 01	-8.97003E 01	01
23.50	1.26936E 00	-2.53711E 01	-2.50389E 00	8.06323E-03	-2.46194E 00	2.64618E 01	-8.97788E 01	01
23.60	1.26933E 00	-2.54782E 01	-2.52174E 00	8.06678E-03	-2.47948E 00	2.65688E 01	-8.98574E 01	01
23.70	1.26930E 00	-2.55853E 01	-2.53966E 00	8.07028E-03	-2.49707E 00	2.66757E 01	-8.99355E 01	01
23.80	1.26927E 00	-2.56924E 01	-2.55763E 00	8.07371E-03	-2.51473E 00	2.67826E 01	-9.00135E 01	01
23.90	1.26924E 00	-2.57994E 01	-2.57566E 00	8.07708E-03	-2.53245E 00	2.68895E 01	-9.00912E 01	01
24.00	1.26921E 00	-2.59064E 01	-2.59375E 00	8.08038E-03	-2.55022E 00	2.69963E 01	-9.01688E 01	01

## ELECTRON RADIAL FUNCTIONS

 $Z = 10$  $A = 20$  $\rho = 1.2 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	8.20029E-04	-1.00002E 00	-4.90306E-02	2.07951 E 01	-4.82378E-02	1.05668 E 00	-4.60678E-02
18.20	8.29100E-04	-1.01119E 00	-4.97498E-02	2.07979 E 01	-4.89430E-02	1.06817 E 00	-4.60725E-02
18.30	8.38221E-04	-1.02243E 00	-5.04759E-02	2.08006 E 01	-4.96550E-02	1.07971 E 00	-4.60772E-02
18.40	8.47391E-04	-1.03373E 00	-5.12088E-02	2.08033 E 01	-5.03737E-02	1.09133 E 00	-4.60818E-02
18.50	8.56612E-04	-1.04510E 00	-5.19486E-02	2.08060 E 01	-5.10991E-02	1.10300 E 00	-4.60864E-02
18.60	8.65882E-04	-1.05652E 00	-5.26953E-02	2.08086 E 01	-5.18314E-02	1.11473 E 00	-4.60909E-02
18.70	8.75202E-04	-1.06800E 00	-5.34490E-02	2.08112 E 01	-5.25705E-02	1.12652 E 00	-4.60955E-02
18.80	8.84572E-04	-1.07955E 00	-5.42096E-02	2.08138 E 01	-5.33165E-02	1.13838 E 00	-4.60999E-02
18.90	8.93992E-04	-1.09116E 00	-5.49773E-02	2.08163 E 01	-5.40693E-02	1.15029 E 00	-4.61043E-02
19.00	9.03461E-04	-1.10282E 00	-5.57519E-02	2.08188 E 01	-5.48291E-02	1.16227 E 00	-4.61087E-02
19.10	9.12981E-04	-1.11455E 00	-5.65337E-02	2.08213 E 01	-5.55959E-02	1.17431 E 00	-4.61130E-02
19.20	9.22550E-04	-1.12634E 00	-5.73225E-02	2.08238 E 01	-5.63697E-02	1.18641 E 00	-4.61173E-02
19.30	9.32169E-04	-1.13819E 00	-5.81185E-02	2.08262 E 01	-5.71504E-02	1.19857 E 00	-4.61216E-02
19.40	9.41838E-04	-1.15011E 00	-5.89216E-02	2.08286 E 01	-5.79383E-02	1.21079 E 00	-4.61258E-02
19.50	9.51557E-04	-1.16208E 00	-5.97319E-02	2.08310 E 01	-5.87332E-02	1.22308 E 00	-4.61299E-02
19.60	9.61326E-04	-1.17412E 00	-6.05494E-02	2.08334 E 01	-5.95352E-02	1.23542 E 00	-4.61341E-02
19.70	9.71144E-04	-1.18621E 00	-6.13742E-02	2.08357 E 01	-6.03444E-02	1.24782 E 00	-4.61382E-02
19.80	9.81013E-04	-1.19837E 00	-6.22063E-02	2.08380 E 01	-6.11607E-02	1.26029 E 00	-4.61422E-02
19.90	9.90931E-04	-1.21059E 00	-6.30456E-02	2.08403 E 01	-6.19843E-02	1.27282 E 00	-4.61462E-02
20.00	1.00090E-03	-1.22287E 00	-6.38923E-02	2.08426 E 01	-6.28150E-02	1.28540 E 00	-4.61502E-02
20.10	1.01092E-03	-1.23521E 00	-6.47464E-02	2.08448 E 01	-6.36531E-02	1.29805 E 00	-4.61541E-02
20.20	1.02098E-03	-1.24761E 00	-6.56078E-02	2.08470 E 01	-6.44984E-02	1.31076 E 00	-4.61581E-02
20.30	1.03110E-03	-1.26007E 00	-6.64768E-02	2.08492 E 01	-6.53511E-02	1.32353 E 00	-4.61619E-02
20.40	1.04127E-03	-1.27259E 00	-6.73531E-02	2.08514 E 01	-6.62111E-02	1.33637 E 00	-4.61658E-02
20.50	1.05149E-03	-1.28518E 00	-6.82370E-02	2.08536 E 01	-6.70785E-02	1.34926 E 00	-4.61696E-02
20.60	1.06175E-03	-1.29782E 00	-6.91283E-02	2.08557 E 01	-6.79533E-02	1.36221 E 00	-4.61733E-02
20.70	1.07207E-03	-1.31053E 00	-7.00273E-02	2.08578 E 01	-6.88356E-02	1.37523 E 00	-4.61771E-02
20.80	1.08244E-03	-1.32329E 00	-7.09338E-02	2.08599 E 01	-6.97254E-02	1.38830 E 00	-4.61808E-02
20.90	1.09285E-03	-1.33612E 00	-7.18479E-02	2.08619 E 01	-7.06226E-02	1.40144 E 00	-4.61844E-02
21.00	1.10332E-03	-1.34901E 00	-7.27697E-02	2.08640 E 01	-7.15275E-02	1.41463 E 00	-4.61881E-02
21.10	1.11383E-03	-1.36196E 00	-7.36992E-02	2.08660 E 01	-7.24398E-02	1.42789 E 00	-4.61917E-02
21.20	1.12440E-03	-1.37497E 00	-7.46363E-02	2.08680 E 01	-7.33598E-02	1.44121 E 00	-4.61952E-02
21.30	1.13502E-03	-1.38804E 00	-7.55812E-02	2.08700 E 01	-7.42874E-02	1.45459 E 00	-4.61988E-02
21.40	1.14568E-03	-1.40117E 00	-7.65339E-02	2.08720 E 01	-7.52227E-02	1.46803 E 00	-4.62023E-02
21.50	1.15640E-03	-1.41437E 00	-7.74943E-02	2.08739 E 01	-7.61656E-02	1.48153 E 00	-4.62058E-02
21.60	1.16716E-03	-1.42762E 00	-7.84626E-02	2.08758 E 01	-7.71163E-02	1.49509 E 00	-4.62092E-02
21.70	1.17798E-03	-1.44093E 00	-7.94387E-02	2.08778 E 01	-7.80748E-02	1.50871 E 00	-4.62126E-02
21.80	1.18884E-03	-1.45431E 00	-8.04228E-02	2.08796 E 01	-7.90410E-02	1.52240 E 00	-4.62160E-02
21.90	1.19976E-03	-1.46774E 00	-8.14147E-02	2.08815 E 01	-8.00150E-02	1.53614 E 00	-4.62194E-02
22.00	1.21072E-03	-1.48124E 00	-8.24146E-02	2.08834 E 01	-8.09969E-02	1.54994 E 00	-4.62227E-02
22.10	1.22174E-03	-1.49480E 00	-8.34224E-02	2.08852 E 01	-8.19866E-02	1.56381 E 00	-4.62260E-02
22.20	1.23280E-03	-1.50842E 00	-8.44383E-02	2.08870 E 01	-8.29843E-02	1.57773 E 00	-4.62293E-02
22.30	1.24391E-03	-1.52209E 00	-8.54622E-02	2.08888 E 01	-8.39899E-02	1.59172 E 00	-4.62326E-02
22.40	1.25508E-03	-1.53583E 00	-8.64942E-02	2.08906 E 01	-8.50034E-02	1.60577 E 00	-4.62358E-02
22.50	1.26629E-03	-1.54963E 00	-8.75343E-02	2.08924 E 01	-8.60250E-02	1.61987 E 00	-4.62390E-02
22.60	1.27755E-03	-1.56349E 00	-8.85825E-02	2.08942 E 01	-8.70545E-02	1.63404 E 00	-4.62422E-02
22.70	1.28887E-03	-1.57741E 00	-8.96389E-02	2.08959 E 01	-8.80921E-02	1.64827 E 00	-4.62453E-02
22.80	1.30023E-03	-1.59139E 00	-9.07034E-02	2.08976 E 01	-8.91379E-02	1.66256 E 00	-4.62484E-02
22.90	1.31164E-03	-1.60544E 00	-9.17762E-02	2.08993 E 01	-9.01917E-02	1.67691 E 00	-4.62515E-02
23.00	1.32311E-03	-1.61954E 00	-9.28572E-02	2.09010 E 01	-9.12536E-02	1.69132 E 00	-4.62546E-02
23.10	1.33462E-03	-1.63370E 00	-9.39465E-02	2.09027 E 01	-9.23238E-02	1.70579 E 00	-4.62576E-02
23.20	1.34618E-03	-1.64793E 00	-9.50442E-02	2.09043 E 01	-9.34021E-02	1.72032 E 00	-4.62607E-02
23.30	1.35779E-03	-1.66221E 00	-9.61501E-02	2.09060 E 01	-9.44887E-02	1.73491 E 00	-4.62637E-02
23.40	1.36945E-03	-1.67655E 00	-9.72644E-02	2.09076 E 01	-9.55835E-02	1.74956 E 00	-4.62666E-02
23.50	1.38117E-03	-1.69096E 00	-9.83872E-02	2.09092 E 01	-9.66867E-02	1.76427 E 00	-4.62696E-02
23.60	1.39293E-03	-1.70542E 00	-9.95183E-02	2.09109 E 01	-9.77982E-02	1.77904 E 00	-4.62725E-02
23.70	1.40474E-03	-1.71995E 00	-1.00658E-01	2.09124 E 01	-9.89180E-02	1.79388 E 00	-4.62754E-02
23.80	1.41660E-03	-1.73454E 00	-1.01806E-01	2.09140 E 01	-1.00046E-01	1.80877 E 00	-4.62783E-02
23.90	1.42851E-03	-1.74918E 00	-1.02963E-01	2.09156 E 01	-1.01183E-01	1.82372 E 00	-4.62811E-02
24.00	1.44047E-03	-1.76389E 00	-1.04128E-01	2.09171 E 01	-1.02328E-01	1.83873 E 00	-4.62840E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z = 10$		$A = 20$		$\rho = 1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
24.10	1.26918E 00	-2.60134E 01	-2.61189E 00	8.08361E-03	-2.56806E 00	2.71031E 01	-9.02462E 01	
24.20	1.26915E 00	-2.61203E 01	-2.63010E 00	8.08677E-03	-2.58595E 00	2.72099E 01	-9.03234E 01	
24.30	1.26912E 00	-2.62272E 01	-2.64836E 00	8.08989E-03	-2.60390E 00	2.73166E 01	-9.04004E 01	
24.40	1.26909E 00	-2.63341E 01	-2.66669E 00	8.09293E-03	-2.62191E 00	2.74233E 01	-9.04772E 01	
24.50	1.26906E 00	-2.64409E 01	-2.68507E 00	8.09591E-03	-2.63997E 00	2.75300E 01	-9.05538E 01	
24.60	1.26903E 00	-2.65477E 01	-2.70351E 00	8.09883E-03	-2.65810E 00	2.76366E 01	-9.06303E 01	
24.70	1.26900E 00	-2.66545E 01	-2.72201E 00	8.10168E-03	-2.67629E 00	2.77432E 01	-9.07065E 01	
24.80	1.26897E 00	-2.67612E 01	-2.74057E 00	8.10448E-03	-2.69453E 00	2.78498E 01	-9.07827E 01	
24.90	1.26894E 00	-2.68679E 01	-2.75918E 00	8.10721E-03	-2.71283E 00	2.79563E 01	-9.08586E 01	
25.00	1.26892E 00	-2.69746E 01	-2.77786E 00	8.10989E-03	-2.73119E 00	2.80628E 01	-9.09344E 01	
25.10	1.26889E 00	-2.70812E 01	-2.79659E 00	8.11251E-03	-2.74961E 00	2.81692E 01	-9.10100E 01	
25.20	1.26886E 00	-2.71878E 01	-2.81538E 00	8.11507E-03	-2.76809E 00	2.82757E 01	-9.10855E 01	
25.30	1.26883E 00	-2.72944E 01	-2.83423E 00	8.11758E-03	-2.78663E 00	2.83821E 01	-9.11607E 01	
25.40	1.26880E 00	-2.74009E 01	-2.85314E 00	8.12003E-03	-2.80522E 00	2.84884E 01	-9.12357E 01	
25.50	1.26877E 00	-2.75074E 01	-2.87211E 00	8.12242E-03	-2.82387E 00	2.85948E 01	-9.13108E 01	
25.60	1.26875E 00	-2.76139E 01	-2.89113E 00	8.12475E-03	-2.84259E 00	2.87011E 01	-9.13857E 01	
25.70	1.26872E 00	-2.77203E 01	-2.91022E 00	8.12702E-03	-2.86136E 00	2.88073E 01	-9.14604E 01	
25.80	1.26869E 00	-2.78267E 01	-2.92936E 00	8.12925E-03	-2.88018E 00	2.89136E 01	-9.15350E 01	
25.90	1.26866E 00	-2.79331E 01	-2.94856E 00	8.13142E-03	-2.89907E 00	2.90197E 01	-9.16094E 01	
26.00	1.26863E 00	-2.80394E 01	-2.96782E 00	8.13354E-03	-2.91802E 00	2.91259E 01	-9.16837E 01	
26.10	1.26861E 00	-2.81457E 01	-2.98713E 00	8.13558E-03	-2.93702E 00	2.92320E 01	-9.17580E 01	
26.20	1.26858E 00	-2.82520E 01	-3.00651E 00	8.13760E-03	-2.95608E 00	2.93381E 01	-9.18320E 01	
26.30	1.26855E 00	-2.83582E 01	-3.02594E 00	8.13956E-03	-2.97520E 00	2.94442E 01	-9.19058E 01	
26.40	1.26853E 00	-2.84644E 01	-3.04543E 00	8.14146E-03	-2.99438E 00	2.95502E 01	-9.19797E 01	
26.50	1.26850E 00	-2.85706E 01	-3.06498E 00	8.14331E-03	-3.01361E 00	2.96562E 01	-9.20534E 01	
26.60	1.26847E 00	-2.86767E 01	-3.08459E 00	8.14511E-03	-3.03291E 00	2.97621E 01	-9.21270E 01	
26.70	1.26844E 00	-2.87828E 01	-3.10425E 00	8.14685E-03	-3.05226E 00	2.98681E 01	-9.22005E 01	
26.80	1.26842E 00	-2.88889E 01	-3.12398E 00	8.14855E-03	-3.07167E 00	2.99739E 01	-9.22739E 01	
26.90	1.26839E 00	-2.89949E 01	-3.14376E 00	8.15020E-03	-3.09114E 00	3.00798E 01	-9.23472E 01	
27.00	1.26836E 00	-2.91009E 01	-3.16360E 00	8.15179E-03	-3.11067E 00	3.01856E 01	-9.24204E 01	
27.10	1.26834E 00	-2.92068E 01	-3.18350E 00	8.15336E-03	-3.13025E 00	3.02914E 01	-9.24933E 01	
27.20	1.26831E 00	-2.93128E 01	-3.20345E 00	8.15485E-03	-3.14989E 00	3.03971E 01	-9.25663E 01	
27.30	1.26829E 00	-2.94187E 01	-3.22346E 00	8.15631E-03	-3.16959E 00	3.05028E 01	-9.26392E 01	
27.40	1.26826E 00	-2.95245E 01	-3.24354E 00	8.15771E-03	-3.18935E 00	3.06085E 01	-9.27120E 01	
27.50	1.26823E 00	-2.96303E 01	-3.26367E 00	8.15907E-03	-3.20917E 00	3.07142E 01	-9.27847E 01	
27.60	1.26821E 00	-2.97361E 01	-3.28385E 00	8.16039E-03	-3.22904E 00	3.08198E 01	-9.28572E 01	
27.70	1.26818E 00	-2.98418E 01	-3.30410E 00	8.16165E-03	-3.24898E 00	3.09253E 01	-9.29298E 01	
27.80	1.26816E 00	-2.99476E 01	-3.32440E 00	8.16287E-03	-3.26897E 00	3.10309E 01	-9.30023E 01	
27.90	1.26813E 00	-3.00532E 01	-3.34476E 00	8.16403E-03	-3.28902E 00	3.11364E 01	-9.30747E 01	
28.00	1.26811E 00	-3.01589E 01	-3.36518E 00	8.16516E-03	-3.30912E 00	3.12418E 01	-9.31470E 01	
28.10	1.26808E 00	-3.02645E 01	-3.38566E 00	8.16625E-03	-3.32929E 00	3.13473E 01	-9.32191E 01	
28.20	1.26806E 00	-3.03701E 01	-3.40619E 00	8.16727E-03	-3.34951E 00	3.14526E 01	-9.32914E 01	
28.30	1.26803E 00	-3.04756E 01	-3.42678E 00	8.16826E-03	-3.36979E 00	3.15580E 01	-9.33635E 01	
28.40	1.26801E 00	-3.05811E 01	-3.44743E 00	8.16921E-03	-3.39012E 00	3.16633E 01	-9.34355E 01	
28.50	1.26798E 00	-3.06866E 01	-3.46814E 00	8.17011E-03	-3.41052E 00	3.17686E 01	-9.35075E 01	
28.60	1.26796E 00	-3.07920E 01	-3.48890E 00	8.17097E-03	-3.43097E 00	3.18739E 01	-9.35794E 01	
28.70	1.26793E 00	-3.08974E 01	-3.50972E 00	8.17179E-03	-3.45148E 00	3.19791E 01	-9.36512E 01	
28.80	1.26791E 00	-3.10027E 01	-3.53060E 00	8.17256E-03	-3.47205E 00	3.20842E 01	-9.37231E 01	
28.90	1.26788E 00	-3.11081E 01	-3.55154E 00	8.17329E-03	-3.49267E 00	3.21894E 01	-9.37948E 01	
29.00	1.26786E 00	-3.12133E 01	-3.57254E 00	8.17398E-03	-3.51336E 00	3.22945E 01	-9.38665E 01	
29.10	1.26783E 00	-3.13186E 01	-3.59359E 00	8.17463E-03	-3.53410E 00	3.23996E 01	-9.39381E 01	
29.20	1.26781E 00	-3.14238E 01	-3.61470E 00	8.17522E-03	-3.55489E 00	3.25046E 01	-9.40098E 01	
29.30	1.26778E 00	-3.15290E 01	-3.63587E 00	8.17578E-03	-3.57575E 00	3.26096E 01	-9.40813E 01	
29.40	1.26776E 00	-3.16341E 01	-3.65709E 00	8.17631E-03	-3.59666E 00	3.27146E 01	-9.41528E 01	
29.50	1.26774E 00	-3.17392E 01	-3.67837E 00	8.17679E-03	-3.61763E 00	3.28195E 01	-9.42243E 01	
29.60	1.26771E 00	-3.18443E 01	-3.69971E 00	8.17723E-03	-3.63866E 00	3.29244E 01	-9.42957E 01	
29.70	1.26769E 00	-3.19493E 01	-3.72111E 00	8.17764E-03	-3.65975E 00	3.30292E 01	-9.43670E 01	
29.80	1.26766E 00	-3.20543E 01	-3.74256E 00	8.17799E-03	-3.68089E 00	3.31340E 01	-9.44385E 01	
29.90	1.26764E 00	-3.21593E 01	-3.76407E 00	8.17831E-03	-3.70209E 00	3.32388E 01	-9.45098E 01	
30.00	1.26762E 00	-3.22642E 01	-3.78564E 00	8.17858E-03	-3.72335E 00	3.33435E 01	-9.45812E 01	

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z = 10$		$A = 20$		$\rho = 1.2 A^{1/3} F$		Electron	
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$		
24.10	1.45248E-03	-1.77866E 00	-1.05302E-01	2.09187E 01	-1.03482E-01	1.85381 E 00	-4.62868 E-02		
24.20	1.46454E-03	-1.79348E 00	-1.06484E-01	2.09202E 01	-1.04644E-01	1.86894E 00	-4.62896 E-02		
24.30	1.47665E-03	-1.80837E 00	-1.07675E-01	2.09217E 01	-1.05814E-01	1.88414E 00	-4.62923 E-02		
24.40	1.48881E-03	-1.82332E 00	-1.08875E-01	2.09232E 01	-1.06993E-01	1.89939E 00	-4.62951 E-02		
24.50	1.50102E-03	-1.83833E 00	-1.10083E-01	2.09247E 01	-1.08181E-01	1.91471 E 00	-4.62978 E-02		
24.60	1.51328E-03	-1.85340E 00	-1.11300E-01	2.09261E 01	-1.09378E-01	1.93008E 00	-4.63005 E-02		
24.70	1.52559E-03	-1.86852E 00	-1.12526E-01	2.09276E 01	-1.10583E-01	1.94552E 00	-4.63032 E-02		
24.80	1.53795E-03	-1.88371E 00	-1.13761E-01	2.09291E 01	-1.11796E-01	1.96101E 00	-4.63059 E-02		
24.90	1.55036E-03	-1.89896E 00	-1.15004E-01	2.09305E 01	-1.13019E-01	1.97657E 00	-4.63085 E-02		
25.00	1.56282E-03	-1.91427E 00	-1.16257E-01	2.09319E 01	-1.14250E-01	1.99218E 00	-4.63112 E-02		
25.10	1.57533E-03	-1.92964E 00	-1.17518E-01	2.09333E 01	-1.15490E-01	2.00786E 00	-4.63138 E-02		
25.20	1.58789E-03	-1.94507E 00	-1.18788E-01	2.09347E 01	-1.16739E-01	2.02359E 00	-4.63164 E-02		
25.30	1.60049E-03	-1.96056E 00	-1.20067E-01	2.09361E 01	-1.17996E-01	2.03939E 00	-4.63189 E-02		
25.40	1.61315E-03	-1.97611E 00	-1.21355E-01	2.09375E 01	-1.19263E-01	2.05524E 00	-4.63215 E-02		
25.50	1.62586E-03	-1.99172E 00	-1.22652E-01	2.09388E 01	-1.20538E-01	2.07116E 00	-4.63240 E-02		
25.60	1.63862E-03	-2.00739E 00	-1.23958E-01	2.09402E 01	-1.21822E-01	2.08713E 00	-4.63265 E-02		
25.70	1.65142E-03	-2.02312E 00	-1.25273E-01	2.09415E 01	-1.23116E-01	2.10317E 00	-4.63290 E-02		
25.80	1.66428E-03	-2.03891E 00	-1.26598E-01	2.09429E 01	-1.24418E-01	2.11926E 00	-4.63315 E-02		
25.90	1.67719E-03	-2.05476E 00	-1.27931E-01	2.09442E 01	-1.25729E-01	2.13542E 00	-4.63340 E-02		
26.00	1.69014E-03	-2.07067E 00	-1.29273E-01	2.09455E 01	-1.27050E-01	2.15163E 00	-4.63364 E-02		
26.10	1.70315E-03	-2.08664E 00	-1.30625E-01	2.09468E 01	-1.28379E-01	2.16791E 00	-4.63388 E-02		
26.20	1.71621E-03	-2.10267E 00	-1.31986E-01	2.09481E 01	-1.29717E-01	2.18424E 00	-4.63412 E-02		
26.30	1.72931E-03	-2.11876E 00	-1.33356E-01	2.09494E 01	-1.31065E-01	2.20064E 00	-4.63436 E-02		
26.40	1.74247E-03	-2.13491E 00	-1.34735E-01	2.09507E 01	-1.32422E-01	2.21709E 00	-4.63460 E-02		
26.50	1.75567E-03	-2.15111E 00	-1.36124E-01	2.09519E 01	-1.33788E-01	2.23361E 00	-4.63484 E-02		
26.60	1.76893E-03	-2.16738E 00	-1.37522E-01	2.09532E 01	-1.35163E-01	2.25018E 00	-4.63507 E-02		
26.70	1.78224E-03	-2.18371E 00	-1.38929E-01	2.09544E 01	-1.36547E-01	2.26682E 00	-4.63530 E-02		
26.80	1.79559E-03	-2.20010E 00	-1.40346E-01	2.09556E 01	-1.37941E-01	2.28351E 00	-4.63553 E-02		
26.90	1.80900E-03	-2.21655E 00	-1.41772E-01	2.09569E 01	-1.39344E-01	2.30026E 00	-4.63576 E-02		
27.00	1.82245E-03	-2.23306E 00	-1.43208E-01	2.09581E 01	-1.40757E-01	2.31708E 00	-4.63599 E-02		
27.10	1.83595E-03	-2.24963E 00	-1.44653E-01	2.09593E 01	-1.42178E-01	2.33395E 00	-4.63621 E-02		
27.20	1.84951E-03	-2.26625E 00	-1.46108E-01	2.09605E 01	-1.43610E-01	2.35088E 00	-4.63644 E-02		
27.30	1.86311E-03	-2.28294E 00	-1.47572E-01	2.09617E 01	-1.45050E-01	2.36787E 00	-4.63666 E-02		
27.40	1.87677E-03	-2.29969E 00	-1.49046E-01	2.09628E 01	-1.46500E-01	2.38493E 00	-4.63688 E-02		
27.50	1.89047E-03	-2.31650E 00	-1.50529E-01	2.09640E 01	-1.47960E-01	2.40204E 00	-4.63710 E-02		
27.60	1.90422E-03	-2.33336E 00	-1.52022E-01	2.09652E 01	-1.49429E-01	2.41921E 00	-4.63732 E-02		
27.70	1.91803E-03	-2.35029E 00	-1.53524E-01	2.09663E 01	-1.50908E-01	2.43644E 00	-4.63754 E-02		
27.80	1.93188E-03	-2.36728E 00	-1.55037E-01	2.09674E 01	-1.52396E-01	2.45373E 00	-4.63775 E-02		
27.90	1.94578E-03	-2.38432E 00	-1.56559E-01	2.09686E 01	-1.53894E-01	2.47108E 00	-4.63797 E-02		
28.00	1.95974E-03	-2.40143E 00	-1.58090E-01	2.09697E 01	-1.55401E-01	2.48849E 00	-4.63818 E-02		
28.10	1.97374E-03	-2.41859E 00	-1.59632E-01	2.09708E 01	-1.56918E-01	2.50596E 00	-4.63839 E-02		
28.20	1.98779E-03	-2.43582E 00	-1.61183E-01	2.09719E 01	-1.58445E-01	2.52349E 00	-4.63860 E-02		
28.30	2.00189E-03	-2.45310E 00	-1.62744E-01	2.09730E 01	-1.59982E-01	2.54107E 00	-4.63881 E-02		
28.40	2.01604E-03	-2.47044E 00	-1.64315E-01	2.09741E 01	-1.61528E-01	2.55872E 00	-4.63902 E-02		
28.50	2.03024E-03	-2.48785E 00	-1.65896E-01	2.09752E 01	-1.63084E-01	2.57643E 00	-4.63922 E-02		
28.60	2.04450E-03	-2.50531E 00	-1.67487E-01	2.09763E 01	-1.64650E-01	2.59419E 00	-4.63943 E-02		
28.70	2.05880E-03	-2.52283E 00	-1.69088E-01	2.09773E 01	-1.66226E-01	2.61202E 00	-4.63963 E-02		
28.80	2.07315E-03	-2.54041E 00	-1.70698E-01	2.09784E 01	-1.67811E-01	2.62990E 00	-4.63983 E-02		
28.90	2.08755E-03	-2.55805E 00	-1.72319E-01	2.09795E 01	-1.69407E-01	2.64785E 00	-4.64003 E-02		
29.00	2.10200E-03	-2.57575E 00	-1.73950E-01	2.09805E 01	-1.71012E-01	2.66585E 00	-4.64023 E-02		
29.10	2.11650E-03	-2.59351E 00	-1.75591E-01	2.09815E 01	-1.72628E-01	2.68391E 00	-4.64043 E-02		
29.20	2.13105E-03	-2.61133E 00	-1.77242E-01	2.09826E 01	-1.74253E-01	2.70203E 00	-4.64062 E-02		
29.30	2.14565E-03	-2.62921E 00	-1.78903E-01	2.09836E 01	-1.75889E-01	2.72022E 00	-4.64082 E-02		
29.40	2.16030E-03	-2.64714E 00	-1.80574E-01	2.09846E 01	-1.77534E-01	2.73846E 00	-4.64101 E-02		
29.50	2.17500E-03	-2.66514E 00	-1.82255E-01	2.09856E 01	-1.79190E-01	2.75676E 00	-4.64120 E-02		
29.60	2.18975E-03	-2.68319E 00	-1.83947E-01	2.09866E 01	-1.80856E-01	2.77512E 00	-4.64140 E-02		
29.70	2.20455E-03	-2.70131E 00	-1.85649E-01	2.09876E 01	-1.82532E-01	2.79353E 00	-4.64159 E-02		
29.80	2.21940E-03	-2.71948E 00	-1.87361E-01	2.09886E 01	-1.84218E-01	2.81201E 00	-4.64178 E-02		
29.90	2.23429E-03	-2.73772E 00	-1.89083E-01	2.09896E 01	-1.85914E-01	2.83055E 00	-4.64196 E-02		
30.00	2.24924E-03	-2.75601E 00	-1.90816E-01	2.09906E 01	-1.87620E-01	2.84914E 00	-4.64215 E-02		



## ELECTRON RADIAL FUNCTIONS

Electron	$Z = 10$		$A = 20$		$\rho = 1.2 A^{1/3} F$								
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$					
30.10	1.26759E	00	-3.23691E	01	-3.80727E	00	8.17885E-03	-3.74466E	00	3.34483E	01	-9.46523E	01
30.20	1.26757E	00	-3.24740E	01	-3.82895E	00	8.17903E-03	-3.76603E	00	3.35529E	01	-9.47238E	01
30.30	1.26755E	00	-3.25788E	01	-3.85069E	00	8.17920E-03	-3.78746E	00	3.36576E	01	-9.47950E	01
30.40	1.26752E	00	-3.26836E	01	-3.87249E	00	8.17932E-03	-3.80895E	00	3.37621E	01	-9.48662E	01
30.50	1.26750E	00	-3.27883E	01	-3.89435E	00	8.17941E-03	-3.83049E	00	3.38667E	01	-9.49374E	01
30.60	1.26748E	00	-3.28930E	01	-3.91626E	00	8.17946E-03	-3.85209E	00	3.39712E	01	-9.50086E	01
30.70	1.26745E	00	-3.29977E	01	-3.93823E	00	8.17948E-03	-3.87375E	00	3.40757E	01	-9.50797E	01
30.80	1.26743E	00	-3.31023E	01	-3.96025E	00	8.17945E-03	-3.89546E	00	3.41801E	01	-9.51509E	01
30.90	1.26741E	00	-3.32069E	01	-3.98233E	00	8.17939E-03	-3.91724E	00	3.42846E	01	-9.52220E	01
31.00	1.26739E	00	-3.33114E	01	-4.00447E	00	8.17930E-03	-3.93907E	00	3.43889E	01	-9.52931E	01
31.10	1.26736E	00	-3.34159E	01	-4.02667E	00	8.17916E-03	-3.96095E	00	3.44932E	01	-9.53642E	01
31.20	1.26734E	00	-3.35204E	01	-4.04893E	00	8.17900E-03	-3.98290E	00	3.45976E	01	-9.54353E	01
31.30	1.26732E	00	-3.36249E	01	-4.07124E	00	8.17878E-03	-4.00490E	00	3.47018E	01	-9.55065E	01
31.40	1.26730E	00	-3.37293E	01	-4.09360E	00	8.17854E-03	-4.02695E	00	3.48060E	01	-9.55776E	01
31.50	1.26727E	00	-3.38337E	01	-4.11603E	00	8.17826E-03	-4.04907E	00	3.49102E	01	-9.56487E	01
31.60	1.26725E	00	-3.39380E	01	-4.13851E	00	8.17795E-03	-4.07124E	00	3.50144E	01	-9.57198E	01
31.70	1.26723E	00	-3.40423E	01	-4.16105E	00	8.17760E-03	-4.09346E	00	3.51185E	01	-9.57909E	01
31.80	1.26721E	00	-3.41465E	01	-4.18364E	00	8.17722E-03	-4.11575E	00	3.52225E	01	-9.58620E	01
31.90	1.26719E	00	-3.42508E	01	-4.20630E	00	8.17679E-03	-4.13809E	00	3.53266E	01	-9.59332E	01
32.00	1.26716E	00	-3.43549E	01	-4.22900E	00	8.17635E-03	-4.16049E	00	3.54305E	01	-9.60043E	01
32.10	1.26714E	00	-3.44591E	01	-4.25177E	00	8.17585E-03	-4.18294E	00	3.55345E	01	-9.60755E	01
32.20	1.26712E	00	-3.45632E	01	-4.27459E	00	8.17534E-03	-4.20546E	00	3.56384E	01	-9.61466E	01
32.30	1.26710E	00	-3.46672E	01	-4.29747E	00	8.17479E-03	-4.22802E	00	3.57423E	01	-9.62178E	01
32.40	1.26708E	00	-3.47713E	01	-4.32040E	00	8.17419E-03	-4.25065E	00	3.58461E	01	-9.62891E	01
32.50	1.26705E	00	-3.48753E	01	-4.34340E	00	8.17356E-03	-4.27333E	00	3.59499E	01	-9.63603E	01
32.60	1.26703E	00	-3.49792E	01	-4.36644E	00	8.17292E-03	-4.29607E	00	3.60537E	01	-9.64314E	01
32.70	1.26701E	00	-3.50831E	01	-4.38955E	00	8.17222E-03	-4.31886E	00	3.61574E	01	-9.65027E	01
32.80	1.26699E	00	-3.51870E	01	-4.41271E	00	8.17150E-03	-4.34172E	00	3.62611E	01	-9.65740E	01
32.90	1.26697E	00	-3.52908E	01	-4.43593E	00	8.17074E-03	-4.36462E	00	3.63647E	01	-9.66453E	01
33.00	1.26695E	00	-3.53946E	01	-4.45920E	00	8.16995E-03	-4.38759E	00	3.64684E	01	-9.67167E	01
33.10	1.26693E	00	-3.54984E	01	-4.48253E	00	8.16913E-03	-4.41061E	00	3.65719E	01	-9.67880E	01
33.20	1.26691E	00	-3.56021E	01	-4.50592E	00	8.16829E-03	-4.43369E	00	3.66754E	01	-9.68594E	01
33.30	1.26688E	00	-3.57058E	01	-4.52936E	00	8.16741E-03	-4.45682E	00	3.67789E	01	-9.69307E	01
33.40	1.26686E	00	-3.58094E	01	-4.55287E	00	8.16649E-03	-4.48001E	00	3.68824E	01	-9.70022E	01
33.50	1.26684E	00	-3.59130E	01	-4.57642E	00	8.16554E-03	-4.50326E	00	3.69858E	01	-9.70737E	01
33.60	1.26682E	00	-3.60166E	01	-4.60003E	00	8.16457E-03	-4.52656E	00	3.70892E	01	-9.71452E	01
33.70	1.26680E	00	-3.61201E	01	-4.62370E	00	8.16355E-03	-4.54992E	00	3.71925E	01	-9.72168E	01
33.80	1.26678E	00	-3.62236E	01	-4.64743E	00	8.16251E-03	-4.57334E	00	3.72958E	01	-9.72884E	01
33.90	1.26676E	00	-3.63270E	01	-4.67121E	00	8.16144E-03	-4.59681E	00	3.73991E	01	-9.73600E	01
34.00	1.26674E	00	-3.64304E	01	-4.69505E	00	8.16034E-03	-4.62034E	00	3.75023E	01	-9.74316E	01
34.10	1.26672E	00	-3.65338E	01	-4.71894E	00	8.15920E-03	-4.64392E	00	3.76055E	01	-9.75034E	01
34.20	1.26670E	00	-3.66371E	01	-4.74289E	00	8.15805E-03	-4.66756E	00	3.77086E	01	-9.75751E	01
34.30	1.26668E	00	-3.67404E	01	-4.76690E	00	8.15685E-03	-4.69126E	00	3.78117E	01	-9.76469E	01
34.40	1.26666E	00	-3.68437E	01	-4.79096E	00	8.15563E-03	-4.71501E	00	3.79147E	01	-9.77187E	01
34.50	1.26664E	00	-3.69469E	01	-4.81508E	00	8.15437E-03	-4.73882E	00	3.80178E	01	-9.77907E	01
34.60	1.26662E	00	-3.70501E	01	-4.83925E	00	8.15308E-03	-4.76269E	00	3.81207E	01	-9.78627E	01
34.70	1.26660E	00	-3.71532E	01	-4.86348E	00	8.15178E-03	-4.78661E	00	3.82237E	01	-9.79346E	01
34.80	1.26658E	00	-3.72563E	01	-4.88777E	00	8.15044E-03	-4.81059E	00	3.83266E	01	-9.80066E	01
34.90	1.26656E	00	-3.73593E	01	-4.91211E	00	8.14906E-03	-4.83462E	00	3.84294E	01	-9.80788E	01
35.00	1.26654E	00	-3.74623E	01	-4.93651E	00	8.14766E-03	-4.85871E	00	3.85322E	01	-9.81509E	01
35.10	1.26652E	00	-3.75653E	01	-4.96096E	00	8.14623E-03	-4.88285E	00	3.86350E	01	-9.82231E	01
35.20	1.26650E	00	-3.76682E	01	-4.98547E	00	8.14477E-03	-4.90705E	00	3.87378E	01	-9.82955E	01
35.30	1.26648E	00	-3.77711E	01	-5.01004E	00	8.14329E-03	-4.93131E	00	3.88405E	01	-9.83678E	01
35.40	1.26646E	00	-3.78740E	01	-5.03466E	00	8.14177E-03	-4.95562E	00	3.89431E	01	-9.84402E	01
35.50	1.26644E	00	-3.79768E	01	-5.05934E	00	8.14023E-03	-4.97999E	00	3.90457E	01	-9.85126E	01
35.60	1.26642E	00	-3.80796E	01	-5.08407E	00	8.13865E-03	-5.00442E	00	3.91483E	01	-9.85852E	01
35.70	1.26640E	00	-3.81823E	01	-5.10886E	00	8.13706E-03	-5.02890E	00	3.92508E	01	-9.86577E	01
35.80	1.26638E	00	-3.82850E	01	-5.13370E	00	8.13541E-03	-5.05343E	00	3.93533E	01	-9.87305E	01
35.90	1.26636E	00	-3.83876E	01	-5.15860E	00	8.13377E-03	-5.07803E	00	3.94558E	01	-9.88031E	01
36.00	1.26634E	00	-3.84902E	01	-5.18356E	00	8.13207E-03	-5.10267E	00	3.95582E	01	-9.88761E	01

## ELECTRON RADIAL FUNCTIONS

 $Z = 10$  $A = 20$  $\rho = 1.2 A^{1/3} F$ 

Electron

$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
30.10	2.26424E-03	-2.77436E 00	-1.92559E-01	2.09915E 01	-1.89337E-01	2.86780E 00	-4.64234E-02
30.20	2.27929E-03	-2.79277E 00	-1.94313E-01	2.09925E 01	-1.91064E-01	2.88651E 00	-4.64252E-02
30.30	2.29439E-03	-2.81124E 00	-1.96077E-01	2.09934E 01	-1.92801E-01	2.90528E 00	-4.64270E-02
30.40	2.30953E-03	-2.82977E 00	-1.97851E-01	2.09944E 01	-1.94549E-01	2.92412E 00	-4.64289E-02
30.50	2.32473E-03	-2.84836E 00	-1.99636E-01	2.09953E 01	-1.96307E-01	2.94301E 00	-4.64307E-02
30.60	2.33998E-03	-2.86701E 00	-2.01432E-01	2.09963E 01	-1.98076E-01	2.96195E 00	-4.64325E-02
30.70	2.35527E-03	-2.88571E 00	-2.03237E-01	2.09972E 01	-1.99855E-01	2.98096E 00	-4.64343E-02
30.80	2.37062E-03	-2.90448E 00	-2.05054E-01	2.09981E 01	-2.01644E-01	3.00003E 00	-4.64360E-02
30.90	2.38602E-03	-2.92330E 00	-2.06881E-01	2.09990E 01	-2.03444E-01	3.01916E 00	-4.64378E-02
31.00	2.40146E-03	-2.94218E 00	-2.08719E-01	2.09999E 01	-2.05254E-01	3.03834E 00	-4.64396E-02
31.10	2.41696E-03	-2.96112E 00	-2.10567E-01	2.10008E 01	-2.07075E-01	3.05759E 00	-4.64413E-02
31.20	2.43250E-03	-2.98013E 00	-2.12426E-01	2.10017E 01	-2.08906E-01	3.07689E 00	-4.64430E-02
31.30	2.44810E-03	-2.99919E 00	-2.14296E-01	2.10026E 01	-2.10749E-01	3.09625E 00	-4.64448E-02
31.40	2.46374E-03	-3.01830E 00	-2.16176E-01	2.10035E 01	-2.12601E-01	3.11567E 00	-4.64465E-02
31.50	2.47944E-03	-3.03748E 00	-2.18068E-01	2.10044E 01	-2.14465E-01	3.13515E 00	-4.64482E-02
31.60	2.49518E-03	-3.05672E 00	-2.19970E-01	2.10053E 01	-2.16339E-01	3.15469E 00	-4.64499E-02
31.70	2.51098E-03	-3.07601E 00	-2.21883E-01	2.10061E 01	-2.18224E-01	3.17429E 00	-4.64516E-02
31.80	2.52682E-03	-3.09537E 00	-2.23806E-01	2.10070E 01	-2.20119E-01	3.19394E 00	-4.64532E-02
31.90	2.54272E-03	-3.11478E 00	-2.25741E-01	2.10078E 01	-2.22026E-01	3.21365E 00	-4.64549E-02
32.00	2.55866E-03	-3.13425E 00	-2.27686E-01	2.10087E 01	-2.23943E-01	3.23343E 00	-4.64565E-02
32.10	2.57465E-03	-3.15378E 00	-2.29643E-01	2.10095E 01	-2.25871E-01	3.25326E 00	-4.64582E-02
32.20	2.59070E-03	-3.17337E 00	-2.31610E-01	2.10104E 01	-2.27810E-01	3.27315E 00	-4.64598E-02
32.30	2.60679E-03	-3.19302E 00	-2.33589E-01	2.10112E 01	-2.29760E-01	3.29310E 00	-4.64615E-02
32.40	2.62293E-03	-3.21272E 00	-2.35578E-01	2.10120E 01	-2.31720E-01	3.31311E 00	-4.64631E-02
32.50	2.63913E-03	-3.23249E 00	-2.37579E-01	2.10129E 01	-2.33692E-01	3.33317E 00	-4.64647E-02
32.60	2.65537E-03	-3.25231E 00	-2.39591E-01	2.10137E 01	-2.35675E-01	3.35330E 00	-4.64663E-02
32.70	2.67166E-03	-3.27219E 00	-2.41613E-01	2.10145E 01	-2.37668E-01	3.37348E 00	-4.64679E-02
32.80	2.68800E-03	-3.29213E 00	-2.43647E-01	2.10153E 01	-2.39673E-01	3.39372E 00	-4.64695E-02
32.90	2.70439E-03	-3.31213E 00	-2.45692E-01	2.10161E 01	-2.41689E-01	3.41402E 00	-4.64710E-02
33.00	2.72083E-03	-3.33219E 00	-2.47749E-01	2.10169E 01	-2.43716E-01	3.43438E 00	-4.64726E-02
33.10	2.73733E-03	-3.35230E 00	-2.49816E-01	2.10177E 01	-2.45754E-01	3.45479E 00	-4.64741E-02
33.20	2.75387E-03	-3.37248E 00	-2.51895E-01	2.10185E 01	-2.47803E-01	3.47527E 00	-4.64757E-02
33.30	2.77046E-03	-3.39271E 00	-2.53985E-01	2.10193E 01	-2.49863E-01	3.49580E 00	-4.64772E-02
33.40	2.78710E-03	-3.41300E 00	-2.56086E-01	2.10201E 01	-2.51935E-01	3.51639E 00	-4.64787E-02
33.50	2.80379E-03	-3.43335E 00	-2.58199E-01	2.10208E 01	-2.54018E-01	3.53704E 00	-4.64803E-02
33.60	2.82053E-03	-3.45376E 00	-2.60323E-01	2.10216E 01	-2.56112E-01	3.55775E 00	-4.64818E-02
33.70	2.83732E-03	-3.47422E 00	-2.62459E-01	2.10224E 01	-2.58217E-01	3.57852E 00	-4.64833E-02
33.80	2.85416E-03	-3.49475E 00	-2.64606E-01	2.10231E 01	-2.60334E-01	3.59934E 00	-4.64848E-02
33.90	2.87105E-03	-3.51533E 00	-2.66764E-01	2.10239E 01	-2.62462E-01	3.62023E 00	-4.64863E-02
34.00	2.88798E-03	-3.53597E 00	-2.68934E-01	2.10246E 01	-2.64602E-01	3.64117E 00	-4.64877E-02
34.10	2.90497E-03	-3.55667E 00	-2.71116E-01	2.10254E 01	-2.66753E-01	3.66217E 00	-4.64892E-02
34.20	2.92201E-03	-3.57743E 00	-2.73309E-01	2.10261E 01	-2.68915E-01	3.68323E 00	-4.64907E-02
34.30	2.93910E-03	-3.59824E 00	-2.75513E-01	2.10268E 01	-2.71089E-01	3.70434E 00	-4.64921E-02
34.40	2.95624E-03	-3.61912E 00	-2.77729E-01	2.10276E 01	-2.73274E-01	3.72552E 00	-4.64936E-02
34.50	2.97343E-03	-3.64005E 00	-2.79957E-01	2.10283E 01	-2.75471E-01	3.74675E 00	-4.64950E-02
34.60	2.99066E-03	-3.66104E 00	-2.82197E-01	2.10290E 01	-2.77680E-01	3.76804E 00	-4.64964E-02
34.70	3.00795E-03	-3.68209E 00	-2.84448E-01	2.10297E 01	-2.79900E-01	3.78939E 00	-4.64979E-02
34.80	3.02529E-03	-3.70320E 00	-2.86711E-01	2.10305E 01	-2.82132E-01	3.81079E 00	-4.64993E-02
34.90	3.04267E-03	-3.72436E 00	-2.88986E-01	2.10312E 01	-2.84375E-01	3.83226E 00	-4.65007E-02
35.00	3.06011E-03	-3.74558E 00	-2.91272E-01	2.10319E 01	-2.86630E-01	3.85378E 00	-4.65021E-02
35.10	3.07760E-03	-3.76686E 00	-2.93570E-01	2.10326E 01	-2.88897E-01	3.87536E 00	-4.65035E-02
35.20	3.09513E-03	-3.78820E 00	-2.95880E-01	2.10333E 01	-2.91175E-01	3.89700E 00	-4.65049E-02
35.30	3.11272E-03	-3.80960E 00	-2.98202E-01	2.10340E 01	-2.93465E-01	3.91869E 00	-4.65062E-02
35.40	3.13036E-03	-3.83105E 00	-3.00536E-01	2.10346E 01	-2.95767E-01	3.94045E 00	-4.65076E-02
35.50	3.14804E-03	-3.85257E 00	-3.02882E-01	2.10353E 01	-2.98081E-01	3.96226E 00	-4.65090E-02
35.60	3.16578E-03	-3.87414E 00	-3.05240E-01	2.10360E 01	-3.00407E-01	3.98413E 00	-4.65103E-02
35.70	3.18356E-03	-3.89576E 00	-3.07609E-01	2.10367E 01	-3.02744E-01	4.00606E 00	-4.65117E-02
35.80	3.20140E-03	-3.91745E 00	-3.09991E-01	2.10374E 01	-3.05094E-01	4.02804E 00	-4.65130E-02
35.90	3.21928E-03	-3.93919E 00	-3.12385E-01	2.10380E 01	-3.07455E-01	4.05008E 00	-4.65144E-02
36.00	3.23721E-03	-3.96100E 00	-3.14791E-01	2.10387E 01	-3.09829E-01	4.07218E 00	-4.65157E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z = 10$	$A = 20$	$\rho = 1.2 A^{1/3} F$					
$\rho$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
36.10	1.26632E 00	-3.85928E 01	-5.20857E 00	8.13037E-03	-5.12738E 00	3.96606E 01	-9.89488E 01	01
36.20	1.26630E 00	-3.86954E 01	-5.23364E 00	8.12864E-03	-5.15214E 00	3.97629E 01	-9.90217E 01	01
36.30	1.26628E 00	-3.87978E 01	-5.25876E 00	8.12686E-03	-5.17695E 00	3.98652E 01	-9.90948E 01	01
36.40	1.26626E 00	-3.89003E 01	-5.28394E 00	8.12507E-03	-5.20182E 00	3.99675E 01	-9.91678E 01	01
36.50	1.26624E 00	-3.90027E 01	-5.30917E 00	8.12325E-03	-5.22675E 00	4.00697E 01	-9.92410E 01	01
36.60	1.26623E 00	-3.91051E 01	-5.33446E 00	8.12140E-03	-5.25173E 00	4.01718E 01	-9.93143E 01	01
36.70	1.26621E 00	-3.92074E 01	-5.35981E 00	8.11952E-03	-5.27677E 00	4.02740E 01	-9.93876E 01	01
36.80	1.26619E 00	-3.93097E 01	-5.38521E 00	8.11763E-03	-5.30186E 00	4.03760E 01	-9.94609E 01	01
36.90	1.26617E 00	-3.94119E 01	-5.41066E 00	8.11569E-03	-5.32701E 00	4.04781E 01	-9.95345E 01	01
37.00	1.26615E 00	-3.95141E 01	-5.43617E 00	8.11374E-03	-5.35221E 00	4.05801E 01	-9.96080E 01	01
37.10	1.26613E 00	-3.96163E 01	-5.46174E 00	8.11176E-03	-5.37747E 00	4.06820E 01	-9.96816E 01	01
37.20	1.26611E 00	-3.97184E 01	-5.48736E 00	8.10976E-03	-5.40278E 00	4.07840E 01	-9.97553E 01	01
37.30	1.26609E 00	-3.98205E 01	-5.51304E 00	8.10772E-03	-5.42815E 00	4.08858E 01	-9.98292E 01	01
37.40	1.26608E 00	-3.99225E 01	-5.53877E 00	8.10567E-03	-5.45357E 00	4.09877E 01	-9.99030E 01	01
37.50	1.26606E 00	-4.00245E 01	-5.56455E 00	8.10358E-03	-5.47905E 00	4.10895E 01	-9.99770E 01	01
37.60	1.26604E 00	-4.01264E 01	-5.59040E 00	8.10146E-03	-5.50459E 00	4.11912E 01	-1.00051E 02	02
37.70	1.26602E 00	-4.02283E 01	-5.61629E 00	8.09933E-03	-5.53018E 00	4.12929E 01	-1.00125E 02	02
37.80	1.26600E 00	-4.03302E 01	-5.64225E 00	8.09717E-03	-5.55582E 00	4.13946E 01	-1.00200E 02	02
37.90	1.26598E 00	-4.04320E 01	-5.66825E 00	8.09499E-03	-5.58152E 00	4.14962E 01	-1.00274E 02	02
38.00	1.26596E 00	-4.05338E 01	-5.69432E 00	8.09277E-03	-5.60728E 00	4.15978E 01	-1.00348E 02	02
38.10	1.26595E 00	-4.06356E 01	-5.72043E 00	8.09053E-03	-5.63309E 00	4.16994E 01	-1.00423E 02	02
38.20	1.26593E 00	-4.07373E 01	-5.74660E 00	8.08827E-03	-5.65896E 00	4.18009E 01	-1.00498E 02	02
38.30	1.26591E 00	-4.08389E 01	-5.77283E 00	8.08599E-03	-5.68488E 00	4.19023E 01	-1.00572E 02	02
38.40	1.26589E 00	-4.09405E 01	-5.79911E 00	8.08368E-03	-5.71085E 00	4.20037E 01	-1.00647E 02	02
38.50	1.26587E 00	-4.10421E 01	-5.82545E 00	8.08133E-03	-5.73688E 00	4.21051E 01	-1.00722E 02	02
38.60	1.26586E 00	-4.11436E 01	-5.85184E 00	8.07897E-03	-5.76297E 00	4.22064E 01	-1.00797E 02	02
38.70	1.26584E 00	-4.12451E 01	-5.87829E 00	8.07659E-03	-5.78911E 00	4.23077E 01	-1.00872E 02	02
38.80	1.26582E 00	-4.13466E 01	-5.90479E 00	8.07418E-03	-5.81530E 00	4.24090E 01	-1.00948E 02	02
38.90	1.26580E 00	-4.14480E 01	-5.93135E 00	8.07174E-03	-5.84155E 00	4.25102E 01	-1.01023E 02	02
39.00	1.26578E 00	-4.15493E 01	-5.95796E 00	8.06928E-03	-5.86786E 00	4.26113E 01	-1.01098E 02	02
39.10	1.26577E 00	-4.16507E 01	-5.98463E 00	8.06680E-03	-5.89422E 00	4.27124E 01	-1.01174E 02	02
39.20	1.26575E 00	-4.17519E 01	-6.01135E 00	8.06429E-03	-5.92063E 00	4.28135E 01	-1.01250E 02	02
39.30	1.26573E 00	-4.18532E 01	-6.03812E 00	8.06176E-03	-5.94710E 00	4.29145E 01	-1.01326E 02	02
39.40	1.26571E 00	-4.19544E 01	-6.06495E 00	8.05920E-03	-5.97363E 00	4.30155E 01	-1.01401E 02	02
39.50	1.26570E 00	-4.20555E 01	-6.09184E 00	8.05663E-03	-6.00021E 00	4.31165E 01	-1.01477E 02	02
39.60	1.26568E 00	-4.21566E 01	-6.11878E 00	8.05401E-03	-6.02684E 00	4.32174E 01	-1.01554E 02	02
39.70	1.26566E 00	-4.22577E 01	-6.14577E 00	8.05138E-03	-6.05353E 00	4.33182E 01	-1.01630E 02	02
39.80	1.26564E 00	-4.23587E 01	-6.17282E 00	8.04874E-03	-6.08027E 00	4.34191E 01	-1.01706E 02	02
39.90	1.26563E 00	-4.24597E 01	-6.19992E 00	8.04608E-03	-6.10707E 00	4.35198E 01	-1.01783E 02	02
40.00	1.26561E 00	-4.25606E 01	-6.22708E 00	8.04337E-03	-6.13392E 00	4.36206E 01	-1.01859E 02	02
40.10	1.26559E 00	-4.26615E 01	-6.25429E 00	8.04066E-03	-6.16083E 00	4.37212E 01	-1.01936E 02	02
40.20	1.26558E 00	-4.27623E 01	-6.28156E 00	8.03792E-03	-6.18779E 00	4.38219E 01	-1.02013E 02	02
40.30	1.26556E 00	-4.28631E 01	-6.30888E 00	8.03514E-03	-6.21480E 00	4.39225E 01	-1.02090E 02	02
40.40	1.26554E 00	-4.29639E 01	-6.33626E 00	8.03236E-03	-6.24187E 00	4.40230E 01	-1.02167E 02	02
40.50	1.26552E 00	-4.30646E 01	-6.36369E 00	8.02955E-03	-6.26900E 00	4.41236E 01	-1.02244E 02	02
40.60	1.26551E 00	-4.31653E 01	-6.39117E 00	8.02672E-03	-6.29617E 00	4.42240E 01	-1.02321E 02	02
40.70	1.26549E 00	-4.32659E 01	-6.41871E 00	8.02386E-03	-6.32341E 00	4.43244E 01	-1.02399E 02	02
40.80	1.26547E 00	-4.33665E 01	-6.44630E 00	8.02097E-03	-6.35069E 00	4.44248E 01	-1.02476E 02	02
40.90	1.26546E 00	-4.34670E 01	-6.47394E 00	8.01807E-03	-6.37803E 00	4.45252E 01	-1.02554E 02	02
41.00	1.26544E 00	-4.35675E 01	-6.50165E 00	8.01515E-03	-6.40543E 00	4.46255E 01	-1.02632E 02	02
41.10	1.26542E 00	-4.36680E 01	-6.52940E 00	8.01220E-03	-6.43288E 00	4.47257E 01	-1.02710E 02	02
41.20	1.26541E 00	-4.37684E 01	-6.55721E 00	8.00923E-03	-6.46038E 00	4.48259E 01	-1.02788E 02	02
41.30	1.26539E 00	-4.38688E 01	-6.58507E 00	8.00625E-03	-6.48794E 00	4.49261E 01	-1.02866E 02	02
41.40	1.26537E 00	-4.39691E 01	-6.61299E 00	8.00322E-03	-6.51555E 00	4.50262E 01	-1.02945E 02	02
41.50	1.26536E 00	-4.40694E 01	-6.64096E 00	8.00019E-03	-6.54322E 00	4.51263E 01	-1.03023E 02	02
41.60	1.26534E 00	-4.41696E 01	-6.66898E 00	7.99712E-03	-6.57094E 00	4.52263E 01	-1.03102E 02	02
41.70	1.26532E 00	-4.42698E 01	-6.69706E 00	7.99405E-03	-6.59871E 00	4.53263E 01	-1.03181E 02	02
41.80	1.26531E 00	-4.43700E 01	-6.72520E 00	7.99094E-03	-6.62654E 00	4.54262E 01	-1.03260E 02	02
41.90	1.26529E 00	-4.44701E 01	-6.75338E 00	7.98782E-03	-6.65442E 00	4.55261E 01	-1.03339E 02	02
42.00	1.26527E 00	-4.45701E 01	-6.78162E 00	7.98468E-03	-6.68236E 00	4.56259E 01	-1.03418E 02	02

## ELECTRON RADIAL FUNCTIONS

			$Z = 10$	$A = 20$	$\rho = 1.2 A^{1/3} F$			Electron
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
36.10	3.25520E-03	-3.98286E 00	-3.17209E-01	2.10394E 01	-3.12214E-01	4.09434E 00	-4.65170E-02	
36.20	3.27323E-03	-4.00477E 00	-3.19639E-01	2.10400E 01	-3.14612E-01	4.11656E 00	-4.65183E-02	
36.30	3.29132E-03	-4.02675E 00	-3.22081E-01	2.10407E 01	-3.17021E-01	4.13883E 00	-4.65196E-02	
36.40	3.30945E-03	-4.04878E 00	-3.24535E-01	2.10413E 01	-3.19443E-01	4.16116E 00	-4.65209E-02	
36.50	3.32763E-03	-4.07087E 00	-3.27002E-01	2.10420E 01	-3.21876E-01	4.18355E 00	-4.65222E-02	
36.60	3.34586E-03	-4.09302E 00	-3.29481E-01	2.10426E 01	-3.24322E-01	4.20600E 00	-4.65235E-02	
36.70	3.36415E-03	-4.11522E 00	-3.31972E-01	2.10432E 01	-3.26780E-01	4.22850E 00	-4.65248E-02	
36.80	3.38248E-03	-4.13749E 00	-3.34475E-01	2.10439E 01	-3.29250E-01	4.25107E 00	-4.65261E-02	
36.90	3.40086E-03	-4.15981E 00	-3.36991E-01	2.10445E 01	-3.31732E-01	4.27368E 00	-4.65274E-02	
37.00	3.41929E-03	-4.18219E 00	-3.39519E-01	2.10451E 01	-3.34227E-01	4.29636E 00	-4.65286E-02	
37.10	3.43777E-03	-4.20462E 00	-3.42059E-01	2.10457E 01	-3.36734E-01	4.31910E 00	-4.65299E-02	
37.20	3.45631E-03	-4.22712E 00	-3.44612E-01	2.10464E 01	-3.39253E-01	4.34189E 00	-4.65311E-02	
37.30	3.47489E-03	-4.24967E 00	-3.47177E-01	2.10470E 01	-3.41784E-01	4.36474E 00	-4.65324E-02	
37.40	3.49352E-03	-4.27228E 00	-3.49755E-01	2.10476E 01	-3.44328E-01	4.38764E 00	-4.65336E-02	
37.50	3.51220E-03	-4.29494E 00	-3.52345E-01	2.10482E 01	-3.46885E-01	4.41061E 00	-4.65349E-02	
37.60	3.53093E-03	-4.31766E 00	-3.54948E-01	2.10488E 01	-3.49453E-01	4.43363E 00	-4.65361E-02	
37.70	3.54971E-03	-4.34045E 00	-3.57563E-01	2.10494E 01	-3.52034E-01	4.45670E 00	-4.65373E-02	
37.80	3.56854E-03	-4.36328E 00	-3.60191E-01	2.10500E 01	-3.54628E-01	4.47984E 00	-4.65385E-02	
37.90	3.58742E-03	-4.38618E 00	-3.62831E-01	2.10506E 01	-3.57234E-01	4.50303E 00	-4.65397E-02	
38.00	3.60635E-03	-4.40913E 00	-3.65485E-01	2.10512E 01	-3.59853E-01	4.52628E 00	-4.65409E-02	
38.10	3.62532E-03	-4.43214E 00	-3.68150E-01	2.10518E 01	-3.62484E-01	4.54959E 00	-4.65421E-02	
38.20	3.64435E-03	-4.45521E 00	-3.70829E-01	2.10524E 01	-3.65128E-01	4.57296E 00	-4.65433E-02	
38.30	3.66343E-03	-4.47833E 00	-3.73520E-01	2.10530E 01	-3.67784E-01	4.59638E 00	-4.65445E-02	
38.40	3.68256E-03	-4.50151E 00	-3.76224E-01	2.10535E 01	-3.70453E-01	4.61986E 00	-4.65457E-02	
38.50	3.70174E-03	-4.52475E 00	-3.78940E-01	2.10541E 01	-3.73135E-01	4.64339E 00	-4.65469E-02	
38.60	3.72096E-03	-4.54805E 00	-3.81670E-01	2.10547E 01	-3.75829E-01	4.66698E 00	-4.65480E-02	
38.70	3.74024E-03	-4.57140E 00	-3.84412E-01	2.10553E 01	-3.78536E-01	4.69064E 00	-4.65492E-02	
38.80	3.75957E-03	-4.59481E 00	-3.87167E-01	2.10558E 01	-3.81256E-01	4.71434E 00	-4.65504E-02	
38.90	3.77895E-03	-4.61828E 00	-3.89935E-01	2.10564E 01	-3.83989E-01	4.73811E 00	-4.65515E-02	
39.00	3.79837E-03	-4.64181E 00	-3.92716E-01	2.10569E 01	-3.86734E-01	4.76193E 00	-4.65527E-02	
39.10	3.81785E-03	-4.66539E 00	-3.95510E-01	2.10575E 01	-3.89493E-01	4.78581E 00	-4.65538E-02	
39.20	3.83738E-03	-4.68903E 00	-3.98317E-01	2.10581E 01	-3.92264E-01	4.80974E 00	-4.65549E-02	
39.30	3.85695E-03	-4.71272E 00	-4.01137E-01	2.10586E 01	-3.95048E-01	4.83373E 00	-4.65561E-02	
39.40	3.87658E-03	-4.73647E 00	-4.03970E-01	2.10592E 01	-3.97845E-01	4.85778E 00	-4.65572E-02	
39.50	3.89625E-03	-4.76028E 00	-4.06816E-01	2.10597E 01	-4.00655E-01	4.88189E 00	-4.65583E-02	
39.60	3.91598E-03	-4.78415E 00	-4.09675E-01	2.10602E 01	-4.03478E-01	4.90605E 00	-4.65594E-02	
39.70	3.93575E-03	-4.80807E 00	-4.12547E-01	2.10608E 01	-4.06314E-01	4.93027E 00	-4.65606E-02	
39.80	3.95558E-03	-4.83205E 00	-4.15432E-01	2.10613E 01	-4.09163E-01	4.95455E 00	-4.65617E-02	
39.90	3.97545E-03	-4.85609E 00	-4.18331E-01	2.10618E 01	-4.12025E-01	4.97888E 00	-4.65628E-02	
40.00	3.99538E-03	-4.88018E 00	-4.21242E-01	2.10624E 01	-4.14900E-01	5.00327E 00	-4.65639E-02	
40.10	4.01535E-03	-4.90433E 00	-4.24167E-01	2.10629E 01	-4.17788E-01	5.02771E 00	-4.65649E-02	
40.20	4.03537E-03	-4.92854E 00	-4.27105E-01	2.10634E 01	-4.20690E-01	5.05222E 00	-4.65660E-02	
40.30	4.05545E-03	-4.95280E 00	-4.30056E-01	2.10640E 01	-4.23604E-01	5.07678E 00	-4.65671E-02	
40.40	4.07557E-03	-4.97712E 00	-4.33021E-01	2.10645E 01	-4.26532E-01	5.10139E 00	-4.65682E-02	
40.50	4.09574E-03	-5.00150E 00	-4.35999E-01	2.10650E 01	-4.29473E-01	5.12607E 00	-4.65693E-02	
40.60	4.11596E-03	-5.02594E 00	-4.38990E-01	2.10655E 01	-4.32427E-01	5.15080E 00	-4.65703E-02	
40.70	4.13624E-03	-5.05043E 00	-4.41995E-01	2.10660E 01	-4.35395E-01	5.17558E 00	-4.65714E-02	
40.80	4.15656E-03	-5.07497E 00	-4.45013E-01	2.10665E 01	-4.38376E-01	5.20042E 00	-4.65725E-02	
40.90	4.17693E-03	-5.09958E 00	-4.48045E-01	2.10670E 01	-4.41370E-01	5.22532E 00	-4.65735E-02	
41.00	4.19735E-03	-5.12424E 00	-4.51090E-01	2.10675E 01	-4.44377E-01	5.25028E 00	-4.65746E-02	
41.10	4.21782E-03	-5.14895E 00	-4.54148E-01	2.10680E 01	-4.47398E-01	5.27529E 00	-4.65756E-02	
41.20	4.23834E-03	-5.17373E 00	-4.57220E-01	2.10685E 01	-4.50433E-01	5.30036E 00	-4.65766E-02	
41.30	4.25891E-03	-5.19856E 00	-4.60306E-01	2.10690E 01	-4.53481E-01	5.32548E 00	-4.65777E-02	
41.40	4.27953E-03	-5.22344E 00	-4.63405E-01	2.10695E 01	-4.56542E-01	5.35066E 00	-4.65787E-02	
41.50	4.30020E-03	-5.24839E 00	-4.66518E-01	2.10700E 01	-4.59617E-01	5.37590E 00	-4.65797E-02	
41.60	4.32092E-03	-5.27338E 00	-4.69645E-01	2.10705E 01	-4.62705E-01	5.40120E 00	-4.65808E-02	
41.70	4.34169E-03	-5.29844E 00	-4.72785E-01	2.10710E 01	-4.65807E-01	5.42655E 00	-4.65818E-02	
41.80	4.36251E-03	-5.32355E 00	-4.75938E-01	2.10715E 01	-4.68923E-01	5.45195E 00	-4.65828E-02	
41.90	4.38338E-03	-5.34872E 00	-4.79106E-01	2.10719E 01	-4.72052E-01	5.47741E 00	-4.65838E-02	
42.00	4.40430E-03	-5.37394E 00	-4.82287E-01	2.10724E 01	-4.75195E-01	5.50293E 00	-4.65848E-02	



ELECTRON RADIAL FUNCTIONS

Positron	$Z=1$	$A=1$	$\rho=1.2A^{1/3}F$				
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
0.10	7.87646E-01	5.65969E-03	-4.76575E-06	3.09096E-02	3.65261E-04	1.25357E-01	2.38230E 01
0.20	8.88084E-01	2.56318E-02	-2.11899E-05	1.54211E-02	7.68815E-04	2.65254E-01	4.74895E 01
0.30	9.22765E-01	5.85151E-02	-4.69062E-05	1.02480E-02	1.15863E-03	4.03239E-01	7.10461E 01
0.40	9.39961E-01	1.03013E-01	-7.90544E-05	7.64988E-03	1.52903E-03	5.38557E-01	9.43946E 01
0.50	9.50027E-01	1.57604E-01	-1.14256E-04	6.08220E-03	1.87597E-03	6.70790E-01	1.17464E 02
0.60	9.56510E-01	2.20723E-01	-1.49003E-04	5.03042E-03	2.19681E-03	7.99779E-01	1.40200E 02
0.70	9.60956E-01	2.90890E-01	-1.79960E-04	4.27409E-03	2.49009E-03	9.25561E-01	1.62561E 02
0.80	9.64145E-01	3.66782E-01	-2.04126E-04	3.70299E-03	2.75520E-03	1.04831E 00	1.84518E 02
0.90	9.66511E-01	4.47272E-01	-2.18928E-04	3.25581E-03	2.99215E-03	1.16827E 00	2.06053E 02
1.00	9.68314E-01	5.31426E-01	-2.22217E-04	2.89576E-03	3.20131E-03	1.28574E 00	2.27152E 02
1.10	9.69718E-01	6.18482E-01	-2.12241E-04	2.59937E-03	3.38321E-03	1.40099E 00	2.47813E 02
1.20	9.70831E-01	7.07835E-01	-1.87588E-04	2.35094E-03	3.53853E-03	1.51431E 00	2.68034E 02
1.30	9.71728E-01	7.98981E-01	-1.47129E-04	2.13959E-03	3.66790E-03	1.62595E 00	2.87818E 02
1.40	9.72461E-01	8.91563E-01	-8.99781E-05	1.95752E-03	3.77195E-03	1.73613E 00	3.07172E 02
1.50	9.73066E-01	9.85253E-01	-1.54292E-05	1.79899E-03	3.85127E-03	1.84504E 00	3.26102E 02
1.60	9.73571E-01	1.07980E 00	7.70680E-05	1.65968E-03	3.90636E-03	1.95286E 00	3.44618E 02
1.70	9.73998E-01	1.17496E 00	1.87936E-04	1.53626E-03	3.93769E-03	2.05973E 00	3.62729E 02
1.80	9.74361E-01	1.27054E 00	3.17483E-04	1.42615E-03	3.94566E-03	2.16578E 00	3.80445E 02
1.90	9.74671E-01	1.36625E 00	4.65891E-04	1.32729E-03	3.93061E-03	2.27111E 00	3.97776E 02
2.00	9.74939E-01	1.46169E 00	6.33154E-04	1.23803E-03	3.89285E-03	2.37581E 00	4.14733E 02
2.10	9.75173E-01	1.55582E 00	8.18766E-04	1.15703E-03	3.83264E-03	2.47997E 00	4.31326E 02
2.20	9.75376E-01	1.64436E 00	1.01980E-03	1.08319E-03	3.75022E-03	2.58364E 00	4.47566E 02
2.30	9.75554E-01	1.61807E 00	1.15666E-03	1.01560E-03	3.64576E-03	2.68690E 00	4.63462E 02
2.40	9.75712E-01	1.88819E 00	1.52971E-03	9.53491E-04	3.51946E-03	2.78978E 00	4.79025E 02
2.50	9.75852E-01	1.97152E 00	1.78629E-03	8.96225E-04	3.37145E-03	2.89232E 00	4.94264E 02
2.60	9.75977E-01	2.06555E 00	2.07067E-03	8.43252E-04	3.20186E-03	2.99457E 00	5.09189E 02
2.70	9.76088E-01	2.16201E 00	2.37689E-03	7.94106E-04	3.01082E-03	3.09656E 00	5.23809E 02
2.80	9.76189E-01	2.25943E 00	2.70395E-03	7.48389E-04	2.79841E-03	3.19832E 00	5.38132E 02
2.90	9.76279E-01	2.35735E 00	3.05154E-03	7.05749E-04	2.56472E-03	3.29986E 00	5.52168E 02
3.00	9.76360E-01	2.45557E 00	3.41958E-03	6.65888E-04	2.30983E-03	3.40121E 00	5.65924E 02
3.10	9.76434E-01	2.55399E 00	3.80802E-03	6.28542E-04	2.03381E-03	3.50240E 00	5.79410E 02
3.20	9.76502E-01	2.65255E 00	4.21686E-03	5.93479E-04	1.73672E-03	3.60342E 00	5.92631E 02
3.30	9.76563E-01	2.75122E 00	4.64610E-03	5.60496E-04	1.41860E-03	3.70431E 00	6.05597E 02
3.40	9.76619E-01	2.84996E 00	5.09573E-03	5.29413E-04	1.07951E-03	3.80507E 00	6.18313E 02
3.50	9.76670E-01	2.94877E 00	5.56577E-03	5.00070E-04	7.19489E-04	3.90571E 00	6.30788E 02
3.60	9.76717E-01	3.04762E 00	6.05622E-03	4.72326E-04	3.38569E-04	4.00625E 00	6.43028E 02
3.70	9.76761E-01	3.14652E 00	6.56709E-03	4.46052E-04	-6.32124E-05	4.10669E 00	6.55038E 02
3.80	9.76801E-01	3.24545E 00	7.09839E-03	4.21135E-04	-4.85827E-04	4.20704E 00	6.66827E 02
3.90	9.76838E-01	3.34440E 00	7.65012E-03	3.97475E-04	-9.29248E-04	4.30731E 00	6.78400E 02
4.00	9.76872E-01	3.44338E 00	8.22230E-03	3.74973E-04	-1.39345E-03	4.40751E 00	6.89762E 02
4.10	9.76904E-01	3.54237E 00	8.81492E-03	3.53551E-04	-1.87841E-03	4.50763E 00	7.00919E 02
4.20	9.76933E-01	3.64138E 00	9.42799E-03	3.33132E-04	-2.38412E-03	4.60769E 00	7.11877E 02
4.30	9.76961E-01	3.74040E 00	1.00615E-02	3.13645E-04	-2.91054E-03	4.70770E 00	7.22641E 02
4.40	9.76986E-01	3.83943E 00	1.07155E-02	2.95032E-04	-3.45768E-03	4.80764E 00	7.33217E 02
4.50	9.77010E-01	3.93847E 00	1.13900E-02	2.77231E-04	-4.02550E-03	4.90754E 00	7.43608E 02
4.60	9.77032E-01	4.03752E 00	1.20849E-02	2.60192E-04	-4.61401E-03	5.00739E 00	7.53819E 02
4.70	9.77053E-01	4.13657E 00	1.28003E-02	2.43868E-04	-5.22318E-03	5.10720E 00	7.63857E 02
4.80	9.77072E-01	4.23562E 00	1.35361E-02	2.28214E-04	-5.85301E-03	5.20697E 00	7.73723E 02
4.90	9.77091E-01	4.33468E 00	1.42925E-02	2.13188E-04	-6.50348E-03	5.30669E 00	7.83424E 02
5.00	9.77108E-01	4.43375E 00	1.50693E-02	1.98756E-04	-7.17459E-03	5.40639E 00	7.92963E 02
5.10	9.77124E-01	4.53281E 00	1.58666E-02	1.84881E-04	-7.86633E-03	5.50605E 00	8.02345E 02
5.20	9.77139E-01	4.63188E 00	1.66843E-02	1.71532E-04	-8.57869E-03	5.60568E 00	8.11572E 02
5.30	9.77154E-01	4.73095E 00	1.75226E-02	1.58681E-04	-9.31166E-03	5.70528E 00	8.20650E 02
5.40	9.77167E-01	4.83002E 00	1.83813E-02	1.46299E-04	-1.00652E-02	5.80485E 00	8.29581E 02
5.50	9.77180E-01	4.92909E 00	1.92606E-02	1.34362E-04	-1.08394E-02	5.90440E 00	8.38368E 02
5.60	9.77192E-01	5.02816E 00	2.01603E-02	1.22845E-04	-1.16342E-02	6.00392E 00	8.47017E 02
5.70	9.77204E-01	5.12723E 00	2.10805E-02	1.11729E-04	-1.24496E-02	6.10342E 00	8.55529E 02
5.80	9.77215E-01	5.22630E 00	2.20212E-02	1.00990E-04	-1.32855E-02	6.20290E 00	8.63909E 02
5.90	9.77225E-01	5.32537E 00	2.29824E-02	9.06109E-05	-1.41420E-02	6.30236E 00	8.72158E 02
6.00	9.77235E-01	5.42444E 00	2.39641E-02	8.05744E-05	-1.50191E-02	6.40180E 00	8.80280E 02

## ELECTRON RADIAL FUNCTIONS

 $Z = 1$  $A = 1$  $\rho = 1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	2.12366E-09	9.47394E-08	-3.99642E-11	-1.47613E 01	2.16734E-08	1.30182E-05	3.11563E-02
0.20	9.53997E-09	4.24042E-06	-1.74970E-09	-2.92348E 01	9.10334E-08	5.49836E-05	1.59402E-02
0.30	2.22869E-08	1.64741E-05	-6.54956E-09	-4.30977E 01	2.05621E-07	1.25333E-04	1.10294E-02
0.40	4.03494E-08	4.02355E-05	-1.51710E-08	-5.61419E 01	3.61539E-07	2.23162E-04	8.68261E-03
0.50	6.37139E-08	7.83024E-05	-2.75290E-08	-6.82290E 01	5.54001E-07	3.47424E-04	7.35324E-03
0.60	9.23685E-08	1.32781E-04	-4.27082E-08	-7.92920E 01	7.77736E-07	4.97062E-04	6.52560E-03
0.70	1.26304E-07	2.05174E-04	-5.90475E-08	-8.93233E 01	1.02732E-06	6.71096E-04	5.97870E-03
0.80	1.65512E-07	2.96464E-04	-7.42703E-08	-9.83586E 01	1.29740E-06	8.68671E-04	5.60231E-03
0.90	2.09987E-07	4.07215E-04	-8.56315E-08	-1.06462E 02	1.58277E-06	1.08908E-03	5.35559E-03
1.00	2.59725E-07	5.37623E-04	-9.00487E-08	-1.13712E 02	1.87845E-06	1.33175E-03	5.14240E-03
1.10	3.14720E-07	6.87505E-04	-8.42199E-08	-1.20192E 02	2.17969E-06	1.59623E-03	5.00016E-03
1.20	3.74971E-07	8.56159E-04	-6.47359E-08	-1.25986E 02	2.48191E-06	1.88218E-03	4.89410E-03
1.30	4.40475E-07	1.04170E-03	-2.82191E-08	-1.31173E 02	2.78071E-06	2.18934E-03	4.81428E-03
1.40	5.11231E-07	1.23966E-03	2.83197E-08	-1.35824E 02	3.07181E-06	2.51751E-03	4.75384E-03
1.50	5.87237E-07	1.43352E-03	1.06083E-07	-1.40003E 02	3.35104E-06	2.86654E-03	4.70789E-03
1.60	6.68492E-07	1.49586E-03	1.88810E-07	-1.43769E 02	3.61431E-06	3.23631E-03	4.67293E-03
1.70	7.54994E-07	2.54928E-03	4.57259E-07	-1.47170E 02	3.85760E-06	3.62675E-03	4.64640E-03
1.80	8.46744E-07	2.52632E-03	5.89456E-07	-1.50251E 02	4.07693E-06	4.03778E-03	4.62637E-03
1.90	9.43741E-07	2.79426E-03	8.04740E-07	-1.53049E 02	4.26836E-06	4.46938E-03	4.61141E-03
2.00	1.04598E-06	3.11538E-03	1.06950E-06	-1.55598E 02	4.42798E-06	4.92149E-03	4.60044E-03
2.10	1.15347E-06	3.46767E-03	1.38413E-06	-1.57927E 02	4.55190E-06	5.39410E-03	4.59261E-03
2.20	1.26621E-06	3.84537E-03	1.75159E-06	-1.60059E 02	4.63625E-06	5.88718E-03	4.58726E-03
2.30	1.38419E-06	4.24632E-03	2.17538E-06	-1.62017E 02	4.67717E-06	6.40073E-03	4.58389E-03
2.40	1.50741E-06	4.66947E-03	2.65919E-06	-1.63820E 02	4.67080E-06	6.93474E-03	4.58210E-03
2.50	1.63588E-06	5.11430E-03	3.20680E-06	-1.65484E 02	4.61331E-06	7.48920E-03	4.58158E-03
2.60	1.76960E-06	5.58048E-03	3.82200E-06	-1.67023E 02	4.50086E-06	8.06410E-03	4.58206E-03
2.70	1.90856E-06	6.06781E-03	4.50859E-06	-1.68449E 02	4.32962E-06	8.65944E-03	4.58335E-03
2.80	2.05276E-06	6.57616E-03	5.27041E-06	-1.69775E 02	4.09575E-06	9.27523E-03	4.58528E-03
2.90	2.20221E-06	7.10542E-03	6.11127E-06	-1.71009E 02	3.79544E-06	9.91145E-03	4.58772E-03
3.00	2.35690E-06	7.65552E-03	7.03502E-06	-1.72161E 02	3.42486E-06	1.05681E-02	4.59057E-03
3.10	2.51684E-06	8.22641E-03	8.04546E-06	-1.73237E 02	2.98018E-06	1.12452E-02	4.59374E-03
3.20	2.68202E-06	8.81805E-03	9.14645E-06	-1.74245E 02	2.45759E-06	1.19428E-02	4.59715E-03
3.30	2.85245E-06	9.43040E-03	1.03418E-05	-1.75190E 02	1.85326E-06	1.26607E-02	4.60075E-03
3.40	3.02811E-06	1.00634E-02	1.16353E-05	-1.76078E 02	1.16338E-06	1.33992E-02	4.60449E-03
3.50	3.20903E-06	1.07172E-02	1.30309E-05	-1.76914E 02	3.84123E-07	1.41580E-02	4.60833E-03
3.60	3.39519E-06	1.13915E-02	1.45323E-05	-1.77702E 02	-4.88324E-07	1.49374E-02	4.61225E-03
3.70	3.58659E-06	1.20865E-02	1.61434E-05	-1.78446E 02	-1.45778E-06	1.57371E-02	4.61620E-03
3.80	3.78324E-06	1.28021E-02	1.78680E-05	-1.79148E 02	-2.52806E-06	1.65573E-02	4.62018E-03
3.90	3.98513E-06	1.35383E-02	1.97099E-05	-1.79814E 02	-3.70299E-06	1.73980E-02	4.62416E-03
4.00	4.19226E-06	1.42951E-02	2.16729E-05	-1.80444E 02	-4.98639E-06	1.82591E-02	4.62813E-03
4.10	4.40464E-06	1.50724E-02	2.37610E-05	-1.81042E 02	-6.38206E-06	1.91407E-02	4.63207E-03
4.20	4.62226E-06	1.58704E-02	2.59778E-05	-1.81610E 02	-7.89383E-06	2.00427E-02	4.63599E-03
4.30	4.84513E-06	1.66889E-02	2.83273E-05	-1.82151E 02	-9.52552E-06	2.09652E-02	4.63986E-03
4.40	5.07324E-06	1.75280E-02	3.08132E-05	-1.82665E 02	-1.12809E-05	2.19081E-02	4.64369E-03
4.50	5.30659E-06	1.83876E-02	3.34394E-05	-1.83156E 02	-1.31639E-05	2.28715E-02	4.64747E-03
4.60	5.54519E-06	1.92678E-02	3.62097E-05	-1.83624E 02	-1.51782E-05	2.38554E-02	4.65119E-03
4.70	5.78903E-06	2.01686E-02	3.91280E-05	-1.84071E 02	-1.73278E-05	2.48597E-02	4.65485E-03
4.80	6.03812E-06	2.10899E-02	4.21980E-05	-1.84498E 02	-1.96163E-05	2.58844E-02	4.65846E-03
4.90	6.29245E-06	2.20317E-02	4.54235E-05	-1.84906E 02	-2.20476E-05	2.69297E-02	4.66200E-03
5.00	6.55202E-06	2.29940E-02	4.88084E-05	-1.85298E 02	-2.46256E-05	2.79954E-02	4.66547E-03
5.10	6.81684E-06	2.39769E-02	5.23566E-05	-1.85673E 02	-2.73541E-05	2.90815E-02	4.66889E-03
5.20	7.08690E-06	2.49804E-02	5.60718E-05	-1.86032E 02	-3.02368E-05	3.01881E-02	4.67224E-03
5.30	7.36221E-06	2.60043E-02	5.99579E-05	-1.86378E 02	-3.32776E-05	3.13152E-02	4.67553E-03
5.40	7.64276E-06	2.70488E-02	6.40186E-05	-1.86709E 02	-3.64803E-05	3.24628E-02	4.67875E-03
5.50	7.92855E-06	2.81138E-02	6.82579E-05	-1.87028E 02	-3.98488E-05	3.36308E-02	4.68191E-03
5.60	8.21959E-06	2.91994E-02	7.26795E-05	-1.87335E 02	-4.33868E-05	3.48193E-02	4.68500E-03
5.70	8.51587E-06	3.03054E-02	7.72872E-05	-1.87630E 02	-4.70981E-05	3.60282E-02	4.68804E-03
5.80	8.81739E-06	3.14319E-02	8.20849E-05	-1.87915E 02	-5.09866E-05	3.72577E-02	4.69101E-03
5.90	9.12416E-06	3.25790E-02	8.70764E-05	-1.88189E 02	-5.50562E-05	3.85075E-02	4.69393E-03
6.00	9.43617E-06	3.37466E-02	9.22655E-05	-1.88453E 02	-5.93105E-05	3.97779E-02	4.69678E-03



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=1 \quad A=1 \quad \rho=1.2 A^{1/3} F$							
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
6.10	9.77244E-01	5.52351E 00	2.49663E-02	7.08624E-05	-1.59168E-02	6.50123E 00	8.88278E 02	
6.20	9.77252E-01	5.62258E 00	2.59889E-02	6.14615E-05	-1.68351E-02	6.60063E 00	8.96156E 02	
6.30	9.77261E-01	5.72165E 00	2.70321E-02	5.23553E-05	-1.77739E-02	6.70003E 00	9.03915E 02	
6.40	9.77269E-01	5.82072E 00	2.80958E-02	4.35293E-05	-1.87333E-02	6.79940E 00	9.11558E 02	
6.50	9.77276E-01	5.91978E 00	2.91799E-02	3.49735E-05	-1.97132E-02	6.89876E 00	9.19088E 02	
6.60	9.77283E-01	6.01885E 00	3.02846E-02	2.66743E-05	-2.07137E-02	6.99811E 00	9.26508E 02	
6.70	9.77290E-01	6.11791E 00	3.14097E-02	1.86202E-05	-2.17348E-02	7.09745E 00	9.33819E 02	
6.80	9.77297E-01	6.21698E 00	3.25554E-02	1.07999E-05	-2.27764E-02	7.19678E 00	9.41024E 02	
6.90	9.77303E-01	6.31604E 00	3.37216E-02	3.20531E-06	-2.38386E-02	7.29609E 00	9.48126E 02	
7.00	9.77308E-01	6.41510E 00	3.49082E-02	-4.17325E-06	-2.49213E-02	7.39539E 00	9.55128E 02	
7.10	9.77314E-01	6.51417E 00	3.61154E-02	-1.13486E-05	-2.60245E-02	7.49469E 00	9.62028E 02	
7.20	9.77319E-01	6.61323E 00	3.73430E-02	-1.83252E-05	-2.71484E-02	7.59397E 00	9.68832E 02	
7.30	9.77324E-01	6.71229E 00	3.85912E-02	-2.51117E-05	-2.82927E-02	7.69324E 00	9.75542E 02	
7.40	9.77329E-01	6.81135E 00	3.98599E-02	-3.17168E-05	-2.94576E-02	7.79251E 00	9.82159E 02	
7.50	9.77334E-01	6.91041E 00	4.11491E-02	-3.81474E-05	-3.06431E-02	7.89177E 00	9.88684E 02	
7.60	9.77339E-01	7.00946E 00	4.24587E-02	-4.44099E-05	-3.18491E-02	7.99102E 00	9.95120E 02	
7.70	9.77343E-01	7.10852E 00	4.37889E-02	-5.05110E-05	-3.30756E-02	8.09026E 00	1.00147E 03	
7.80	9.77347E-01	7.20758E 00	4.51396E-02	-5.64563E-05	-3.43227E-02	8.18950E 00	1.00773E 03	
7.90	9.77351E-01	7.30664E 00	4.65108E-02	-6.22532E-05	-3.55903E-02	8.28873E 00	1.01391E 03	
8.00	9.77355E-01	7.40569E 00	4.79025E-02	-6.79042E-05	-3.68785E-02	8.38795E 00	1.02001E 03	
8.10	9.77358E-01	7.50475E 00	4.93148E-02	-7.34184E-05	-3.81872E-02	8.48717E 00	1.02603E 03	
8.20	9.77362E-01	7.60380E 00	5.07475E-02	-7.87984E-05	-3.95164E-02	8.58638E 00	1.03197E 03	
8.30	9.77365E-01	7.70286E 00	5.22007E-02	-8.40495E-05	-4.08662E-02	8.68559E 00	1.03783E 03	
8.40	9.77368E-01	7.80191E 00	5.36745E-02	-8.91762E-05	-4.22365E-02	8.78479E 00	1.04361E 03	
8.50	9.77372E-01	7.90097E 00	5.51687E-02	-9.41837E-05	-4.36273E-02	8.88399E 00	1.04932E 03	
8.60	9.77375E-01	8.00002E 00	5.66835E-02	-9.90756E-05	-4.50387E-02	8.98318E 00	1.05496E 03	
8.70	9.77377E-01	8.09907E 00	5.82188E-02	-1.03855E-04	-4.64706E-02	9.08237E 00	1.06053E 03	
8.80	9.77380E-01	8.19813E 00	5.97746E-02	-1.08525E-04	-4.79231E-02	9.18155E 00	1.06603E 03	
8.90	9.77383E-01	8.29718E 00	6.13509E-02	-1.13093E-04	-4.93961E-02	9.28073E 00	1.07145E 03	
9.00	9.77385E-01	8.39623E 00	6.29478E-02	-1.17558E-04	-5.08896E-02	9.37991E 00	1.07682E 03	
9.10	9.77388E-01	8.49528E 00	6.45651E-02	-1.21927E-04	-5.24037E-02	9.47908E 00	1.08211E 03	
9.20	9.77390E-01	8.59434E 00	6.62030E-02	-1.26199E-04	-5.39383E-02	9.57826E 00	1.08734E 03	
9.30	9.77392E-01	8.69339E 00	6.78614E-02	-1.30383E-04	-5.54935E-02	9.67742E 00	1.09250E 03	
9.40	9.77395E-01	8.79245E 00	6.95403E-02	-1.34475E-04	-5.70692E-02	9.77659E 00	1.09761E 03	
9.50	9.77397E-01	8.89150E 00	7.12397E-02	-1.38483E-04	-5.86654E-02	9.87575E 00	1.10265E 03	
9.60	9.77399E-01	8.99055E 00	7.29596E-02	-1.42407E-04	-6.02821E-02	9.97491E 00	1.10763E 03	
9.70	9.77401E-01	9.08961E 00	7.47001E-02	-1.46251E-04	-6.19194E-02	1.00741E 01	1.11255E 03	
9.80	9.77403E-01	9.18866E 00	7.64611E-02	-1.50016E-04	-6.35773E-02	1.01732E 01	1.11742E 03	
9.90	9.77404E-01	9.28772E 00	7.82426E-02	-1.53706E-04	-6.52556E-02	1.02724E 01	1.12223E 03	
10.00	9.77406E-01	9.38677E 00	8.00446E-02	-1.57322E-04	-6.69545E-02	1.03715E 01	1.12698E 03	
10.10	9.77408E-01	9.48583E 00	8.18671E-02	-1.60866E-04	-6.86740E-02	1.04707E 01	1.13167E 03	
10.20	9.77410E-01	9.58488E 00	8.37102E-02	-1.64342E-04	-7.04140E-02	1.05698E 01	1.13632E 03	
10.30	9.77411E-01	9.68394E 00	8.55738E-02	-1.67750E-04	-7.21745E-02	1.06690E 01	1.14090E 03	
10.40	9.77413E-01	9.78299E 00	8.74579E-02	-1.71091E-04	-7.39555E-02	1.07681E 01	1.14544E 03	
10.50	9.77414E-01	9.88205E 00	8.93626E-02	-1.74371E-04	-7.57571E-02	1.08673E 01	1.14993E 03	
10.60	9.77416E-01	9.98111E 00	9.12878E-02	-1.77588E-04	-7.75793E-02	1.09664E 01	1.15436E 03	
10.70	9.77417E-01	1.00802E 01	9.32335E-02	-1.80744E-04	-7.94220E-02	1.10655E 01	1.15875E 03	
10.80	9.77418E-01	1.01792E 01	9.51997E-02	-1.83843E-04	-8.12852E-02	1.11647E 01	1.16309E 03	
10.90	9.77419E-01	1.02783E 01	9.71865E-02	-1.86884E-04	-8.31689E-02	1.12638E 01	1.16737E 03	
11.00	9.77421E-01	1.03773E 01	9.91937E-02	-1.89870E-04	-8.50733E-02	1.13630E 01	1.17162E 03	
11.10	9.77422E-01	1.04764E 01	1.01222E-01	-1.92802E-04	-8.69981E-02	1.14621E 01	1.17581E 03	
11.20	9.77423E-01	1.05755E 01	1.03270E-01	-1.95683E-04	-8.89435E-02	1.15612E 01	1.17996E 03	
11.30	9.77424E-01	1.06745E 01	1.05339E-01	-1.98512E-04	-9.09094E-02	1.16604E 01	1.18407E 03	
11.40	9.77425E-01	1.07736E 01	1.07428E-01	-2.01290E-04	-9.28959E-02	1.17595E 01	1.18813E 03	
11.50	9.77426E-01	1.08727E 01	1.09538E-01	-2.04023E-04	-9.49029E-02	1.18587E 01	1.19215E 03	
11.60	9.77427E-01	1.09717E 01	1.11669E-01	-2.06706E-04	-9.69305E-02	1.19578E 01	1.19612E 03	
11.70	9.77428E-01	1.10708E 01	1.13820E-01	-2.09343E-04	-9.89786E-02	1.20569E 01	1.20006E 03	
11.80	9.77429E-01	1.11699E 01	1.15991E-01	-2.11937E-04	-1.01047E-01	1.21561E 01	1.20395E 03	
11.90	9.77430E-01	1.12689E 01	1.18183E-01	-2.14485E-04	-1.03136E-01	1.22552E 01	1.20780E 03	
12.00	9.77431E-01	1.13680E 01	1.20396E-01	-2.16993E-04	-1.05246E-01	1.23543E 01	1.21162E 03	

## ELECTRON RADIAL FUNCTIONS

 $Z=1$  $A=1$  $\rho=1.2A^{1/3}F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	9.75343E-06	3.49347E-02	9.76561E-05	-1.88709E 02	-6.37535E-05	4.10687E-02	4.69958E-03
6.20	1.00759E-05	3.61433E-02	1.03252E-04	-1.88955E 02	-6.83890E-05	4.23800E-02	4.70232E-03
6.30	1.04037E-05	3.73725E-02	1.09057E-04	-1.89193E 02	-7.32207E-05	4.37118E-02	4.70500E-03
6.40	1.07367E-05	3.86221E-02	1.15075E-04	-1.89423E 02	-7.82525E-05	4.50640E-02	4.70763E-03
6.50	1.10749E-05	3.98922E-02	1.21309E-04	-1.89646E 02	-8.34882E-05	4.64367E-02	4.71021E-03
6.60	1.14184E-05	4.11829E-02	1.27764E-04	-1.89861E 02	-8.89316E-05	4.78299E-02	4.71273E-03
6.70	1.17671E-05	4.24941E-02	1.34444E-04	-1.90070E 02	-9.45866E-05	4.92435E-02	4.71521E-03
6.80	1.21210E-05	4.38257E-02	1.41351E-04	-1.90272E 02	-1.00457E-04	5.06776E-02	4.71763E-03
6.90	1.24803E-05	4.51779E-02	1.48491E-04	-1.90468E 02	-1.06546E-04	5.21322E-02	4.72001E-03
7.00	1.28447E-05	4.65506E-02	1.55866E-04	-1.90658E 02	-1.12859E-04	5.36073E-02	4.72234E-03
7.10	1.32144E-05	4.79437E-02	1.63481E-04	-1.90842E 02	-1.19398E-04	5.51028E-02	4.72462E-03
7.20	1.35893E-05	4.93574E-02	1.71340E-04	-1.91020E 02	-1.26168E-04	5.66188E-02	4.72686E-03
7.30	1.39695E-05	5.07916E-02	1.79445E-04	-1.91194E 02	-1.33173E-04	5.81553E-02	4.72906E-03
7.40	1.43549E-05	5.22463E-02	1.87802E-04	-1.91362E 02	-1.40415E-04	5.97123E-02	4.73121E-03
7.50	1.47456E-05	5.37214E-02	1.96414E-04	-1.91526E 02	-1.47900E-04	6.12897E-02	4.73332E-03
7.60	1.51415E-05	5.52171E-02	2.05285E-04	-1.91685E 02	-1.55631E-04	6.28876E-02	4.73539E-03
7.70	1.55427E-05	5.67333E-02	2.14418E-04	-1.91840E 02	-1.63611E-04	6.45059E-02	4.73742E-03
7.80	1.59491E-05	5.82699E-02	2.23818E-04	-1.91991E 02	-1.71845E-04	6.61448E-02	4.73941E-03
7.90	1.63607E-05	5.98271E-02	2.33487E-04	-1.92137E 02	-1.80336E-04	6.78041E-02	4.74136E-03
8.00	1.67776E-05	6.14048E-02	2.43431E-04	-1.92280E 02	-1.89089E-04	6.94839E-02	4.74328E-03
8.10	1.71997E-05	6.30029E-02	2.53653E-04	-1.92418E 02	-1.98106E-04	7.11841E-02	4.74516E-03
8.20	1.76271E-05	6.46216E-02	2.64156E-04	-1.92554E 02	-2.07393E-04	7.29048E-02	4.74701E-03
8.30	1.80597E-05	6.62607E-02	2.74945E-04	-1.92685E 02	-2.16952E-04	7.46460E-02	4.74882E-03
8.40	1.84976E-05	6.79203E-02	2.86023E-04	-1.92814E 02	-2.26787E-04	7.64077E-02	4.75060E-03
8.50	1.89407E-05	6.96005E-02	2.97394E-04	-1.92939E 02	-2.36903E-04	7.81899E-02	4.75235E-03
8.60	1.93891E-05	7.13011E-02	3.09062E-04	-1.93061E 02	-2.47302E-04	7.99925E-02	4.75406E-03
8.70	1.98426E-05	7.30222E-02	3.21031E-04	-1.93180E 02	-2.57990E-04	8.18156E-02	4.75575E-03
8.80	2.03015E-05	7.47638E-02	3.33304E-04	-1.93296E 02	-2.68969E-04	8.36591E-02	4.75740E-03
8.90	2.07656E-05	7.65259E-02	3.45886E-04	-1.93410E 02	-2.80244E-04	8.55232E-02	4.75903E-03
9.00	2.12349E-05	7.83085E-02	3.58780E-04	-1.93521E 02	-2.91818E-04	8.74077E-02	4.76062E-03
9.10	2.17095E-05	8.01116E-02	3.71991E-04	-1.93629E 02	-3.03696E-04	8.93127E-02	4.76219E-03
9.20	2.21893E-05	8.19352E-02	3.85521E-04	-1.93734E 02	-3.15880E-04	9.12381E-02	4.76374E-03
9.30	2.26743E-05	8.37793E-02	3.99374E-04	-1.93838E 02	-3.28375E-04	9.31841E-02	4.76525E-03
9.40	2.31646E-05	8.56438E-02	4.13555E-04	-1.93939E 02	-3.41185E-04	9.51505E-02	4.76674E-03
9.50	2.36602E-05	8.75289E-02	4.28068E-04	-1.94037E 02	-3.54314E-04	9.71374E-02	4.76821E-03
9.60	2.41610E-05	8.94344E-02	4.42916E-04	-1.94134E 02	-3.67764E-04	9.91447E-02	4.76964E-03
9.70	2.46670E-05	9.13605E-02	4.58102E-04	-1.94228E 02	-3.81541E-04	1.01173E-01	4.77106E-03
9.80	2.51783E-05	9.33070E-02	4.73632E-04	-1.94321E 02	-3.95647E-04	1.03221E-01	4.77245E-03
9.90	2.56948E-05	9.52740E-02	4.89508E-04	-1.94411E 02	-4.10088E-04	1.05290E-01	4.77382E-03
10.00	2.62165E-05	9.72615E-02	5.05734E-04	-1.94500E 02	-4.24866E-04	1.07379E-01	4.77517E-03
10.10	2.67435E-05	9.92695E-02	5.22315E-04	-1.94586E 02	-4.39985E-04	1.09489E-01	4.77649E-03
10.20	2.72758E-05	1.01298E-01	5.39254E-04	-1.94671E 02	-4.55449E-04	1.11619E-01	4.77780E-03
10.30	2.78133E-05	1.03347E-01	5.56554E-04	-1.94754E 02	-4.71262E-04	1.13769E-01	4.77908E-03
10.40	2.83560E-05	1.05416E-01	5.74221E-04	-1.94836E 02	-4.87429E-04	1.15941E-01	4.78034E-03
10.50	2.89040E-05	1.07506E-01	5.92256E-04	-1.94915E 02	-5.03951E-04	1.18132E-01	4.78158E-03
10.60	2.94572E-05	1.09617E-01	6.10666E-04	-1.94994E 02	-5.20834E-04	1.20344E-01	4.78281E-03
10.70	3.00157E-05	1.11748E-01	6.29452E-04	-1.95070E 02	-5.38082E-04	1.22577E-01	4.78401E-03
10.80	3.05794E-05	1.13899E-01	6.48619E-04	-1.95145E 02	-5.55697E-04	1.24830E-01	4.78520E-03
10.90	3.11484E-05	1.16071E-01	6.68171E-04	-1.95219E 02	-5.73685E-04	1.27103E-01	4.78636E-03
11.00	3.17226E-05	1.18263E-01	6.88112E-04	-1.95291E 02	-5.92048E-04	1.29397E-01	4.78751E-03
11.10	3.23020E-05	1.20476E-01	7.08445E-04	-1.95362E 02	-6.10791E-04	1.31712E-01	4.78865E-03
11.20	3.28867E-05	1.22709E-01	7.29174E-04	-1.95432E 02	-6.29917E-04	1.34047E-01	4.78976E-03
11.30	3.34766E-05	1.24963E-01	7.50304E-04	-1.95500E 02	-6.49430E-04	1.36402E-01	4.79086E-03
11.40	3.40718E-05	1.27238E-01	7.71837E-04	-1.95567E 02	-6.69334E-04	1.38778E-01	4.79194E-03
11.50	3.46722E-05	1.29532E-01	7.93778E-04	-1.95633E 02	-6.89633E-04	1.41174E-01	4.79300E-03
11.60	3.52779E-05	1.31848E-01	8.16131E-04	-1.95697E 02	-7.10331E-04	1.43591E-01	4.79406E-03
11.70	3.58888E-05	1.34183E-01	8.38899E-04	-1.95760E 02	-7.31431E-04	1.46028E-01	4.79509E-03
11.80	3.65049E-05	1.36540E-01	8.62085E-04	-1.95823E 02	-7.52937E-04	1.48486E-01	4.79611E-03
11.90	3.71263E-05	1.38916E-01	8.85696E-04	-1.95884E 02	-7.74853E-04	1.50964E-01	4.79712E-03
12.00	3.77529E-05	1.41314E-01	9.09732E-04	-1.95944E 02	-7.97183E-04	1.53463E-01	4.79811E-03



ELECTRON RADIAL FUNCTIONS

Positron	$Z=1$	$A=1$	$\rho = 1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	9.77432E-01	1.14671E 01	1.22629E-01	-2.19457E-04	-1.07377E-01	1.24535E 01	1.21539E 03	
12.20	9.77433E-01	1.15661E 01	1.24883E-01	-2.21882E-04	-1.09528E-01	1.25526E 01	1.21912E 03	
12.30	9.77434E-01	1.16652E 01	1.27157E-01	-2.24267E-04	-1.11699E-01	1.26517E 01	1.22282E 03	
12.40	9.77434E-01	1.17643E 01	1.29452E-01	-2.26614E-04	-1.13891E-01	1.27509E 01	1.22648E 03	
12.50	9.77435E-01	1.18634E 01	1.31767E-01	-2.28923E-04	-1.16103E-01	1.28500E 01	1.23010E 03	
12.60	9.77436E-01	1.19624E 01	1.34103E-01	-2.31194E-04	-1.18336E-01	1.29492E 01	1.23369E 03	
12.70	9.77436E-01	1.20615E 01	1.36460E-01	-2.33430E-04	-1.20590E-01	1.30483E 01	1.23724E 03	
12.80	9.77437E-01	1.21606E 01	1.38837E-01	-2.35631E-04	-1.22864E-01	1.31474E 01	1.24075E 03	
12.90	9.77438E-01	1.22597E 01	1.41234E-01	-2.37797E-04	-1.25159E-01	1.32466E 01	1.24423E 03	
13.00	9.77438E-01	1.23587E 01	1.43652E-01	-2.39929E-04	-1.27474E-01	1.33457E 01	1.24768E 03	
13.10	9.77439E-01	1.24578E 01	1.46091E-01	-2.42030E-04	-1.29810E-01	1.34449E 01	1.25109E 03	
13.20	9.77440E-01	1.25569E 01	1.48550E-01	-2.44098E-04	-1.32166E-01	1.35440E 01	1.25447E 03	
13.30	9.77440E-01	1.26560E 01	1.51030E-01	-2.46134E-04	-1.34543E-01	1.36431E 01	1.25782E 03	
13.40	9.77441E-01	1.27551E 01	1.53530E-01	-2.48141E-04	-1.36941E-01	1.37423E 01	1.26113E 03	
13.50	9.77441E-01	1.28542E 01	1.56051E-01	-2.50117E-04	-1.39359E-01	1.38414E 01	1.26442E 03	
13.60	9.77442E-01	1.29533E 01	1.58592E-01	-2.52063E-04	-1.41798E-01	1.39406E 01	1.26767E 03	
13.70	9.77442E-01	1.30523E 01	1.61154E-01	-2.53982E-04	-1.44257E-01	1.40397E 01	1.27089E 03	
13.80	9.77443E-01	1.31514E 01	1.63737E-01	-2.55873E-04	-1.46737E-01	1.41389E 01	1.27408E 03	
13.90	9.77443E-01	1.32505E 01	1.66340E-01	-2.57735E-04	-1.49237E-01	1.42380E 01	1.27725E 03	
14.00	9.77444E-01	1.33496E 01	1.68963E-01	-2.59571E-04	-1.51758E-01	1.43372E 01	1.28038E 03	
14.10	9.77444E-01	1.34487E 01	1.71608E-01	-2.61380E-04	-1.54299E-01	1.44363E 01	1.28348E 03	
14.20	9.77445E-01	1.35478E 01	1.74272E-01	-2.63165E-04	-1.56861E-01	1.45355E 01	1.28656E 03	
14.30	9.77445E-01	1.36469E 01	1.76958E-01	-2.64923E-04	-1.59444E-01	1.46346E 01	1.28961E 03	
14.40	9.77445E-01	1.37460E 01	1.79664E-01	-2.66658E-04	-1.62047E-01	1.47338E 01	1.29262E 03	
14.50	9.77446E-01	1.38451E 01	1.82390E-01	-2.68367E-04	-1.64671E-01	1.48329E 01	1.29562E 03	
14.60	9.77446E-01	1.39442E 01	1.85137E-01	-2.70053E-04	-1.67315E-01	1.49321E 01	1.29858E 03	
14.70	9.77446E-01	1.40433E 01	1.87905E-01	-2.71716E-04	-1.69980E-01	1.50312E 01	1.30152E 03	
14.80	9.77447E-01	1.41424E 01	1.90693E-01	-2.73356E-04	-1.72665E-01	1.51304E 01	1.30443E 03	
14.90	9.77447E-01	1.42416E 01	1.93501E-01	-2.74973E-04	-1.75371E-01	1.52296E 01	1.30732E 03	
15.00	9.77448E-01	1.43407E 01	1.96331E-01	-2.76570E-04	-1.78098E-01	1.53287E 01	1.31018E 03	
15.10	9.77448E-01	1.44398E 01	1.99180E-01	-2.78144E-04	-1.80845E-01	1.54279E 01	1.31302E 03	
15.20	9.77448E-01	1.45389E 01	2.02051E-01	-2.79698E-04	-1.83613E-01	1.55271E 01	1.31583E 03	
15.30	9.77448E-01	1.46380E 01	2.04942E-01	-2.81231E-04	-1.86401E-01	1.56262E 01	1.31862E 03	
15.40	9.77449E-01	1.47371E 01	2.07853E-01	-2.82743E-04	-1.89210E-01	1.57254E 01	1.32138E 03	
15.50	9.77449E-01	1.48363E 01	2.10785E-01	-2.84236E-04	-1.92039E-01	1.58246E 01	1.32412E 03	
15.60	9.77449E-01	1.49354E 01	2.13738E-01	-2.85710E-04	-1.94890E-01	1.59237E 01	1.32684E 03	
15.70	9.77449E-01	1.50345E 01	2.16711E-01	-2.87164E-04	-1.97760E-01	1.60229E 01	1.32953E 03	
15.80	9.77450E-01	1.51336E 01	2.19705E-01	-2.88599E-04	-2.00651E-01	1.61221E 01	1.33220E 03	
15.90	9.77450E-01	1.52328E 01	2.22720E-01	-2.90016E-04	-2.03563E-01	1.62213E 01	1.33485E 03	
16.00	9.77450E-01	1.53319E 01	2.25755E-01	-2.91415E-04	-2.06496E-01	1.63204E 01	1.33747E 03	
16.10	9.77450E-01	1.54310E 01	2.28810E-01	-2.92797E-04	-2.09449E-01	1.64196E 01	1.34008E 03	
16.20	9.77451E-01	1.55302E 01	2.31886E-01	-2.94161E-04	-2.12422E-01	1.65188E 01	1.34266E 03	
16.30	9.77451E-01	1.56293E 01	2.34983E-01	-2.95508E-04	-2.15416E-01	1.66180E 01	1.34522E 03	
16.40	9.77451E-01	1.57284E 01	2.38100E-01	-2.96839E-04	-2.18431E-01	1.67172E 01	1.34776E 03	
16.50	9.77451E-01	1.58276E 01	2.41238E-01	-2.98153E-04	-2.21466E-01	1.68164E 01	1.35028E 03	
16.60	9.77451E-01	1.59267E 01	2.44397E-01	-2.99450E-04	-2.24522E-01	1.69156E 01	1.35278E 03	
16.70	9.77452E-01	1.60259E 01	2.47576E-01	-3.00732E-04	-2.27599E-01	1.70148E 01	1.35525E 03	
16.80	9.77452E-01	1.61250E 01	2.50776E-01	-3.01998E-04	-2.30696E-01	1.71139E 01	1.35772E 03	
16.90	9.77452E-01	1.62242E 01	2.53996E-01	-3.03249E-04	-2.33814E-01	1.72131E 01	1.36015E 03	
17.00	9.77452E-01	1.63233E 01	2.57237E-01	-3.04485E-04	-2.36952E-01	1.73123E 01	1.36257E 03	
17.10	9.77452E-01	1.64225E 01	2.60498E-01	-3.05706E-04	-2.40111E-01	1.74115E 01	1.36497E 03	
17.20	9.77452E-01	1.65216E 01	2.63780E-01	-3.06912E-04	-2.43290E-01	1.75107E 01	1.36735E 03	
17.30	9.77452E-01	1.66208E 01	2.67083E-01	-3.08105E-04	-2.46490E-01	1.76100E 01	1.36972E 03	
17.40	9.77453E-01	1.67199E 01	2.70406E-01	-3.09283E-04	-2.49711E-01	1.77092E 01	1.37206E 03	
17.50	9.77453E-01	1.68191E 01	2.73750E-01	-3.10446E-04	-2.52952E-01	1.78084E 01	1.37439E 03	
17.60	9.77453E-01	1.69183E 01	2.77114E-01	-3.11597E-04	-2.56214E-01	1.79076E 01	1.37670E 03	
17.70	9.77453E-01	1.70174E 01	2.80499E-01	-3.12735E-04	-2.59497E-01	1.80068E 01	1.37899E 03	
17.80	9.77453E-01	1.71166E 01	2.83905E-01	-3.13859E-04	-2.62800E-01	1.81060E 01	1.38126E 03	
17.90	9.77453E-01	1.72158E 01	2.87331E-01	-3.14970E-04	-2.66124E-01	1.82052E 01	1.38352E 03	
18.00	9.77453E-01	1.73150E 01	2.90778E-01	-3.16069E-04	-2.69468E-01	1.83045E 01	1.38576E 03	

## ELECTRON RADIAL FUNCTIONS

 $Z = 1$  $A = 1$  $\rho = 1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	3.83848E-05	1.43731E-01	9.34201E-04	-1.96003E 02	-8.19932E-04	1.55982E-01	4.79908E-03
12.20	3.90220E-05	1.46169E-01	9.59103E-04	-1.96061E 02	-8.43102E-04	1.58522E-01	4.80005E-03
12.30	3.96643E-05	1.48628E-01	9.84443E-04	-1.96118E 02	-8.66697E-04	1.61082E-01	4.80099E-03
12.40	4.03119E-05	1.51107E-01	1.01023E-03	-1.96174E 02	-8.90720E-04	1.63662E-01	4.80193E-03
12.50	4.09648E-05	1.53607E-01	1.03645E-03	-1.96229E 02	-9.15177E-04	1.66263E-01	4.80285E-03
12.60	4.16229E-05	1.56127E-01	1.06313E-03	-1.96283E 02	-9.40071E-04	1.68885E-01	4.80377E-03
12.70	4.22862E-05	1.58668E-01	1.09026E-03	-1.96337E 02	-9.65405E-04	1.71527E-01	4.80466E-03
12.80	4.29548E-05	1.61229E-01	1.11785E-03	-1.96389E 02	-9.91184E-04	1.74189E-01	4.80555E-03
12.90	4.36287E-05	1.63810E-01	1.14590E-03	-1.96441E 02	-1.01741E-03	1.76872E-01	4.80643E-03
13.00	4.43077E-05	1.66412E-01	1.17442E-03	-1.96491E 02	-1.04409E-03	1.79576E-01	4.80729E-03
13.10	4.49920E-05	1.69035E-01	1.20340E-03	-1.96541E 02	-1.07122E-03	1.82299E-01	4.80814E-03
13.20	4.56816E-05	1.71678E-01	1.23285E-03	-1.96590E 02	-1.09882E-03	1.85044E-01	4.80898E-03
13.30	4.63764E-05	1.74341E-01	1.26279E-03	-1.96639E 02	-1.12688E-03	1.87808E-01	4.80981E-03
13.40	4.70764E-05	1.77025E-01	1.29320E-03	-1.96686E 02	-1.15540E-03	1.90594E-01	4.81063E-03
13.50	4.77817E-05	1.79729E-01	1.32410E-03	-1.96733E 02	-1.18440E-03	1.93399E-01	4.81143E-03
13.60	4.84923E-05	1.82454E-01	1.35548E-03	-1.96779E 02	-1.21387E-03	1.96226E-01	4.81223E-03
13.70	4.92080E-05	1.85200E-01	1.38736E-03	-1.96825E 02	-1.24382E-03	1.99072E-01	4.81301E-03
13.80	4.99291E-05	1.87965E-01	1.41973E-03	-1.96869E 02	-1.27425E-03	2.01939E-01	4.81379E-03
13.90	5.06553E-05	1.90752E-01	1.45260E-03	-1.96913E 02	-1.30517E-03	2.04827E-01	4.81456E-03
14.00	5.13868E-05	1.93558E-01	1.48598E-03	-1.96957E 02	-1.33658E-03	2.07735E-01	4.81532E-03
14.10	5.21236E-05	1.96386E-01	1.51986E-03	-1.96999E 02	-1.36849E-03	2.10663E-01	4.81606E-03
14.20	5.28656E-05	1.99233E-01	1.55425E-03	-1.97042E 02	-1.40089E-03	2.13612E-01	4.81680E-03
14.30	5.36128E-05	2.02102E-01	1.58916E-03	-1.97083E 02	-1.43379E-03	2.16582E-01	4.81753E-03
14.40	5.43653E-05	2.04990E-01	1.62458E-03	-1.97124E 02	-1.46720E-03	2.19572E-01	4.81825E-03
14.50	5.51230E-05	2.07900E-01	1.66053E-03	-1.97164E 02	-1.50112E-03	2.22582E-01	4.81896E-03
14.60	5.58860E-05	2.10829E-01	1.69700E-03	-1.97204E 02	-1.53555E-03	2.25613E-01	4.81966E-03
14.70	5.66542E-05	2.13779E-01	1.73401E-03	-1.97243E 02	-1.57049E-03	2.28664E-01	4.82036E-03
14.80	5.74277E-05	2.16750E-01	1.77154E-03	-1.97282E 02	-1.60596E-03	2.31736E-01	4.82105E-03
14.90	5.82064E-05	2.19741E-01	1.80962E-03	-1.97320E 02	-1.64196E-03	2.34828E-01	4.82172E-03
15.00	5.89903E-05	2.22752E-01	1.84823E-03	-1.97357E 02	-1.67848E-03	2.37941E-01	4.82239E-03
15.10	5.97795E-05	2.25784E-01	1.88739E-03	-1.97394E 02	-1.71553E-03	2.41074E-01	4.82306E-03
15.20	6.05740E-05	2.28837E-01	1.92710E-03	-1.97431E 02	-1.75312E-03	2.44228E-01	4.82371E-03
15.30	6.13736E-05	2.31910E-01	1.96737E-03	-1.97467E 02	-1.79125E-03	2.47402E-01	4.82435E-03
15.40	6.21785E-05	2.35003E-01	2.00819E-03	-1.97502E 02	-1.82992E-03	2.50596E-01	4.82499E-03
15.50	6.29887E-05	2.38117E-01	2.04957E-03	-1.97537E 02	-1.86914E-03	2.53811E-01	4.82562E-03
15.60	6.38041E-05	2.41252E-01	2.09151E-03	-1.97572E 02	-1.90891E-03	2.57047E-01	4.82625E-03
15.70	6.46248E-05	2.44406E-01	2.13402E-03	-1.97606E 02	-1.94924E-03	2.60302E-01	4.82687E-03
15.80	6.54507E-05	2.47582E-01	2.17711E-03	-1.97640E 02	-1.99013E-03	2.63579E-01	4.82748E-03
15.90	6.62818E-05	2.50778E-01	2.22077E-03	-1.97673E 02	-2.03157E-03	2.66876E-01	4.82808E-03
16.00	6.71182E-05	2.53994E-01	2.26500E-03	-1.97706E 02	-2.07359E-03	2.70193E-01	4.82868E-03
16.10	6.79598E-05	2.57230E-01	2.30983E-03	-1.97738E 02	-2.11617E-03	2.73531E-01	4.82927E-03
16.20	6.88067E-05	2.60488E-01	2.35524E-03	-1.97770E 02	-2.15933E-03	2.76889E-01	4.82985E-03
16.30	6.96588E-05	2.63765E-01	2.40124E-03	-1.97801E 02	-2.20307E-03	2.80268E-01	4.83043E-03
16.40	7.05161E-05	2.67063E-01	2.44783E-03	-1.97832E 02	-2.24739E-03	2.83667E-01	4.83100E-03
16.50	7.13787E-05	2.70382E-01	2.49503E-03	-1.97863E 02	-2.29230E-03	2.87086E-01	4.83156E-03
16.60	7.22466E-05	2.73721E-01	2.54282E-03	-1.97893E 02	-2.33779E-03	2.90526E-01	4.83212E-03
16.70	7.31197E-05	2.77081E-01	2.59122E-03	-1.97923E 02	-2.38388E-03	2.93987E-01	4.83267E-03
16.80	7.39980E-05	2.80460E-01	2.64023E-03	-1.97953E 02	-2.43056E-03	2.97468E-01	4.83322E-03
16.90	7.48816E-05	2.83861E-01	2.68986E-03	-1.97982E 02	-2.47785E-03	3.00969E-01	4.83376E-03
17.00	7.57704E-05	2.87282E-01	2.74010E-03	-1.98011E 02	-2.52574E-03	3.04491E-01	4.83429E-03
17.10	7.66644E-05	2.90723E-01	2.79097E-03	-1.98040E 02	-2.57423E-03	3.08033E-01	4.83482E-03
17.20	7.75637E-05	2.94185E-01	2.84246E-03	-1.98068E 02	-2.62334E-03	3.11596E-01	4.83534E-03
17.30	7.84683E-05	2.97667E-01	2.89458E-03	-1.98096E 02	-2.67307E-03	3.15180E-01	4.83586E-03
17.40	7.93781E-05	3.01170E-01	2.94733E-03	-1.98123E 02	-2.72342E-03	3.18783E-01	4.83637E-03
17.50	8.02931E-05	3.04693E-01	3.00072E-03	-1.98150E 02	-2.77439E-03	3.22407E-01	4.83688E-03
17.60	8.12134E-05	3.08237E-01	3.05475E-03	-1.98177E 02	-2.82599E-03	3.26052E-01	4.83738E-03
17.70	8.21389E-05	3.11801E-01	3.10942E-03	-1.98204E 02	-2.87822E-03	3.29717E-01	4.83788E-03
17.80	8.30697E-05	3.15386E-01	3.16475E-03	-1.98230E 02	-2.93108E-03	3.33403E-01	4.83837E-03
17.90	8.40057E-05	3.18991E-01	3.22072E-03	-1.98256E 02	-2.98458E-03	3.37109E-01	4.83885E-03
18.00	8.49469E-05	3.22617E-01	3.27735E-03	-1.98281E 02	-3.03873E-03	3.40835E-01	4.83934E-03



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=1$	$A=1$	$\rho=1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	9.77453E-01	1.74141E 01	2.94246E-01	-3.17156E-04	-2.72833E-01	1.84037E 01	1.38798E 03	
18.20	9.77453E-01	1.75133E 01	2.97734E-01	-3.18230E-04	-2.76219E-01	1.85029E 01	1.39018E 03	
18.30	9.77454E-01	1.76125E 01	3.01242E-01	-3.19292E-04	-2.79625E-01	1.86021E 01	1.39237E 03	
18.40	9.77454E-01	1.77117E 01	3.04772E-01	-3.20342E-04	-2.83052E-01	1.87014E 01	1.39454E 03	
18.50	9.77454E-01	1.78109E 01	3.08322E-01	-3.21380E-04	-2.86499E-01	1.88006E 01	1.39670E 03	
18.60	9.77454E-01	1.79101E 01	3.11892E-01	-3.22406E-04	-2.89967E-01	1.88999E 01	1.39884E 03	
18.70	9.77454E-01	1.80093E 01	3.15483E-01	-3.23421E-04	-2.93456E-01	1.89991E 01	1.40096E 03	
18.80	9.77454E-01	1.81085E 01	3.19095E-01	-3.24426E-04	-2.96965E-01	1.90983E 01	1.40307E 03	
18.90	9.77454E-01	1.82077E 01	3.22727E-01	-3.25419E-04	-3.00495E-01	1.91976E 01	1.40516E 03	
19.00	9.77454E-01	1.83069E 01	3.26380E-01	-3.26401E-04	-3.04046E-01	1.92968E 01	1.40724E 03	
19.10	9.77454E-01	1.84061E 01	3.30054E-01	-3.27374E-04	-3.07617E-01	1.93961E 01	1.40931E 03	
19.20	9.77454E-01	1.85053E 01	3.33748E-01	-3.28334E-04	-3.11209E-01	1.94953E 01	1.41136E 03	
19.30	9.77454E-01	1.86045E 01	3.37463E-01	-3.29285E-04	-3.14821E-01	1.95946E 01	1.41339E 03	
19.40	9.77454E-01	1.87037E 01	3.41199E-01	-3.30226E-04	-3.18454E-01	1.96938E 01	1.41541E 03	
19.50	9.77454E-01	1.88029E 01	3.44955E-01	-3.31157E-04	-3.22108E-01	1.97931E 01	1.41741E 03	
19.60	9.77454E-01	1.89021E 01	3.48731E-01	-3.32078E-04	-3.25782E-01	1.98924E 01	1.41941E 03	
19.70	9.77454E-01	1.90013E 01	3.52529E-01	-3.32988E-04	-3.29477E-01	1.99916E 01	1.42138E 03	
19.80	9.77455E-01	1.91006E 01	3.56347E-01	-3.33891E-04	-3.33192E-01	2.00909E 01	1.42335E 03	
19.90	9.77455E-01	1.91998E 01	3.60185E-01	-3.34782E-04	-3.36929E-01	2.01902E 01	1.42530E 03	
20.00	9.77455E-01	1.92990E 01	3.64045E-01	-3.35665E-04	-3.40685E-01	2.02894E 01	1.42723E 03	
20.10	9.77455E-01	1.93982E 01	3.67924E-01	-3.36539E-04	-3.44463E-01	2.03887E 01	1.42916E 03	
20.20	9.77455E-01	1.94975E 01	3.71825E-01	-3.37405E-04	-3.48261E-01	2.04880E 01	1.43107E 03	
20.30	9.77455E-01	1.95967E 01	3.75746E-01	-3.38260E-04	-3.52080E-01	2.05873E 01	1.43296E 03	
20.40	9.77455E-01	1.96960E 01	3.79688E-01	-3.39107E-04	-3.55919E-01	2.06866E 01	1.43485E 03	
20.50	9.77455E-01	1.97952E 01	3.83650E-01	-3.39945E-04	-3.59779E-01	2.07858E 01	1.43672E 03	
20.60	9.77455E-01	1.98944E 01	3.87633E-01	-3.40775E-04	-3.63660E-01	2.08851E 01	1.43858E 03	
20.70	9.77455E-01	1.99937E 01	3.91637E-01	-3.41596E-04	-3.67561E-01	2.09844E 01	1.44043E 03	
20.80	9.77455E-01	2.00929E 01	3.95661E-01	-3.42409E-04	-3.71483E-01	2.10837E 01	1.44226E 03	
20.90	9.77455E-01	2.01922E 01	3.99707E-01	-3.43215E-04	-3.75426E-01	2.11830E 01	1.44408E 03	
21.00	9.77455E-01	2.02914E 01	4.03772E-01	-3.44012E-04	-3.79389E-01	2.12823E 01	1.44589E 03	
21.10	9.77455E-01	2.03907E 01	4.07858E-01	-3.44801E-04	-3.83373E-01	2.13816E 01	1.44769E 03	
21.20	9.77455E-01	2.04900E 01	4.11965E-01	-3.45582E-04	-3.87378E-01	2.14809E 01	1.44948E 03	
21.30	9.77455E-01	2.05892E 01	4.16093E-01	-3.46355E-04	-3.91403E-01	2.15803E 01	1.45125E 03	
21.40	9.77455E-01	2.06885E 01	4.20241E-01	-3.47121E-04	-3.95449E-01	2.16796E 01	1.45302E 03	
21.50	9.77455E-01	2.07878E 01	4.24410E-01	-3.47880E-04	-3.99516E-01	2.17789E 01	1.45477E 03	
21.60	9.77455E-01	2.08870E 01	4.28600E-01	-3.48631E-04	-4.03603E-01	2.18782E 01	1.45651E 03	
21.70	9.77455E-01	2.09863E 01	4.32810E-01	-3.49375E-04	-4.07711E-01	2.19775E 01	1.45824E 03	
21.80	9.77454E-01	2.10856E 01	4.37041E-01	-3.50111E-04	-4.11839E-01	2.20769E 01	1.45996E 03	
21.90	9.77454E-01	2.11849E 01	4.41293E-01	-3.50841E-04	-4.15989E-01	2.21762E 01	1.46167E 03	
22.00	9.77454E-01	2.12842E 01	4.45565E-01	-3.51563E-04	-4.20158E-01	2.22755E 01	1.46336E 03	
22.10	9.77454E-01	2.13835E 01	4.49858E-01	-3.52279E-04	-4.24349E-01	2.23749E 01	1.46505E 03	
22.20	9.77454E-01	2.14828E 01	4.54171E-01	-3.52988E-04	-4.28560E-01	2.24742E 01	1.46672E 03	
22.30	9.77454E-01	2.15820E 01	4.58505E-01	-3.53690E-04	-4.32792E-01	2.25735E 01	1.46839E 03	
22.40	9.77454E-01	2.16814E 01	4.62860E-01	-3.54384E-04	-4.37045E-01	2.26729E 01	1.47005E 03	
22.50	9.77454E-01	2.17807E 01	4.67236E-01	-3.55073E-04	-4.41318E-01	2.27722E 01	1.47169E 03	
22.60	9.77454E-01	2.18800E 01	4.71632E-01	-3.55755E-04	-4.45612E-01	2.28716E 01	1.47333E 03	
22.70	9.77454E-01	2.19793E 01	4.76049E-01	-3.56432E-04	-4.49927E-01	2.29709E 01	1.47495E 03	
22.80	9.77454E-01	2.20786E 01	4.80487E-01	-3.57102E-04	-4.54262E-01	2.30703E 01	1.47657E 03	
22.90	9.77454E-01	2.21779E 01	4.84945E-01	-3.57764E-04	-4.58618E-01	2.31697E 01	1.47817E 03	
23.00	9.77454E-01	2.22772E 01	4.89424E-01	-3.58421E-04	-4.62995E-01	2.32690E 01	1.47977E 03	
23.10	9.77454E-01	2.23765E 01	4.93924E-01	-3.59073E-04	-4.67392E-01	2.33684E 01	1.48136E 03	
23.20	9.77454E-01	2.24759E 01	4.98444E-01	-3.59717E-04	-4.71810E-01	2.34678E 01	1.48293E 03	
23.30	9.77454E-01	2.25752E 01	5.02985E-01	-3.60356E-04	-4.76249E-01	2.35672E 01	1.48450E 03	
23.40	9.77454E-01	2.26745E 01	5.07547E-01	-3.60989E-04	-4.80708E-01	2.36665E 01	1.48606E 03	
23.50	9.77454E-01	2.27738E 01	5.12129E-01	-3.61617E-04	-4.85189E-01	2.37659E 01	1.48761E 03	
23.60	9.77454E-01	2.28732E 01	5.16732E-01	-3.62239E-04	-4.89689E-01	2.38653E 01	1.48915E 03	
23.70	9.77454E-01	2.29725E 01	5.21356E-01	-3.62854E-04	-4.94211E-01	2.39647E 01	1.49068E 03	
23.80	9.77454E-01	2.30719E 01	5.26000E-01	-3.63464E-04	-4.98753E-01	2.40641E 01	1.49221E 03	
23.90	9.77454E-01	2.31712E 01	5.30665E-01	-3.64070E-04	-5.03316E-01	2.41635E 01	1.49372E 03	
24.00	9.77454E-01	2.32706E 01	5.35351E-01	-3.64670E-04	-5.07900E-01	2.42629E 01	1.49522E 03	

## ELECTRON RADIAL FUNCTIONS

 $Z=1$  $A=1$  $\rho=1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	8.58935E-05	3.26263E-01	3.33464E-03	-1.98307E 02	-3.09353E-03	3.44582E-01	4.83981E-03
18.20	8.68452E-05	3.29929E-01	3.39259E-03	-1.98332E 02	-3.14897E-03	3.48349E-01	4.84028E-03
18.30	8.78022E-05	3.33616E-01	3.45121E-03	-1.98356E 02	-3.20507E-03	3.52137E-01	4.84075E-03
18.40	8.87645E-05	3.37324E-01	3.51051E-03	-1.98381E 02	-3.26182E-03	3.55946E-01	4.84121E-03
18.50	8.97319E-05	3.41052E-01	3.57047E-03	-1.98405E 02	-3.31924E-03	3.59774E-01	4.84167E-03
18.60	9.07047E-05	3.44800E-01	3.63112E-03	-1.98429E 02	-3.37732E-03	3.63623E-01	4.84213E-03
18.70	9.16826E-05	3.48569E-01	3.69244E-03	-1.98453E 02	-3.43608E-03	3.67493E-01	4.84257E-03
18.80	9.26658E-05	3.52358E-01	3.75446E-03	-1.98476E 02	-3.49550E-03	3.71383E-01	4.84302E-03
18.90	9.36543E-05	3.56168E-01	3.81716E-03	-1.98499E 02	-3.55560E-03	3.75294E-01	4.84346E-03
19.00	9.46480E-05	3.59998E-01	3.88056E-03	-1.98522E 02	-3.61639E-03	3.79224E-01	4.84390E-03
19.10	9.56469E-05	3.63849E-01	3.94465E-03	-1.98545E 02	-3.67786E-03	3.83176E-01	4.84433E-03
19.20	9.66511E-05	3.67720E-01	4.00945E-03	-1.98567E 02	-3.74001E-03	3.87148E-01	4.84475E-03
19.30	9.76605E-05	3.71611E-01	4.07495E-03	-1.98589E 02	-3.80286E-03	3.91140E-01	4.84518E-03
19.40	9.86752E-05	3.75523E-01	4.14116E-03	-1.98611E 02	-3.86641E-03	3.95153E-01	4.84560E-03
19.50	9.96951E-05	3.79456E-01	4.20809E-03	-1.98633E 02	-3.93066E-03	3.99186E-01	4.84601E-03
19.60	1.00720E-04	3.83409E-01	4.27573E-03	-1.98654E 02	-3.99561E-03	4.03240E-01	4.84642E-03
19.70	1.01751E-04	3.87382E-01	4.34409E-03	-1.98675E 02	-4.06126E-03	4.07314E-01	4.84683E-03
19.80	1.02786E-04	3.91376E-01	4.41318E-03	-1.98696E 02	-4.12763E-03	4.11408E-01	4.84724E-03
19.90	1.03827E-04	3.95390E-01	4.48299E-03	-1.98717E 02	-4.19471E-03	4.15523E-01	4.84764E-03
20.00	1.04873E-04	3.99425E-01	4.55354E-03	-1.98738E 02	-4.26252E-03	4.19659E-01	4.84803E-03
20.10	1.05925E-04	4.03480E-01	4.62482E-03	-1.98758E 02	-4.33104E-03	4.23815E-01	4.84843E-03
20.20	1.06981E-04	4.07556E-01	4.69684E-03	-1.98778E 02	-4.40030E-03	4.27991E-01	4.84882E-03
20.30	1.08043E-04	4.11652E-01	4.76961E-03	-1.98798E 02	-4.47028E-03	4.32188E-01	4.84920E-03
20.40	1.09110E-04	4.15768E-01	4.84312E-03	-1.98818E 02	-4.54100E-03	4.36405E-01	4.84958E-03
20.50	1.10183E-04	4.19906E-01	4.91738E-03	-1.98837E 02	-4.61245E-03	4.40643E-01	4.84996E-03
20.60	1.11260E-04	4.24063E-01	4.99240E-03	-1.98857E 02	-4.68465E-03	4.44901E-01	4.85034E-03
20.70	1.12343E-04	4.28241E-01	5.06818E-03	-1.98876E 02	-4.75759E-03	4.49179E-01	4.85071E-03
20.80	1.13431E-04	4.32439E-01	5.14472E-03	-1.98895E 02	-4.83128E-03	4.53478E-01	4.85108E-03
20.90	1.14524E-04	4.36658E-01	5.22203E-03	-1.98913E 02	-4.90573E-03	4.57798E-01	4.85145E-03
21.00	1.15623E-04	4.40897E-01	5.30010E-03	-1.98932E 02	-4.98093E-03	4.62137E-01	4.85181E-03
21.10	1.16727E-04	4.45157E-01	5.37895E-03	-1.98950E 02	-5.05690E-03	4.66498E-01	4.85217E-03
21.20	1.17836E-04	4.49437E-01	5.45858E-03	-1.98969E 02	-5.13363E-03	4.70879E-01	4.85252E-03
21.30	1.18950E-04	4.53738E-01	5.53899E-03	-1.98987E 02	-5.21112E-03	4.75280E-01	4.85288E-03
21.40	1.20070E-04	4.58059E-01	5.62019E-03	-1.99004E 02	-5.28939E-03	4.79701E-01	4.85323E-03
21.50	1.21194E-04	4.62401E-01	5.70217E-03	-1.99022E 02	-5.36844E-03	4.84143E-01	4.85357E-03
21.60	1.22324E-04	4.66763E-01	5.78495E-03	-1.99040E 02	-5.44826E-03	4.88606E-01	4.85392E-03
21.70	1.23460E-04	4.71145E-01	5.86852E-03	-1.99057E 02	-5.52887E-03	4.93089E-01	4.85426E-03
21.80	1.24600E-04	4.75548E-01	5.95290E-03	-1.99074E 02	-5.61027E-03	4.97592E-01	4.85460E-03
21.90	1.25746E-04	4.79971E-01	6.03808E-03	-1.99091E 02	-5.69246E-03	5.02116E-01	4.85493E-03
22.00	1.26897E-04	4.84415E-01	6.12407E-03	-1.99108E 02	-5.77545E-03	5.06660E-01	4.85526E-03
22.10	1.28053E-04	4.88879E-01	6.21087E-03	-1.99125E 02	-5.85923E-03	5.11225E-01	4.85559E-03
22.20	1.29215E-04	4.93364E-01	6.29848E-03	-1.99141E 02	-5.94381E-03	5.15810E-01	4.85592E-03
22.30	1.30381E-04	4.97869E-01	6.38692E-03	-1.99158E 02	-6.02921E-03	5.20416E-01	4.85624E-03
22.40	1.31553E-04	5.02394E-01	6.47618E-03	-1.99174E 02	-6.11541E-03	5.25042E-01	4.85656E-03
22.50	1.32731E-04	5.06940E-01	6.56627E-03	-1.99190E 02	-6.20243E-03	5.29688E-01	4.85688E-03
22.60	1.33913E-04	5.11507E-01	6.65719E-03	-1.99206E 02	-6.29026E-03	5.34355E-01	4.85720E-03
22.70	1.35101E-04	5.16094E-01	6.74894E-03	-1.99222E 02	-6.37892E-03	5.39043E-01	4.85751E-03
22.80	1.36294E-04	5.20701E-01	6.84153E-03	-1.99237E 02	-6.46841E-03	5.43750E-01	4.85782E-03
22.90	1.37492E-04	5.25329E-01	6.93496E-03	-1.99253E 02	-6.55872E-03	5.48478E-01	4.85813E-03
23.00	1.38695E-04	5.29977E-01	7.02924E-03	-1.99268E 02	-6.64987E-03	5.53227E-01	4.85844E-03
23.10	1.39904E-04	5.34646E-01	7.12437E-03	-1.99284E 02	-6.74185E-03	5.57996E-01	4.85874E-03
23.20	1.41118E-04	5.39335E-01	7.22036E-03	-1.99299E 02	-6.83467E-03	5.62786E-01	4.85904E-03
23.30	1.42337E-04	5.44044E-01	7.31720E-03	-1.99314E 02	-6.92834E-03	5.67596E-01	4.85934E-03
23.40	1.43561E-04	5.48774E-01	7.41491E-03	-1.99328E 02	-7.02286E-03	5.72426E-01	4.85964E-03
23.50	1.44791E-04	5.53525E-01	7.51348E-03	-1.99343E 02	-7.11823E-03	5.77277E-01	4.85993E-03
23.60	1.46026E-04	5.58295E-01	7.61292E-03	-1.99358E 02	-7.21446E-03	5.82148E-01	4.86022E-03
23.70	1.47266E-04	5.63087E-01	7.71323E-03	-1.99372E 02	-7.31154E-03	5.87040E-01	4.86051E-03
23.80	1.48512E-04	5.67898E-01	7.81442E-03	-1.99386E 02	-7.40949E-03	5.91952E-01	4.86080E-03
23.90	1.49762E-04	5.72731E-01	7.91649E-03	-1.99401E 02	-7.50831E-03	5.96884E-01	4.86108E-03
24.00	1.51018E-04	5.77583E-01	8.01944E-03	-1.99415E 02	-7.60800E-03	6.01837E-01	4.86136E-03





## ELECTRON RADIAL FUNCTIONS

$\rho$	$\bar{F}$	$Z=1$		$A=1$		$\rho=1.2 A^{1/3} F$		Positron
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
24.10	1.52279E-04	5.82457E-01	8.12329E-03	-1.99429E 02	-7.70857E-03	6.06811E-01	4.86164E-03	
24.20	1.53546E-04	5.87350E-01	8.22802E-03	-1.99443E 02	-7.81001E-03	6.11804E-01	4.86192E-03	
24.30	1.54817E-04	5.92264E-01	8.33365E-03	-1.99456E 02	-7.91234E-03	6.16819E-01	4.86220E-03	
24.40	1.56094E-04	5.97198E-01	8.44018E-03	-1.99470E 02	-8.01555E-03	6.21853E-01	4.86247E-03	
24.50	1.57376E-04	6.02153E-01	8.54762E-03	-1.99483E 02	-8.11966E-03	6.26908E-01	4.86274E-03	
24.60	1.58663E-04	6.07128E-01	8.65596E-03	-1.99497E 02	-8.22466E-03	6.31984E-01	4.86301E-03	
24.70	1.59956E-04	6.12124E-01	8.76521E-03	-1.99510E 02	-8.33055E-03	6.37080E-01	4.86328E-03	
24.80	1.61254E-04	6.17140E-01	8.87538E-03	-1.99523E 02	-8.43735E-03	6.42196E-01	4.86355E-03	
24.90	1.62557E-04	6.22176E-01	8.98646E-03	-1.99536E 02	-8.54505E-03	6.47333E-01	4.86381E-03	
25.00	1.63865E-04	6.27233E-01	9.09847E-03	-1.99549E 02	-8.65367E-03	6.52490E-01	4.86407E-03	
25.10	1.65179E-04	6.32310E-01	9.21141E-03	-1.99562E 02	-8.76319E-03	6.57667E-01	4.86433E-03	
25.20	1.66498E-04	6.37408E-01	9.32527E-03	-1.99575E 02	-8.87364E-03	6.62866E-01	4.86459E-03	
25.30	1.67822E-04	6.42527E-01	9.44007E-03	-1.99587E 02	-8.98500E-03	6.68084E-01	4.86484E-03	
25.40	1.69151E-04	6.47665E-01	9.55581E-03	-1.99600E 02	-9.09729E-03	6.73323E-01	4.86510E-03	
25.50	1.70485E-04	6.52824E-01	9.67249E-03	-1.99612E 02	-9.21051E-03	6.78582E-01	4.86535E-03	
25.60	1.71825E-04	6.58004E-01	9.79011E-03	-1.99625E 02	-9.32466E-03	6.83862E-01	4.86560E-03	
25.70	1.73170E-04	6.63204E-01	9.90868E-03	-1.99637E 02	-9.43974E-03	6.89162E-01	4.86585E-03	
25.80	1.74520E-04	6.68424E-01	1.00282E-02	-1.99649E 02	-9.55577E-03	6.94482E-01	4.86609E-03	
25.90	1.75876E-04	6.73665E-01	1.01487E-02	-1.99661E 02	-9.67274E-03	6.99823E-01	4.86634E-03	
26.00	1.77237E-04	6.78926E-01	1.02701E-02	-1.99673E 02	-9.79066E-03	7.05185E-01	4.86658E-03	
26.10	1.78603E-04	6.84208E-01	1.03925E-02	-1.99685E 02	-9.90953E-03	7.10567E-01	4.86682E-03	
26.20	1.79974E-04	6.89510E-01	1.05159E-02	-1.99696E 02	-1.00294E-02	7.15969E-01	4.86706E-03	
26.30	1.81350E-04	6.94832E-01	1.06403E-02	-1.99708E 02	-1.01501E-02	7.21391E-01	4.86730E-03	
26.40	1.82732E-04	7.00175E-01	1.07656E-02	-1.99720E 02	-1.02719E-02	7.26834E-01	4.86754E-03	
26.50	1.84119E-04	7.05539E-01	1.08919E-02	-1.99731E 02	-1.03946E-02	7.32298E-01	4.86777E-03	
26.60	1.85511E-04	7.10922E-01	1.10192E-02	-1.99742E 02	-1.05183E-02	7.37782E-01	4.86800E-03	
26.70	1.86909E-04	7.16326E-01	1.11475E-02	-1.99754E 02	-1.06429E-02	7.43286E-01	4.86823E-03	
26.80	1.88311E-04	7.21751E-01	1.12767E-02	-1.99765E 02	-1.07686E-02	7.48811E-01	4.86846E-03	
26.90	1.89719E-04	7.27196E-01	1.14070E-02	-1.99776E 02	-1.08952E-02	7.54356E-01	4.86869E-03	
27.00	1.91132E-04	7.32662E-01	1.15382E-02	-1.99787E 02	-1.10228E-02	7.59921E-01	4.86892E-03	
27.10	1.92551E-04	7.38147E-01	1.16705E-02	-1.99798E 02	-1.11514E-02	7.65507E-01	4.86914E-03	
27.20	1.93975E-04	7.43654E-01	1.18038E-02	-1.99809E 02	-1.12810E-02	7.71114E-01	4.86936E-03	
27.30	1.95403E-04	7.49180E-01	1.19381E-02	-1.99820E 02	-1.14115E-02	7.76740E-01	4.86959E-03	
27.40	1.96838E-04	7.54728E-01	1.20733E-02	-1.99830E 02	-1.15431E-02	7.82388E-01	4.86981E-03	
27.50	1.98277E-04	7.60295E-01	1.22097E-02	-1.99841E 02	-1.16757E-02	7.88055E-01	4.87002E-03	
27.60	1.99722E-04	7.65883E-01	1.23470E-02	-1.99852E 02	-1.18093E-02	7.93743E-01	4.87024E-03	
27.70	2.01171E-04	7.71491E-01	1.24853E-02	-1.99862E 02	-1.19439E-02	7.99452E-01	4.87046E-03	
27.80	2.02627E-04	7.77120E-01	1.26247E-02	-1.99872E 02	-1.20795E-02	8.05180E-01	4.87067E-03	
27.90	2.04087E-04	7.82769E-01	1.27651E-02	-1.99883E 02	-1.22162E-02	8.10930E-01	4.87088E-03	
28.00	2.05553E-04	7.88439E-01	1.29066E-02	-1.99893E 02	-1.23539E-02	8.16699E-01	4.87109E-03	
28.10	2.07023E-04	7.94129E-01	1.30491E-02	-1.99903E 02	-1.24926E-02	8.22489E-01	4.87130E-03	
28.20	2.08500E-04	7.99840E-01	1.31926E-02	-1.99913E 02	-1.26323E-02	8.28300E-01	4.87151E-03	
28.30	2.09981E-04	8.05570E-01	1.33372E-02	-1.99923E 02	-1.27730E-02	8.34130E-01	4.87172E-03	
28.40	2.11467E-04	8.11322E-01	1.34829E-02	-1.99933E 02	-1.29148E-02	8.39982E-01	4.87192E-03	
28.50	2.12959E-04	8.17093E-01	1.36296E-02	-1.99943E 02	-1.30577E-02	8.45853E-01	4.87213E-03	
28.60	2.14456E-04	8.22885E-01	1.37773E-02	-1.99953E 02	-1.32016E-02	8.51745E-01	4.87233E-03	
28.70	2.15959E-04	8.28698E-01	1.39261E-02	-1.99963E 02	-1.33465E-02	8.57658E-01	4.87253E-03	
28.80	2.17466E-04	8.34531E-01	1.40760E-02	-1.99972E 02	-1.34925E-02	8.63591E-01	4.87273E-03	
28.90	2.18979E-04	8.40384E-01	1.42270E-02	-1.99982E 02	-1.36396E-02	8.69544E-01	4.87293E-03	
29.00	2.20497E-04	8.46258E-01	1.43790E-02	-1.99991E 02	-1.37877E-02	8.75517E-01	4.87313E-03	
29.10	2.22020E-04	8.52152E-01	1.45321E-02	-2.00001E 02	-1.39369E-02	8.81512E-01	4.87333E-03	
29.20	2.23549E-04	8.58067E-01	1.46863E-02	-2.00010E 02	-1.40871E-02	8.87526E-01	4.87352E-03	
29.30	2.25083E-04	8.64002E-01	1.48416E-02	-2.00019E 02	-1.42384E-02	8.93561E-01	4.87371E-03	
29.40	2.26622E-04	8.69957E-01	1.49980E-02	-2.00029E 02	-1.43908E-02	8.99616E-01	4.87391E-03	
29.50	2.28166E-04	8.75933E-01	1.51554E-02	-2.00038E 02	-1.45443E-02	9.05692E-01	4.87410E-03	
29.60	2.29716E-04	8.81929E-01	1.53140E-02	-2.00047E 02	-1.46989E-02	9.11788E-01	4.87429E-03	
29.70	2.31270E-04	8.87946E-01	1.54737E-02	-2.00056E 02	-1.48545E-02	9.17904E-01	4.87448E-03	
29.80	2.32830E-04	8.93983E-01	1.56344E-02	-2.00065E 02	-1.50113E-02	9.24011E-01	4.87466E-03	
29.90	2.34395E-04	9.00040E-01	1.57963E-02	-2.00074E 02	-1.51691E-02	9.30198E-01	4.87485E-03	
30.00	2.35966E-04	9.06118E-01	1.59593E-02	-2.00083E 02	-1.53280E-02	9.36376E-01	4.87503E-03	



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=1$	$A=1$	$\rho=1.2A^{1/3}F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
30.10	9.77449E-01	2.93381E 01	8.60405E-01	-3.93062E-04	-8.26727E-01	3.03336E 01	1.57357E 03	
30.20	9.77449E-01	2.94377E 01	8.66378E-01	-3.93421E-04	-8.32598E-01	3.04333E 01	1.57468E 03	
30.30	9.77449E-01	2.95373E 01	8.72371E-01	-3.93776E-04	-8.38490E-01	3.05329E 01	1.57578E 03	
30.40	9.77449E-01	2.96369E 01	8.78386E-01	-3.94129E-04	-8.44402E-01	3.06326E 01	1.57687E 03	
30.50	9.77449E-01	2.97365E 01	8.84421E-01	-3.94479E-04	-8.50336E-01	3.07322E 01	1.57796E 03	
30.60	9.77448E-01	2.98361E 01	8.90478E-01	-3.94827E-04	-8.56290E-01	3.08319E 01	1.57905E 03	
30.70	9.77448E-01	2.99357E 01	8.96555E-01	-3.95172E-04	-8.62265E-01	3.09316E 01	1.58013E 03	
30.80	9.77448E-01	3.00354E 01	9.02653E-01	-3.95513E-04	-8.68261E-01	3.10312E 01	1.58121E 03	
30.90	9.77448E-01	3.01350E 01	9.08771E-01	-3.95853E-04	-8.74278E-01	3.11309E 01	1.58228E 03	
31.00	9.77448E-01	3.02346E 01	9.14911E-01	-3.96190E-04	-8.80316E-01	3.12306E 01	1.58334E 03	
31.10	9.77448E-01	3.03343E 01	9.21071E-01	-3.96524E-04	-8.86375E-01	3.13303E 01	1.58441E 03	
31.20	9.77448E-01	3.04339E 01	9.27253E-01	-3.96856E-04	-8.92454E-01	3.14300E 01	1.58546E 03	
31.30	9.77448E-01	3.05335E 01	9.33455E-01	-3.97185E-04	-8.98554E-01	3.15297E 01	1.58652E 03	
31.40	9.77448E-01	3.06332E 01	9.39678E-01	-3.97512E-04	-9.04675E-01	3.16294E 01	1.58757E 03	
31.50	9.77448E-01	3.07328E 01	9.45922E-01	-3.97836E-04	-9.10817E-01	3.17291E 01	1.58862E 03	
31.60	9.77448E-01	3.08325E 01	9.52186E-01	-3.98158E-04	-9.16980E-01	3.18288E 01	1.58966E 03	
31.70	9.77447E-01	3.09321E 01	9.58472E-01	-3.98477E-04	-9.23164E-01	3.19285E 01	1.59070E 03	
31.80	9.77447E-01	3.10318E 01	9.64778E-01	-3.98793E-04	-9.29368E-01	3.20283E 01	1.59173E 03	
31.90	9.77447E-01	3.11315E 01	9.71105E-01	-3.99108E-04	-9.35594E-01	3.21280E 01	1.59276E 03	
32.00	9.77447E-01	3.12312E 01	9.77453E-01	-3.99420E-04	-9.41840E-01	3.22277E 01	1.59379E 03	
32.10	9.77447E-01	3.13308E 01	9.83822E-01	-3.99730E-04	-9.48107E-01	3.23275E 01	1.59481E 03	
32.20	9.77447E-01	3.14305E 01	9.90212E-01	-4.00038E-04	-9.54395E-01	3.24272E 01	1.59582E 03	
32.30	9.77447E-01	3.15302E 01	9.96623E-01	-4.00343E-04	-9.60704E-01	3.25270E 01	1.59684E 03	
32.40	9.77447E-01	3.16299E 01	1.00305E 00	-4.00646E-04	-9.67034E-01	3.26267E 01	1.59784E 03	
32.50	9.77447E-01	3.17296E 01	1.00951E 00	-4.00947E-04	-9.73385E-01	3.27265E 01	1.59885E 03	
32.60	9.77447E-01	3.18293E 01	1.01598E 00	-4.01245E-04	-9.79756E-01	3.28262E 01	1.59985E 03	
32.70	9.77447E-01	3.19290E 01	1.02247E 00	-4.01541E-04	-9.86149E-01	3.29260E 01	1.60085E 03	
32.80	9.77446E-01	3.20287E 01	1.02899E 00	-4.01835E-04	-9.92562E-01	3.30258E 01	1.60184E 03	
32.90	9.77446E-01	3.21285E 01	1.03553E 00	-4.02127E-04	-9.98996E-01	3.31255E 01	1.60283E 03	
33.00	9.77446E-01	3.22282E 01	1.04208E 00	-4.02416E-04	-1.00545E 00	3.32253E 01	1.60382E 03	
33.10	9.77446E-01	3.23279E 01	1.04866E 00	-4.02703E-04	-1.01193E 00	3.33251E 01	1.60480E 03	
33.20	9.77446E-01	3.24276E 01	1.05526E 00	-4.02988E-04	-1.01842E 00	3.34249E 01	1.60578E 03	
33.30	9.77446E-01	3.25274E 01	1.06188E 00	-4.03271E-04	-1.02494E 00	3.35247E 01	1.60676E 03	
33.40	9.77446E-01	3.26271E 01	1.06852E 00	-4.03552E-04	-1.03148E 00	3.36245E 01	1.60773E 03	
33.50	9.77446E-01	3.27269E 01	1.07518E 00	-4.03832E-04	-1.03804E 00	3.37243E 01	1.60870E 03	
33.60	9.77446E-01	3.28266E 01	1.08186E 00	-4.04108E-04	-1.04462E 00	3.38241E 01	1.60966E 03	
33.70	9.77446E-01	3.29264E 01	1.08857E 00	-4.04384E-04	-1.05122E 00	3.39239E 01	1.61062E 03	
33.80	9.77446E-01	3.30261E 01	1.09529E 00	-4.04656E-04	-1.05784E 00	3.40237E 01	1.61158E 03	
33.90	9.77445E-01	3.31259E 01	1.10204E 00	-4.04927E-04	-1.06449E 00	3.41236E 01	1.61253E 03	
34.00	9.77445E-01	3.32257E 01	1.10880E 00	-4.05196E-04	-1.07115E 00	3.42234E 01	1.61348E 03	
34.10	9.77445E-01	3.33254E 01	1.11559E 00	-4.05462E-04	-1.07784E 00	3.43232E 01	1.61443E 03	
34.20	9.77445E-01	3.34252E 01	1.12240E 00	-4.05727E-04	-1.08454E 00	3.44231E 01	1.61538E 03	
34.30	9.77445E-01	3.35250E 01	1.12922E 00	-4.05990E-04	-1.09127E 00	3.45229E 01	1.61632E 03	
34.40	9.77445E-01	3.36248E 01	1.13607E 00	-4.06251E-04	-1.09802E 00	3.46228E 01	1.61725E 03	
34.50	9.77445E-01	3.37246E 01	1.14294E 00	-4.06510E-04	-1.10479E 00	3.47226E 01	1.61819E 03	
34.60	9.77445E-01	3.38244E 01	1.14984E 00	-4.06767E-04	-1.11158E 00	3.48225E 01	1.61912E 03	
34.70	9.77445E-01	3.39242E 01	1.15675E 00	-4.07022E-04	-1.11839E 00	3.49224E 01	1.62005E 03	
34.80	9.77445E-01	3.40240E 01	1.16368E 00	-4.07275E-04	-1.12522E 00	3.50222E 01	1.62097E 03	
34.90	9.77444E-01	3.41238E 01	1.17064E 00	-4.07528E-04	-1.13207E 00	3.51221E 01	1.62189E 03	
35.00	9.77444E-01	3.42236E 01	1.17761E 00	-4.07778E-04	-1.13895E 00	3.52220E 01	1.62281E 03	
35.10	9.77444E-01	3.43235E 01	1.18461E 00	-4.08025E-04	-1.14584E 00	3.53219E 01	1.62372E 03	
35.20	9.77444E-01	3.44233E 01	1.19162E 00	-4.08271E-04	-1.15276E 00	3.54218E 01	1.62464E 03	
35.30	9.77444E-01	3.45231E 01	1.19866E 00	-4.08515E-04	-1.15969E 00	3.55217E 01	1.62555E 03	
35.40	9.77444E-01	3.46230E 01	1.20572E 00	-4.08758E-04	-1.16665E 00	3.56216E 01	1.62645E 03	
35.50	9.77444E-01	3.47228E 01	1.21280E 00	-4.08998E-04	-1.17363E 00	3.57215E 01	1.62735E 03	
35.60	9.77444E-01	3.48227E 01	1.21990E 00	-4.09238E-04	-1.18063E 00	3.58214E 01	1.62825E 03	
35.70	9.77444E-01	3.49225E 01	1.22702E 00	-4.09474E-04	-1.18765E 00	3.59213E 01	1.62915E 03	
35.80	9.77444E-01	3.50224E 01	1.23417E 00	-4.09709E-04	-1.19469E 00	3.60212E 01	1.63004E 03	
35.90	9.77443E-01	3.51223E 01	1.24133E 00	-4.09943E-04	-1.20175E 00	3.61212E 01	1.63094E 03	
36.00	9.77443E-01	3.52221E 01	1.24852E 00	-4.10176E-04	-1.20883E 00	3.62211E 01	1.63182E 03	

ELECTRON RADIAL FUNCTIONS

$Z=1$        $A=1$        $\rho=1.2 A^{1/3} F$

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
30.10	2.37542E-04	9.12216E-01	1.61234E-02	-2.00092E 02	-1.54881E-02	9.42574E-01	4.87522E-03
30.20	2.39123E-04	9.18335E-01	1.62886E-02	-2.00101E 02	-1.56493E-02	9.48792E-01	4.87540E-03
30.30	2.40709E-04	9.24474E-01	1.64550E-02	-2.00109E 02	-1.58115E-02	9.55031E-01	4.87558E-03
30.40	2.42300E-04	9.30633E-01	1.66225E-02	-2.00118E 02	-1.59749E-02	9.61290E-01	4.87576E-03
30.50	2.43897E-04	9.36813E-01	1.67911E-02	-2.00126E 02	-1.61394E-02	9.67570E-01	4.87594E-03
30.60	2.45499E-04	9.43013E-01	1.69608E-02	-2.00135E 02	-1.63050E-02	9.73870E-01	4.87612E-03
30.70	2.47106E-04	9.49234E-01	1.71317E-02	-2.00143E 02	-1.64717E-02	9.80190E-01	4.87630E-03
30.80	2.48719E-04	9.55475E-01	1.73037E-02	-2.00152E 02	-1.66396E-02	9.86531E-01	4.87647E-03
30.90	2.50336E-04	9.61736E-01	1.74769E-02	-2.00160E 02	-1.68086E-02	9.92892E-01	4.87665E-03
31.00	2.51959E-04	9.68018E-01	1.76512E-02	-2.00168E 02	-1.69788E-02	9.99274E-01	4.87682E-03
31.10	2.53587E-04	9.74320E-01	1.78267E-02	-2.00177E 02	-1.71501E-02	1.00568E 00	4.87700E-03
31.20	2.55221E-04	9.80643E-01	1.80034E-02	-2.00185E 02	-1.73225E-02	1.01210E 00	4.87717E-03
31.30	2.56860E-04	9.86986E-01	1.81812E-02	-2.00193E 02	-1.74961E-02	1.01854E 00	4.87734E-03
31.40	2.58503E-04	9.93349E-01	1.83601E-02	-2.00201E 02	-1.76708E-02	1.02500E 00	4.87751E-03
31.50	2.60153E-04	9.99733E-01	1.85403E-02	-2.00209E 02	-1.78467E-02	1.03149E 00	4.87768E-03
31.60	2.61807E-04	1.00614E 00	1.87216E-02	-2.00217E 02	-1.80238E-02	1.03799E 00	4.87784E-03
31.70	2.63467E-04	1.01256E 00	1.89041E-02	-2.00225E 02	-1.82020E-02	1.04452E 00	4.87801E-03
31.80	2.65131E-04	1.01901E 00	1.90877E-02	-2.00233E 02	-1.83813E-02	1.05106E 00	4.87818E-03
31.90	2.66801E-04	1.02547E 00	1.92726E-02	-2.00241E 02	-1.85619E-02	1.05762E 00	4.87834E-03
32.00	2.68477E-04	1.03196E 00	1.94586E-02	-2.00249E 02	-1.87436E-02	1.06421E 00	4.87851E-03
32.10	2.70157E-04	1.03846E 00	1.96459E-02	-2.00256E 02	-1.89265E-02	1.07082E 00	4.87867E-03
32.20	2.71843E-04	1.04499E 00	1.98343E-02	-2.00264E 02	-1.91106E-02	1.07744E 00	4.87883E-03
32.30	2.73534E-04	1.05154E 00	2.00239E-02	-2.00272E 02	-1.92959E-02	1.08409E 00	4.87899E-03
32.40	2.75231E-04	1.05810E 00	2.02148E-02	-2.00279E 02	-1.94824E-02	1.09076E 00	4.87915E-03
32.50	2.76932E-04	1.06469E 00	2.04068E-02	-2.00287E 02	-1.96701E-02	1.09744E 00	4.87931E-03
32.60	2.78639E-04	1.07130E 00	2.06001E-02	-2.00294E 02	-1.98589E-02	1.10415E 00	4.87947E-03
32.70	2.80351E-04	1.07793E 00	2.07945E-02	-2.00302E 02	-2.00490E-02	1.11088E 00	4.87962E-03
32.80	2.82068E-04	1.08458E 00	2.09902E-02	-2.00309E 02	-2.02403E-02	1.11763E 00	4.87978E-03
32.90	2.83791E-04	1.09125E 00	2.11872E-02	-2.00316E 02	-2.04328E-02	1.12440E 00	4.87994E-03
33.00	2.85519E-04	1.09794E 00	2.13853E-02	-2.00324E 02	-2.06264E-02	1.13118E 00	4.88009E-03
33.10	2.87252E-04	1.10465E 00	2.15847E-02	-2.00331E 02	-2.08214E-02	1.13799E 00	4.88024E-03
33.20	2.88990E-04	1.11138E 00	2.17853E-02	-2.00338E 02	-2.10175E-02	1.14482E 00	4.88040E-03
33.30	2.90734E-04	1.11813E 00	2.19871E-02	-2.00345E 02	-2.12149E-02	1.15167E 00	4.88055E-03
33.40	2.92482E-04	1.12490E 00	2.21902E-02	-2.00352E 02	-2.14134E-02	1.15854E 00	4.88070E-03
33.50	2.94236E-04	1.13169E 00	2.23945E-02	-2.00359E 02	-2.16133E-02	1.16544E 00	4.88085E-03
33.60	2.95996E-04	1.13850E 00	2.26001E-02	-2.00366E 02	-2.18143E-02	1.17235E 00	4.88100E-03
33.70	2.97760E-04	1.14533E 00	2.28069E-02	-2.00373E 02	-2.20166E-02	1.17928E 00	4.88115E-03
33.80	2.99530E-04	1.15219E 00	2.30150E-02	-2.00380E 02	-2.22202E-02	1.18623E 00	4.88129E-03
33.90	3.01305E-04	1.15906E 00	2.32244E-02	-2.00387E 02	-2.24250E-02	1.19320E 00	4.88144E-03
34.00	3.03085E-04	1.16595E 00	2.34350E-02	-2.00394E 02	-2.26310E-02	1.20020E 00	4.88159E-03
34.10	3.04871E-04	1.17287E 00	2.36469E-02	-2.00401E 02	-2.28383E-02	1.20721E 00	4.88173E-03
34.20	3.06661E-04	1.17980E 00	2.38600E-02	-2.00408E 02	-2.30469E-02	1.21424E 00	4.88188E-03
34.30	3.08457E-04	1.18675E 00	2.40745E-02	-2.00414E 02	-2.32567E-02	1.22130E 00	4.88202E-03
34.40	3.10258E-04	1.19373E 00	2.42902E-02	-2.00421E 02	-2.34678E-02	1.22837E 00	4.88216E-03
34.50	3.12065E-04	1.20072E 00	2.45072E-02	-2.00428E 02	-2.36801E-02	1.23546E 00	4.88230E-03
34.60	3.13877E-04	1.20774E 00	2.47255E-02	-2.00435E 02	-2.38937E-02	1.24258E 00	4.88244E-03
34.70	3.15693E-04	1.21478E 00	2.49450E-02	-2.00441E 02	-2.41087E-02	1.24972E 00	4.88258E-03
34.80	3.17516E-04	1.22183E 00	2.51659E-02	-2.00448E 02	-2.43249E-02	1.25687E 00	4.88272E-03
34.90	3.19343E-04	1.22891E 00	2.53881E-02	-2.00454E 02	-2.45423E-02	1.26405E 00	4.88286E-03
35.00	3.21176E-04	1.23601E 00	2.56116E-02	-2.00461E 02	-2.47611E-02	1.27124E 00	4.88300E-03
35.10	3.23014E-04	1.24312E 00	2.58363E-02	-2.00467E 02	-2.49812E-02	1.27846E 00	4.88314E-03
35.20	3.24857E-04	1.25026E 00	2.60624E-02	-2.00473E 02	-2.52025E-02	1.28570E 00	4.88327E-03
35.30	3.26705E-04	1.25742E 00	2.62898E-02	-2.00480E 02	-2.54252E-02	1.29296E 00	4.88341E-03
35.40	3.28559E-04	1.26460E 00	2.65186E-02	-2.00486E 02	-2.56491E-02	1.30023E 00	4.88354E-03
35.50	3.30418E-04	1.27180E 00	2.67486E-02	-2.00492E 02	-2.58744E-02	1.30753E 00	4.88368E-03
35.60	3.32282E-04	1.27902E 00	2.69800E-02	-2.00499E 02	-2.61010E-02	1.31485E 00	4.88381E-03
35.70	3.34151E-04	1.28626E 00	2.72127E-02	-2.00505E 02	-2.63289E-02	1.32219E 00	4.88394E-03
35.80	3.36026E-04	1.29352E 00	2.74467E-02	-2.00511E 02	-2.65581E-02	1.32955E 00	4.88408E-03
35.90	3.37906E-04	1.30080E 00	2.76821E-02	-2.00517E 02	-2.67886E-02	1.33693E 00	4.88421E-03
36.00	3.39791E-04	1.30810E 00	2.79188E-02	-2.00523E 02	-2.70205E-02	1.34433E 00	4.88434E-03



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=1$		$A=1$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
36.10	9.77443E-01	3.53220E 01	1.25572E 00	-4.10406E-04	-1.21594E 00	3.63210E 01	1.63271E 03	
36.20	9.77443E-01	3.54219E 01	1.26295E 00	-4.10635E-04	-1.22306E 00	3.64210E 01	1.63359E 03	
36.30	9.77443E-01	3.55218E 01	1.27020E 00	-4.10861E-04	-1.23021E 00	3.65209E 01	1.63447E 03	
36.40	9.77443E-01	3.56217E 01	1.27747E 00	-4.11086E-04	-1.23738E 00	3.66209E 01	1.63535E 03	
36.50	9.77443E-01	3.57216E 01	1.28475E 00	-4.11310E-04	-1.24456E 00	3.67209E 01	1.63622E 03	
36.60	9.77443E-01	3.58215E 01	1.29207E 00	-4.11531E-04	-1.25177E 00	3.68208E 01	1.63709E 03	
36.70	9.77443E-01	3.59214E 01	1.29940E 00	-4.11753E-04	-1.25900E 00	3.69208E 01	1.63796E 03	
36.80	9.77443E-01	3.60213E 01	1.30675E 00	-4.11971E-04	-1.26625E 00	3.70208E 01	1.63883E 03	
36.90	9.77443E-01	3.61212E 01	1.31412E 00	-4.12189E-04	-1.27353E 00	3.71208E 01	1.63969E 03	
37.00	9.77442E-01	3.62212E 01	1.32152E 00	-4.12404E-04	-1.28082E 00	3.72208E 01	1.64055E 03	
37.10	9.77442E-01	3.63211E 01	1.32893E 00	-4.12619E-04	-1.28813E 00	3.73207E 01	1.64140E 03	
37.20	9.77442E-01	3.64210E 01	1.33637E 00	-4.12830E-04	-1.29547E 00	3.74207E 01	1.64226E 03	
37.30	9.77442E-01	3.65210E 01	1.34383E 00	-4.13042E-04	-1.30282E 00	3.75208E 01	1.64312E 03	
37.40	9.77442E-01	3.66209E 01	1.35131E 00	-4.13251E-04	-1.31020E 00	3.76208E 01	1.64397E 03	
37.50	9.77442E-01	3.67209E 01	1.35881E 00	-4.13459E-04	-1.31760E 00	3.77208E 01	1.64481E 03	
37.60	9.77442E-01	3.68208E 01	1.36633E 00	-4.13665E-04	-1.32502E 00	3.78208E 01	1.64566E 03	
37.70	9.77442E-01	3.69208E 01	1.37387E 00	-4.13870E-04	-1.33246E 00	3.79208E 01	1.64650E 03	
37.80	9.77442E-01	3.70208E 01	1.38143E 00	-4.14072E-04	-1.33992E 00	3.80209E 01	1.64734E 03	
37.90	9.77442E-01	3.71207E 01	1.38901E 00	-4.14274E-04	-1.34740E 00	3.81209E 01	1.64818E 03	
38.00	9.77441E-01	3.72207E 01	1.39662E 00	-4.14475E-04	-1.35490E 00	3.82209E 01	1.64901E 03	
38.10	9.77441E-01	3.73207E 01	1.40424E 00	-4.14674E-04	-1.36243E 00	3.83210E 01	1.64985E 03	
38.20	9.77441E-01	3.74207E 01	1.41189E 00	-4.14871E-04	-1.36997E 00	3.84211E 01	1.65068E 03	
38.30	9.77441E-01	3.75207E 01	1.41956E 00	-4.15068E-04	-1.37754E 00	3.85211E 01	1.65150E 03	
38.40	9.77441E-01	3.76207E 01	1.42725E 00	-4.15262E-04	-1.38513E 00	3.86212E 01	1.65233E 03	
38.50	9.77441E-01	3.77207E 01	1.43496E 00	-4.15455E-04	-1.39273E 00	3.87213E 01	1.65316E 03	
38.60	9.77441E-01	3.78207E 01	1.44269E 00	-4.15647E-04	-1.40036E 00	3.88213E 01	1.65398E 03	
38.70	9.77441E-01	3.79207E 01	1.45044E 00	-4.15837E-04	-1.40801E 00	3.89214E 01	1.65480E 03	
38.80	9.77441E-01	3.80208E 01	1.45821E 00	-4.16026E-04	-1.41569E 00	3.90215E 01	1.65561E 03	
38.90	9.77441E-01	3.81208E 01	1.46601E 00	-4.16214E-04	-1.42338E 00	3.91216E 01	1.65643E 03	
39.00	9.77441E-01	3.82208E 01	1.47382E 00	-4.16400E-04	-1.43109E 00	3.92217E 01	1.65724E 03	
39.10	9.77440E-01	3.83209E 01	1.48166E 00	-4.16586E-04	-1.43883E 00	3.93218E 01	1.65804E 03	
39.20	9.77440E-01	3.84209E 01	1.48952E 00	-4.16768E-04	-1.44658E 00	3.94219E 01	1.65886E 03	
39.30	9.77440E-01	3.85210E 01	1.49739E 00	-4.16951E-04	-1.45436E 00	3.95221E 01	1.65966E 03	
39.40	9.77440E-01	3.86210E 01	1.50529E 00	-4.17131E-04	-1.46216E 00	3.96222E 01	1.66046E 03	
39.50	9.77440E-01	3.87211E 01	1.51321E 00	-4.17311E-04	-1.46998E 00	3.97223E 01	1.66126E 03	
39.60	9.77440E-01	3.88212E 01	1.52115E 00	-4.17489E-04	-1.47782E 00	3.98224E 01	1.66206E 03	
39.70	9.77440E-01	3.89213E 01	1.52912E 00	-4.17666E-04	-1.48568E 00	3.99226E 01	1.66286E 03	
39.80	9.77440E-01	3.90213E 01	1.53710E 00	-4.17842E-04	-1.49356E 00	4.00227E 01	1.66365E 03	
39.90	9.77440E-01	3.91214E 01	1.54511E 00	-4.18016E-04	-1.50146E 00	4.01229E 01	1.66444E 03	
40.00	9.77440E-01	3.92215E 01	1.55313E 00	-4.18189E-04	-1.50939E 00	4.02231E 01	1.66524E 03	
40.10	9.77439E-01	3.93216E 01	1.56118E 00	-4.18361E-04	-1.51733E 00	4.03232E 01	1.66602E 03	
40.20	9.77439E-01	3.94217E 01	1.56925E 00	-4.18531E-04	-1.52530E 00	4.04234E 01	1.66681E 03	
40.30	9.77439E-01	3.95218E 01	1.57734E 00	-4.18700E-04	-1.53329E 00	4.05236E 01	1.66759E 03	
40.40	9.77439E-01	3.96220E 01	1.58545E 00	-4.18868E-04	-1.54129E 00	4.06238E 01	1.66838E 03	
40.50	9.77439E-01	3.97221E 01	1.59358E 00	-4.19035E-04	-1.54932E 00	4.07239E 01	1.66916E 03	
40.60	9.77439E-01	3.98222E 01	1.60173E 00	-4.19201E-04	-1.55737E 00	4.08241E 01	1.66993E 03	
40.70	9.77439E-01	3.99224E 01	1.60990E 00	-4.19365E-04	-1.56545E 00	4.09243E 01	1.67071E 03	
40.80	9.77439E-01	4.00225E 01	1.61810E 00	-4.19528E-04	-1.57354E 00	4.10246E 01	1.67148E 03	
40.90	9.77439E-01	4.01226E 01	1.62631E 00	-4.19690E-04	-1.58165E 00	4.11248E 01	1.67226E 03	
41.00	9.77439E-01	4.02228E 01	1.63455E 00	-4.19850E-04	-1.58979E 00	4.12250E 01	1.67303E 03	
41.10	9.77439E-01	4.03230E 01	1.64281E 00	-4.20010E-04	-1.59794E 00	4.13252E 01	1.67380E 03	
41.20	9.77438E-01	4.04231E 01	1.65109E 00	-4.20168E-04	-1.60612E 00	4.14255E 01	1.67456E 03	
41.30	9.77438E-01	4.05233E 01	1.65939E 00	-4.20325E-04	-1.61432E 00	4.15257E 01	1.67533E 03	
41.40	9.77438E-01	4.06235E 01	1.66771E 00	-4.20481E-04	-1.62254E 00	4.16259E 01	1.67609E 03	
41.50	9.77438E-01	4.07237E 01	1.67605E 00	-4.20636E-04	-1.63078E 00	4.17262E 01	1.67685E 03	
41.60	9.77438E-01	4.08238E 01	1.68441E 00	-4.20789E-04	-1.63904E 00	4.18264E 01	1.67761E 03	
41.70	9.77438E-01	4.09240E 01	1.69280E 00	-4.20942E-04	-1.64733E 00	4.19267E 01	1.67837E 03	
41.80	9.77438E-01	4.10242E 01	1.70120E 00	-4.21093E-04	-1.65563E 00	4.20270E 01	1.67913E 03	
41.90	9.77438E-01	4.11244E 01	1.70963E 00	-4.21243E-04	-1.66396E 00	4.21273E 01	1.67988E 03	
42.00	9.77438E-01	4.12247E 01	1.71808E 00	-4.21392E-04	-1.67230E 00	4.22275E 01	1.68063E 03	





ELECTRON RADIAL FUNCTIONS

Positron	$Z=2 \quad A=4 \quad \rho=1.2 A^{1/3} F$						
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$
0.10	6.10213E-01	5.30341E-03	-1.34762E-05	6.21070E-02	6.43251E-04	1.10341E-01	1.20344E 01
0.20	7.85806E-01	2.44802E-02	-6.16088E-05	3.09460E-02	1.44854E-03	2.49519E-01	2.38453E 01
0.30	8.50399E-01	5.65708E-02	-1.40117E-04	2.05825E-02	2.23191E-03	3.87115E-01	3.56618E 01
0.40	8.83113E-01	1.00272E-01	-2.42917E-04	1.53824E-02	2.98144E-03	5.22032E-01	4.74056E 01
0.50	9.02461E-01	1.54061E-01	-3.62838E-04	1.22459E-02	3.68993E-03	6.53802E-01	5.90349E 01
0.60	9.14998E-01	2.16370E-01	-4.92451E-04	1.01419E-02	4.35297E-03	7.82259E-01	7.05193E 01
0.70	9.23629E-01	2.85718E-01	-6.24696E-04	8.62914E-03	4.96829E-03	9.07442E-01	8.18364E 01
0.80	9.29835E-01	3.60780E-01	-7.53237E-04	7.48688E-03	5.53521E-03	1.02953E 00	9.29700E 01
0.90	9.34446E-01	4.40346E-01	-8.72659E-04	6.59253E-03	6.05408E-03	1.14878E 00	1.03909E 02
1.00	9.37963E-01	5.23753E-01	-9.78442E-04	5.87243E-03	6.52586E-03	1.26549E 00	1.14647E 02
1.10	9.40704E-01	6.09976E-01	-1.06691E-03	5.27966E-03	6.95184E-03	1.37995E 00	1.25179E 02
1.20	9.42878E-01	6.98502E-01	-1.13510E-03	4.78282E-03	7.33340E-03	1.49245E 00	1.35505E 02
1.30	9.44630E-01	7.88856E-01	-1.18065E-03	4.36015E-03	7.67192E-03	1.60323E 00	1.45625E 02
1.40	9.46061E-01	8.80660E-01	-1.20171E-03	3.99604E-03	7.96869E-03	1.71252E 00	1.55540E 02
1.50	9.47243E-01	9.73618E-01	-1.19678E-03	3.67900E-03	8.22489E-03	1.82054E 00	1.65254E 02
1.60	9.48230E-01	1.06750E 00	-1.16470E-03	3.40039E-03	8.44156E-03	1.92744E 00	1.74771E 02
1.70	9.49061E-01	1.16212E 00	-1.10452E-03	3.15356E-03	8.61962E-03	2.03337E 00	1.84093E 02
1.80	9.49769E-01	1.25732E 00	-1.01552E-03	2.93336E-03	8.75987E-03	2.13848E 00	1.93226E 02
1.90	9.50374E-01	1.35301E 00	-8.97102E-04	2.73565E-03	8.86300E-03	2.24285E 00	2.02174E 02
2.00	9.50897E-01	1.44907E 00	-7.48787E-04	2.55715E-03	8.92961E-03	2.34659E 00	2.10941E 02
2.10	9.51350E-01	1.54543E 00	-5.70199E-04	2.39516E-03	8.96023E-03	2.44977E 00	2.19531E 02
2.20	9.51746E-01	1.64204E 00	-3.61034E-04	2.24750E-03	8.95531E-03	2.55247E 00	2.27951E 02
2.30	9.52093E-01	1.73882E 00	-1.21049E-04	2.11233E-03	8.91522E-03	2.65473E 00	2.36204E 02
2.40	9.52399E-01	1.83574E 00	1.49948E-04	1.98813E-03	8.84030E-03	2.75662E 00	2.44294E 02
2.50	9.52671E-01	1.93275E 00	4.52103E-04	1.87361E-03	8.73085E-03	2.85817E 00	2.52226E 02
2.60	9.52912E-01	2.02979E 00	7.85516E-04	1.76768E-03	8.58712E-03	2.95942E 00	2.60005E 02
2.70	9.53128E-01	2.12679E 00	1.15024E-03	1.66940E-03	8.40932E-03	3.06040E 00	2.67634E 02
2.80	9.53321E-01	2.22365E 00	1.54624E-03	1.57798E-03	8.19767E-03	3.16115E 00	2.75118E 02
2.90	9.53496E-01	2.32019E 00	1.97336E-03	1.49271E-03	7.95231E-03	3.26168E 00	2.82460E 02
3.00	9.53652E-01	2.41599E 00	2.43107E-03	1.41300E-03	7.67340E-03	3.36202E 00	2.89665E 02
3.10	9.53795E-01	2.50976E 00	2.91757E-03	1.33833E-03	7.36107E-03	3.46219E 00	2.96735E 02
3.20	9.53924E-01	2.59455E 00	3.42276E-03	1.26822E-03	7.01543E-03	3.56220E 00	3.03676E 02
3.30	9.54041E-01	2.92992E 00	4.32564E-03	1.20226E-03	6.63659E-03	3.66207E 00	3.10490E 02
3.40	9.54149E-01	2.83524E 00	4.63257E-03	1.14011E-03	6.22464E-03	3.76181E 00	3.17180E 02
3.50	9.54247E-01	2.92363E 00	5.23872E-03	1.08144E-03	5.77966E-03	3.86144E 00	3.23750E 02
3.60	9.54337E-01	3.01819E 00	5.88586E-03	1.02597E-03	5.30171E-03	3.96096E 00	3.30204E 02
3.70	9.54419E-01	3.11443E 00	6.56744E-03	9.73436E-04	4.79087E-03	4.06038E 00	3.36543E 02
3.80	9.54496E-01	3.21137E 00	7.28208E-03	9.23620E-04	4.24718E-03	4.15971E 00	3.42772E 02
3.90	9.54566E-01	3.30867E 00	8.02928E-03	8.76310E-04	3.67071E-03	4.25896E 00	3.48893E 02
4.00	9.54630E-01	3.40618E 00	8.80886E-03	8.31324E-04	3.06150E-03	4.35814E 00	3.54908E 02
4.10	9.54690E-01	3.50382E 00	9.62072E-03	7.88495E-04	2.41958E-03	4.45725E 00	3.60821E 02
4.20	9.54746E-01	3.60156E 00	1.04648E-02	7.47673E-04	1.74500E-03	4.55629E 00	3.66634E 02
4.30	9.54798E-01	3.69936E 00	1.13411E-02	7.08718E-04	1.03779E-03	4.65528E 00	3.72349E 02
4.40	9.54846E-01	3.79720E 00	1.22496E-02	6.71508E-04	2.97984E-04	4.75421E 00	3.77970E 02
4.50	9.54890E-01	3.89509E 00	1.31902E-02	6.35925E-04	-4.74398E-04	4.85309E 00	3.83498E 02
4.60	9.54932E-01	3.99300E 00	1.41631E-02	6.01866E-04	-1.27933E-03	4.95193E 00	3.88935E 02
4.70	9.54971E-01	4.09094E 00	1.51681E-02	5.69234E-04	-2.11678E-03	5.05072E 00	3.94284E 02
4.80	9.55007E-01	4.18889E 00	1.62053E-02	5.37945E-04	-2.98674E-03	5.14947E 00	3.99548E 02
4.90	9.55041E-01	4.28686E 00	1.72747E-02	5.07913E-04	-3.88918E-03	5.24819E 00	4.04727E 02
5.00	9.55072E-01	4.38484E 00	1.83762E-02	4.79067E-04	-4.82409E-03	5.34687E 00	4.09825E 02
5.10	9.55102E-01	4.48283E 00	1.95100E-02	4.51338E-04	-5.79145E-03	5.44552E 00	4.14842E 02
5.20	9.55130E-01	4.58082E 00	2.06759E-02	4.24662E-04	-6.79126E-03	5.54414E 00	4.19782E 02
5.30	9.55156E-01	4.67883E 00	2.18740E-02	3.98978E-04	-7.82348E-03	5.64273E 00	4.24645E 02
5.40	9.55181E-01	4.77684E 00	2.31044E-02	3.74235E-04	-8.88812E-03	5.74130E 00	4.29433E 02
5.50	9.55205E-01	4.87486E 00	2.43669E-02	3.50381E-04	-9.98517E-03	5.83984E 00	4.34149E 02
5.60	9.55227E-01	4.97288E 00	2.56616E-02	3.27369E-04	-1.11146E-02	5.93836E 00	4.38794E 02
5.70	9.55247E-01	5.07090E 00	2.69885E-02	3.05158E-04	-1.22764E-02	6.03686E 00	4.43370E 02
5.80	9.55267E-01	5.16893E 00	2.83476E-02	2.83702E-04	-1.34706E-02	6.13534E 00	4.47877E 02
5.90	9.55285E-01	5.26696E 00	2.97389E-02	2.62969E-04	-1.46972E-02	6.23380E 00	4.52318E 02
6.00	9.55303E-01	5.36499E 00	3.11624E-02	2.42917E-04	-1.59561E-02	6.33225E 00	4.56694E 02

## ELECTRON RADIAL FUNCTIONS

 $Z=2$  $A=4$  $\rho=1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	4.20932E-09	8.32769E-07	-1.13075E-09	-7.34373E 00	6.10514E-08	1.83283E-05	6.25682E-02
0.20	2.13447E-08	7.95970E-06	-1.06915E-08	-1.45950E 01	2.72757E-07	8.22454E-05	3.19465E-02
0.30	5.18226E-08	2.77545E-05	-3.66165E-08	-2.15249E 01	6.29262E-07	1.91121E-04	2.21060E-02
0.40	9.55773E-08	6.57275E-05	-8.45742E-08	-2.80393E 01	1.11968E-06	3.43467E-04	1.74077E-02
0.50	1.52542E-07	1.26350E-04	-1.57469E-07	-3.40717E 01	1.73073E-06	5.37582E-04	1.47473E-02
0.60	2.22658E-07	2.13048E-04	-2.55398E-07	-3.95901E 01	2.44795E-06	7.71749E-04	1.30913E-02
0.70	3.05879E-07	3.28318E-04	-3.75938E-07	-4.45914E 01	3.25661E-06	1.04438E-03	1.19971E-02
0.80	4.02164E-07	4.73878E-04	-5.14573E-07	-4.90943E 01	4.14227E-06	1.35410E-03	1.12442E-02
0.90	5.11483E-07	6.50891E-04	-6.65215E-07	-5.31313E 01	5.09110E-06	1.69976E-03	1.07106E-02
1.00	6.33813E-07	8.60080E-04	-8.20584E-07	-5.67419E 01	6.08999E-06	2.08044E-03	1.03241E-02
1.10	7.69134E-07	1.10187E-03	-9.72575E-07	-5.99684E 01	7.12653E-06	2.49543E-03	1.00396E-02
1.20	9.17432E-07	1.37651E-03	-1.11253E-06	-6.28525E 01	8.18889E-06	2.94416E-03	9.82744E-03
1.30	1.07869E-06	1.68409E-03	-1.23140E-06	-6.54336E 01	9.26577E-06	3.42621E-03	9.66778E-03
1.40	1.25291E-06	2.02462E-03	-1.31992E-06	-6.77475E 01	1.03463E-05	3.94127E-03	9.54687E-03
1.50	1.44008E-06	2.39807E-03	-1.36864E-06	-6.98266E 01	1.14198E-05	4.48908E-03	9.45496E-03
1.60	1.64019E-06	2.80433E-03	-1.36805E-06	-7.16994E 01	1.24760E-05	5.06948E-03	9.38503E-03
1.70	1.85324E-06	3.24329E-03	-1.30856E-06	-7.33908E 01	1.35049E-05	5.68232E-03	9.33195E-03
1.80	2.07923E-06	3.71476E-03	-1.18060E-06	-7.49227E 01	1.44963E-05	6.32751E-03	9.29189E-03
1.90	2.31814E-06	4.21848E-03	-9.74592E-07	-7.63140E 01	1.54404E-05	7.00497E-03	9.26198E-03
2.00	2.56999E-06	4.75404E-03	-6.80995E-07	-7.75812E 01	1.63274E-05	7.71465E-03	9.24003E-03
2.10	2.83477E-06	5.32067E-03	-2.90393E-07	-7.87385E 01	1.71477E-05	8.45651E-03	9.22436E-03
2.20	3.11247E-06	5.91668E-03	2.06339E-07	-7.97984E 01	1.78915E-05	9.23051E-03	9.21366E-03
2.30	3.40309E-06	6.53726E-03	8.17331E-07	-8.07716E 01	1.85492E-05	1.00366E-02	9.20692E-03
2.40	3.70664E-06	7.15959E-03	1.54508E-06	-8.16674E 01	1.91112E-05	1.08749E-02	9.20335E-03
2.50	4.02312E-06	6.36570E-03	1.95520E-06	-8.24940E 01	1.95678E-05	1.17452E-02	9.20229E-03
2.60	4.35252E-06	8.80508E-03	3.51316E-06	-8.32586E 01	1.99097E-05	1.26476E-02	9.20325E-03
2.70	4.69484E-06	9.51471E-03	4.67454E-06	-8.39675E 01	2.01271E-05	1.35822E-02	9.20583E-03
2.80	5.05007E-06	1.02960E-02	6.01301E-06	-8.46261E 01	2.02105E-05	1.45488E-02	9.20970E-03
2.90	5.41824E-06	1.11191E-02	7.52879E-06	-8.52392E 01	2.01505E-05	1.55474E-02	9.21458E-03
3.00	5.79931E-06	1.19781E-02	9.22964E-06	-8.58112E 01	1.99375E-05	1.65782E-02	9.22028E-03
3.10	6.19332E-06	1.28714E-02	1.11246E-05	-8.63458E 01	1.95619E-05	1.76411E-02	9.22661E-03
3.20	6.60024E-06	1.37980E-02	1.32230E-05	-8.68463E 01	1.91043E-05	1.87360E-02	9.23343E-03
3.30	7.02008E-06	1.47577E-02	1.55342E-05	-8.73158E 01	1.82851E-05	1.98630E-02	9.24064E-03
3.40	7.45284E-06	1.57501E-02	1.80677E-05	-8.77569E 01	1.73647E-05	2.10222E-02	9.24812E-03
3.50	7.89852E-06	1.67751E-02	2.08331E-05	-8.81720E 01	1.62438E-05	2.22134E-02	9.25580E-03
3.60	8.35710E-06	1.78326E-02	2.38399E-05	-8.85633E 01	1.49128E-05	2.34367E-02	9.26363E-03
3.70	8.82862E-06	1.89225E-02	2.70975E-05	-8.89325E 01	1.33621E-05	2.46921E-02	9.27154E-03
3.80	9.31305E-06	2.00449E-02	3.06156E-05	-8.92816E 01	1.15823E-05	2.59796E-02	9.27949E-03
3.90	9.81040E-06	2.11997E-02	3.44037E-05	-8.96119E 01	9.56380E-06	2.72992E-02	9.28746E-03
4.00	1.03207E-05	2.23868E-02	3.84712E-05	-8.99249E 01	7.29715E-06	2.86509E-02	9.29540E-03
4.10	1.08439E-05	2.36062E-02	4.28278E-05	-9.02219E 01	4.77283E-06	3.00347E-02	9.30329E-03
4.20	1.13800E-05	2.48579E-02	4.74830E-05	-9.05041E 01	1.98131E-06	3.14506E-02	9.31112E-03
4.30	1.19290E-05	2.61419E-02	5.24462E-05	-9.07724E 01	-1.08690E-06	3.28986E-02	9.31887E-03
4.40	1.24909E-05	2.74582E-02	5.77270E-05	-9.10279E 01	-4.44133E-06	3.43787E-02	9.32653E-03
4.50	1.30658E-05	2.88067E-02	6.33351E-05	-9.12714E 01	-8.09148E-06	3.58909E-02	9.33408E-03
4.60	1.36536E-05	3.01875E-02	6.92797E-05	-9.15037E 01	-1.20469E-05	3.74353E-02	9.34152E-03
4.70	1.42543E-05	3.16005E-02	7.55706E-05	-9.17256E 01	-1.63170E-05	3.90118E-02	9.34885E-03
4.80	1.48679E-05	3.30458E-02	8.22172E-05	-9.19376E 01	-2.09114E-05	4.06203E-02	9.35605E-03
4.90	1.54944E-05	3.45233E-02	8.92291E-05	-9.21405E 01	-2.58395E-05	4.22610E-02	9.36314E-03
5.00	1.61338E-05	3.60331E-02	9.66158E-05	-9.23347E 01	-3.11109E-05	4.39339E-02	9.37009E-03
5.10	1.67862E-05	3.75750E-02	1.04387E-04	-9.25209E 01	-3.67352E-05	4.56388E-02	9.37692E-03
5.20	1.74515E-05	3.91492E-02	1.12552E-04	-9.26995E 01	-4.27217E-05	4.73758E-02	9.38362E-03
5.30	1.81297E-05	4.07555E-02	1.21120E-04	-9.28709E 01	-4.90800E-05	4.91450E-02	9.39020E-03
5.40	1.88208E-05	4.23941E-02	1.30101E-04	-9.30355E 01	-5.58197E-05	5.09463E-02	9.39664E-03
5.50	1.95248E-05	4.40649E-02	1.39504E-04	-9.31938E 01	-6.29502E-05	5.27797E-02	9.40296E-03
5.60	2.02418E-05	4.57679E-02	1.49339E-04	-9.33461E 01	-7.04810E-05	5.46453E-02	9.40915E-03
5.70	2.09716E-05	4.75031E-02	1.59616E-04	-9.34927E 01	-7.84217E-05	5.65430E-02	9.41522E-03
5.80	2.17144E-05	4.92704E-02	1.70344E-04	-9.36339E 01	-8.67818E-05	5.84728E-02	9.42117E-03
5.90	2.24701E-05	5.10700E-02	1.81532E-04	-9.37700E 01	-9.55708E-05	6.04347E-02	9.42700E-03
6.00	2.32387E-05	5.29018E-02	1.93190E-04	-9.39012E 01	-1.04798E-04	6.24287E-02	9.43271E-03



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=2$		$A=4$		$\rho=1.2 A^{1/3} F$		
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
6.10	9.55319E-01	5.46303E 00	3.26182E-02	2.23518E-04	-1.72474E-02	6.43068E 00	4.61007E 02
6.20	9.55335E-01	5.56106E 00	3.41061E-02	2.04738E-04	-1.85711E-02	6.52909E 00	4.65258E 02
6.30	9.55350E-01	5.65910E 00	3.56263E-02	1.86549E-04	-1.99271E-02	6.62749E 00	4.69448E 02
6.40	9.55363E-01	5.75714E 00	3.71787E-02	1.68922E-04	-2.13154E-02	6.72588E 00	4.73578E 02
6.50	9.55377E-01	5.85519E 00	3.87633E-02	1.51836E-04	-2.27361E-02	6.82425E 00	4.77651E 02
6.60	9.55389E-01	5.95323E 00	4.03801E-02	1.35261E-04	-2.41891E-02	6.92262E 00	4.81666E 02
6.70	9.55401E-01	6.05128E 00	4.20291E-02	1.19179E-04	-2.56744E-02	7.02097E 00	4.85627E 02
6.80	9.55413E-01	6.14932E 00	4.37104E-02	1.03566E-04	-2.71921E-02	7.11932E 00	4.89532E 02
6.90	9.55423E-01	6.24737E 00	4.54239E-02	8.84019E-05	-2.87421E-02	7.21765E 00	4.93384E 02
7.00	9.55434E-01	6.34542E 00	4.71696E-02	7.36702E-05	-3.03244E-02	7.31598E 00	4.97185E 02
7.10	9.55443E-01	6.44347E 00	4.89476E-02	5.93491E-05	-3.19390E-02	7.41429E 00	5.00933E 02
7.20	9.55453E-01	6.54153E 00	5.07578E-02	4.54238E-05	-3.35860E-02	7.51260E 00	5.04632E 02
7.30	9.55461E-01	6.63958E 00	5.26002E-02	3.18769E-05	-3.52652E-02	7.61091E 00	5.08282E 02
7.40	9.55470E-01	6.73764E 00	5.44749E-02	1.86967E-05	-3.69768E-02	7.70920E 00	5.11884E 02
7.50	9.55478E-01	6.83569E 00	5.63818E-02	5.86292E-06	-3.87207E-02	7.80749E 00	5.15438E 02
7.60	9.55485E-01	6.93375E 00	5.83209E-02	-6.63310E-06	-4.04970E-02	7.90578E 00	5.18946E 02
7.70	9.55492E-01	7.03181E 00	6.02923E-02	-1.88036E-05	-4.23055E-02	8.00406E 00	5.22410E 02
7.80	9.55499E-01	7.12987E 00	6.22960E-02	-3.06663E-05	-4.41463E-02	8.10234E 00	5.25829E 02
7.90	9.55506E-01	7.22794E 00	6.43319E-02	-4.22292E-05	-4.60195E-02	8.20061E 00	5.29204E 02
8.00	9.55512E-01	7.32600E 00	6.64000E-02	-5.35016E-05	-4.79250E-02	8.29888E 00	5.32537E 02
8.10	9.55518E-01	7.42407E 00	6.85005E-02	-6.44992E-05	-4.98628E-02	8.39714E 00	5.35828E 02
8.20	9.55523E-01	7.52214E 00	7.06331E-02	-7.52277E-05	-5.18329E-02	8.49540E 00	5.39078E 02
8.30	9.55529E-01	7.62021E 00	7.27981E-02	-8.57001E-05	-5.38353E-02	8.59366E 00	5.42288E 02
8.40	9.55534E-01	7.71828E 00	7.49953E-02	-9.59199E-05	-5.58701E-02	8.69192E 00	5.45459E 02
8.50	9.55539E-01	7.81636E 00	7.72247E-02	-1.05904E-04	-5.79371E-02	8.79017E 00	5.48590E 02
8.60	9.55544E-01	7.91444E 00	7.94865E-02	-1.15650E-04	-6.00365E-02	8.88843E 00	5.51685E 02
8.70	9.55548E-01	8.01252E 00	8.17805E-02	-1.25176E-04	-6.21682E-02	8.98668E 00	5.54742E 02
8.80	9.55552E-01	8.11060E 00	8.41068E-02	-1.34484E-04	-6.43322E-02	9.08493E 00	5.57762E 02
8.90	9.55556E-01	8.20868E 00	8.64653E-02	-1.43585E-04	-6.65285E-02	9.18317E 00	5.60746E 02
9.00	9.55560E-01	8.30677E 00	8.88561E-02	-1.52482E-04	-6.87572E-02	9.28142E 00	5.63696E 02
9.10	9.55564E-01	8.40485E 00	9.12792E-02	-1.61182E-04	-7.10182E-02	9.37967E 00	5.66611E 02
9.20	9.55568E-01	8.50295E 00	9.37347E-02	-1.69696E-04	-7.33115E-02	9.47791E 00	5.69491E 02
9.30	9.55571E-01	8.60104E 00	9.62224E-02	-1.78023E-04	-7.56371E-02	9.57616E 00	5.72339E 02
9.40	9.55574E-01	8.69914E 00	9.87423E-02	-1.86173E-04	-7.79951E-02	9.67440E 00	5.75155E 02
9.50	9.55577E-01	8.79724E 00	1.01295E-01	-1.94154E-04	-8.03854E-02	9.77265E 00	5.77937E 02
9.60	9.55580E-01	8.89533E 00	1.03879E-01	-2.01965E-04	-8.28080E-02	9.87089E 00	5.80688E 02
9.70	9.55583E-01	8.99344E 00	1.06496E-01	-2.09616E-04	-8.52629E-02	9.96914E 00	5.83408E 02
9.80	9.55586E-01	9.09155E 00	1.09145E-01	-2.17110E-04	-8.77502E-02	1.00674E 01	5.86098E 02
9.90	9.55589E-01	9.18966E 00	1.11827E-01	-2.24449E-04	-9.02699E-02	1.01656E 01	5.88759E 02
10.00	9.55591E-01	9.28777E 00	1.14540E-01	-2.31643E-04	-9.28218E-02	1.02639E 01	5.91390E 02
10.10	9.55593E-01	9.38589E 00	1.17287E-01	-2.38692E-04	-9.54061E-02	1.03621E 01	5.93992E 02
10.20	9.55596E-01	9.48401E 00	1.20065E-01	-2.45605E-04	-9.80228E-02	1.04604E 01	5.96565E 02
10.30	9.55598E-01	9.58213E 00	1.22876E-01	-2.52380E-04	-1.00672E-01	1.05586E 01	5.99111E 02
10.40	9.55600E-01	9.68025E 00	1.25719E-01	-2.59025E-04	-1.03353E-01	1.06569E 01	6.01629E 02
10.50	9.55602E-01	9.77838E 00	1.28594E-01	-2.65540E-04	-1.06067E-01	1.07552E 01	6.04122E 02
10.60	9.55604E-01	9.87652E 00	1.31502E-01	-2.71933E-04	-1.08813E-01	1.08534E 01	6.06587E 02
10.70	9.55605E-01	9.97465E 00	1.34442E-01	-2.78207E-04	-1.11591E-01	1.09517E 01	6.09025E 02
10.80	9.55607E-01	1.00728E 01	1.37414E-01	-2.84362E-04	-1.14402E-01	1.10499E 01	6.11439E 02
10.90	9.55609E-01	1.01709E 01	1.40419E-01	-2.90403E-04	-1.17245E-01	1.11482E 01	6.13828E 02
11.00	9.55610E-01	1.02691E 01	1.43456E-01	-2.96332E-04	-1.20121E-01	1.12465E 01	6.16192E 02
11.10	9.55612E-01	1.03672E 01	1.46525E-01	-3.02156E-04	-1.23029E-01	1.13447E 01	6.18530E 02
11.20	9.55613E-01	1.04654E 01	1.49627E-01	-3.07871E-04	-1.25969E-01	1.14430E 01	6.20847E 02
11.30	9.55614E-01	1.05635E 01	1.52761E-01	-3.13487E-04	-1.28942E-01	1.15413E 01	6.23138E 02
11.40	9.55615E-01	1.06617E 01	1.55927E-01	-3.19003E-04	-1.31947E-01	1.16396E 01	6.25406E 02
11.50	9.55617E-01	1.07599E 01	1.59126E-01	-3.24419E-04	-1.34984E-01	1.17378E 01	6.27653E 02
11.60	9.55618E-01	1.08580E 01	1.62357E-01	-3.29740E-04	-1.38054E-01	1.18361E 01	6.29877E 02
11.70	9.55619E-01	1.09562E 01	1.65621E-01	-3.34971E-04	-1.41156E-01	1.19344E 01	6.32079E 02
11.80	9.55620E-01	1.10544E 01	1.68917E-01	-3.40114E-04	-1.44290E-01	1.20327E 01	6.34258E 02
11.90	9.55621E-01	1.11526E 01	1.72245E-01	-3.45163E-04	-1.47457E-01	1.21310E 01	6.36418E 02
12.00	9.55622E-01	1.12507E 01	1.75605E-01	-3.50130E-04	-1.50657E-01	1.22293E 01	6.38556E 02

## ELECTRON RADIAL FUNCTIONS

 $Z = 2$  $A = 4$  $\rho = 1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	2.40202E-05	5.47657E-02	2.05328E-04	-9.40279E 01	-1.14474E-04	6.44549E-02	9.43830E-03
6.20	2.48147E-05	5.66619E-02	2.17955E-04	-9.41502E 01	-1.24606E-04	6.65132E-02	9.44378E-03
6.30	2.56221E-05	5.85901E-02	2.31080E-04	-9.42884E 01	-1.35206E-04	6.86037E-02	9.44915E-03
6.40	2.64423E-05	6.05506E-02	2.44714E-04	-9.43826E 01	-1.46282E-04	7.07262E-02	9.45441E-03
6.50	2.72755E-05	6.25433E-02	2.58865E-04	-9.44931E 01	-1.57844E-04	7.28809E-02	9.45957E-03
6.60	2.81216E-05	6.45681E-02	2.73543E-04	-9.46001E 01	-1.69902E-04	7.50678E-02	9.46462E-03
6.70	2.89807E-05	6.66252E-02	2.88758E-04	-9.47036E 01	-1.82464E-04	7.72867E-02	9.46957E-03
6.80	2.98526E-05	6.87144E-02	3.04519E-04	-9.48039E 01	-1.95541E-04	7.95378E-02	9.47442E-03
6.90	3.07375E-05	7.08357E-02	3.20835E-04	-9.49011E 01	-2.09142E-04	8.18210E-02	9.47917E-03
7.00	3.16353E-05	7.29893E-02	3.37717E-04	-9.49953E 01	-2.23277E-04	8.41364E-02	9.48383E-03
7.10	3.25460E-05	7.51750E-02	3.55173E-04	-9.50867E 01	-2.37954E-04	8.64839E-02	9.48840E-03
7.20	3.34696E-05	7.73928E-02	3.73214E-04	-9.51754E 01	-2.53185E-04	8.88635E-02	9.49288E-03
7.30	3.44061E-05	7.96428E-02	3.91849E-04	-9.52614E 01	-2.68977E-04	9.12752E-02	9.49727E-03
7.40	3.53556E-05	8.19250E-02	4.11086E-04	-9.53451E 01	-2.85341E-04	9.37191E-02	9.50157E-03
7.50	3.63179E-05	8.42394E-02	4.30937E-04	-9.54263E 01	-3.02285E-04	9.61951E-02	9.50579E-03
7.60	3.72932E-05	8.65859E-02	4.51409E-04	-9.55053E 01	-3.19821E-04	9.87032E-02	9.50993E-03
7.70	3.82814E-05	8.89646E-02	4.72514E-04	-9.55821E 01	-3.37957E-04	1.01243E-01	9.51399E-03
7.80	3.92825E-05	9.13754E-02	4.94260E-04	-9.56568E 01	-3.56702E-04	1.03816E-01	9.51797E-03
7.90	4.02965E-05	9.38184E-02	5.16656E-04	-9.57294E 01	-3.76066E-04	1.06420E-01	9.52188E-03
8.00	4.13235E-05	9.62936E-02	5.39714E-04	-9.58002E 01	-3.96059E-04	1.09057E-01	9.52571E-03
8.10	4.23633E-05	9.88009E-02	5.63440E-04	-9.58691E 01	-4.16690E-04	1.11726E-01	9.52948E-03
8.20	4.34161E-05	1.01340E-01	5.87847E-04	-9.59362E 01	-4.37969E-04	1.14427E-01	9.53317E-03
8.30	4.44818E-05	1.03912E-01	6.12942E-04	-9.60015E 01	-4.59905E-04	1.17160E-01	9.53680E-03
8.40	4.55604E-05	1.06516E-01	6.38735E-04	-9.60653E 01	-4.82508E-04	1.19925E-01	9.54035E-03
8.50	4.66519E-05	1.09152E-01	6.65237E-04	-9.61274E 01	-5.05787E-04	1.22722E-01	9.54385E-03
8.60	4.77564E-05	1.11820E-01	6.92456E-04	-9.61880E 01	-5.29751E-04	1.25552E-01	9.54728E-03
8.70	4.88737E-05	1.14520E-01	7.20401E-04	-9.62471E 01	-5.54411E-04	1.28413E-01	9.55065E-03
8.80	5.00040E-05	1.17252E-01	7.49084E-04	-9.63048E 01	-5.79776E-04	1.31307E-01	9.55396E-03
8.90	5.11472E-05	1.20017E-01	7.78512E-04	-9.63611E 01	-6.05855E-04	1.34233E-01	9.55721E-03
9.00	5.23033E-05	1.22814E-01	8.08696E-04	-9.64161E 01	-6.32657E-04	1.37191E-01	9.56041E-03
9.10	5.34723E-05	1.25642E-01	8.39644E-04	-9.64698E 01	-6.60193E-04	1.40181E-01	9.56354E-03
9.20	5.46542E-05	1.28503E-01	8.71367E-04	-9.65222E 01	-6.88472E-04	1.43203E-01	9.56663E-03
9.30	5.58491E-05	1.31397E-01	9.03875E-04	-9.65735E 01	-7.17503E-04	1.46257E-01	9.56966E-03
9.40	5.70568E-05	1.34322E-01	9.37175E-04	-9.66236E 01	-7.47296E-04	1.49344E-01	9.57264E-03
9.50	5.82775E-05	1.37279E-01	9.71279E-04	-9.66726E 01	-7.77860E-04	1.52462E-01	9.57557E-03
9.60	5.95111E-05	1.40269E-01	1.00620E-03	-9.67205E 01	-8.09205E-04	1.55613E-01	9.57845E-03
9.70	6.07576E-05	1.43290E-01	1.04193E-03	-9.67673E 01	-8.41340E-04	1.58796E-01	9.58128E-03
9.80	6.20170E-05	1.46344E-01	1.07850E-03	-9.68132E 01	-8.74275E-04	1.62011E-01	9.58406E-03
9.90	6.32894E-05	1.49430E-01	1.11591E-03	-9.68580E 01	-9.08020E-04	1.65258E-01	9.58680E-03
10.00	6.45746E-05	1.52548E-01	1.15418E-03	-9.69019E 01	-9.42583E-04	1.68537E-01	9.58950E-03
10.10	6.58728E-05	1.55699E-01	1.19330E-03	-9.69449E 01	-9.77975E-04	1.71848E-01	9.59215E-03
10.20	6.71840E-05	1.58881E-01	1.23329E-03	-9.69870E 01	-1.01420E-03	1.75192E-01	9.59475E-03
10.30	6.85080E-05	1.62096E-01	1.27416E-03	-9.70282E 01	-1.05128E-03	1.78567E-01	9.59732E-03
10.40	6.98449E-05	1.65342E-01	1.31592E-03	-9.70686E 01	-1.08922E-03	1.81975E-01	9.59985E-03
10.50	7.11947E-05	1.68621E-01	1.35858E-03	-9.71082E 01	-1.12802E-03	1.85415E-01	9.60233E-03
10.60	7.25575E-05	1.71932E-01	1.40214E-03	-9.71470E 01	-1.16769E-03	1.88887E-01	9.60478E-03
10.70	7.39332E-05	1.75275E-01	1.44662E-03	-9.71850E 01	-1.20825E-03	1.92391E-01	9.60718E-03
10.80	7.53217E-05	1.78650E-01	1.49203E-03	-9.72223E 01	-1.24971E-03	1.95927E-01	9.60955E-03
10.90	7.67232E-05	1.82057E-01	1.53838E-03	-9.72588E 01	-1.29207E-03	1.99495E-01	9.61189E-03
11.00	7.81377E-05	1.85497E-01	1.58567E-03	-9.72947E 01	-1.33535E-03	2.03096E-01	9.61418E-03
11.10	7.95650E-05	1.88968E-01	1.63391E-03	-9.73299E 01	-1.37954E-03	2.06728E-01	9.61645E-03
11.20	8.10052E-05	1.92472E-01	1.68312E-03	-9.73644E 01	-1.42468E-03	2.10393E-01	9.61868E-03
11.30	8.24584E-05	1.96008E-01	1.73331E-03	-9.73982E 01	-1.47075E-03	2.14090E-01	9.62087E-03
11.40	8.39245E-05	1.99576E-01	1.78448E-03	-9.74315E 01	-1.51778E-03	2.17818E-01	9.62304E-03
11.50	8.54035E-05	2.03176E-01	1.83664E-03	-9.74641E 01	-1.56576E-03	2.21579E-01	9.62517E-03
11.60	8.68954E-05	2.06808E-01	1.88980E-03	-9.74961E 01	-1.61472E-03	2.25373E-01	9.62727E-03
11.70	8.84003E-05	2.10473E-01	1.94398E-03	-9.75276E 01	-1.66466E-03	2.29198E-01	9.62934E-03
11.80	8.99180E-05	2.14169E-01	1.99918E-03	-9.75585E 01	-1.71559E-03	2.33055E-01	9.63138E-03
11.90	9.14487E-05	2.17898E-01	2.05541E-03	-9.75888E 01	-1.76752E-03	2.36945E-01	9.63339E-03
12.00	9.29922E-05	2.21658E-01	2.11268E-03	-9.76186E 01	-1.82045E-03	2.40866E-01	9.63537E-03



## ELECTRON RADIAL FUNCTIONS

Positron $p$	$Z=2 \quad A=4 \quad \rho=1.2 A^{1/3} F$							
	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	9.55622E-01	1.13489E 01	1.78999E-01	-3.55014E-04	-1.53888E-01	1.23276E 01	6.40673E 02	
12.20	9.55623E-01	1.14471E 01	1.82424E-01	-3.59818E-04	-1.57153E-01	1.24259E 01	6.42769E 02	
12.30	9.55624E-01	1.15453E 01	1.85882E-01	-3.64538E-04	-1.60449E-01	1.25242E 01	6.44847E 02	
12.40	9.55625E-01	1.16435E 01	1.89372E-01	-3.69182E-04	-1.63778E-01	1.26225E 01	6.46904E 02	
12.50	9.55625E-01	1.17417E 01	1.92894E-01	-3.73752E-04	-1.67139E-01	1.27208E 01	6.48941E 02	
12.60	9.55626E-01	1.18399E 01	1.96449E-01	-3.78246E-04	-1.70533E-01	1.28191E 01	6.50960E 02	
12.70	9.55627E-01	1.19381E 01	2.00036E-01	-3.82669E-04	-1.73959E-01	1.29175E 01	6.52960E 02	
12.80	9.55627E-01	1.20364E 01	2.03656E-01	-3.87021E-04	-1.77418E-01	1.30158E 01	6.54942E 02	
12.90	9.55628E-01	1.21346E 01	2.07308E-01	-3.91303E-04	-1.80909E-01	1.31141E 01	6.56905E 02	
13.00	9.55628E-01	1.22328E 01	2.10993E-01	-3.95519E-04	-1.84432E-01	1.32124E 01	6.58850E 02	
13.10	9.55628E-01	1.23310E 01	2.14710E-01	-3.99668E-04	-1.87988E-01	1.33108E 01	6.60777E 02	
13.20	9.55629E-01	1.24293E 01	2.18459E-01	-4.03755E-04	-1.91577E-01	1.34091E 01	6.62687E 02	
13.30	9.55629E-01	1.25275E 01	2.22241E-01	-4.07776E-04	-1.95197E-01	1.35075E 01	6.64580E 02	
13.40	9.55630E-01	1.26258E 01	2.26055E-01	-4.11735E-04	-1.98851E-01	1.36058E 01	6.66457E 02	
13.50	9.55630E-01	1.27240E 01	2.29902E-01	-4.15636E-04	-2.02536E-01	1.37042E 01	6.68316E 02	
13.60	9.55630E-01	1.28223E 01	2.33781E-01	-4.19476E-04	-2.06254E-01	1.38025E 01	6.70159E 02	
13.70	9.55630E-01	1.29205E 01	2.37692E-01	-4.23259E-04	-2.10005E-01	1.39009E 01	6.71986E 02	
13.80	9.55631E-01	1.30188E 01	2.41636E-01	-4.26987E-04	-2.13788E-01	1.39993E 01	6.73797E 02	
13.90	9.55631E-01	1.31171E 01	2.45613E-01	-4.30659E-04	-2.17603E-01	1.40977E 01	6.75592E 02	
14.00	9.55631E-01	1.32154E 01	2.49621E-01	-4.34276E-04	-2.21451E-01	1.41960E 01	6.77372E 02	
14.10	9.55631E-01	1.33136E 01	2.53663E-01	-4.37840E-04	-2.25332E-01	1.42944E 01	6.79136E 02	
14.20	9.55631E-01	1.34119E 01	2.57736E-01	-4.41351E-04	-2.29245E-01	1.43928E 01	6.80887E 02	
14.30	9.55631E-01	1.35102E 01	2.61843E-01	-4.44815E-04	-2.33190E-01	1.44912E 01	6.82621E 02	
14.40	9.55632E-01	1.36085E 01	2.65981E-01	-4.48227E-04	-2.37168E-01	1.45896E 01	6.84341E 02	
14.50	9.55632E-01	1.37068E 01	2.70152E-01	-4.51589E-04	-2.41178E-01	1.46880E 01	6.86047E 02	
14.60	9.55632E-01	1.38051E 01	2.74356E-01	-4.54903E-04	-2.45221E-01	1.47864E 01	6.87740E 02	
14.70	9.55632E-01	1.39034E 01	2.78592E-01	-4.58171E-04	-2.49297E-01	1.48848E 01	6.89418E 02	
14.80	9.55632E-01	1.40017E 01	2.82861E-01	-4.61395E-04	-2.53404E-01	1.49833E 01	6.91081E 02	
14.90	9.55632E-01	1.41001E 01	2.87162E-01	-4.64571E-04	-2.57545E-01	1.50817E 01	6.92732E 02	
15.00	9.55632E-01	1.41984E 01	2.91495E-01	-4.67704E-04	-2.61718E-01	1.51801E 01	6.94370E 02	
15.10	9.55632E-01	1.42967E 01	2.95861E-01	-4.70794E-04	-2.65923E-01	1.52786E 01	6.95993E 02	
15.20	9.55631E-01	1.43951E 01	3.00260E-01	-4.73841E-04	-2.70161E-01	1.53770E 01	6.97605E 02	
15.30	9.55631E-01	1.44934E 01	3.04691E-01	-4.76848E-04	-2.74431E-01	1.54755E 01	6.99203E 02	
15.40	9.55631E-01	1.45918E 01	3.09155E-01	-4.79813E-04	-2.78734E-01	1.55739E 01	7.00788E 02	
15.50	9.55631E-01	1.46901E 01	3.13651E-01	-4.82738E-04	-2.83070E-01	1.56724E 01	7.02361E 02	
15.60	9.55631E-01	1.47885E 01	3.18179E-01	-4.85624E-04	-2.87438E-01	1.57708E 01	7.03922E 02	
15.70	9.55631E-01	1.48869E 01	3.22740E-01	-4.88471E-04	-2.91838E-01	1.58693E 01	7.05471E 02	
15.80	9.55631E-01	1.49852E 01	3.27334E-01	-4.91281E-04	-2.96272E-01	1.59678E 01	7.07007E 02	
15.90	9.55631E-01	1.50836E 01	3.31960E-01	-4.94054E-04	-3.00737E-01	1.60663E 01	7.08532E 02	
16.00	9.55630E-01	1.51820E 01	3.36619E-01	-4.96790E-04	-3.05236E-01	1.61648E 01	7.10045E 02	
16.10	9.55630E-01	1.52804E 01	3.41310E-01	-4.99491E-04	-3.09766E-01	1.62633E 01	7.11546E 02	
16.20	9.55630E-01	1.53788E 01	3.46034E-01	-5.02155E-04	-3.14330E-01	1.63618E 01	7.13037E 02	
16.30	9.55630E-01	1.54772E 01	3.50790E-01	-5.04786E-04	-3.18926E-01	1.64603E 01	7.14516E 02	
16.40	9.55630E-01	1.55756E 01	3.55579E-01	-5.07379E-04	-3.23554E-01	1.65588E 01	7.15986E 02	
16.50	9.55629E-01	1.56740E 01	3.60401E-01	-5.09944E-04	-3.28215E-01	1.66573E 01	7.17442E 02	
16.60	9.55629E-01	1.57724E 01	3.65255E-01	-5.12474E-04	-3.32909E-01	1.67558E 01	7.18889E 02	
16.70	9.55629E-01	1.58709E 01	3.70141E-01	-5.14972E-04	-3.37635E-01	1.68544E 01	7.20325E 02	
16.80	9.55629E-01	1.59693E 01	3.75061E-01	-5.17439E-04	-3.42394E-01	1.69529E 01	7.21751E 02	
16.90	9.55628E-01	1.60677E 01	3.80012E-01	-5.19875E-04	-3.47185E-01	1.70515E 01	7.23165E 02	
17.00	9.55628E-01	1.61662E 01	3.84997E-01	-5.22280E-04	-3.52010E-01	1.71500E 01	7.24571E 02	
17.10	9.55628E-01	1.62647E 01	3.90014E-01	-5.24655E-04	-3.56866E-01	1.72486E 01	7.25966E 02	
17.20	9.55627E-01	1.63631E 01	3.95063E-01	-5.27000E-04	-3.61755E-01	1.73472E 01	7.27351E 02	
17.30	9.55627E-01	1.64616E 01	4.00145E-01	-5.29318E-04	-3.66677E-01	1.74457E 01	7.28726E 02	
17.40	9.55627E-01	1.65601E 01	4.05260E-01	-5.31604E-04	-3.71632E-01	1.75443E 01	7.30093E 02	
17.50	9.55626E-01	1.66585E 01	4.10408E-01	-5.33864E-04	-3.76619E-01	1.76429E 01	7.31449E 02	
17.60	9.55626E-01	1.67570E 01	4.15587E-01	-5.36097E-04	-3.81639E-01	1.77415E 01	7.32796E 02	
17.70	9.55626E-01	1.68555E 01	4.20800E-01	-5.38303E-04	-3.86691E-01	1.78401E 01	7.34133E 02	
17.80	9.55625E-01	1.69540E 01	4.26045E-01	-5.40483E-04	-3.91776E-01	1.79387E 01	7.35461E 02	
17.90	9.55625E-01	1.70525E 01	4.31323E-01	-5.42636E-04	-3.96894E-01	1.80373E 01	7.36780E 02	
18.00	9.55625E-01	1.71510E 01	4.36634E-01	-5.44760E-04	-4.02045E-01	1.81359E 01	7.38092E 02	

ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=2$		$A=4$		$\rho=1.2 A^{1/3} F$		Positron
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
12.10	9.45488E-05	2.25451E-01	2.17100E-03	-9.76479E 01	-1.87441E-03	2.44820E-01	9.63733E-03	
12.20	9.61182E-05	2.29276E-01	2.23038E-03	-9.76767E 01	-1.92940E-03	2.48806E-01	9.63925E-03	
12.30	9.77005E-05	2.33134E-01	2.29083E-03	-9.77050E 01	-1.98542E-03	2.52824E-01	9.64115E-03	
12.40	9.92958E-05	2.37023E-01	2.35236E-03	-9.77328E 01	-2.04249E-03	2.56874E-01	9.64302E-03	
12.50	1.00904E-04	2.40944E-01	2.41498E-03	-9.77601E 01	-2.10061E-03	2.60956E-01	9.64487E-03	
12.60	1.02525E-04	2.44897E-01	2.47869E-03	-9.77870E 01	-2.15980E-03	2.65070E-01	9.64669E-03	
12.70	1.04159E-04	2.48883E-01	2.54351E-03	-9.78135E 01	-2.22007E-03	2.69216E-01	9.64849E-03	
12.80	1.05806E-04	2.52901E-01	2.60945E-03	-9.78395E 01	-2.28142E-03	2.73395E-01	9.65026E-03	
12.90	1.07466E-04	2.56950E-01	2.67652E-03	-9.78650E 01	-2.34387E-03	2.77605E-01	9.65201E-03	
13.00	1.09138E-04	2.61032E-01	2.74472E-03	-9.78902E 01	-2.40742E-03	2.81848E-01	9.65373E-03	
13.10	1.10824E-04	2.65146E-01	2.81406E-03	-9.79150E 01	-2.47208E-03	2.86123E-01	9.65544E-03	
13.20	1.12523E-04	2.69292E-01	2.88456E-03	-9.79393E 01	-2.53787E-03	2.90429E-01	9.65712E-03	
13.30	1.14234E-04	2.73471E-01	2.95623E-03	-9.79633E 01	-2.60479E-03	2.94768E-01	9.65877E-03	
13.40	1.15959E-04	2.77681E-01	3.02907E-03	-9.79869E 01	-2.67285E-03	2.99139E-01	9.66041E-03	
13.50	1.17696E-04	2.81923E-01	3.10309E-03	-9.80102E 01	-2.74206E-03	3.03542E-01	9.66203E-03	
13.60	1.19446E-04	2.86198E-01	3.17830E-03	-9.80330E 01	-2.81244E-03	3.07978E-01	9.66362E-03	
13.70	1.21209E-04	2.90505E-01	3.25472E-03	-9.80556E 01	-2.88398E-03	3.12445E-01	9.66519E-03	
13.80	1.22985E-04	2.94843E-01	3.33235E-03	-9.80778E 01	-2.95670E-03	3.16944E-01	9.66675E-03	
13.90	1.24774E-04	2.99214E-01	3.41120E-03	-9.80996E 01	-3.03062E-03	3.21476E-01	9.66828E-03	
14.00	1.26576E-04	3.03617E-01	3.49128E-03	-9.81211E 01	-3.10573E-03	3.26040E-01	9.66979E-03	
14.10	1.28391E-04	3.08052E-01	3.57260E-03	-9.81424E 01	-3.18205E-03	3.30635E-01	9.67129E-03	
14.20	1.30219E-04	3.12519E-01	3.65517E-03	-9.81632E 01	-3.25959E-03	3.35263E-01	9.67277E-03	
14.30	1.32059E-04	3.17019E-01	3.73901E-03	-9.81838E 01	-3.33836E-03	3.39923E-01	9.67422E-03	
14.40	1.33913E-04	3.21550E-01	3.82410E-03	-9.82041E 01	-3.41837E-03	3.44615E-01	9.67567E-03	
14.50	1.35779E-04	3.26113E-01	3.91048E-03	-9.82241E 01	-3.49962E-03	3.49339E-01	9.67709E-03	
14.60	1.37659E-04	3.30709E-01	3.99815E-03	-9.82438E 01	-3.58212E-03	3.54095E-01	9.67849E-03	
14.70	1.39551E-04	3.35337E-01	4.08711E-03	-9.82632E 01	-3.66590E-03	3.58883E-01	9.67988E-03	
14.80	1.41456E-04	3.39996E-01	4.17738E-03	-9.82824E 01	-3.75094E-03	3.63704E-01	9.68125E-03	
14.90	1.43374E-04	3.44688E-01	4.26897E-03	-9.83013E 01	-3.83728E-03	3.68556E-01	9.68261E-03	
15.00	1.45305E-04	3.49412E-01	4.36188E-03	-9.83199E 01	-3.92490E-03	3.73441E-01	9.68395E-03	
15.10	1.47249E-04	3.54168E-01	4.45612E-03	-9.83382E 01	-4.01383E-03	3.78357E-01	9.68527E-03	
15.20	1.49206E-04	3.58956E-01	4.55171E-03	-9.83563E 01	-4.10407E-03	3.83306E-01	9.68658E-03	
15.30	1.51176E-04	3.63776E-01	4.64866E-03	-9.83742E 01	-4.19564E-03	3.88287E-01	9.68787E-03	
15.40	1.53159E-04	3.68629E-01	4.74697E-03	-9.83918E 01	-4.28854E-03	3.93299E-01	9.68915E-03	
15.50	1.55154E-04	3.73513E-01	4.84665E-03	-9.84092E 01	-4.38277E-03	3.98344E-01	9.69041E-03	
15.60	1.57163E-04	3.78430E-01	4.94772E-03	-9.84263E 01	-4.47836E-03	4.03421E-01	9.69166E-03	
15.70	1.59184E-04	3.83378E-01	5.05018E-03	-9.84432E 01	-4.57531E-03	4.08530E-01	9.69290E-03	
15.80	1.61219E-04	3.88359E-01	5.15404E-03	-9.84599E 01	-4.67363E-03	4.13671E-01	9.69412E-03	
15.90	1.63266E-04	3.93371E-01	5.25931E-03	-9.84764E 01	-4.77333E-03	4.18845E-01	9.69532E-03	
16.00	1.65326E-04	3.98416E-01	5.36600E-03	-9.84926E 01	-4.87442E-03	4.24050E-01	9.69652E-03	
16.10	1.67399E-04	4.03493E-01	5.47412E-03	-9.85087E 01	-4.97691E-03	4.29287E-01	9.69770E-03	
16.20	1.69485E-04	4.08602E-01	5.58368E-03	-9.85245E 01	-5.08080E-03	4.34557E-01	9.69886E-03	
16.30	1.71584E-04	4.13743E-01	5.69469E-03	-9.85402E 01	-5.18612E-03	4.39858E-01	9.70002E-03	
16.40	1.73696E-04	4.18916E-01	5.80716E-03	-9.85556E 01	-5.29286E-03	4.45192E-01	9.70116E-03	
16.50	1.75821E-04	4.24121E-01	5.92110E-03	-9.85708E 01	-5.40103E-03	4.50557E-01	9.70228E-03	
16.60	1.77958E-04	4.29359E-01	6.03651E-03	-9.85859E 01	-5.51065E-03	4.55955E-01	9.70340E-03	
16.70	1.80109E-04	4.34628E-01	6.15341E-03	-9.86008E 01	-5.62173E-03	4.61385E-01	9.70451E-03	
16.80	1.82272E-04	4.39929E-01	6.27181E-03	-9.86154E 01	-5.73427E-03	4.66847E-01	9.70560E-03	
16.90	1.84449E-04	4.45263E-01	6.39172E-03	-9.86299E 01	-5.84829E-03	4.72348E-01	9.70668E-03	
17.00	1.86638E-04	4.50628E-01	6.51314E-03	-9.86442E 01	-5.96379E-03	4.77867E-01	9.70775E-03	
17.10	1.88841E-04	4.56026E-01	6.63608E-03	-9.86584E 01	-6.08078E-03	4.83425E-01	9.70880E-03	
17.20	1.91056E-04	4.61455E-01	6.76056E-03	-9.86724E 01	-6.19928E-03	4.89015E-01	9.70985E-03	
17.30	1.93284E-04	4.66917E-01	6.88659E-03	-9.86862E 01	-6.31929E-03	4.94637E-01	9.71089E-03	
17.40	1.95525E-04	4.72411E-01	7.01416E-03	-9.86998E 01	-6.44082E-03	5.00291E-01	9.71191E-03	
17.50	1.97779E-04	4.77937E-01	7.14331E-03	-9.87133E 01	-6.56388E-03	5.05977E-01	9.71292E-03	
17.60	2.00046E-04	4.83495E-01	7.27402E-03	-9.87266E 01	-6.68848E-03	5.11695E-01	9.71393E-03	
17.70	2.02325E-04	4.89085E-01	7.40632E-03	-9.87397E 01	-6.81464E-03	5.17446E-01	9.71492E-03	
17.80	2.04618E-04	4.94707E-01	7.54020E-03	-9.87528E 01	-6.94235E-03	5.23228E-01	9.71590E-03	
17.90	2.06924E-04	5.00361E-01	7.67569E-03	-9.87656E 01	-7.07163E-03	5.29043E-01	9.71688E-03	
18.00	2.09242E-04	5.06047E-01	7.81279E-03	-9.87783E 01	-7.20249E-03	5.34889E-01	9.71784E-03	



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=2$			$A=4$		$\rho=1.2 A^{1/3} F$		
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
18.10	9.55624E-01	1.72496E 01	4.41977E-01	-5.46864E-04	-4.07228E-01	1.82346E 01	7.39392E 02	
18.20	9.55624E-01	1.73481E 01	4.47353E-01	-5.48939E-04	-4.12444E-01	1.83332E 01	7.40686E 02	
18.30	9.55623E-01	1.74466E 01	4.52761E-01	-5.50992E-04	-4.17692E-01	1.84318E 01	7.41969E 02	
18.40	9.55623E-01	1.75452E 01	4.58203E-01	-5.53019E-04	-4.22973E-01	1.85305E 01	7.43246E 02	
18.50	9.55623E-01	1.76437E 01	4.63676E-01	-5.55023E-04	-4.28287E-01	1.86292E 01	7.44513E 02	
18.60	9.55622E-01	1.77423E 01	4.69183E-01	-5.57004E-04	-4.33634E-01	1.87278E 01	7.45772E 02	
18.70	9.55622E-01	1.78408E 01	4.74722E-01	-5.58962E-04	-4.39013E-01	1.88265E 01	7.47022E 02	
18.80	9.55622E-01	1.79394E 01	4.80294E-01	-5.60894E-04	-4.44425E-01	1.89252E 01	7.48266E 02	
18.90	9.55621E-01	1.80380E 01	4.85898E-01	-5.62808E-04	-4.49869E-01	1.90239E 01	7.49500E 02	
19.00	9.55621E-01	1.81365E 01	4.91536E-01	-5.64698E-04	-4.55346E-01	1.91226E 01	7.50727E 02	
19.10	9.55620E-01	1.82351E 01	4.97205E-01	-5.66566E-04	-4.60856E-01	1.92213E 01	7.51947E 02	
19.20	9.55620E-01	1.83337E 01	5.02908E-01	-5.68413E-04	-4.66399E-01	1.93200E 01	7.53158E 02	
19.30	9.55619E-01	1.84323E 01	5.08643E-01	-5.70240E-04	-4.71975E-01	1.94187E 01	7.54362E 02	
19.40	9.55619E-01	1.85310E 01	5.14411E-01	-5.72045E-04	-4.77583E-01	1.95174E 01	7.55559E 02	
19.50	9.55619E-01	1.86296E 01	5.20212E-01	-5.73829E-04	-4.83224E-01	1.96161E 01	7.56748E 02	
19.60	9.55618E-01	1.87282E 01	5.26046E-01	-5.75594E-04	-4.88897E-01	1.97149E 01	7.57930E 02	
19.70	9.55618E-01	1.88268E 01	5.31912E-01	-5.77339E-04	-4.94604E-01	1.98136E 01	7.59104E 02	
19.80	9.55617E-01	1.89255E 01	5.37811E-01	-5.79063E-04	-5.00343E-01	1.99124E 01	7.60273E 02	
19.90	9.55617E-01	1.90241E 01	5.43742E-01	-5.80771E-04	-5.06115E-01	2.00111E 01	7.61432E 02	
20.00	9.55616E-01	1.91228E 01	5.49707E-01	-5.82456E-04	-5.11920E-01	2.01099E 01	7.62587E 02	
20.10	9.55616E-01	1.92214E 01	5.55704E-01	-5.84126E-04	-5.17757E-01	2.02087E 01	7.63733E 02	
20.20	9.55615E-01	1.93201E 01	5.61734E-01	-5.85776E-04	-5.23628E-01	2.03075E 01	7.64872E 02	
20.30	9.55615E-01	1.94188E 01	5.67797E-01	-5.87408E-04	-5.29531E-01	2.04063E 01	7.66005E 02	
20.40	9.55614E-01	1.95175E 01	5.73892E-01	-5.89020E-04	-5.35467E-01	2.05051E 01	7.67133E 02	
20.50	9.55614E-01	1.96162E 01	5.80021E-01	-5.90617E-04	-5.41435E-01	2.06039E 01	7.68252E 02	
20.60	9.55613E-01	1.97149E 01	5.86182E-01	-5.92197E-04	-5.47437E-01	2.07027E 01	7.69365E 02	
20.70	9.55613E-01	1.98136E 01	5.92375E-01	-5.93758E-04	-5.53471E-01	2.08015E 01	7.70473E 02	
20.80	9.55612E-01	1.99123E 01	5.98602E-01	-5.95301E-04	-5.59538E-01	2.09004E 01	7.71575E 02	
20.90	9.55612E-01	2.00110E 01	6.04862E-01	-5.96829E-04	-5.65638E-01	2.09992E 01	7.72669E 02	
21.00	9.55612E-01	2.01098E 01	6.11154E-01	-5.98341E-04	-5.71771E-01	2.10981E 01	7.73757E 02	
21.10	9.55611E-01	2.02085E 01	6.17479E-01	-5.99836E-04	-5.77937E-01	2.11969E 01	7.74839E 02	
21.20	9.55610E-01	2.03073E 01	6.23837E-01	-6.01314E-04	-5.84135E-01	2.12958E 01	7.75916E 02	
21.30	9.55610E-01	2.04060E 01	6.30228E-01	-6.02779E-04	-5.90366E-01	2.13947E 01	7.76986E 02	
21.40	9.55609E-01	2.05048E 01	6.36651E-01	-6.04227E-04	-5.96631E-01	2.14936E 01	7.78050E 02	
21.50	9.55609E-01	2.06036E 01	6.43108E-01	-6.05658E-04	-6.02928E-01	2.15925E 01	7.79109E 02	
21.60	9.55608E-01	2.07023E 01	6.49597E-01	-6.07075E-04	-6.09258E-01	2.16914E 01	7.80162E 02	
21.70	9.55608E-01	2.08011E 01	6.56119E-01	-6.08477E-04	-6.15620E-01	2.17903E 01	7.81209E 02	
21.80	9.55607E-01	2.08999E 01	6.62674E-01	-6.09864E-04	-6.22016E-01	2.18892E 01	7.82251E 02	
21.90	9.55607E-01	2.09987E 01	6.69262E-01	-6.11235E-04	-6.28445E-01	2.19881E 01	7.83288E 02	
22.00	9.55606E-01	2.10976E 01	6.75883E-01	-6.12595E-04	-6.34906E-01	2.20871E 01	7.84318E 02	
22.10	9.55606E-01	2.11964E 01	6.82537E-01	-6.13939E-04	-6.41400E-01	2.21860E 01	7.85343E 02	
22.20	9.55605E-01	2.12952E 01	6.89223E-01	-6.15268E-04	-6.47928E-01	2.22850E 01	7.86363E 02	
22.30	9.55605E-01	2.13941E 01	6.95943E-01	-6.16584E-04	-6.54488E-01	2.23839E 01	7.87377E 02	
22.40	9.55604E-01	2.14929E 01	7.02695E-01	-6.17883E-04	-6.61081E-01	2.24829E 01	7.88389E 02	
22.50	9.55604E-01	2.15918E 01	7.09480E-01	-6.19175E-04	-6.67707E-01	2.25819E 01	7.89391E 02	
22.60	9.55603E-01	2.16906E 01	7.16298E-01	-6.20450E-04	-6.74366E-01	2.26809E 01	7.90391E 02	
22.70	9.55603E-01	2.17895E 01	7.23149E-01	-6.21711E-04	-6.81058E-01	2.27799E 01	7.91385E 02	
22.80	9.55602E-01	2.18884E 01	7.30034E-01	-6.22960E-04	-6.87783E-01	2.28789E 01	7.92375E 02	
22.90	9.55602E-01	2.19873E 01	7.36950E-01	-6.24197E-04	-6.94541E-01	2.29779E 01	7.93358E 02	
23.00	9.55601E-01	2.20862E 01	7.43900E-01	-6.25420E-04	-7.01332E-01	2.30769E 01	7.94338E 02	
23.10	9.55601E-01	2.21851E 01	7.50883E-01	-6.26631E-04	-7.08156E-01	2.31760E 01	7.95312E 02	
23.20	9.55600E-01	2.22840E 01	7.57899E-01	-6.27829E-04	-7.15012E-01	2.32750E 01	7.96282E 02	
23.30	9.55600E-01	2.23829E 01	7.64948E-01	-6.29016E-04	-7.21902E-01	2.33741E 01	7.97247E 02	
23.40	9.55599E-01	2.24819E 01	7.72030E-01	-6.30191E-04	-7.28825E-01	2.34731E 01	7.98207E 02	
23.50	9.55599E-01	2.25808E 01	7.79144E-01	-6.31353E-04	-7.35781E-01	2.35722E 01	7.99163E 02	
23.60	9.55598E-01	2.26798E 01	7.86292E-01	-6.32503E-04	-7.42769E-01	2.36713E 01	8.00114E 02	
23.70	9.55598E-01	2.27787E 01	7.93473E-01	-6.33642E-04	-7.49791E-01	2.37704E 01	8.01061E 02	
23.80	9.55597E-01	2.28777E 01	8.00686E-01	-6.34770E-04	-7.56846E-01	2.38695E 01	8.02003E 02	
23.90	9.55597E-01	2.29767E 01	8.07933E-01	-6.35884E-04	-7.63934E-01	2.39686E 01	8.02942E 02	
24.00	9.55596E-01	2.30757E 01	8.15213E-01	-6.36988E-04	-7.71055E-01	2.40677E 01	8.03876E 02	

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=2$		$A=4$		$\rho=1.2 A^{1/3} F$		Positron	
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$		
18.10	2.11574E-04	5.11765E-01	7.95151E-03	-9.87909E 01	-7.33495E-03	5.40768E-01	9.71879E-03		
18.20	2.13918E-04	5.17515E-01	8.09186E-03	-9.88033E 01	-7.46899E-03	5.46678E-01	9.71974E-03		
18.30	2.16275E-04	5.23298E-01	8.23385E-03	-9.88155E 01	-7.60465E-03	5.52621E-01	9.72067E-03		
18.40	2.18645E-04	5.29112E-01	8.37748E-03	-9.88277E 01	-7.74192E-03	5.58596E-01	9.72160E-03		
18.50	2.21028E-04	5.34958E-01	8.52278E-03	-9.88397E 01	-7.88082E-03	5.64602E-01	9.72251E-03		
18.60	2.23424E-04	5.40837E-01	8.66974E-03	-9.88515E 01	-8.02135E-03	5.70641E-01	9.72342E-03		
18.70	2.25833E-04	5.46747E-01	8.81837E-03	-9.88633E 01	-8.16353E-03	5.76712E-01	9.72432E-03		
18.80	2.28255E-04	5.52690E-01	8.96870E-03	-9.88749E 01	-8.30736E-03	5.82815E-01	9.72521E-03		
18.90	2.30690E-04	5.58664E-01	9.12072E-03	-9.88863E 01	-8.45285E-03	5.88950E-01	9.72609E-03		
19.00	2.33137E-04	5.64671E-01	9.27444E-03	-9.88977E 01	-8.60002E-03	5.95117E-01	9.72696E-03		
19.10	2.35598E-04	5.70710E-01	9.42988E-03	-9.89089E 01	-8.74887E-03	6.01315E-01	9.72782E-03		
19.20	2.38072E-04	5.76780E-01	9.58704E-03	-9.89200E 01	-8.89942E-03	6.07546E-01	9.72868E-03		
19.30	2.40558E-04	5.82883E-01	9.74594E-03	-9.89310E 01	-9.05167E-03	6.13809E-01	9.72953E-03		
19.40	2.43057E-04	5.89018E-01	9.90658E-03	-9.89419E 01	-9.20563E-03	6.20104E-01	9.73035E-03		
19.50	2.45569E-04	5.95185E-01	1.00690E-02	-9.89526E 01	-9.36130E-03	6.26431E-01	9.73120E-03		
19.60	2.48095E-04	6.01383E-01	1.02331E-02	-9.89633E 01	-9.51871E-03	6.32790E-01	9.73202E-03		
19.70	2.50633E-04	6.07614E-01	1.03991E-02	-9.89738E 01	-9.67786E-03	6.39182E-01	9.73284E-03		
19.80	2.53184E-04	6.13877E-01	1.05668E-02	-9.89842E 01	-9.83876E-03	6.45605E-01	9.73364E-03		
19.90	2.55747E-04	6.20172E-01	1.07363E-02	-9.89945E 01	-1.00014E-02	6.52060E-01	9.73444E-03		
20.00	2.58324E-04	6.26499E-01	1.09076E-02	-9.90047E 01	-1.01658E-02	6.58547E-01	9.73524E-03		
20.10	2.60914E-04	6.32858E-01	1.10807E-02	-9.90148E 01	-1.03321E-02	6.65066E-01	9.73602E-03		
20.20	2.63517E-04	6.39249E-01	1.12556E-02	-9.90248E 01	-1.05000E-02	6.71617E-01	9.73680E-03		
20.30	2.66132E-04	6.45672E-01	1.14323E-02	-9.90346E 01	-1.06698E-02	6.78200E-01	9.73757E-03		
20.40	2.68761E-04	6.52127E-01	1.16109E-02	-9.90444E 01	-1.08414E-02	6.84816E-01	9.73834E-03		
20.50	2.71402E-04	6.58614E-01	1.17914E-02	-9.90541E 01	-1.10148E-02	6.91463E-01	9.73910E-03		
20.60	2.74056E-04	6.65133E-01	1.19737E-02	-9.90637E 01	-1.11901E-02	6.98142E-01	9.73985E-03		
20.70	2.76723E-04	6.71684E-01	1.21578E-02	-9.90732E 01	-1.13671E-02	7.04853E-01	9.74059E-03		
20.80	2.79404E-04	6.78267E-01	1.23439E-02	-9.90826E 01	-1.15461E-02	7.11596E-01	9.74133E-03		
20.90	2.82097E-04	6.84882E-01	1.25318E-02	-9.90919E 01	-1.17268E-02	7.18372E-01	9.74206E-03		
21.00	2.84803E-04	6.91529E-01	1.27216E-02	-9.91011E 01	-1.19094E-02	7.25179E-01	9.74279E-03		
21.10	2.87521E-04	6.98208E-01	1.29134E-02	-9.91102E 01	-1.20939E-02	7.32018E-01	9.74350E-03		
21.20	2.90253E-04	7.04919E-01	1.31070E-02	-9.91193E 01	-1.22803E-02	7.38889E-01	9.74422E-03		
21.30	2.92998E-04	7.11662E-01	1.33025E-02	-9.91282E 01	-1.24686E-02	7.45793E-01	9.74492E-03		
21.40	2.95755E-04	7.18437E-01	1.35000E-02	-9.91371E 01	-1.26588E-02	7.52728E-01	9.74562E-03		
21.50	2.98526E-04	7.25244E-01	1.36995E-02	-9.91458E 01	-1.28509E-02	7.59695E-01	9.74632E-03		
21.60	3.01309E-04	7.32083E-01	1.39009E-02	-9.91545E 01	-1.30449E-02	7.66694E-01	9.74700E-03		
21.70	3.04106E-04	7.38954E-01	1.41042E-02	-9.91631E 01	-1.32408E-02	7.73726E-01	9.74769E-03		
21.80	3.06915E-04	7.45857E-01	1.43095E-02	-9.91717E 01	-1.34387E-02	7.80789E-01	9.74836E-03		
21.90	3.09737E-04	7.52793E-01	1.45168E-02	-9.91801E 01	-1.36385E-02	7.87884E-01	9.74903E-03		
22.00	3.12572E-04	7.59760E-01	1.47261E-02	-9.91885E 01	-1.38403E-02	7.95011E-01	9.74970E-03		
22.10	3.15420E-04	7.66759E-01	1.49374E-02	-9.91967E 01	-1.40440E-02	8.02170E-01	9.75036E-03		
22.20	3.18281E-04	7.73790E-01	1.51507E-02	-9.92050E 01	-1.42498E-02	8.09361E-01	9.75101E-03		
22.30	3.21155E-04	7.80853E-01	1.53660E-02	-9.92131E 01	-1.44575E-02	8.16585E-01	9.75166E-03		
22.40	3.24042E-04	7.87948E-01	1.55833E-02	-9.92211E 01	-1.46672E-02	8.23840E-01	9.75230E-03		
22.50	3.26941E-04	7.95075E-01	1.58027E-02	-9.92291E 01	-1.48789E-02	8.31127E-01	9.75294E-03		
22.60	3.29854E-04	8.02234E-01	1.60241E-02	-9.92370E 01	-1.50926E-02	8.38446E-01	9.75357E-03		
22.70	3.32779E-04	8.09425E-01	1.62476E-02	-9.92449E 01	-1.53084E-02	8.45797E-01	9.75420E-03		
22.80	3.35718E-04	8.16648E-01	1.64732E-02	-9.92526E 01	-1.55262E-02	8.53180E-01	9.75482E-03		
22.90	3.38669E-04	8.23903E-01	1.67008E-02	-9.92603E 01	-1.57460E-02	8.60595E-01	9.75544E-03		
23.00	3.41633E-04	8.31190E-01	1.69305E-02	-9.92680E 01	-1.59679E-02	8.68042E-01	9.75605E-03		
23.10	3.44611E-04	8.38508E-01	1.71623E-02	-9.92755E 01	-1.61918E-02	8.75521E-01	9.75665E-03		
23.20	3.47601E-04	8.45859E-01	1.73962E-02	-9.92830E 01	-1.64178E-02	8.83031E-01	9.75726E-03		
23.30	3.50604E-04	8.53242E-01	1.76322E-02	-9.92904E 01	-1.66459E-02	8.90574E-01	9.75785E-03		
23.40	3.53620E-04	8.60657E-01	1.78703E-02	-9.92978E 01	-1.68761E-02	8.98149E-01	9.75845E-03		
23.50	3.56648E-04	8.68104E-01	1.81106E-02	-9.93051E 01	-1.71084E-02	9.05756E-01	9.75903E-03		
23.60	3.59690E-04	8.75583E-01	1.83530E-02	-9.93123E 01	-1.73428E-02	9.13395E-01	9.75962E-03		
23.70	3.62745E-04	8.83093E-01	1.85975E-02	-9.93195E 01	-1.75793E-02	9.21065E-01	9.76019E-03		
23.80	3.65812E-04	8.90636E-01	1.88443E-02	-9.93266E 01	-1.78179E-02	9.28768E-01	9.76077E-03		
23.90	3.68893E-04	8.98211E-01	1.90931E-02	-9.93336E 01	-1.80587E-02	9.36503E-01	9.76134E-03		
24.00	3.71986E-04	9.05817E-01	1.93442E-02	-9.93406E 01	-1.83016E-02	9.44269E-01	9.76190E-03		



## ELECTRON RADIAL FUNCTIONS

Positron $p$	$Z=2 \quad A=4 \quad \rho=1.2 A^{1/3} F$						
	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
24.10	9.55596E-01	2.31747E 01	8.22526E-01	-6.38083E-04	-7.78209E-01	2.41668E 01	8.04804E 02
24.20	9.55595E-01	2.32737E 01	8.29872E-01	-6.39164E-04	-7.85396E-01	2.42660E 01	8.05730E 02
24.30	9.55594E-01	2.33727E 01	8.37250E-01	-6.40234E-04	-7.92616E-01	2.43651E 01	8.06652E 02
24.40	9.55594E-01	2.34717E 01	8.44662E-01	-6.41297E-04	-7.99869E-01	2.44643E 01	8.07567E 02
24.50	9.55593E-01	2.35708E 01	8.52107E-01	-6.42347E-04	-8.07155E-01	2.45634E 01	8.08480E 02
24.60	9.55593E-01	2.36698E 01	8.59585E-01	-6.43386E-04	-8.14475E-01	2.46626E 01	8.09388E 02
24.70	9.55592E-01	2.37689E 01	8.67096E-01	-6.44417E-04	-8.21827E-01	2.47618E 01	8.10292E 02
24.80	9.55592E-01	2.38679E 01	8.74640E-01	-6.45435E-04	-8.29212E-01	2.48610E 01	8.11193E 02
24.90	9.55591E-01	2.39670E 01	8.82218E-01	-6.46443E-04	-8.36631E-01	2.49602E 01	8.12090E 02
25.00	9.55591E-01	2.40661E 01	8.89828E-01	-6.47441E-04	-8.44082E-01	2.50594E 01	8.12983E 02
25.10	9.55590E-01	2.41652E 01	8.97471E-01	-6.48430E-04	-8.51567E-01	2.51587E 01	8.13873E 02
25.20	9.55590E-01	2.42643E 01	9.05148E-01	-6.49407E-04	-8.59085E-01	2.52579E 01	8.14758E 02
25.30	9.55589E-01	2.43634E 01	9.12857E-01	-6.50377E-04	-8.66636E-01	2.53571E 01	8.15639E 02
25.40	9.55589E-01	2.44625E 01	9.20600E-01	-6.51338E-04	-8.74220E-01	2.54564E 01	8.16516E 02
25.50	9.55588E-01	2.45616E 01	9.28376E-01	-6.52288E-04	-8.81838E-01	2.55557E 01	8.17390E 02
25.60	9.55588E-01	2.46608E 01	9.36185E-01	-6.53226E-04	-8.89488E-01	2.56549E 01	8.18263E 02
25.70	9.55587E-01	2.47599E 01	9.44027E-01	-6.54159E-04	-8.97172E-01	2.57542E 01	8.19128E 02
25.80	9.55586E-01	2.48591E 01	9.51902E-01	-6.55082E-04	-9.04889E-01	2.58535E 01	8.19991E 02
25.90	9.55586E-01	2.49583E 01	9.59810E-01	-6.55994E-04	-9.12639E-01	2.59528E 01	8.20852E 02
26.00	9.55585E-01	2.50574E 01	9.67752E-01	-6.56898E-04	-9.20422E-01	2.60521E 01	8.21708E 02
26.10	9.55585E-01	2.51566E 01	9.75726E-01	-6.57792E-04	-9.28238E-01	2.61515E 01	8.22562E 02
26.20	9.55584E-01	2.52558E 01	9.83734E-01	-6.58678E-04	-9.36088E-01	2.62508E 01	8.23412E 02
26.30	9.55584E-01	2.53550E 01	9.91776E-01	-6.59557E-04	-9.43970E-01	2.63502E 01	8.24257E 02
26.40	9.55583E-01	2.54543E 01	9.99850E-01	-6.60427E-04	-9.51886E-01	2.64495E 01	8.25100E 02
26.50	9.55583E-01	2.55535E 01	1.00796E 00	-6.61286E-04	-9.59836E-01	2.65489E 01	8.25940E 02
26.60	9.55582E-01	2.56527E 01	1.01610E 00	-6.62139E-04	-9.67818E-01	2.66483E 01	8.26776E 02
26.70	9.55582E-01	2.57520E 01	1.02427E 00	-6.62984E-04	-9.75834E-01	2.67476E 01	8.27608E 02
26.80	9.55581E-01	2.58512E 01	1.03248E 00	-6.63817E-04	-9.83883E-01	2.68470E 01	8.28440E 02
26.90	9.55581E-01	2.59505E 01	1.04072E 00	-6.64645E-04	-9.91965E-01	2.69465E 01	8.29266E 02
27.00	9.55580E-01	2.60498E 01	1.04899E 00	-6.65462E-04	-1.00008E 00	2.70459E 01	8.30091E 02
27.10	9.55580E-01	2.61491E 01	1.05730E 00	-6.66275E-04	-1.00823E 00	2.71453E 01	8.30911E 02
27.20	9.55579E-01	2.62484E 01	1.06564E 00	-6.67075E-04	-1.01641E 00	2.72448E 01	8.31730E 02
27.30	9.55579E-01	2.63477E 01	1.07401E 00	-6.67870E-04	-1.02463E 00	2.73442E 01	8.32545E 02
27.40	9.55578E-01	2.64470E 01	1.08242E 00	-6.68658E-04	-1.03288E 00	2.74437E 01	8.33357E 02
27.50	9.55578E-01	2.65463E 01	1.09086E 00	-6.69438E-04	-1.04116E 00	2.75432E 01	8.34165E 02
27.60	9.55577E-01	2.66457E 01	1.09933E 00	-6.70210E-04	-1.04947E 00	2.76426E 01	8.34971E 02
27.70	9.55576E-01	2.67450E 01	1.10784E 00	-6.70973E-04	-1.05782E 00	2.77421E 01	8.35775E 02
27.80	9.55576E-01	2.68444E 01	1.11638E 00	-6.71732E-04	-1.06620E 00	2.78416E 01	8.36574E 02
27.90	9.55575E-01	2.69438E 01	1.12495E 00	-6.72481E-04	-1.07462E 00	2.79412E 01	8.37372E 02
28.00	9.55575E-01	2.70431E 01	1.13356E 00	-6.73222E-04	-1.08307E 00	2.80407E 01	8.38168E 02
28.10	9.55574E-01	2.71425E 01	1.14220E 00	-6.73958E-04	-1.09155E 00	2.81402E 01	8.38959E 02
28.20	9.55574E-01	2.72419E 01	1.15087E 00	-6.74685E-04	-1.10006E 00	2.82398E 01	8.39749E 02
28.30	9.55573E-01	2.73414E 01	1.15958E 00	-6.75406E-04	-1.10861E 00	2.83393E 01	8.40535E 02
28.40	9.55573E-01	2.74408E 01	1.16832E 00	-6.76119E-04	-1.11720E 00	2.84389E 01	8.41319E 02
28.50	9.55572E-01	2.75402E 01	1.17709E 00	-6.76826E-04	-1.12581E 00	2.85385E 01	8.42101E 02
28.60	9.55572E-01	2.76397E 01	1.18590E 00	-6.77524E-04	-1.13446E 00	2.86381E 01	8.42880E 02
28.70	9.55571E-01	2.77391E 01	1.19474E 00	-6.78218E-04	-1.14314E 00	2.87377E 01	8.43656E 02
28.80	9.55571E-01	2.78386E 01	1.20361E 00	-6.78903E-04	-1.15186E 00	2.88373E 01	8.44431E 02
28.90	9.55570E-01	2.79381E 01	1.21252E 00	-6.79584E-04	-1.16061E 00	2.89370E 01	8.45200E 02
29.00	9.55570E-01	2.80376E 01	1.22146E 00	-6.80256E-04	-1.16939E 00	2.90366E 01	8.45970E 02
29.10	9.55569E-01	2.81371E 01	1.23043E 00	-6.80922E-04	-1.17821E 00	2.91363E 01	8.46736E 02
29.20	9.55569E-01	2.82366E 01	1.23944E 00	-6.81580E-04	-1.18706E 00	2.92359E 01	8.47500E 02
29.30	9.55568E-01	2.83361E 01	1.24848E 00	-6.82232E-04	-1.19594E 00	2.93356E 01	8.48262E 02
29.40	9.55568E-01	2.84356E 01	1.25755E 00	-6.82878E-04	-1.20485E 00	2.94353E 01	8.49022E 02
29.50	9.55567E-01	2.85352E 01	1.26666E 00	-6.83518E-04	-1.21380E 00	2.95350E 01	8.49779E 02
29.60	9.55567E-01	2.86348E 01	1.27580E 00	-6.84151E-04	-1.22279E 00	2.96347E 01	8.50534E 02
29.70	9.55566E-01	2.87343E 01	1.28498E 00	-6.84779E-04	-1.23181E 00	2.97344E 01	8.51286E 02
29.80	9.55565E-01	2.88339E 01	1.29418E 00	-6.85401E-04	-1.24086E 00	2.98342E 01	8.52035E 02
29.90	9.55565E-01	2.89335E 01	1.30343E 00	-6.86016E-04	-1.24994E 00	2.99339E 01	8.52783E 02
30.00	9.55564E-01	2.90331E 01	1.31270E 00	-6.86624E-04	-1.25906E 00	3.00337E 01	8.53529E 02

ELECTRON RADIAL FUNCTIONS

Z = 2

A = 4

$\rho = 1.2 A^{1/3} F$

Positron

p	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
24.10	3.75093E-04	9.13456E-01	1.95975E-02	-9.93475 E 01	-1.85467E-02	9.52068E-01	9.76246E-03
24.20	3.78212E-04	9.21126E-01	1.98529E-02	-9.93544 E 01	-1.87939E-02	9.59898E-01	9.76302E-03
24.30	3.81344E-04	9.28829E-01	2.01106E-02	-9.93612 E 01	-1.90433E-02	9.67761E-01	9.76357E-03
24.40	3.84489E-04	9.36563E-01	2.03704E-02	-9.93679 E 01	-1.92949E-02	9.75655E-01	9.76412E-03
24.50	3.87647E-04	9.44330E-01	2.06325E-02	-9.93746 E 01	-1.95487E-02	9.83581E-01	9.76466E-03
24.60	3.90818E-04	9.52128E-01	2.08969E-02	-9.93813 E 01	-1.98047E-02	9.91540E-01	9.76520E-03
24.70	3.94002E-04	9.59958E-01	2.11634E-02	-9.93878 E 01	-2.00630E-02	9.99530E-01	9.76574E-03
24.80	3.97198E-04	9.67820E-01	2.14323E-02	-9.93944 E 01	-2.03234E-02	1.00755E 00	9.76627E-03
24.90	4.00408E-04	9.75714E-01	2.17033E-02	-9.94009 E 01	-2.05861E-02	1.01561E 00	9.76679E-03
25.00	4.03630E-04	9.83640E-01	2.19767E-02	-9.94073 E 01	-2.08510E-02	1.02369E 00	9.76732E-03
25.10	4.06866E-04	9.91598E-01	2.22524E-02	-9.94136 E 01	-2.11181E-02	1.03181E 00	9.76784E-03
25.20	4.10114E-04	9.99588E-01	2.25303E-02	-9.94199 E 01	-2.13875E-02	1.03996E 00	9.76835E-03
25.30	4.13375E-04	1.00761E 00	2.28105E-02	-9.94262 E 01	-2.16592E-02	1.04814E 00	9.76886E-03
25.40	4.16650E-04	1.01566E 00	2.30931E-02	-9.94324 E 01	-2.19332E-02	1.05635E 00	9.76937E-03
25.50	4.19937E-04	1.02375E 00	2.33780E-02	-9.94386 E 01	-2.22095E-02	1.06460E 00	9.76988E-03
25.60	4.23237E-04	1.03187E 00	2.36652E-02	-9.94447 E 01	-2.24880E-02	1.07288E 00	9.77038E-03
25.70	4.26550E-04	1.04002E 00	2.39547E-02	-9.94507 E 01	-2.27689E-02	1.08119E 00	9.77087E-03
25.80	4.29876E-04	1.04820E 00	2.42466E-02	-9.94567 E 01	-2.30520E-02	1.08953E 00	9.77136E-03
25.90	4.33214E-04	1.05641E 00	2.45408E-02	-9.94627 E 01	-2.33376E-02	1.09790E 00	9.77186E-03
26.00	4.36566E-04	1.06466E 00	2.48375E-02	-9.94686 E 01	-2.36254E-02	1.10631E 00	9.77234E-03
26.10	4.39931E-04	1.07293E 00	2.51364E-02	-9.94745 E 01	-2.39156E-02	1.11474E 00	9.77282E-03
26.20	4.43308E-04	1.08124E 00	2.54378E-02	-9.94803 E 01	-2.42081E-02	1.12321E 00	9.77330E-03
26.30	4.46698E-04	1.08958E 00	2.57416E-02	-9.94861 E 01	-2.45030E-02	1.13171E 00	9.77378E-03
26.40	4.50102E-04	1.09796E 00	2.60478E-02	-9.94918 E 01	-2.48003E-02	1.14025E 00	9.77425E-03
26.50	4.53518E-04	1.10636E 00	2.63564E-02	-9.94975 E 01	-2.51000E-02	1.14881E 00	9.77472E-03
26.60	4.56947E-04	1.11480E 00	2.66674E-02	-9.95031 E 01	-2.54020E-02	1.15741E 00	9.77518E-03
26.70	4.60389E-04	1.12327E 00	2.69808E-02	-9.95087 E 01	-2.57065E-02	1.16604E 00	9.77565E-03
26.80	4.63844E-04	1.13177E 00	2.72967E-02	-9.95143 E 01	-2.60133E-02	1.17470E 00	9.77610E-03
26.90	4.67312E-04	1.14030E 00	2.76151E-02	-9.95198 E 01	-2.63226E-02	1.18339E 00	9.77656E-03
27.00	4.70793E-04	1.14886E 00	2.79359E-02	-9.95253 E 01	-2.66343E-02	1.19211E 00	9.77701E-03
27.10	4.74287E-04	1.15746E 00	2.82592E-02	-9.95307 E 01	-2.69485E-02	1.20087E 00	9.77746E-03
27.20	4.77793E-04	1.16609E 00	2.85849E-02	-9.95361 E 01	-2.72651E-02	1.20966E 00	9.77791E-03
27.30	4.81313E-04	1.17475E 00	2.89132E-02	-9.95415 E 01	-2.75842E-02	1.21848E 00	9.77835E-03
27.40	4.84845E-04	1.18344E 00	2.92439E-02	-9.95468 E 01	-2.79057E-02	1.22733E 00	9.77879E-03
27.50	4.88391E-04	1.19216E 00	2.95772E-02	-9.95520 E 01	-2.82297E-02	1.23621E 00	9.77923E-03
27.60	4.91949E-04	1.20092E 00	2.99130E-02	-9.95573 E 01	-2.85562E-02	1.24513E 00	9.77966E-03
27.70	4.95520E-04	1.20971E 00	3.02513E-02	-9.95625 E 01	-2.88852E-02	1.25407E 00	9.78009E-03
27.80	4.99105E-04	1.21853E 00	3.05921E-02	-9.95676 E 01	-2.92167E-02	1.26305E 00	9.78052E-03
27.90	5.02702E-04	1.22738E 00	3.09355E-02	-9.95727 E 01	-2.95507E-02	1.27206E 00	9.78095E-03
28.00	5.06312E-04	1.23626E 00	3.12814E-02	-9.95778 E 01	-2.98872E-02	1.28111E 00	9.78137E-03
28.10	5.09934E-04	1.24518E 00	3.16299E-02	-9.95828 E 01	-3.02263E-02	1.29018E 00	9.78179E-03
28.20	5.13570E-04	1.25412E 00	3.19810E-02	-9.95878 E 01	-3.05679E-02	1.29929E 00	9.78220E-03
28.30	5.17219E-04	1.26310E 00	3.23347E-02	-9.95928 E 01	-3.09121E-02	1.30843E 00	9.78262E-03
28.40	5.20881E-04	1.27211E 00	3.26909E-02	-9.95977 E 01	-3.12588E-02	1.31760E 00	9.78303E-03
28.50	5.24555E-04	1.28116E 00	3.30498E-02	-9.96026 E 01	-3.16081E-02	1.32680E 00	9.78344E-03
28.60	5.28243E-04	1.29023E 00	3.34113E-02	-9.96075 E 01	-3.19600E-02	1.33603E 00	9.78384E-03
28.70	5.31943E-04	1.29934E 00	3.37754E-02	-9.96123 E 01	-3.23144E-02	1.34530E 00	9.78425E-03
28.80	5.35656E-04	1.30847E 00	3.41421E-02	-9.96171 E 01	-3.26715E-02	1.35460E 00	9.78465E-03
28.90	5.39382E-04	1.31764E 00	3.45115E-02	-9.96219 E 01	-3.30312E-02	1.36393E 00	9.78504E-03
29.00	5.43122E-04	1.32685E 00	3.48835E-02	-9.96266 E 01	-3.33935E-02	1.37329E 00	9.78544E-03
29.10	5.46874E-04	1.33608E 00	3.52582E-02	-9.96313 E 01	-3.37584E-02	1.38268E 00	9.78583E-03
29.20	5.50638E-04	1.34535E 00	3.56355E-02	-9.96359 E 01	-3.41260E-02	1.39211E 00	9.78622E-03
29.30	5.54416E-04	1.35464E 00	3.60156E-02	-9.96405 E 01	-3.44962E-02	1.40156E 00	9.78661E-03
29.40	5.58207E-04	1.36397E 00	3.63983E-02	-9.96451 E 01	-3.48690E-02	1.41105E 00	9.78700E-03
29.50	5.62011E-04	1.37333E 00	3.67837E-02	-9.96497 E 01	-3.52446E-02	1.42057E 00	9.78738E-03
29.60	5.65827E-04	1.38273E 00	3.71718E-02	-9.96542 E 01	-3.56228E-02	1.43012E 00	9.78776E-03
29.70	5.69657E-04	1.39215E 00	3.75626E-02	-9.96587 E 01	-3.60037E-02	1.43971E 00	9.78814E-03
29.80	5.73499E-04	1.40161E 00	3.79562E-02	-9.96632 E 01	-3.63872E-02	1.44932E 00	9.78851E-03
29.90	5.77355E-04	1.41110E 00	3.83525E-02	-9.96676 E 01	-3.67735E-02	1.45897E 00	9.78888E-03
30.00	5.81223E-04	1.42062E 00	3.87515E-02	-9.96720 E 01	-3.71625E-02	1.46865E 00	9.78925E-03



## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 2$		$A = 4$		$\rho = 1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
30.10	9.55564E-01	2.91327E 01	1.32201E 00	-6.87229E-04	-1.26821E 00	3.01334E 01	8.54271E 02	
30.20	9.55563E-01	2.92323E 01	1.33135E 00	-6.87823E-04	-1.27739E 00	3.02332E 01	8.55014E 02	
30.30	9.55563E-01	2.93320E 01	1.34073E 00	-6.88413E-04	-1.28661E 00	3.03330E 01	8.55754E 02	
30.40	9.55562E-01	2.94316E 01	1.35014E 00	-6.89000E-04	-1.29586E 00	3.04328E 01	8.56490E 02	
30.50	9.55562E-01	2.95313E 01	1.35958E 00	-6.89578E-04	-1.30515E 00	3.05326E 01	8.57226E 02	
30.60	9.55561E-01	2.96310E 01	1.36905E 00	-6.90153E-04	-1.31447E 00	3.06325E 01	8.57958E 02	
30.70	9.55561E-01	2.97306E 01	1.37856E 00	-6.90719E-04	-1.32382E 00	3.07323E 01	8.58690E 02	
30.80	9.55560E-01	2.98303E 01	1.38811E 00	-6.91281E-04	-1.33321E 00	3.08322E 01	8.59418E 02	
30.90	9.55560E-01	2.99300E 01	1.39768E 00	-6.91838E-04	-1.34263E 00	3.09320E 01	8.60145E 02	
31.00	9.55559E-01	3.00298E 01	1.40729E 00	-6.92389E-04	-1.35208E 00	3.10319E 01	8.60870E 02	
31.10	9.55559E-01	3.01295E 01	1.41694E 00	-6.92933E-04	-1.36157E 00	3.11318E 01	8.61594E 02	
31.20	9.55558E-01	3.02292E 01	1.42662E 00	-6.93473E-04	-1.37109E 00	3.12317E 01	8.62314E 02	
31.30	9.55558E-01	3.03290E 01	1.43633E 00	-6.94006E-04	-1.38064E 00	3.13316E 01	8.63035E 02	
31.40	9.55557E-01	3.04288E 01	1.44607E 00	-6.94535E-04	-1.39023E 00	3.14315E 01	8.63752E 02	
31.50	9.55557E-01	3.05285E 01	1.45585E 00	-6.95059E-04	-1.39985E 00	3.15315E 01	8.64467E 02	
31.60	9.55556E-01	3.06283E 01	1.46566E 00	-6.95577E-04	-1.40951E 00	3.16314E 01	8.65181E 02	
31.70	9.55556E-01	3.07281E 01	1.47551E 00	-6.96091E-04	-1.41919E 00	3.17314E 01	8.65891E 02	
31.80	9.55555E-01	3.08279E 01	1.48539E 00	-6.96598E-04	-1.42892E 00	3.18314E 01	8.66602E 02	
31.90	9.55555E-01	3.09278E 01	1.49530E 00	-6.97100E-04	-1.43867E 00	3.19314E 01	8.67311E 02	
32.00	9.55554E-01	3.10276E 01	1.50525E 00	-6.97598E-04	-1.44846E 00	3.20314E 01	8.68017E 02	
32.10	9.55554E-01	3.11275E 01	1.51523E 00	-6.98090E-04	-1.45829E 00	3.21314E 01	8.68722E 02	
32.20	9.55553E-01	3.12273E 01	1.52524E 00	-6.98578E-04	-1.46814E 00	3.22314E 01	8.69425E 02	
32.30	9.55553E-01	3.13272E 01	1.53529E 00	-6.99060E-04	-1.47804E 00	3.23314E 01	8.70126E 02	
32.40	9.55552E-01	3.14271E 01	1.54537E 00	-6.99535E-04	-1.48796E 00	3.24315E 01	8.70828E 02	
32.50	9.55552E-01	3.15270E 01	1.55549E 00	-7.00009E-04	-1.49792E 00	3.25316E 01	8.71524E 02	
32.60	9.55551E-01	3.16269E 01	1.56564E 00	-7.00476E-04	-1.50791E 00	3.26316E 01	8.72221E 02	
32.70	9.55551E-01	3.17268E 01	1.57582E 00	-7.00939E-04	-1.51794E 00	3.27317E 01	8.72916E 02	
32.80	9.55550E-01	3.18267E 01	1.58604E 00	-7.01396E-04	-1.52800E 00	3.28318E 01	8.73610E 02	
32.90	9.55550E-01	3.19267E 01	1.59629E 00	-7.01850E-04	-1.53809E 00	3.29319E 01	8.74300E 02	
33.00	9.55549E-01	3.20267E 01	1.60657E 00	-7.02297E-04	-1.54822E 00	3.30321E 01	8.74992E 02	
33.10	9.55549E-01	3.21266E 01	1.61689E 00	-7.02739E-04	-1.55838E 00	3.31322E 01	8.75681E 02	
33.20	9.55548E-01	3.22266E 01	1.62724E 00	-7.03179E-04	-1.56858E 00	3.32324E 01	8.76368E 02	
33.30	9.55548E-01	3.23266E 01	1.63763E 00	-7.03613E-04	-1.57881E 00	3.33325E 01	8.77053E 02	
33.40	9.55547E-01	3.24266E 01	1.64805E 00	-7.04043E-04	-1.58907E 00	3.34327E 01	8.77737E 02	
33.50	9.55547E-01	3.25266E 01	1.65850E 00	-7.04467E-04	-1.59937E 00	3.35329E 01	8.78420E 02	
33.60	9.55546E-01	3.26267E 01	1.66899E 00	-7.04887E-04	-1.60970E 00	3.36331E 01	8.79102E 02	
33.70	9.55546E-01	3.27267E 01	1.67951E 00	-7.05302E-04	-1.62006E 00	3.37333E 01	8.79783E 02	
33.80	9.55545E-01	3.28268E 01	1.69006E 00	-7.05712E-04	-1.63046E 00	3.38336E 01	8.80462E 02	
33.90	9.55545E-01	3.29269E 01	1.70065E 00	-7.06118E-04	-1.64089E 00	3.39338E 01	8.81140E 02	
34.00	9.55544E-01	3.30270E 01	1.71127E 00	-7.06523E-04	-1.65136E 00	3.40341E 01	8.81814E 02	
34.10	9.55544E-01	3.31271E 01	1.72193E 00	-7.06920E-04	-1.66186E 00	3.41343E 01	8.82489E 02	
34.20	9.55543E-01	3.32272E 01	1.73262E 00	-7.07313E-04	-1.67239E 00	3.42346E 01	8.83163E 02	
34.30	9.55543E-01	3.33273E 01	1.74334E 00	-7.07703E-04	-1.68296E 00	3.43349E 01	8.83834E 02	
34.40	9.55543E-01	3.34274E 01	1.75410E 00	-7.08088E-04	-1.69357E 00	3.44353E 01	8.84505E 02	
34.50	9.55542E-01	3.35276E 01	1.76490E 00	-7.08469E-04	-1.70420E 00	3.45356E 01	8.85174E 02	
34.60	9.55542E-01	3.36278E 01	1.77572E 00	-7.08847E-04	-1.71487E 00	3.46359E 01	8.85841E 02	
34.70	9.55541E-01	3.37279E 01	1.78658E 00	-7.09218E-04	-1.72558E 00	3.47363E 01	8.86509E 02	
34.80	9.55541E-01	3.38281E 01	1.79748E 00	-7.09587E-04	-1.73631E 00	3.48366E 01	8.87174E 02	
34.90	9.55540E-01	3.39283E 01	1.80840E 00	-7.09951E-04	-1.74709E 00	3.49370E 01	8.87839E 02	
35.00	9.55540E-01	3.40286E 01	1.81937E 00	-7.10311E-04	-1.75789E 00	3.50374E 01	8.88503E 02	
35.10	9.55539E-01	3.41288E 01	1.83036E 00	-7.10667E-04	-1.76873E 00	3.51378E 01	8.89164E 02	
35.20	9.55539E-01	3.42290E 01	1.84139E 00	-7.11020E-04	-1.77961E 00	3.52382E 01	8.89824E 02	
35.30	9.55538E-01	3.43293E 01	1.85246E 00	-7.11369E-04	-1.79052E 00	3.53387E 01	8.90483E 02	
35.40	9.55538E-01	3.44296E 01	1.86355E 00	-7.11712E-04	-1.80146E 00	3.54391E 01	8.91142E 02	
35.50	9.55537E-01	3.45299E 01	1.87469E 00	-7.12053E-04	-1.81244E 00	3.55396E 01	8.91799E 02	
35.60	9.55537E-01	3.46302E 01	1.88585E 00	-7.12388E-04	-1.82345E 00	3.56401E 01	8.92457E 02	
35.70	9.55536E-01	3.47305E 01	1.89705E 00	-7.12719E-04	-1.83449E 00	3.57406E 01	8.93112E 02	
35.80	9.55536E-01	3.48308E 01	1.90829E 00	-7.13047E-04	-1.84557E 00	3.58411E 01	8.93767E 02	
35.90	9.55535E-01	3.49311E 01	1.91956E 00	-7.13373E-04	-1.85668E 00	3.59416E 01	8.94418E 02	
36.00	9.55535E-01	3.50315E 01	1.93086E 00	-7.13693E-04	-1.86783E 00	3.60421E 01	8.95072E 02	

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=2$			$A=4$			$\rho=1.2 A^{1/3} F$			Positron
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$				
30.10	5.85104E-04	1.43017E 00	3.91533E-02	-9.96764E 01	-3.75543E-02	1.47836E 00	9.78962E-03				
30.20	5.88998E-04	1.43975E 00	3.95579E-02	-9.96807E 01	-3.79487E-02	1.48811E 00	9.78999E-03				
30.30	5.92905E-04	1.44937E 00	3.99652E-02	-9.96850E 01	-3.83459E-02	1.49788E 00	9.79035E-03				
30.40	5.96825E-04	1.45901E 00	4.03753E-02	-9.96893E 01	-3.87459E-02	1.50769E 00	9.79071E-03				
30.50	6.00758E-04	1.46869E 00	4.07882E-02	-9.96936E 01	-3.91486E-02	1.51753E 00	9.79107E-03				
30.60	6.04704E-04	1.47841E 00	4.12039E-02	-9.96978E 01	-3.95540E-02	1.52740E 00	9.79143E-03				
30.70	6.08662E-04	1.48815E 00	4.16225E-02	-9.97020E 01	-3.99623E-02	1.53730E 00	9.79178E-03				
30.80	6.12634E-04	1.49792E 00	4.20438E-02	-9.97062E 01	-4.03733E-02	1.54724E 00	9.79214E-03				
30.90	6.16618E-04	1.50773E 00	4.24679E-02	-9.97103E 01	-4.07872E-02	1.55720E 00	9.79249E-03				
31.00	6.20616E-04	1.51757E 00	4.28950E-02	-9.97144E 01	-4.12038E-02	1.56720E 00	9.79283E-03				
31.10	6.24626E-04	1.52744E 00	4.33248E-02	-9.97185E 01	-4.16233E-02	1.57723E 00	9.79318E-03				
31.20	6.28649E-04	1.53734E 00	4.37575E-02	-9.97226E 01	-4.20455E-02	1.58729E 00	9.79352E-03				
31.30	6.32686E-04	1.54727E 00	4.41931E-02	-9.97266E 01	-4.24707E-02	1.59738E 00	9.79386E-03				
31.40	6.36735E-04	1.55724E 00	4.46315E-02	-9.97306E 01	-4.28986E-02	1.60751E 00	9.79421E-03				
31.50	6.40797E-04	1.56724E 00	4.50728E-02	-9.97346E 01	-4.33294E-02	1.61766E 00	9.79454E-03				
31.60	6.44871E-04	1.57726E 00	4.55171E-02	-9.97385E 01	-4.37631E-02	1.62785E 00	9.79488E-03				
31.70	6.48959E-04	1.58733E 00	4.59642E-02	-9.97425E 01	-4.41997E-02	1.63807E 00	9.79521E-03				
31.80	6.53060E-04	1.59742E 00	4.64142E-02	-9.97464E 01	-4.46391E-02	1.64833E 00	9.79554E-03				
31.90	6.57174E-04	1.60754E 00	4.68672E-02	-9.97503E 01	-4.50814E-02	1.65861E 00	9.79587E-03				
32.00	6.61300E-04	1.61770E 00	4.73231E-02	-9.97541E 01	-4.55266E-02	1.66892E 00	9.79620E-03				
32.10	6.65440E-04	1.62789E 00	4.77819E-02	-9.97579E 01	-4.59748E-02	1.67927E 00	9.79653E-03				
32.20	6.69592E-04	1.63811E 00	4.82437E-02	-9.97618E 01	-4.64258E-02	1.68965E 00	9.79685E-03				
32.30	6.73757E-04	1.64836E 00	4.87085E-02	-9.97655E 01	-4.68798E-02	1.70006E 00	9.79717E-03				
32.40	6.77935E-04	1.65864E 00	4.91762E-02	-9.97693E 01	-4.73367E-02	1.71050E 00	9.79749E-03				
32.50	6.82127E-04	1.66896E 00	4.96469E-02	-9.97730E 01	-4.77966E-02	1.72098E 00	9.79781E-03				
32.60	6.86331E-04	1.67930E 00	5.01206E-02	-9.97767E 01	-4.82594E-02	1.73149E 00	9.79813E-03				
32.70	6.90547E-04	1.68968E 00	5.05973E-02	-9.97804E 01	-4.87252E-02	1.74202E 00	9.79844E-03				
32.80	6.94777E-04	1.70009E 00	5.10770E-02	-9.97841E 01	-4.91940E-02	1.75259E 00	9.79875E-03				
32.90	6.99020E-04	1.71053E 00	5.15597E-02	-9.97877E 01	-4.96657E-02	1.76319E 00	9.79906E-03				
33.00	7.03276E-04	1.72101E 00	5.20454E-02	-9.97913E 01	-5.01405E-02	1.77383E 00	9.79937E-03				
33.10	7.07544E-04	1.73151E 00	5.25342E-02	-9.97949E 01	-5.06182E-02	1.78449E 00	9.79968E-03				
33.20	7.11826E-04	1.74205E 00	5.30260E-02	-9.97985E 01	-5.10990E-02	1.79519E 00	9.79999E-03				
33.30	7.16120E-04	1.75262E 00	5.35209E-02	-9.98021E 01	-5.15828E-02	1.80592E 00	9.80029E-03				
33.40	7.20428E-04	1.76322E 00	5.40188E-02	-9.98056E 01	-5.20696E-02	1.81668E 00	9.80059E-03				
33.50	7.24748E-04	1.77385E 00	5.45198E-02	-9.98091E 01	-5.25595E-02	1.82747E 00	9.80089E-03				
33.60	7.29081E-04	1.78452E 00	5.50239E-02	-9.98126E 01	-5.30524E-02	1.83829E 00	9.80119E-03				
33.70	7.33427E-04	1.79521E 00	5.55311E-02	-9.98160E 01	-5.35484E-02	1.84915E 00	9.80149E-03				
33.80	7.37786E-04	1.80594E 00	5.60413E-02	-9.98195E 01	-5.40474E-02	1.86003E 00	9.80178E-03				
33.90	7.42158E-04	1.81670E 00	5.65547E-02	-9.98229E 01	-5.45495E-02	1.87095E 00	9.80208E-03				
34.00	7.46543E-04	1.82749E 00	5.70712E-02	-9.98263E 01	-5.50547E-02	1.88190E 00	9.80237E-03				
34.10	7.50941E-04	1.83832E 00	5.75909E-02	-9.98297E 01	-5.55630E-02	1.89289E 00	9.80266E-03				
34.20	7.55351E-04	1.84917E 00	5.81137E-02	-9.98330E 01	-5.60744E-02	1.90390E 00	9.80295E-03				
34.30	7.59775E-04	1.86006E 00	5.86396E-02	-9.98364E 01	-5.65890E-02	1.91495E 00	9.80323E-03				
34.40	7.64211E-04	1.87097E 00	5.91687E-02	-9.98397E 01	-5.71066E-02	1.92602E 00	9.80352E-03				
34.50	7.68661E-04	1.88192E 00	5.97009E-02	-9.98430E 01	-5.76274E-02	1.93713E 00	9.80380E-03				
34.60	7.73123E-04	1.89291E 00	6.02363E-02	-9.98463E 01	-5.81513E-02	1.94827E 00	9.80408E-03				
34.70	7.77598E-04	1.90392E 00	6.07750E-02	-9.98496E 01	-5.86784E-02	1.95944E 00	9.80437E-03				
34.80	7.82086E-04	1.91496E 00	6.13168E-02	-9.98528E 01	-5.92087E-02	1.97065E 00	9.80464E-03				
34.90	7.86587E-04	1.92604E 00	6.18618E-02	-9.98560E 01	-5.97421E-02	1.98188E 00	9.80492E-03				
35.00	7.91101E-04	1.93715E 00	6.24100E-02	-9.98592E 01	-6.02787E-02	1.99315E 00	9.80520E-03				
35.10	7.95628E-04	1.94829E 00	6.29614E-02	-9.98624E 01	-6.08185E-02	2.00445E 00	9.80547E-03				
35.20	8.00168E-04	1.95946E 00	6.35161E-02	-9.98656E 01	-6.13615E-02	2.01578E 00	9.80575E-03				
35.30	8.04721E-04	1.97066E 00	6.40740E-02	-9.98687E 01	-6.19077E-02	2.02714E 00	9.80602E-03				
35.40	8.09286E-04	1.98190E 00	6.46352E-02	-9.98719E 01	-6.24571E-02	2.03854E 00	9.80629E-03				
35.50	8.13865E-04	1.99316E 00	6.51996E-02	-9.98750E 01	-6.30098E-02	2.04996E 00	9.80656E-03				
35.60	8.18456E-04	2.00446E 00	6.57673E-02	-9.98781E 01	-6.35657E-02	2.06142E 00	9.80682E-03				
35.70	8.23061E-04	2.01579E 00	6.63383E-02	-9.98812E 01	-6.41248E-02	2.07291E 00	9.80709E-03				
35.80	8.27678E-04	2.02715E 00	6.69126E-02	-9.98842E 01	-6.46872E-02	2.08443E 00	9.80735E-03				
35.90	8.32308E-04	2.03855E 00	6.74902E-02	-9.98873E 01	-6.52528E-02	2.09598E 00	9.80762E-03				
36.00	8.36951E-04	2.04997E 00	6.80710E-02	-9.98903E 01	-6.58218E-02	2.10757E 00	9.80788E-03				



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=2$		$A=4$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
36.10	9.55534E-01	3.51319E 01	1.94220E 00	-7.14013E-04	-1.87901E 00	3.61427E 01	8.95720E 02	
36.20	9.55534E-01	3.52322E 01	1.95357E 00	-7.14323E-04	-1.89023E 00	3.62433E 01	8.96372E 02	
36.30	9.55533E-01	3.53326E 01	1.96497E 00	-7.14632E-04	-1.90148E 00	3.63438E 01	8.97021E 02	
36.40	9.55533E-01	3.54330E 01	1.97641E 00	-7.14939E-04	-1.91276E 00	3.64444E 01	8.97668E 02	
36.50	9.55533E-01	3.55335E 01	1.98789E 00	-7.15241E-04	-1.92408E 00	3.65450E 01	8.98316E 02	
36.60	9.55532E-01	3.56339E 01	1.99939E 00	-7.15540E-04	-1.93543E 00	3.66456E 01	8.98962E 02	
36.70	9.55532E-01	3.57343E 01	2.01093E 00	-7.15838E-04	-1.94682E 00	3.67463E 01	8.99606E 02	
36.80	9.55531E-01	3.58348E 01	2.02251E 00	-7.16125E-04	-1.95824E 00	3.68469E 01	9.00251E 02	
36.90	9.55531E-01	3.59353E 01	2.03412E 00	-7.16414E-04	-1.96969E 00	3.69476E 01	9.00894E 02	
37.00	9.55530E-01	3.60358E 01	2.04577E 00	-7.16697E-04	-1.98118E 00	3.70483E 01	9.01537E 02	
37.10	9.55530E-01	3.61363E 01	2.05744E 00	-7.16977E-04	-1.99271E 00	3.71490E 01	9.02179E 02	
37.20	9.55529E-01	3.62368E 01	2.06916E 00	-7.17254E-04	-2.00426E 00	3.72497E 01	9.02819E 02	
37.30	9.55529E-01	3.63373E 01	2.08090E 00	-7.17527E-04	-2.01586E 00	3.73504E 01	9.03459E 02	
37.40	9.55528E-01	3.64379E 01	2.09268E 00	-7.17797E-04	-2.02748E 00	3.74511E 01	9.04098E 02	
37.50	9.55528E-01	3.65385E 01	2.10450E 00	-7.18063E-04	-2.03914E 00	3.75519E 01	9.04736E 02	
37.60	9.55527E-01	3.66390E 01	2.11635E 00	-7.18328E-04	-2.05084E 00	3.76526E 01	9.05372E 02	
37.70	9.55527E-01	3.67396E 01	2.12823E 00	-7.18588E-04	-2.06257E 00	3.77534E 01	9.06008E 02	
37.80	9.55526E-01	3.68402E 01	2.14015E 00	-7.18844E-04	-2.07433E 00	3.78542E 01	9.06644E 02	
37.90	9.55526E-01	3.69409E 01	2.15211E 00	-7.19095E-04	-2.08613E 00	3.79550E 01	9.07280E 02	
38.00	9.55526E-01	3.70415E 01	2.16409E 00	-7.19344E-04	-2.09796E 00	3.80558E 01	9.07914E 02	
38.10	9.55525E-01	3.71421E 01	2.17611E 00	-7.19590E-04	-2.10983E 00	3.81567E 01	9.08548E 02	
38.20	9.55525E-01	3.72428E 01	2.18817E 00	-7.19833E-04	-2.12173E 00	3.82575E 01	9.09180E 02	
38.30	9.55524E-01	3.73435E 01	2.20026E 00	-7.20073E-04	-2.13366E 00	3.83584E 01	9.09811E 02	
38.40	9.55524E-01	3.74442E 01	2.21238E 00	-7.20311E-04	-2.14563E 00	3.84593E 01	9.10441E 02	
38.50	9.55523E-01	3.75449E 01	2.22454E 00	-7.20543E-04	-2.15764E 00	3.85602E 01	9.11072E 02	
38.60	9.55523E-01	3.76456E 01	2.23674E 00	-7.20774E-04	-2.16968E 00	3.86611E 01	9.11701E 02	
38.70	9.55523E-01	3.77463E 01	2.24896E 00	-7.21000E-04	-2.18175E 00	3.87620E 01	9.12331E 02	
38.80	9.55522E-01	3.78471E 01	2.26123E 00	-7.21224E-04	-2.19386E 00	3.88630E 01	9.12958E 02	
38.90	9.55522E-01	3.79478E 01	2.27352E 00	-7.21444E-04	-2.20600E 00	3.89639E 01	9.13586E 02	
39.00	9.55521E-01	3.80486E 01	2.28585E 00	-7.21662E-04	-2.21818E 00	3.90649E 01	9.14213E 02	
39.10	9.55521E-01	3.81494E 01	2.29822E 00	-7.21874E-04	-2.23039E 00	3.91659E 01	9.14840E 02	
39.20	9.55520E-01	3.82502E 01	2.31062E 00	-7.22087E-04	-2.24263E 00	3.92669E 01	9.15464E 02	
39.30	9.55520E-01	3.83511E 01	2.32306E 00	-7.22295E-04	-2.25491E 00	3.93679E 01	9.16089E 02	
39.40	9.55519E-01	3.84519E 01	2.33552E 00	-7.22499E-04	-2.26723E 00	3.94690E 01	9.16714E 02	
39.50	9.55519E-01	3.85528E 01	2.34803E 00	-7.22701E-04	-2.27958E 00	3.95700E 01	9.17338E 02	
39.60	9.55519E-01	3.86536E 01	2.36057E 00	-7.22901E-04	-2.29196E 00	3.96711E 01	9.17960E 02	
39.70	9.55518E-01	3.87545E 01	2.37314E 00	-7.23094E-04	-2.30438E 00	3.97722E 01	9.18584E 02	
39.80	9.55518E-01	3.88554E 01	2.38575E 00	-7.23287E-04	-2.31683E 00	3.98733E 01	9.19206E 02	
39.90	9.55517E-01	3.89563E 01	2.39839E 00	-7.23478E-04	-2.32932E 00	3.99744E 01	9.19826E 02	
40.00	9.55517E-01	3.90573E 01	2.41106E 00	-7.23664E-04	-2.34184E 00	4.00755E 01	9.20448E 02	
40.10	9.55516E-01	3.91582E 01	2.42377E 00	-7.23848E-04	-2.35440E 00	4.01767E 01	9.21068E 02	
40.20	9.55516E-01	3.92592E 01	2.43652E 00	-7.24028E-04	-2.36699E 00	4.02778E 01	9.21689E 02	
40.30	9.55515E-01	3.93601E 01	2.44930E 00	-7.24207E-04	-2.37961E 00	4.03790E 01	9.22308E 02	
40.40	9.55515E-01	3.94611E 01	2.46211E 00	-7.24382E-04	-2.39228E 00	4.04802E 01	9.22926E 02	
40.50	9.55515E-01	3.95621E 01	2.47496E 00	-7.24554E-04	-2.40497E 00	4.05814E 01	9.23545E 02	
40.60	9.55514E-01	3.96632E 01	2.48785E 00	-7.24723E-04	-2.41770E 00	4.06826E 01	9.24163E 02	
40.70	9.55514E-01	3.97642E 01	2.50077E 00	-7.24890E-04	-2.43047E 00	4.07839E 01	9.24780E 02	
40.80	9.55513E-01	3.98653E 01	2.51372E 00	-7.25055E-04	-2.44326E 00	4.08851E 01	9.25396E 02	
40.90	9.55513E-01	3.99663E 01	2.52671E 00	-7.25215E-04	-2.45610E 00	4.09864E 01	9.26013E 02	
41.00	9.55512E-01	4.00674E 01	2.53973E 00	-7.25373E-04	-2.46897E 00	4.10877E 01	9.26629E 02	
41.10	9.55512E-01	4.01685E 01	2.55279E 00	-7.25528E-04	-2.48187E 00	4.11890E 01	9.27245E 02	
41.20	9.55511E-01	4.02697E 01	2.56588E 00	-7.25679E-04	-2.49481E 00	4.12903E 01	9.27862E 02	
41.30	9.55511E-01	4.03708E 01	2.57901E 00	-7.25830E-04	-2.50778E 00	4.13916E 01	9.28475E 02	
41.40	9.55511E-01	4.04719E 01	2.59217E 00	-7.25977E-04	-2.52079E 00	4.14930E 01	9.29090E 02	
41.50	9.55510E-01	4.05731E 01	2.60537E 00	-7.26123E-04	-2.53383E 00	4.15944E 01	9.29702E 02	
41.60	9.55510E-01	4.06743E 01	2.61860E 00	-7.26265E-04	-2.54691E 00	4.16957E 01	9.30316E 02	
41.70	9.55509E-01	4.07755E 01	2.63186E 00	-7.26402E-04	-2.56002E 00	4.17971E 01	9.30930E 02	
41.80	9.55509E-01	4.08767E 01	2.64516E 00	-7.26536E-04	-2.57317E 00	4.18986E 01	9.31544E 02	
41.90	9.55509E-01	4.09779E 01	2.65850E 00	-7.26670E-04	-2.58635E 00	4.20000E 01	9.32157E 02	
42.00	9.55508E-01	4.10792E 01	2.67187E 00	-7.26800E-04	-2.59957E 00	4.21015E 01	9.32769E 02	

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=2$			$A=4$			$\rho=1.2 A^{1/3} F$			Positron
		$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$	
36.10	8.41608E-04	2.06143E 00	6.86552E-02	-9.98933E 01	-6.63940E-02	2.11918E 00	9.80814E-03				
36.20	8.46276E-04	2.07292E 00	6.92428E-02	-9.98963E 01	-6.69696E-02	2.13083E 00	9.80840E-03				
36.30	8.50958E-04	2.08444E 00	6.98336E-02	-9.98993E 01	-6.75484E-02	2.14251E 00	9.80865E-03				
36.40	8.55653E-04	2.09599E 00	7.04278E-02	-9.99022E 01	-6.81305E-02	2.15422E 00	9.80891E-03				
36.50	8.60361E-04	2.10757E 00	7.10253E-02	-9.99051E 01	-6.87160E-02	2.16596E 00	9.80916E-03				
36.60	8.65081E-04	2.11919E 00	7.16263E-02	-9.99081E 01	-6.93048E-02	2.17774E 00	9.80942E-03				
36.70	8.69815E-04	2.13084E 00	7.22306E-02	-9.99110E 01	-6.98969E-02	2.18954E 00	9.80967E-03				
36.80	8.74561E-04	2.14251E 00	7.28382E-02	-9.99139E 01	-7.04924E-02	2.20138E 00	9.80992E-03				
36.90	8.79321E-04	2.15422E 00	7.34493E-02	-9.99168E 01	-7.10912E-02	2.21325E 00	9.81017E-03				
37.00	8.84093E-04	2.16597E 00	7.40637E-02	-9.99196E 01	-7.16934E-02	2.22515E 00	9.81042E-03				
37.10	8.88878E-04	2.17774E 00	7.46816E-02	-9.99225E 01	-7.22990E-02	2.23708E 00	9.81067E-03				
37.20	8.93676E-04	2.18954E 00	7.53029E-02	-9.99253E 01	-7.29080E-02	2.24905E 00	9.81091E-03				
37.30	8.98487E-04	2.20138E 00	7.59276E-02	-9.99281E 01	-7.35203E-02	2.26104E 00	9.81116E-03				
37.40	9.03311E-04	2.21325E 00	7.65557E-02	-9.99309E 01	-7.41361E-02	2.27307E 00	9.81140E-03				
37.50	9.08148E-04	2.22515E 00	7.71873E-02	-9.99337E 01	-7.47553E-02	2.28513E 00	9.81164E-03				
37.60	9.12997E-04	2.23708E 00	7.78224E-02	-9.99364E 01	-7.53779E-02	2.29722E 00	9.81188E-03				
37.70	9.17860E-04	2.24904E 00	7.84609E-02	-9.99392E 01	-7.60039E-02	2.30934E 00	9.81212E-03				
37.80	9.22736E-04	2.26104E 00	7.91029E-02	-9.99419E 01	-7.66334E-02	2.32149E 00	9.81236E-03				
37.90	9.27624E-04	2.27306E 00	7.97484E-02	-9.99446E 01	-7.72664E-02	2.33368E 00	9.81260E-03				
38.00	9.32525E-04	2.28512E 00	8.03973E-02	-9.99473E 01	-7.79028E-02	2.34589E 00	9.81283E-03				
38.10	9.37440E-04	2.29721E 00	8.10498E-02	-9.99500E 01	-7.85427E-02	2.35814E 00	9.81307E-03				
38.20	9.42367E-04	2.30933E 00	8.17058E-02	-9.99527E 01	-7.91860E-02	2.37042E 00	9.81330E-03				
38.30	9.47307E-04	2.32148E 00	8.23653E-02	-9.99554E 01	-7.98329E-02	2.38273E 00	9.81353E-03				
38.40	9.52260E-04	2.33367E 00	8.30284E-02	-9.99580E 01	-8.04832E-02	2.39508E 00	9.81376E-03				
38.50	9.57226E-04	2.34588E 00	8.36950E-02	-9.99607E 01	-8.11371E-02	2.40745E 00	9.81399E-03				
38.60	9.62205E-04	2.35813E 00	8.43651E-02	-9.99633E 01	-8.17945E-02	2.41986E 00	9.81422E-03				
38.70	9.67197E-04	2.37041E 00	8.50388E-02	-9.99659E 01	-8.24554E-02	2.43229E 00	9.81445E-03				
38.80	9.72202E-04	2.38272E 00	8.57161E-02	-9.99685E 01	-8.31198E-02	2.44476E 00	9.81468E-03				
38.90	9.77219E-04	2.39506E 00	8.63969E-02	-9.99711E 01	-8.37878E-02	2.45726E 00	9.81490E-03				
39.00	9.82250E-04	2.40744E 00	8.70813E-02	-9.99736E 01	-8.44594E-02	2.46980E 00	9.81513E-03				
39.10	9.87293E-04	2.41984E 00	8.77693E-02	-9.99762E 01	-8.51345E-02	2.48236E 00	9.81535E-03				
39.20	9.92350E-04	2.43228E 00	8.84610E-02	-9.99787E 01	-8.58132E-02	2.49496E 00	9.81557E-03				
39.30	9.97419E-04	2.44475E 00	8.91562E-02	-9.99812E 01	-8.64954E-02	2.50758E 00	9.81579E-03				
39.40	1.00250E-03	2.45725E 00	8.98551E-02	-9.99838E 01	-8.71813E-02	2.52024E 00	9.81601E-03				
39.50	1.00760E-03	2.46978E 00	9.05576E-02	-9.99863E 01	-8.78707E-02	2.53293E 00	9.81623E-03				
39.60	1.01270E-03	2.48234E 00	9.12637E-02	-9.99887E 01	-8.85638E-02	2.54565E 00	9.81645E-03				
39.70	1.01782E-03	2.49493E 00	9.19735E-02	-9.99912E 01	-8.92605E-02	2.55841E 00	9.81667E-03				
39.80	1.02296E-03	2.50756E 00	9.26870E-02	-9.99937E 01	-8.99608E-02	2.57119E 00	9.81688E-03				
39.90	1.02811E-03	2.52022E 00	9.34041E-02	-9.99961E 01	-9.06648E-02	2.58401E 00	9.81710E-03				
40.00	1.03327E-03	2.53291E 00	9.41249E-02	-9.99986E 01	-9.13724E-02	2.59686E 00	9.81731E-03				
40.10	1.03844E-03	2.54563E 00	9.48494E-02	-1.00001E 02	-9.20837E-02	2.60974E 00	9.81752E-03				
40.20	1.04362E-03	2.55838E 00	9.55776E-02	-1.00003E 02	-9.27986E-02	2.62265E 00	9.81774E-03				
40.30	1.04882E-03	2.57116E 00	9.63095E-02	-1.00006E 02	-9.35172E-02	2.63559E 00	9.81795E-03				
40.40	1.05403E-03	2.58398E 00	9.70451E-02	-1.00008E 02	-9.42395E-02	2.64856E 00	9.81816E-03				
40.50	1.05926E-03	2.59683E 00	9.77845E-02	-1.00011E 02	-9.49655E-02	2.66157E 00	9.81837E-03				
40.60	1.06449E-03	2.60970E 00	9.85275E-02	-1.00013E 02	-9.56952E-02	2.67461E 00	9.81857E-03				
40.70	1.06974E-03	2.62262E 00	9.92744E-02	-1.00015E 02	-9.64287E-02	2.68767E 00	9.81878E-03				
40.80	1.07501E-03	2.63556E 00	1.00025E-01	-1.00018E 02	-9.71658E-02	2.70077E 00	9.81899E-03				
40.90	1.08028E-03	2.64853E 00	1.00779E-01	-1.00020E 02	-9.79067E-02	2.71391E 00	9.81919E-03				
41.00	1.08557E-03	2.66153E 00	1.01537E-01	-1.00022E 02	-9.86513E-02	2.72707E 00	9.81939E-03				
41.10	1.09087E-03	2.67457E 00	1.02299E-01	-1.00025E 02	-9.93996E-02	2.74026E 00	9.81960E-03				
41.20	1.09619E-03	2.68764E 00	1.03065E-01	-1.00027E 02	-1.00152E-01	2.75349E 00	9.81980E-03				
41.30	1.10152E-03	2.70074E 00	1.03835E-01	-1.00029E 02	-1.00908E-01	2.76675E 00	9.82000E-03				
41.40	1.10686E-03	2.71387E 00	1.04608E-01	-1.00031E 02	-1.01667E-01	2.78004E 00	9.82020E-03				
41.50	1.11221E-03	2.72703E 00	1.05385E-01	-1.00034E 02	-1.02431E-01	2.79336E 00	9.82040E-03				
41.60	1.11758E-03	2.74022E 00	1.06166E-01	-1.00036E 02	-1.03198E-01	2.80671E 00	9.82060E-03				
41.70	1.12296E-03	2.75345E 00	1.06951E-01	-1.00038E 02	-1.03969E-01	2.82009E 00	9.82080E-03				
41.80	1.12835E-03	2.76670E 00	1.07739E-01	-1.00040E 02	-1.04744E-01	2.83351E 00	9.82099E-03				
41.90	1.13375E-03	2.77999E 00	1.08532E-01	-1.00043E 02	-1.05523E-01	2.84695E 00	9.82119E-03				
42.00	1.13917E-03	2.79331E 00	1.09328E-01	-1.00045E 02	-1.06305E-01	2.86043E 00	9.82138E-03				



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=3$	$A=6$	$\rho=1.2 A^{1/3} F$				
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
0.10	4.65245E-01	4.83539E-03	-2.40947E-05	9.38084E-02	8.42791E-04	9.63452E-02	8.15667E 00
0.20	6.92790E-01	2.32381E-02	-1.15147E-04	4.66011E-02	2.04289E-03	2.34284E-01	1.59892E 01
0.30	7.82710E-01	5.45456E-02	-2.67792E-04	3.10113E-02	3.22144E-03	3.71386E-01	2.38841E 01
0.40	8.29322E-01	9.74576E-02	-4.72414E-04	2.32013E-02	4.35664E-03	5.05880E-01	3.17561E 01
0.50	8.57199E-01	1.50449E-01	-7.17671E-04	1.84933E-02	5.43833E-03	6.37194E-01	3.95706E 01
0.60	8.75378E-01	2.11949E-01	-9.91824E-04	1.53360E-02	6.46092E-03	7.65135E-01	4.73045E 01
0.70	8.87944E-01	2.80474E-01	-1.28374E-03	1.30663E-02	7.42190E-03	8.89742E-01	5.49413E 01
0.80	8.97001E-01	3.54704E-01	-1.58345E-03	1.13527E-02	8.32089E-03	1.01120E 00	6.24689E 01
0.90	9.03742E-01	4.33513E-01	-1.88243E-03	1.00110E-02	9.15888E-03	1.12977E 00	6.98789E 01
1.00	9.08890E-01	5.15971E-01	-2.17362E-03	8.93085E-03	9.93766E-03	1.24575E 00	7.71658E 01
1.10	9.12905E-01	6.01323E-01	-2.45124E-03	8.04167E-03	1.06594E-02	1.35944E 00	8.43263E 01
1.20	9.16090E-01	6.88970E-01	-2.71068E-03	7.29642E-03	1.13262E-02	1.47113E 00	9.13587E 01
1.30	9.18659E-01	7.78437E-01	-2.94828E-03	6.66242E-03	1.19404E-02	1.58108E 00	9.82627E 01
1.40	9.20755E-01	8.69348E-01	-3.16112E-03	6.11626E-03	1.25038E-02	1.68953E 00	1.05039E 02
1.50	9.22486E-01	9.61409E-01	-3.34691E-03	5.64071E-03	1.30183E-02	1.79666E 00	1.11688E 02
1.60	9.23932E-01	1.05439E 00	-3.50385E-03	5.22282E-03	1.34855E-02	1.90267E 00	1.18212E 02
1.70	9.25151E-01	1.14811E 00	-3.63048E-03	4.85260E-03	1.39068E-02	2.00770E 00	1.24614E 02
1.80	9.26185E-01	1.24242E 00	-3.72567E-03	4.52230E-03	1.42833E-02	2.11188E 00	1.30895E 02
1.90	9.27070E-01	1.33721E 00	-3.78851E-03	4.22575E-03	1.46161E-02	2.21533E 00	1.37058E 02
2.00	9.27834E-01	1.43240E 00	-3.81827E-03	3.95801E-03	1.49060E-02	2.31812E 00	1.43105E 02
2.10	9.28496E-01	1.52789E 00	-3.81437E-03	3.71506E-03	1.51539E-02	2.42035E 00	1.49040E 02
2.20	9.29074E-01	1.62365E 00	-3.77632E-03	3.49357E-03	1.53605E-02	2.52209E 00	1.54865E 02
2.30	9.29579E-01	1.71962E 00	-3.70375E-03	3.29083E-03	1.55262E-02	2.62339E 00	1.60582E 02
2.40	9.30025E-01	1.81576E 00	-3.59634E-03	3.10454E-03	1.56516E-02	2.72430E 00	1.66195E 02
2.50	9.30421E-01	1.91205E 00	-3.45383E-03	2.93278E-03	1.57371E-02	2.82488E 00	1.71705E 02
2.60	9.30771E-01	2.00845E 00	-3.27602E-03	2.77389E-03	1.57831E-02	2.92515E 00	1.77116E 02
2.70	9.31085E-01	2.10495E 00	-3.06273E-03	2.62649E-03	1.57899E-02	3.02515E 00	1.82429E 02
2.80	9.31365E-01	2.20153E 00	-2.81382E-03	2.48937E-03	1.57579E-02	3.12491E 00	1.87648E 02
2.90	9.31617E-01	2.29817E 00	-2.52916E-03	2.36148E-03	1.56871E-02	3.22445E 00	1.92775E 02
3.00	9.31844E-01	2.39487E 00	-2.20866E-03	2.24194E-03	1.55779E-02	3.32380E 00	1.97812E 02
3.10	9.32050E-01	2.49161E 00	-1.85224E-03	2.12993E-03	1.54305E-02	3.42297E 00	2.02761E 02
3.20	9.32236E-01	2.58838E 00	-1.45981E-03	2.02477E-03	1.52450E-02	3.52199E 00	2.07625E 02
3.30	9.32405E-01	2.68517E 00	-1.03133E-03	1.92585E-03	1.50216E-02	3.62086E 00	2.12406E 02
3.40	9.32559E-01	2.78198E 00	-5.66754E-04	1.83264E-03	1.47603E-02	3.71960E 00	2.17106E 02
3.50	9.32700E-01	2.87881E 00	-6.60344E-05	1.74465E-03	1.44614E-02	3.81822E 00	2.21726E 02
3.60	9.32828E-01	2.97563E 00	4.70855E-04	1.66145E-03	1.41249E-02	3.91674E 00	2.26269E 02
3.70	9.32946E-01	3.07244E 00	1.04393E-03	1.58266E-03	1.37509E-02	4.01515E 00	2.30737E 02
3.80	9.33055E-01	3.16924E 00	1.65321E-03	1.50795E-03	1.33396E-02	4.11348E 00	2.35132E 02
3.90	9.33155E-01	3.26600E 00	2.29869E-03	1.43700E-03	1.28909E-02	4.21173E 00	2.39455E 02
4.00	9.33247E-01	3.36272E 00	2.98035E-03	1.36953E-03	1.24049E-02	4.30990E 00	2.43708E 02
4.10	9.33332E-01	3.45934E 00	3.69814E-03	1.30530E-03	1.18817E-02	4.40800E 00	2.47893E 02
4.20	9.33410E-01	3.55583E 00	4.45196E-03	1.24408E-03	1.13215E-02	4.50604E 00	2.52011E 02
4.30	9.33483E-01	3.65206E 00	5.24159E-03	1.18566E-03	1.07241E-02	4.60402E 00	2.56064E 02
4.40	9.33551E-01	3.74779E 00	6.06648E-03	1.12986E-03	1.00896E-02	4.70195E 00	2.60055E 02
4.50	9.33614E-01	3.84230E 00	6.92508E-03	1.07650E-03	9.41820E-03	4.79983E 00	2.63982E 02
4.60	9.33671E-01	3.93223E 00	7.81008E-03	1.02542E-03	8.70978E-03	4.89765E 00	2.67850E 02
4.70	9.33726E-01	3.88748E 00	8.43655E-03	9.76490E-04	7.96443E-03	4.99544E 00	2.71658E 02
4.80	9.33777E-01	4.15974E 00	9.79358E-03	9.29570E-04	7.18217E-03	5.09319E 00	2.75409E 02
4.90	9.33824E-01	4.24701E 00	1.07820E-02	8.84537E-04	6.36303E-03	5.19090E 00	2.79103E 02
5.00	9.33868E-01	4.34103E 00	1.18216E-02	8.41280E-04	5.50703E-03	5.28858E 00	2.82742E 02
5.10	9.33909E-01	4.43661E 00	1.29011E-02	7.99700E-04	4.61420E-03	5.38623E 00	2.86327E 02
5.20	9.33948E-01	4.53279E 00	1.40183E-02	7.59699E-04	3.68455E-03	5.48385E 00	2.89859E 02
5.30	9.33983E-01	4.62926E 00	1.51726E-02	7.21195E-04	2.71810E-03	5.58144E 00	2.93340E 02
5.40	9.34017E-01	4.72589E 00	1.63637E-02	6.84094E-04	1.71488E-03	5.67900E 00	2.96771E 02
5.50	9.34049E-01	4.82264E 00	1.75915E-02	6.48327E-04	6.74891E-04	5.77655E 00	3.00152E 02
5.60	9.34079E-01	4.91945E 00	1.88560E-02	6.13830E-04	-4.01845E-04	5.87407E 00	3.03485E 02
5.70	9.34107E-01	5.01631E 00	2.01570E-02	5.80524E-04	-1.51532E-03	5.97157E 00	3.06771E 02
5.80	9.34133E-01	5.11320E 00	2.14946E-02	5.48359E-04	-2.66552E-03	6.06905E 00	3.10010E 02
5.90	9.34158E-01	5.21013E 00	2.28687E-02	5.17276E-04	-3.85243E-03	6.16524E 00	3.13206E 02
6.00	9.34182E-01	5.30707E 00	2.42793E-02	4.87215E-04	-5.07605E-03	6.26397E 00	3.16356E 02

## ELECTRON RADIAL FUNCTIONS

	$Z=3$	$A=6$	$\rho = 1.2 A^{1/3} F$			Positron		
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
0.10	4.31105E-09	8.35901E-07	-2.28999E-09	-4.85287E 00	9.27111E-08	1.85486E-05	9.44570E-02	
0.20	2.48014E-08	8.56283E-06	-2.33150E-08	-9.70328E 00	4.41645E-07	8.86561E-05	4.80489E-02	
0.30	6.26374E-08	3.04873E-05	-8.21770E-08	-1.43231E 01	1.04098E-06	2.10121E-04	3.32406E-02	
0.40	1.17722E-07	7.29123E-05	-1.93814E-07	-1.86606E 01	1.87428E-06	3.81189E-04	2.61815E-02	
0.50	1.89929E-07	1.40950E-04	-3.68142E-07	-2.26739E 01	2.92169E-06	5.99861E-04	2.21867E-02	
0.60	2.79146E-07	2.38512E-04	-6.09990E-07	-2.63430E 01	4.16183E-06	8.64129E-04	1.97009E-02	
0.70	3.85281E-07	3.68444E-04	-9.19626E-07	-2.96667E 01	5.57319E-06	1.17214E-03	1.80587E-02	
0.80	5.08258E-07	5.32723E-04	-1.29358E-06	-3.26578E 01	7.13495E-06	1.52229E-03	1.69287E-02	
0.90	6.48014E-07	7.32658E-04	-1.72550E-06	-3.53384E 01	8.82748E-06	1.91325E-03	1.61280E-02	
1.00	8.04505E-07	9.69079E-04	-2.20695E-06	-3.77351E 01	1.06324E-05	2.34395E-03	1.55481E-02	
1.10	9.77691E-07	1.24248E-03	-2.72800E-06	-3.98761E 01	1.25325E-05	2.81355E-03	1.51212E-02	
1.20	1.16754E-06	1.55314E-03	-3.27774E-06	-4.17895E 01	1.45116E-05	3.32140E-03	1.48029E-02	
1.30	1.37404E-06	1.90117E-03	-3.84461E-06	-4.35015E 01	1.65546E-05	3.86702E-03	1.45633E-02	
1.40	1.59717E-06	2.28662E-03	-4.41660E-06	-4.50359E 01	1.86466E-05	4.45002E-03	1.43819E-02	
1.50	1.83690E-06	2.70947E-03	-4.98144E-06	-4.64144E 01	2.07737E-05	5.07014E-03	1.42440E-02	
1.60	2.09324E-06	3.16964E-03	-5.52673E-06	-4.76559E 01	2.29222E-05	5.72716E-03	1.41391E-02	
1.70	2.36617E-06	3.66708E-03	-6.03993E-06	-4.87769E 01	2.50788E-05	6.42092E-03	1.40594E-02	
1.80	2.65569E-06	4.20169E-03	-6.50849E-06	-4.97921E 01	2.72304E-05	7.15131E-03	1.39993E-02	
1.90	2.96179E-06	4.77339E-03	-6.91985E-06	-5.07141E 01	2.93640E-05	7.91824E-03	1.39544E-02	
2.00	3.28446E-06	5.38209E-03	-7.26142E-06	-5.15537E 01	3.14669E-05	8.72165E-03	1.39215E-02	
2.10	3.62370E-06	6.02768E-03	-7.52064E-06	-5.23204E 01	3.35265E-05	9.56149E-03	1.38980E-02	
2.20	3.97951E-06	6.71008E-03	-7.68496E-06	-5.30225E 01	3.55302E-05	1.04377E-02	1.38819E-02	
2.30	4.35188E-06	7.42919E-03	-7.74185E-06	-5.36671E 01	3.74653E-05	1.13503E-02	1.38718E-02	
2.40	4.74082E-06	8.18490E-03	-7.67882E-06	-5.42604E 01	3.93195E-05	1.22993E-02	1.38665E-02	
2.50	5.14632E-06	8.97708E-03	-7.48338E-06	-5.48079E 01	4.10804E-05	1.32846E-02	1.38649E-02	
2.60	5.56838E-06	9.80559E-03	-7.14309E-06	-5.53142E 01	4.27355E-05	1.43062E-02	1.38663E-02	
2.70	6.00700E-06	1.06703E-02	-6.64554E-06	-5.57836E 01	4.42724E-05	1.53642E-02	1.38702E-02	
2.80	6.46217E-06	1.15708E-02	-5.97834E-06	-5.62197E 01	4.56788E-05	1.64585E-02	1.38760E-02	
2.90	6.93391E-06	1.25070E-02	-5.12922E-06	-5.66257E 01	4.69423E-05	1.75891E-02	1.38833E-02	
3.00	7.42219E-06	1.34782E-02	-4.08594E-06	-5.70044E 01	4.80505E-05	1.87560E-02	1.38919E-02	
3.10	7.92704E-06	1.44836E-02	-2.83645E-06	-5.73583E 01	4.89912E-05	1.99593E-02	1.39013E-02	
3.20	8.44843E-06	1.55219E-02	-1.36898E-06	-5.76897E 01	4.97519E-05	2.11988E-02	1.39116E-02	
3.30	8.98638E-06	1.65901E-02	3.27554E-07	-5.80005E 01	5.03204E-05	2.24747E-02	1.39224E-02	
3.40	9.54089E-06	1.76821E-02	2.26261E-06	-5.82925E 01	5.06843E-05	2.37870E-02	1.39336E-02	
3.50	1.01119E-05	1.87796E-02	4.44007E-06	-5.85673E 01	5.08313E-05	2.51355E-02	1.39451E-02	
3.60	1.06995E-05	1.98016E-02	6.83424E-06	-5.88263E 01	5.07490E-05	2.65204E-02	1.39569E-02	
3.70	1.13037E-05	1.84350E-02	8.37053E-06	-5.90707E 01	5.04252E-05	2.79416E-02	1.39687E-02	
3.80	1.19244E-05	2.31942E-02	1.30625E-05	-5.93017E 01	4.98475E-05	2.93992E-02	1.39807E-02	
3.90	1.25617E-05	2.42284E-02	1.62933E-05	-5.95203E 01	4.90036E-05	3.08931E-02	1.39926E-02	
4.00	1.32155E-05	2.54912E-02	1.99333E-05	-5.97275E 01	4.78811E-05	3.24233E-02	1.40045E-02	
4.10	1.38858E-05	2.68328E-02	2.39244E-05	-5.99241E 01	4.64679E-05	3.39899E-02	1.40164E-02	
4.20	1.45727E-05	2.82271E-02	2.82668E-05	-6.01109E 01	4.47514E-05	3.55929E-02	1.40281E-02	
4.30	1.52762E-05	2.96660E-02	3.29689E-05	-6.02884E 01	4.27194E-05	3.72322E-02	1.40397E-02	
4.40	1.59962E-05	3.11457E-02	3.80415E-05	-6.04575E 01	4.03596E-05	3.89078E-02	1.40512E-02	
4.50	1.67328E-05	3.26648E-02	4.34961E-05	-6.06187E 01	3.76597E-05	4.06198E-02	1.40626E-02	
4.60	1.74859E-05	3.42221E-02	4.93447E-05	-6.07724E 01	3.46073E-05	4.23681E-02	1.40737E-02	
4.70	1.82555E-05	3.58171E-02	5.55991E-05	-6.09192E 01	3.11902E-05	4.41528E-02	1.40847E-02	
4.80	1.90417E-05	3.74496E-02	6.22719E-05	-6.10595E 01	2.73959E-05	4.59739E-02	1.40955E-02	
4.90	1.98445E-05	3.91193E-02	6.93752E-05	-6.11938E 01	2.32121E-05	4.78313E-02	1.41062E-02	
5.00	2.06638E-05	4.08259E-02	7.69212E-05	-6.13223E 01	1.86266E-05	4.97251E-02	1.41166E-02	
5.10	2.14997E-05	4.25694E-02	8.49222E-05	-6.14455E 01	1.36271E-05	5.16552E-02	1.41268E-02	
5.20	2.23521E-05	4.43497E-02	9.33906E-05	-6.15637E 01	8.20107E-06	5.36217E-02	1.41369E-02	
5.30	2.32210E-05	4.61667E-02	1.02339E-04	-6.16771E 01	5.23634E-06	5.56246E-02	1.41467E-02	
5.40	2.41065E-05	4.80204E-02	1.11779E-04	-6.17861E 01	-3.97946E-06	5.76639E-02	1.41564E-02	
5.50	2.50086E-05	4.99107E-02	1.21723E-04	-6.18908E 01	-1.07586E-05	5.97395E-02	1.41659E-02	
5.60	2.59271E-05	5.18376E-02	1.32184E-04	-6.19915E 01	-1.80135E-05	6.18515E-02	1.41752E-02	
5.70	2.68623E-05	5.38011E-02	1.43174E-04	-6.20885E 01	-2.57565E-05	6.39998E-02	1.41843E-02	
5.80	2.78140E-05	5.58011E-02	1.54705E-04	-6.21820E 01	-3.39998E-05	6.61845E-02	1.41932E-02	
5.90	2.87822E-05	5.78377E-02	1.66790E-04	-6.22720E 01	-4.27558E-05	6.84056E-02	1.42020E-02	
6.00	2.97670E-05	5.99108E-02	1.79441E-04	-6.23588E 01	-5.20368E-05	7.06631E-02	1.42105E-02	



ELECTRON RADIAL FUNCTIONS

Positron	$Z=3$		$A=6$		$\rho=1.2 A^{1/3} F$		
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
6.10	9.34203E-01	5.40403E 00	2.57265E-02	4.58132E-04	-6.33637E-03	6.36140E 00	3.19463E 02
6.20	9.34224E-01	5.50100E 00	2.72102E-02	4.29981E-04	-7.63338E-03	6.45882E 00	3.22528E 02
6.30	9.34243E-01	5.59799E 00	2.87304E-02	4.02715E-04	-8.96706E-03	6.55623E 00	3.25551E 02
6.40	9.34262E-01	5.69498E 00	3.02871E-02	3.76296E-04	-1.03374E-02	6.65362E 00	3.28534E 02
6.50	9.34279E-01	5.79198E 00	3.18803E-02	3.50680E-04	-1.17444E-02	6.75101E 00	3.31477E 02
6.60	9.34295E-01	5.88899E 00	3.35101E-02	3.25836E-04	-1.31881E-02	6.84838E 00	3.34381E 02
6.70	9.34311E-01	5.98601E 00	3.51764E-02	3.01733E-04	-1.46685E-02	6.94575E 00	3.37247E 02
6.80	9.34325E-01	6.08303E 00	3.68792E-02	2.78334E-04	-1.61855E-02	7.04310E 00	3.40076E 02
6.90	9.34339E-01	6.18005E 00	3.86185E-02	2.55604E-04	-1.77392E-02	7.14045E 00	3.42868E 02
7.00	9.34352E-01	6.27708E 00	4.03943E-02	2.33525E-04	-1.93295E-02	7.23779E 00	3.45624E 02
7.10	9.34364E-01	6.37411E 00	4.22067E-02	2.12065E-04	-2.09564E-02	7.33512E 00	3.48345E 02
7.20	9.34376E-01	6.47116E 00	4.40556E-02	1.91195E-04	-2.26200E-02	7.43245E 00	3.51032E 02
7.30	9.34386E-01	6.56819E 00	4.59411E-02	1.70894E-04	-2.43203E-02	7.52977E 00	3.53684E 02
7.40	9.34397E-01	6.66524E 00	4.78630E-02	1.51145E-04	-2.60571E-02	7.62709E 00	3.56304E 02
7.50	9.34407E-01	6.76230E 00	4.98216E-02	1.31917E-04	-2.78307E-02	7.72441E 00	3.58891E 02
7.60	9.34416E-01	6.85935E 00	5.18167E-02	1.13195E-04	-2.96408E-02	7.82171E 00	3.61446E 02
7.70	9.34424E-01	6.95641E 00	5.38483E-02	9.49579E-05	-3.14876E-02	7.91902E 00	3.63970E 02
7.80	9.34433E-01	7.05347E 00	5.59164E-02	7.71865E-05	-3.33710E-02	8.01632E 00	3.66463E 02
7.90	9.34441E-01	7.15053E 00	5.80211E-02	5.98662E-05	-3.52911E-02	8.11362E 00	3.68927E 02
8.00	9.34448E-01	7.24760E 00	6.01624E-02	4.29732E-05	-3.72478E-02	8.21092E 00	3.71360E 02
8.10	9.34455E-01	7.34467E 00	6.23402E-02	2.65007E-05	-3.92412E-02	8.30821E 00	3.73764E 02
8.20	9.34461E-01	7.44175E 00	6.45546E-02	1.04300E-05	-4.12712E-02	8.40551E 00	3.76141E 02
8.30	9.34467E-01	7.53883E 00	6.68056E-02	-5.25215E-06	-4.33378E-02	8.50280E 00	3.78489E 02
8.40	9.34473E-01	7.63591E 00	6.90931E-02	-2.05627E-05	-4.54410E-02	8.60009E 00	3.80810E 02
8.50	9.34479E-01	7.73300E 00	7.14172E-02	-3.55101E-05	-4.75810E-02	8.69738E 00	3.83105E 02
8.60	9.34484E-01	7.83009E 00	7.37779E-02	-5.01104E-05	-4.97575E-02	8.79467E 00	3.85372E 02
8.70	9.34489E-01	7.92719E 00	7.61752E-02	-6.43751E-05	-5.19707E-02	8.89196E 00	3.87614E 02
8.80	9.34493E-01	8.02429E 00	7.86090E-02	-7.83133E-05	-5.42205E-02	8.98925E 00	3.89831E 02
8.90	9.34498E-01	8.12139E 00	8.10795E-02	-9.19424E-05	-5.65070E-02	9.08654E 00	3.92022E 02
9.00	9.34502E-01	8.21850E 00	8.35865E-02	-1.05261E-04	-5.88302E-02	9.18383E 00	3.94189E 02
9.10	9.34506E-01	8.31561E 00	8.61302E-02	-1.18286E-04	-6.11900E-02	9.28113E 00	3.96332E 02
9.20	9.34510E-01	8.41272E 00	8.87104E-02	-1.31030E-04	-6.35864E-02	9.37842E 00	3.98451E 02
9.30	9.34513E-01	8.50985E 00	9.13273E-02	-1.43498E-04	-6.60195E-02	9.47572E 00	4.00547E 02
9.40	9.34517E-01	8.60697E 00	9.39807E-02	-1.55699E-04	-6.84893E-02	9.57301E 00	4.02620E 02
9.50	9.34520E-01	8.70409E 00	9.66707E-02	-1.67640E-04	-7.09957E-02	9.67031E 00	4.04671E 02
9.60	9.34522E-01	8.80123E 00	9.93974E-02	-1.79330E-04	-7.35388E-02	9.76761E 00	4.06700E 02
9.70	9.34525E-01	8.89836E 00	1.02161E-01	-1.90779E-04	-7.61186E-02	9.86491E 00	4.08707E 02
9.80	9.34527E-01	8.99550E 00	1.04961E-01	-2.01989E-04	-7.87350E-02	9.96222E 00	4.10693E 02
9.90	9.34530E-01	9.09265E 00	1.07797E-01	-2.12976E-04	-8.13881E-02	1.00595E 01	4.12657E 02
10.00	9.34532E-01	9.18980E 00	1.10670E-01	-2.23739E-04	-8.40779E-02	1.01568E 01	4.14602E 02
10.10	9.34534E-01	9.28696E 00	1.13580E-01	-2.34286E-04	-8.68044E-02	1.02542E 01	4.16526E 02
10.20	9.34536E-01	9.38412E 00	1.16527E-01	-2.44627E-04	-8.95675E-02	1.03515E 01	4.18429E 02
10.30	9.34537E-01	9.48128E 00	1.19510E-01	-2.54761E-04	-9.23674E-02	1.04488E 01	4.20314E 02
10.40	9.34539E-01	9.57845E 00	1.22530E-01	-2.64697E-04	-9.52039E-02	1.05461E 01	4.22180E 02
10.50	9.34540E-01	9.67563E 00	1.25586E-01	-2.74445E-04	-9.80771E-02	1.06434E 01	4.24026E 02
10.60	9.34542E-01	9.77281E 00	1.28679E-01	-2.84005E-04	-1.00987E-01	1.07408E 01	4.25854E 02
10.70	9.34543E-01	9.86999E 00	1.31809E-01	-2.93384E-04	-1.03934E-01	1.08381E 01	4.27663E 02
10.80	9.34544E-01	9.96718E 00	1.34975E-01	-3.02589E-04	-1.06917E-01	1.09354E 01	4.29454E 02
10.90	9.34545E-01	1.00644E 01	1.38178E-01	-3.11620E-04	-1.09937E-01	1.10328E 01	4.31228E 02
11.00	9.34546E-01	1.01616E 01	1.41418E-01	-3.20484E-04	-1.12994E-01	1.11301E 01	4.32985E 02
11.10	9.34547E-01	1.02588E 01	1.44695E-01	-3.29186E-04	-1.16087E-01	1.12275E 01	4.34724E 02
11.20	9.34547E-01	1.03560E 01	1.48008E-01	-3.37735E-04	-1.19218E-01	1.13248E 01	4.36446E 02
11.30	9.34548E-01	1.04532E 01	1.51358E-01	-3.46122E-04	-1.22385E-01	1.14222E 01	4.38152E 02
11.40	9.34548E-01	1.05504E 01	1.54744E-01	-3.54364E-04	-1.25588E-01	1.15196E 01	4.39842E 02
11.50	9.34549E-01	1.06477E 01	1.58167E-01	-3.62458E-04	-1.28829E-01	1.16169E 01	4.41515E 02
11.60	9.34549E-01	1.07449E 01	1.61627E-01	-3.70408E-04	-1.32106E-01	1.17143E 01	4.43173E 02
11.70	9.34550E-01	1.08421E 01	1.65124E-01	-3.78223E-04	-1.35420E-01	1.18117E 01	4.44815E 02
11.80	9.34550E-01	1.09394E 01	1.68658E-01	-3.85897E-04	-1.38770E-01	1.19091E 01	4.46443E 02
11.90	9.34550E-01	1.10366E 01	1.72228E-01	-3.93445E-04	-1.42158E-01	1.20065E 01	4.48054E 02
12.00	9.34550E-01	1.11339E 01	1.75835E-01	-4.00862E-04	-1.45582E-01	1.21039E 01	4.49651E 02

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=3$			$A=6$			$\rho=1.2A^{1/3}F$			Positron
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$				
6.10	3.07683E-05	6.20204E-02	1.92670E-04	-6.24427E 01	-6.18553E-05	7.29570E-02	1.42189E-02				
6.20	3.17862E-05	6.41666E-02	2.06490E-04	-6.25236E 01	-7.22234E-05	7.52872E-02	1.42271E-02				
6.30	3.28206E-05	6.63491E-02	2.20913E-04	-6.26018E 01	-8.31534E-05	7.76537E-02	1.42352E-02				
6.40	3.38716E-05	6.85682E-02	2.35951E-04	-6.26774E 01	-9.46578E-05	8.00567E-02	1.42431E-02				
6.50	3.49391E-05	7.08237E-02	2.51617E-04	-6.27505E 01	-1.06749E-04	8.24960E-02	1.42508E-02				
6.60	3.60232E-05	7.31157E-02	2.67922E-04	-6.28212E 01	-1.19439E-04	8.49717E-02	1.42584E-02				
6.70	3.71238E-05	7.54442E-02	2.84880E-04	-6.28897E 01	-1.32740E-04	8.74838E-02	1.42658E-02				
6.80	3.82410E-05	7.78091E-02	3.02503E-04	-6.29561E 01	-1.46665E-04	9.00323E-02	1.42731E-02				
6.90	3.93747E-05	8.02104E-02	3.20803E-04	-6.30204E 01	-1.61226E-04	9.26171E-02	1.42802E-02				
7.00	4.05249E-05	8.26483E-02	3.39792E-04	-6.30827E 01	-1.76435E-04	9.52383E-02	1.42872E-02				
7.10	4.16917E-05	8.51225E-02	3.59483E-04	-6.31432E 01	-1.92305E-04	9.78959E-02	1.42941E-02				
7.20	4.28751E-05	8.76332E-02	3.79887E-04	-6.32018E 01	-2.08848E-04	1.00590E-01	1.43008E-02				
7.30	4.40750E-05	9.01803E-02	4.01018E-04	-6.32588E 01	-2.26076E-04	1.03320E-01	1.43074E-02				
7.40	4.52914E-05	9.27639E-02	4.22888E-04	-6.33141E 01	-2.44002E-04	1.06087E-01	1.43138E-02				
7.50	4.65244E-05	9.53839E-02	4.45509E-04	-6.33679E 01	-2.62638E-04	1.08890E-01	1.43202E-02				
7.60	4.77740E-05	9.80403E-02	4.68893E-04	-6.34201E 01	-2.81996E-04	1.11729E-01	1.43264E-02				
7.70	4.90400E-05	1.00733E-01	4.93053E-04	-6.34709E 01	-3.02088E-04	1.14605E-01	1.43325E-02				
7.80	5.03227E-05	1.03462E-01	5.18000E-04	-6.35203E 01	-3.22928E-04	1.17518E-01	1.43384E-02				
7.90	5.16218E-05	1.06228E-01	5.43748E-04	-6.35684E 01	-3.44526E-04	1.20466E-01	1.43443E-02				
8.00	5.29376E-05	1.09030E-01	5.70309E-04	-6.36152E 01	-3.66896E-04	1.23451E-01	1.43500E-02				
8.10	5.42698E-05	1.11869E-01	5.97695E-04	-6.36608E 01	-3.90050E-04	1.26472E-01	1.43557E-02				
8.20	5.56186E-05	1.14744E-01	6.25918E-04	-6.37051E 01	-4.14001E-04	1.29530E-01	1.43612E-02				
8.30	5.69840E-05	1.17655E-01	6.54990E-04	-6.37484E 01	-4.38760E-04	1.32624E-01	1.43667E-02				
8.40	5.83659E-05	1.20603E-01	6.84925E-04	-6.37905E 01	-4.64339E-04	1.35755E-01	1.43720E-02				
8.50	5.97643E-05	1.23587E-01	7.15734E-04	-6.38316E 01	-4.90752E-04	1.38922E-01	1.43772E-02				
8.60	6.11793E-05	1.26607E-01	7.47429E-04	-6.38717E 01	-5.18011E-04	1.42125E-01	1.43824E-02				
8.70	6.26108E-05	1.29664E-01	7.80024E-04	-6.39108E 01	-5.46127E-04	1.45364E-01	1.43875E-02				
8.80	6.40589E-05	1.32758E-01	8.13530E-04	-6.39490E 01	-5.75114E-04	1.48640E-01	1.43924E-02				
8.90	6.55235E-05	1.35888E-01	8.47959E-04	-6.39862E 01	-6.04983E-04	1.51953E-01	1.43973E-02				
9.00	6.70048E-05	1.39054E-01	8.83325E-04	-6.40226E 01	-6.35747E-04	1.55301E-01	1.44021E-02				
9.10	6.85025E-05	1.42256E-01	9.19639E-04	-6.40581E 01	-6.67418E-04	1.58686E-01	1.44068E-02				
9.20	7.00167E-05	1.45495E-01	9.56913E-04	-6.40928E 01	-7.00009E-04	1.62108E-01	1.44114E-02				
9.30	7.15475E-05	1.48771E-01	9.95160E-04	-6.41267E 01	-7.33531E-04	1.65566E-01	1.44160E-02				
9.40	7.30949E-05	1.52082E-01	1.03439E-03	-6.41599E 01	-7.67998E-04	1.69060E-01	1.44204E-02				
9.50	7.46588E-05	1.55431E-01	1.07462E-03	-6.41923E 01	-8.03421E-04	1.72591E-01	1.44248E-02				
9.60	7.62393E-05	1.58815E-01	1.11586E-03	-6.42240E 01	-8.39812E-04	1.76157E-01	1.44292E-02				
9.70	7.78362E-05	1.62236E-01	1.15812E-03	-6.42550E 01	-8.77185E-04	1.79761E-01	1.44334E-02				
9.80	7.94498E-05	1.65693E-01	1.20142E-03	-6.42853E 01	-9.15552E-04	1.83400E-01	1.44376E-02				
9.90	8.10799E-05	1.69187E-01	1.24577E-03	-6.43149E 01	-9.54924E-04	1.87076E-01	1.44417E-02				
10.00	8.27265E-05	1.72717E-01	1.29117E-03	-6.43440E 01	-9.95314E-04	1.90789E-01	1.44457E-02				
10.10	8.43897E-05	1.76284E-01	1.33764E-03	-6.43724E 01	-1.03673E-03	1.94538E-01	1.44497E-02				
10.20	8.60694E-05	1.79887E-01	1.38520E-03	-6.44003E 01	-1.07920E-03	1.98323E-01	1.44536E-02				
10.30	8.77657E-05	1.83526E-01	1.43386E-03	-6.44275E 01	-1.12272E-03	2.02144E-01	1.44575E-02				
10.40	8.94785E-05	1.87202E-01	1.48362E-03	-6.44543E 01	-1.16730E-03	2.06002E-01	1.44612E-02				
10.50	9.12078E-05	1.90914E-01	1.53450E-03	-6.44804E 01	-1.21297E-03	2.09896E-01	1.44650E-02				
10.60	9.29537E-05	1.94662E-01	1.58652E-03	-6.45061E 01	-1.25973E-03	2.13827E-01	1.44687E-02				
10.70	9.47162E-05	1.98447E-01	1.63968E-03	-6.45313E 01	-1.30759E-03	2.17794E-01	1.44723E-02				
10.80	9.64952E-05	2.02268E-01	1.69401E-03	-6.45559E 01	-1.35657E-03	2.21797E-01	1.44758E-02				
10.90	9.82907E-05	2.06126E-01	1.74950E-03	-6.45801E 01	-1.40667E-03	2.25837E-01	1.44793E-02				
11.00	1.00103E-04	2.10020E-01	1.80617E-03	-6.46038E 01	-1.45792E-03	2.29913E-01	1.44828E-02				
11.10	1.01931E-04	2.13950E-01	1.86404E-03	-6.46271E 01	-1.51032E-03	2.34025E-01	1.44862E-02				
11.20	1.03777E-04	2.17917E-01	1.92311E-03	-6.46499E 01	-1.56389E-03	2.38174E-01	1.44895E-02				
11.30	1.05638E-04	2.21920E-01	1.98341E-03	-6.46723E 01	-1.61864E-03	2.42359E-01	1.44928E-02				
11.40	1.07517E-04	2.25959E-01	2.04493E-03	-6.46943E 01	-1.67458E-03	2.46581E-01	1.44960E-02				
11.50	1.09411E-04	2.30035E-01	2.10770E-03	-6.47158E 01	-1.73172E-03	2.50839E-01	1.44992E-02				
11.60	1.11323E-04	2.34147E-01	2.17173E-03	-6.47370E 01	-1.79007E-03	2.55133E-01	1.45024E-02				
11.70	1.13251E-04	2.38296E-01	2.23703E-03	-6.47578E 01	-1.84966E-03	2.59463E-01	1.45055E-02				
11.80	1.15195E-04	2.42481E-01	2.30360E-03	-6.47783E 01	-1.91048E-03	2.63830E-01	1.45086E-02				
11.90	1.17156E-04	2.46702E-01	2.37147E-03	-6.47983E 01	-1.97255E-03	2.68233E-01	1.45116E-02				
12.00	1.19133E-04	2.50960E-01	2.44065E-03	-6.48181E 01	-2.03589E-03	2.72673E-01	1.45146E-02				



ELECTRON RADIAL FUNCTIONS

Positron	$Z=3$	$A=6$	$\rho = 1.2 A^{1/3} F$				
$\rho$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
12.10	9.34550E-01	1.12312E 01	1.79478E-01	-4.08151E-04	-1.49043E-01	1.22013E 01	4.51234E 02
12.20	9.34550E-01	1.13284E 01	1.83159E-01	-4.15323E-04	-1.52541E-01	1.22987E 01	4.52801E 02
12.30	9.34550E-01	1.14257E 01	1.86876E-01	-4.22370E-04	-1.56075E-01	1.23961E 01	4.54356E 02
12.40	9.34549E-01	1.15230E 01	1.90630E-01	-4.29305E-04	-1.59647E-01	1.24935E 01	4.55895E 02
12.50	9.34549E-01	1.16203E 01	1.94420E-01	-4.36124E-04	-1.63255E-01	1.25909E 01	4.57421E 02
12.60	9.34549E-01	1.17176E 01	1.98248E-01	-4.42831E-04	-1.66900E-01	1.26884E 01	4.58934E 02
12.70	9.34549E-01	1.18149E 01	2.02112E-01	-4.49430E-04	-1.70581E-01	1.27858E 01	4.60433E 02
12.80	9.34548E-01	1.19122E 01	2.06013E-01	-4.55922E-04	-1.74300E-01	1.28832E 01	4.61919E 02
12.90	9.34548E-01	1.20095E 01	2.09950E-01	-4.62309E-04	-1.78055E-01	1.29807E 01	4.63393E 02
13.00	9.34547E-01	1.21068E 01	2.13925E-01	-4.68598E-04	-1.81847E-01	1.30781E 01	4.64853E 02
13.10	9.34547E-01	1.22041E 01	2.17936E-01	-4.74785E-04	-1.85676E-01	1.31756E 01	4.66301E 02
13.20	9.34546E-01	1.23015E 01	2.21984E-01	-4.80874E-04	-1.89542E-01	1.32731E 01	4.67737E 02
13.30	9.34546E-01	1.23988E 01	2.26069E-01	-4.86870E-04	-1.93444E-01	1.33705E 01	4.69161E 02
13.40	9.34545E-01	1.24962E 01	2.30191E-01	-4.92774E-04	-1.97384E-01	1.34680E 01	4.70572E 02
13.50	9.34545E-01	1.25935E 01	2.34349E-01	-4.98589E-04	-2.01360E-01	1.35655E 01	4.71971E 02
13.60	9.34544E-01	1.26909E 01	2.38544E-01	-5.04311E-04	-2.05373E-01	1.36630E 01	4.73360E 02
13.70	9.34543E-01	1.27883E 01	2.42777E-01	-5.09950E-04	-2.09423E-01	1.37605E 01	4.74736E 02
13.80	9.34542E-01	1.28856E 01	2.47046E-01	-5.15502E-04	-2.13510E-01	1.38580E 01	4.76101E 02
13.90	9.34542E-01	1.29830E 01	2.51351E-01	-5.20968E-04	-2.17633E-01	1.39555E 01	4.77456E 02
14.00	9.34541E-01	1.30804E 01	2.55694E-01	-5.26356E-04	-2.21794E-01	1.40531E 01	4.78799E 02
14.10	9.34540E-01	1.31778E 01	2.60073E-01	-5.31662E-04	-2.25992E-01	1.41506E 01	4.80132E 02
14.20	9.34539E-01	1.32752E 01	2.64490E-01	-5.36890E-04	-2.30226E-01	1.42481E 01	4.81454E 02
14.30	9.34538E-01	1.33726E 01	2.68943E-01	-5.42045E-04	-2.34497E-01	1.43457E 01	4.82764E 02
14.40	9.34537E-01	1.34700E 01	2.73433E-01	-5.47122E-04	-2.38805E-01	1.44432E 01	4.84066E 02
14.50	9.34537E-01	1.35675E 01	2.77960E-01	-5.52124E-04	-2.43150E-01	1.45408E 01	4.85357E 02
14.60	9.34536E-01	1.36649E 01	2.82524E-01	-5.57059E-04	-2.47532E-01	1.46384E 01	4.86637E 02
14.70	9.34535E-01	1.37623E 01	2.87125E-01	-5.61921E-04	-2.51951E-01	1.47359E 01	4.87907E 02
14.80	9.34534E-01	1.38598E 01	2.91763E-01	-5.66715E-04	-2.56407E-01	1.48335E 01	4.89168E 02
14.90	9.34532E-01	1.39572E 01	2.96437E-01	-5.71438E-04	-2.60900E-01	1.49311E 01	4.90420E 02
15.00	9.34532E-01	1.40547E 01	3.01149E-01	-5.76098E-04	-2.65429E-01	1.50287E 01	4.91661E 02
15.10	9.34530E-01	1.41522E 01	3.05897E-01	-5.80686E-04	-2.69996E-01	1.51263E 01	4.92894E 02
15.20	9.34529E-01	1.42497E 01	3.10682E-01	-5.85218E-04	-2.74599E-01	1.52239E 01	4.94117E 02
15.30	9.34528E-01	1.43472E 01	3.15505E-01	-5.89686E-04	-2.79240E-01	1.53216E 01	4.95330E 02
15.40	9.34527E-01	1.44446E 01	3.20364E-01	-5.94090E-04	-2.83917E-01	1.54192E 01	4.96536E 02
15.50	9.34526E-01	1.45422E 01	3.25260E-01	-5.98435E-04	-2.88632E-01	1.55168E 01	4.97732E 02
15.60	9.34525E-01	1.46397E 01	3.30193E-01	-6.02721E-04	-2.93383E-01	1.56145E 01	4.98919E 02
15.70	9.34524E-01	1.47372E 01	3.35163E-01	-6.06945E-04	-2.98172E-01	1.57122E 01	5.00099E 02
15.80	9.34523E-01	1.48347E 01	3.40170E-01	-6.11116E-04	-3.02997E-01	1.58098E 01	5.01269E 02
15.90	9.34521E-01	1.49323E 01	3.45214E-01	-6.15233E-04	-3.07859E-01	1.59075E 01	5.02430E 02
16.00	9.34520E-01	1.50298E 01	3.50295E-01	-6.19289E-04	-3.12759E-01	1.60052E 01	5.03584E 02
16.10	9.34519E-01	1.51274E 01	3.55413E-01	-6.23296E-04	-3.17695E-01	1.61029E 01	5.04729E 02
16.20	9.34518E-01	1.52249E 01	3.60568E-01	-6.27250E-04	-3.22669E-01	1.62006E 01	5.05866E 02
16.30	9.34517E-01	1.53225E 01	3.65760E-01	-6.31150E-04	-3.27679E-01	1.62983E 01	5.06995E 02
16.40	9.34515E-01	1.54201E 01	3.70989E-01	-6.34998E-04	-3.32727E-01	1.63960E 01	5.08117E 02
16.50	9.34514E-01	1.55177E 01	3.76255E-01	-6.38794E-04	-3.37811E-01	1.64937E 01	5.09231E 02
16.60	9.34513E-01	1.56153E 01	3.81558E-01	-6.42547E-04	-3.42933E-01	1.65915E 01	5.10337E 02
16.70	9.34512E-01	1.57129E 01	3.86898E-01	-6.46246E-04	-3.48092E-01	1.66892E 01	5.11436E 02
16.80	9.34510E-01	1.58105E 01	3.92275E-01	-6.49897E-04	-3.53287E-01	1.67870E 01	5.12528E 02
16.90	9.34509E-01	1.59081E 01	3.97689E-01	-6.53505E-04	-3.58520E-01	1.68847E 01	5.13611E 02
17.00	9.34508E-01	1.60057E 01	4.03140E-01	-6.57065E-04	-3.63790E-01	1.69825E 01	5.14688E 02
17.10	9.34506E-01	1.61034E 01	4.08629E-01	-6.60582E-04	-3.69097E-01	1.70803E 01	5.15757E 02
17.20	9.34505E-01	1.62010E 01	4.14154E-01	-6.64053E-04	-3.74441E-01	1.71781E 01	5.16819E 02
17.30	9.34504E-01	1.62987E 01	4.19716E-01	-6.67476E-04	-3.79822E-01	1.72759E 01	5.17875E 02
17.40	9.34502E-01	1.63963E 01	4.25316E-01	-6.70863E-04	-3.85241E-01	1.73737E 01	5.18923E 02
17.50	9.34501E-01	1.64940E 01	4.30952E-01	-6.74204E-04	-3.90696E-01	1.74715E 01	5.19965E 02
17.60	9.34500E-01	1.65917E 01	4.36626E-01	-6.77505E-04	-3.96189E-01	1.75693E 01	5.21000E 02
17.70	9.34498E-01	1.66894E 01	4.42337E-01	-6.80763E-04	-4.01718E-01	1.76672E 01	5.22028E 02
17.80	9.34497E-01	1.67871E 01	4.48085E-01	-6.83983E-04	-4.07285E-01	1.77650E 01	5.23050E 02
17.90	9.34496E-01	1.68848E 01	4.53870E-01	-6.87160E-04	-4.12889E-01	1.78629E 01	5.24066E 02
18.00	9.34494E-01	1.69825E 01	4.59692E-01	-6.90302E-04	-4.18530E-01	1.79607E 01	5.25075E 02

## ELECTRON RADIAL FUNCTIONS

	$Z=3$	$A=6$	$\rho=1.2A^{1/3}F$			Positron	
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	1.21128E-04	2.55254E-01	2.51115E-03	-6.48374E 01	-2.10051E-03	2.77149E-01	1.45175E-02
12.20	1.23138E-04	2.59584E-01	2.58297E-03	-6.48565E 01	-2.16642E-03	2.81661E-01	1.45204E-02
12.30	1.25165E-04	2.63951E-01	2.65614E-03	-6.48752E 01	-2.23363E-03	2.86210E-01	1.45232E-02
12.40	1.27209E-04	2.68354E-01	2.73066E-03	-6.48936E 01	-2.30215E-03	2.90795E-01	1.45260E-02
12.50	1.29269E-04	2.72793E-01	2.80655E-03	-6.49117E 01	-2.37199E-03	2.95416E-01	1.45288E-02
12.60	1.31346E-04	2.77269E-01	2.88382E-03	-6.49294E 01	-2.44318E-03	3.00074E-01	1.45315E-02
12.70	1.33440E-04	2.81782E-01	2.96248E-03	-6.49469E 01	-2.51572E-03	3.04768E-01	1.45342E-02
12.80	1.35549E-04	2.86330E-01	3.04254E-03	-6.49641E 01	-2.58961E-03	3.09498E-01	1.45369E-02
12.90	1.37676E-04	2.90915E-01	3.12402E-03	-6.49810E 01	-2.66489E-03	3.14265E-01	1.45395E-02
13.00	1.39819E-04	2.95536E-01	3.20693E-03	-6.49977E 01	-2.74155E-03	3.19068E-01	1.45421E-02
13.10	1.41978E-04	3.00194E-01	3.29129E-03	-6.50141E 01	-2.81961E-03	3.23908E-01	1.45447E-02
13.20	1.44154E-04	3.04888E-01	3.37709E-03	-6.50302E 01	-2.89909E-03	3.28783E-01	1.45472E-02
13.30	1.46347E-04	3.09618E-01	3.46436E-03	-6.50460E 01	-2.97999E-03	3.33695E-01	1.45497E-02
13.40	1.48556E-04	3.14384E-01	3.55311E-03	-6.50617E 01	-3.06232E-03	3.38644E-01	1.45521E-02
13.50	1.50782E-04	3.19188E-01	3.64335E-03	-6.50770E 01	-3.14611E-03	3.43628E-01	1.45545E-02
13.60	1.53024E-04	3.24027E-01	3.73509E-03	-6.50922E 01	-3.23135E-03	3.48649E-01	1.45569E-02
13.70	1.55283E-04	3.28902E-01	3.82835E-03	-6.51071E 01	-3.31808E-03	3.53707E-01	1.45593E-02
13.80	1.57558E-04	3.33814E-01	3.92313E-03	-6.51217E 01	-3.40628E-03	3.58801E-01	1.45616E-02
13.90	1.59850E-04	3.38763E-01	4.01946E-03	-6.51362E 01	-3.49599E-03	3.63931E-01	1.45639E-02
14.00	1.62158E-04	3.43747E-01	4.11733E-03	-6.51504E 01	-3.58720E-03	3.69097E-01	1.45662E-02
14.10	1.64483E-04	3.48769E-01	4.21677E-03	-6.51645E 01	-3.67994E-03	3.74300E-01	1.45684E-02
14.20	1.66825E-04	3.53826E-01	4.31779E-03	-6.51783E 01	-3.77422E-03	3.79539E-01	1.45706E-02
14.30	1.69183E-04	3.58920E-01	4.42039E-03	-6.51919E 01	-3.87004E-03	3.84814E-01	1.45728E-02
14.40	1.71557E-04	3.64050E-01	4.52460E-03	-6.52053E 01	-3.96742E-03	3.90126E-01	1.45750E-02
14.50	1.73949E-04	3.69216E-01	4.63042E-03	-6.52185E 01	-4.06638E-03	3.95474E-01	1.45771E-02
14.60	1.76356E-04	3.74419E-01	4.73787E-03	-6.52316E 01	-4.16691E-03	4.00858E-01	1.45792E-02
14.70	1.78780E-04	3.79658E-01	4.84695E-03	-6.52444E 01	-4.26905E-03	4.06279E-01	1.45813E-02
14.80	1.81221E-04	3.84933E-01	4.95768E-03	-6.52571E 01	-4.37280E-03	4.11736E-01	1.45834E-02
14.90	1.83679E-04	3.90245E-01	5.07008E-03	-6.52696E 01	-4.47816E-03	4.17229E-01	1.45854E-02
15.00	1.86152E-04	3.95593E-01	5.18415E-03	-6.52819E 01	-4.58516E-03	4.22758E-01	1.45874E-02
15.10	1.88643E-04	4.00977E-01	5.29991E-03	-6.52940E 01	-4.69381E-03	4.28324E-01	1.45894E-02
15.20	1.91150E-04	4.06397E-01	5.41737E-03	-6.53060E 01	-4.80412E-03	4.33926E-01	1.45914E-02
15.30	1.93673E-04	4.11854E-01	5.53654E-03	-6.53178E 01	-4.91609E-03	4.39565E-01	1.45933E-02
15.40	1.96213E-04	4.17348E-01	5.65744E-03	-6.53295E 01	-5.02975E-03	4.45240E-01	1.45952E-02
15.50	1.98770E-04	4.22877E-01	5.78007E-03	-6.53409E 01	-5.14510E-03	4.50951E-01	1.45971E-02
15.60	2.01343E-04	4.28443E-01	5.90445E-03	-6.53523E 01	-5.26217E-03	4.56698E-01	1.45990E-02
15.70	2.03932E-04	4.34045E-01	6.03059E-03	-6.53635E 01	-5.38095E-03	4.62482E-01	1.46009E-02
15.80	2.06539E-04	4.39684E-01	6.15851E-03	-6.53745E 01	-5.50146E-03	4.68302E-01	1.46027E-02
15.90	2.09161E-04	4.45359E-01	6.28821E-03	-6.53854E 01	-5.62372E-03	4.74158E-01	1.46045E-02
16.00	2.11801E-04	4.51070E-01	6.41971E-03	-6.53962E 01	-5.74774E-03	4.80051E-01	1.46063E-02
16.10	2.14456E-04	4.56817E-01	6.55302E-03	-6.54068E 01	-5.87352E-03	4.85980E-01	1.46080E-02
16.20	2.17129E-04	4.62601E-01	6.68815E-03	-6.54172E 01	-6.00109E-03	4.91945E-01	1.46098E-02
16.30	2.19818E-04	4.68421E-01	6.82512E-03	-6.54276E 01	-6.13045E-03	4.97947E-01	1.46115E-02
16.40	2.22523E-04	4.74277E-01	6.96393E-03	-6.54378E 01	-6.26162E-03	5.03984E-01	1.46132E-02
16.50	2.25245E-04	4.80170E-01	7.10461E-03	-6.54479E 01	-6.39460E-03	5.10058E-01	1.46149E-02
16.60	2.27984E-04	4.86099E-01	7.24715E-03	-6.54578E 01	-6.52942E-03	5.16169E-01	1.46166E-02
16.70	2.30739E-04	4.92064E-01	7.39158E-03	-6.54677E 01	-6.66607E-03	5.22316E-01	1.46183E-02
16.80	2.33510E-04	4.98066E-01	7.53791E-03	-6.54774E 01	-6.80459E-03	5.28498E-01	1.46199E-02
16.90	2.36299E-04	5.04104E-01	7.68614E-03	-6.54870E 01	-6.94497E-03	5.34718E-01	1.46215E-02
17.00	2.39103E-04	5.10178E-01	7.83630E-03	-6.54964E 01	-7.08723E-03	5.40973E-01	1.46231E-02
17.10	2.41925E-04	5.16288E-01	7.98839E-03	-6.55058E 01	-7.23138E-03	5.47265E-01	1.46247E-02
17.20	2.44762E-04	5.22435E-01	8.14242E-03	-6.55150E 01	-7.37744E-03	5.53593E-01	1.46263E-02
17.30	2.47617E-04	5.28618E-01	8.29841E-03	-6.55241E 01	-7.52541E-03	5.59957E-01	1.46278E-02
17.40	2.50488E-04	5.34837E-01	8.45638E-03	-6.55332E 01	-7.67532E-03	5.66358E-01	1.46294E-02
17.50	2.53375E-04	5.41093E-01	8.61632E-03	-6.55421E 01	-7.82716E-03	5.72795E-01	1.46309E-02
17.60	2.56279E-04	5.47384E-01	8.77826E-03	-6.55509E 01	-7.98096E-03	5.79268E-01	1.46324E-02
17.70	2.59199E-04	5.53713E-01	8.94221E-03	-6.55596E 01	-8.13672E-03	5.85777E-01	1.46339E-02
17.80	2.62136E-04	5.60077E-01	9.10817E-03	-6.55682E 01	-8.29446E-03	5.92323E-01	1.46354E-02
17.90	2.65090E-04	5.66478E-01	9.27617E-03	-6.55767E 01	-8.45419E-03	5.98905E-01	1.46368E-02
18.00	2.68060E-04	5.72914E-01	9.44621E-03	-6.55851E 01	-8.61593E-03	6.05523E-01	1.46383E-02



ELECTRON RADIAL FUNCTIONS

Positron	$Z = 3$		$A = 6$		$\rho = 1.2 A^{1/3} F$		
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
18.10	9.34493E-01	1.70803E 01	4.65551E-01	-6.93404E-04	-4.24209E-01	1.80586E 01	5.26078E 02
18.20	9.34492E-01	1.71780E 01	4.71448E-01	-6.96465E-04	-4.29924E-01	1.81565E 01	5.27075E 02
18.30	9.34490E-01	1.72758E 01	4.77382E-01	-6.99492E-04	-4.35677E-01	1.82544E 01	5.28066E 02
18.40	9.34489E-01	1.73735E 01	4.83352E-01	-7.02485E-04	-4.41467E-01	1.83523E 01	5.29050E 02
18.50	9.34487E-01	1.74713E 01	4.89360E-01	-7.05436E-04	-4.47294E-01	1.84502E 01	5.30029E 02
18.60	9.34486E-01	1.75691E 01	4.95405E-01	-7.08356E-04	-4.53158E-01	1.85482E 01	5.31002E 02
18.70	9.34485E-01	1.76669E 01	5.01488E-01	-7.11240E-04	-4.59060E-01	1.86461E 01	5.31969E 02
18.80	9.34483E-01	1.77647E 01	5.07607E-01	-7.14088E-04	-4.64998E-01	1.87440E 01	5.32930E 02
18.90	9.34482E-01	1.78625E 01	5.13764E-01	-7.16904E-04	-4.70974E-01	1.88420E 01	5.33886E 02
19.00	9.34481E-01	1.79603E 01	5.19958E-01	-7.19687E-04	-4.76988E-01	1.89400E 01	5.34836E 02
19.10	9.34479E-01	1.80581E 01	5.26189E-01	-7.22435E-04	-4.83038E-01	1.90379E 01	5.35780E 02
19.20	9.34478E-01	1.81560E 01	5.32457E-01	-7.25151E-04	-4.89126E-01	1.91359E 01	5.36720E 02
19.30	9.34476E-01	1.82538E 01	5.38763E-01	-7.27840E-04	-4.95251E-01	1.92339E 01	5.37653E 02
19.40	9.34475E-01	1.83517E 01	5.45106E-01	-7.30493E-04	-5.01413E-01	1.93319E 01	5.38581E 02
19.50	9.34473E-01	1.84495E 01	5.51486E-01	-7.33114E-04	-5.07613E-01	1.94300E 01	5.39505E 02
19.60	9.34472E-01	1.85474E 01	5.57903E-01	-7.35705E-04	-5.13849E-01	1.95280E 01	5.40423E 02
19.70	9.34471E-01	1.86453E 01	5.64358E-01	-7.38269E-04	-5.20124E-01	1.96260E 01	5.41336E 02
19.80	9.34469E-01	1.87432E 01	5.70850E-01	-7.40802E-04	-5.26435E-01	1.97241E 01	5.42243E 02
19.90	9.34468E-01	1.88411E 01	5.77379E-01	-7.43308E-04	-5.32784E-01	1.98222E 01	5.43145E 02
20.00	9.34466E-01	1.89390E 01	5.83946E-01	-7.45780E-04	-5.39170E-01	1.99202E 01	5.44044E 02
20.10	9.34465E-01	1.90370E 01	5.90550E-01	-7.48226E-04	-5.45594E-01	2.00183E 01	5.44937E 02
20.20	9.34463E-01	1.91349E 01	5.97191E-01	-7.50646E-04	-5.52054E-01	2.01164E 01	5.45825E 02
20.30	9.34462E-01	1.92329E 01	6.03869E-01	-7.53036E-04	-5.58553E-01	2.02145E 01	5.46709E 02
20.40	9.34461E-01	1.93308E 01	6.10585E-01	-7.55402E-04	-5.65088E-01	2.03126E 01	5.47587E 02
20.50	9.34459E-01	1.94288E 01	6.17339E-01	-7.57737E-04	-5.71661E-01	2.04108E 01	5.48462E 02
20.60	9.34458E-01	1.95268E 01	6.24129E-01	-7.60046E-04	-5.78271E-01	2.05089E 01	5.49332E 02
20.70	9.34456E-01	1.96248E 01	6.30957E-01	-7.62327E-04	-5.84919E-01	2.06071E 01	5.50198E 02
20.80	9.34455E-01	1.97228E 01	6.37822E-01	-7.64588E-04	-5.91604E-01	2.07052E 01	5.51058E 02
20.90	9.34454E-01	1.98208E 01	6.44725E-01	-7.66822E-04	-5.98327E-01	2.08034E 01	5.51914E 02
21.00	9.34452E-01	1.99188E 01	6.51665E-01	-7.69029E-04	-6.05087E-01	2.09016E 01	5.52767E 02
21.10	9.34451E-01	2.00169E 01	6.58643E-01	-7.71212E-04	-6.11884E-01	2.09998E 01	5.53615E 02
21.20	9.34449E-01	2.01149E 01	6.65657E-01	-7.73372E-04	-6.18719E-01	2.10980E 01	5.54458E 02
21.30	9.34448E-01	2.02130E 01	6.72710E-01	-7.75509E-04	-6.25509E-01	2.11962E 01	5.55296E 02
21.40	9.34446E-01	2.03110E 01	6.79799E-01	-7.77619E-04	-6.32501E-01	2.12945E 01	5.56132E 02
21.50	9.34445E-01	2.04091E 01	6.86927E-01	-7.79707E-04	-6.39449E-01	2.13927E 01	5.56963E 02
21.60	9.34444E-01	2.05072E 01	6.94091E-01	-7.81774E-04	-6.46433E-01	2.14910E 01	5.57789E 02
21.70	9.34442E-01	2.06053E 01	7.01294E-01	-7.83813E-04	-6.53456E-01	2.15892E 01	5.58613E 02
21.80	9.34441E-01	2.07034E 01	7.08533E-01	-7.85833E-04	-6.60515E-01	2.16875E 01	5.59432E 02
21.90	9.34439E-01	2.08016E 01	7.15810E-01	-7.87833E-04	-6.67613E-01	2.17858E 01	5.60247E 02
22.00	9.34438E-01	2.08997E 01	7.23125E-01	-7.89807E-04	-6.74747E-01	2.18841E 01	5.61059E 02
22.10	9.34436E-01	2.09978E 01	7.30477E-01	-7.91762E-04	-6.81920E-01	2.19824E 01	5.61866E 02
22.20	9.34435E-01	2.10960E 01	7.37866E-01	-7.93692E-04	-6.89130E-01	2.20807E 01	5.62670E 02
22.30	9.34434E-01	2.11942E 01	7.45294E-01	-7.95607E-04	-6.96377E-01	2.21791E 01	5.63469E 02
22.40	9.34432E-01	2.12924E 01	7.52758E-01	-7.97494E-04	-7.03662E-01	2.22774E 01	5.64267E 02
22.50	9.34431E-01	2.13906E 01	7.60260E-01	-7.99366E-04	-7.10984E-01	2.23758E 01	5.65059E 02
22.60	9.34429E-01	2.14888E 01	7.67800E-01	-8.01213E-04	-7.18345E-01	2.24742E 01	5.65849E 02
22.70	9.34428E-01	2.15870E 01	7.75377E-01	-8.03043E-04	-7.25742E-01	2.25726E 01	5.66635E 02
22.80	9.34427E-01	2.16852E 01	7.82992E-01	-8.04851E-04	-7.33178E-01	2.26710E 01	5.67418E 02
22.90	9.34425E-01	2.17835E 01	7.90645E-01	-8.06642E-04	-7.40651E-01	2.27694E 01	5.68196E 02
23.00	9.34424E-01	2.18817E 01	7.98335E-01	-8.08415E-04	-7.48161E-01	2.28678E 01	5.68971E 02
23.10	9.34422E-01	2.19800E 01	8.06062E-01	-8.10164E-04	-7.55710E-01	2.29662E 01	5.69744E 02
23.20	9.34421E-01	2.20783E 01	8.13828E-01	-8.11900E-04	-7.63295E-01	2.30647E 01	5.70512E 02
23.30	9.34420E-01	2.21766E 01	8.21630E-01	-8.13612E-04	-7.70919E-01	2.31632E 01	5.71278E 02
23.40	9.34418E-01	2.22749E 01	8.29471E-01	-8.15309E-04	-7.78580E-01	2.32616E 01	5.72039E 02
23.50	9.34417E-01	2.23732E 01	8.37349E-01	-8.16986E-04	-7.86279E-01	2.33601E 01	5.72799E 02
23.60	9.34415E-01	2.24715E 01	8.45265E-01	-8.18647E-04	-7.94016E-01	2.34586E 01	5.73554E 02
23.70	9.34414E-01	2.25698E 01	8.53218E-01	-8.20286E-04	-8.01790E-01	2.35571E 01	5.74308E 02
23.80	9.34413E-01	2.26682E 01	8.61209E-01	-8.21910E-04	-8.09602E-01	2.36557E 01	5.75057E 02
23.90	9.34411E-01	2.27665E 01	8.69238E-01	-8.23515E-04	-8.17452E-01	2.37542E 01	5.75804E 02
24.00	9.34410E-01	2.28649E 01	8.77305E-01	-8.25108E-04	-8.25339E-01	2.38528E 01	5.76547E 02

## ELECTRON RADIAL FUNCTIONS

	$Z=3$	$A=6$	$\rho=1.2 A^{1/3} F$				Positron
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	2.71047E-04	5.79388E-01	9.61832E-03	-6.55934E 01	-8.77969E-03	6.12178E-01	1.46397E-02
18.20	2.74050E-04	5.85898E-01	9.79249E-03	-6.56016E 01	-8.94546E-03	6.18869E-01	1.46411E-02
18.30	2.77070E-04	5.92443E-01	9.96874E-03	-6.56097E 01	-9.11328E-03	6.25596E-01	1.46425E-02
18.40	2.80106E-04	5.99025E-01	1.01471E-02	-6.56177E 01	-9.28315E-03	6.32359E-01	1.46439E-02
18.50	2.83159E-04	6.05643E-01	1.03275E-02	-6.56257E 01	-9.45508E-03	6.39159E-01	1.46453E-02
18.60	2.86229E-04	6.12298E-01	1.05101E-02	-6.56335E 01	-9.62909E-03	6.45995E-01	1.46466E-02
18.70	2.89315E-04	6.18989E-01	1.06948E-02	-6.56413E 01	-9.80519E-03	6.52867E-01	1.46480E-02
18.80	2.92417E-04	6.25716E-01	1.08816E-02	-6.56489E 01	-9.98339E-03	6.59775E-01	1.46493E-02
18.90	2.95536E-04	6.32479E-01	1.10706E-02	-6.56565E 01	-1.01637E-02	6.66719E-01	1.46506E-02
19.00	2.98672E-04	6.39279E-01	1.12618E-02	-6.56640E 01	-1.03461E-02	6.73700E-01	1.46519E-02
19.10	3.01824E-04	6.46114E-01	1.14551E-02	-6.56715E 01	-1.05307E-02	6.80717E-01	1.46532E-02
19.20	3.04992E-04	6.52987E-01	1.16506E-02	-6.56788E 01	-1.07174E-02	6.87770E-01	1.46545E-02
19.30	3.08177E-04	6.59895E-01	1.18483E-02	-6.56861E 01	-1.09063E-02	6.94860E-01	1.46558E-02
19.40	3.11379E-04	6.66839E-01	1.20483E-02	-6.56933E 01	-1.10974E-02	7.01986E-01	1.46571E-02
19.50	3.14598E-04	6.73820E-01	1.22505E-02	-6.57004E 01	-1.12906E-02	7.09148E-01	1.46583E-02
19.60	3.17832E-04	6.80837E-01	1.24549E-02	-6.57074E 01	-1.14861E-02	7.16346E-01	1.46595E-02
19.70	3.21084E-04	6.87890E-01	1.26615E-02	-6.57144E 01	-1.16837E-02	7.23580E-01	1.46608E-02
19.80	3.24352E-04	6.94980E-01	1.28705E-02	-6.57212E 01	-1.18836E-02	7.30851E-01	1.46620E-02
19.90	3.27636E-04	7.02106E-01	1.30817E-02	-6.57281E 01	-1.20857E-02	7.38158E-01	1.46632E-02
20.00	3.30937E-04	7.09268E-01	1.32952E-02	-6.57348E 01	-1.22901E-02	7.45501E-01	1.46644E-02
20.10	3.34255E-04	7.16466E-01	1.35110E-02	-6.57415E 01	-1.24967E-02	7.52880E-01	1.46655E-02
20.20	3.37589E-04	7.23700E-01	1.37291E-02	-6.57481E 01	-1.27056E-02	7.60296E-01	1.46667E-02
20.30	3.40939E-04	7.30971E-01	1.39495E-02	-6.57546E 01	-1.29168E-02	7.67747E-01	1.46679E-02
20.40	3.44306E-04	7.38278E-01	1.41723E-02	-6.57611E 01	-1.31303E-02	7.75235E-01	1.46690E-02
20.50	3.47690E-04	7.45621E-01	1.43974E-02	-6.57675E 01	-1.33461E-02	7.82760E-01	1.46702E-02
20.60	3.51090E-04	7.53000E-01	1.46249E-02	-6.57738E 01	-1.35642E-02	7.90320E-01	1.46713E-02
20.70	3.54507E-04	7.60416E-01	1.48548E-02	-6.57801E 01	-1.37847E-02	7.97917E-01	1.46724E-02
20.80	3.57940E-04	7.67868E-01	1.50871E-02	-6.57863E 01	-1.40075E-02	8.05549E-01	1.46735E-02
20.90	3.61390E-04	7.75356E-01	1.53217E-02	-6.57925E 01	-1.42326E-02	8.13218E-01	1.46746E-02
21.00	3.64857E-04	7.82880E-01	1.55588E-02	-6.57986E 01	-1.44601E-02	8.20924E-01	1.46757E-02
21.10	3.68340E-04	7.90440E-01	1.57983E-02	-6.58046E 01	-1.46901E-02	8.28665E-01	1.46768E-02
21.20	3.71839E-04	7.98037E-01	1.60402E-02	-6.58106E 01	-1.49224E-02	8.36443E-01	1.46778E-02
21.30	3.75355E-04	8.05670E-01	1.62846E-02	-6.58165E 01	-1.51571E-02	8.44256E-01	1.46789E-02
21.40	3.78888E-04	8.13339E-01	1.65314E-02	-6.58223E 01	-1.53942E-02	8.52106E-01	1.46800E-02
21.50	3.82437E-04	8.21044E-01	1.67807E-02	-6.58281E 01	-1.56338E-02	8.59993E-01	1.46810E-02
21.60	3.86003E-04	8.28785E-01	1.70325E-02	-6.58339E 01	-1.58758E-02	8.67915E-01	1.46820E-02
21.70	3.89585E-04	8.36563E-01	1.72868E-02	-6.58396E 01	-1.61202E-02	8.75874E-01	1.46830E-02
21.80	3.93183E-04	8.44376E-01	1.75436E-02	-6.58452E 01	-1.63672E-02	8.83868E-01	1.46841E-02
21.90	3.96799E-04	8.52226E-01	1.78029E-02	-6.58508E 01	-1.66166E-02	8.91899E-01	1.46851E-02
22.00	4.00431E-04	8.60113E-01	1.80648E-02	-6.58563E 01	-1.68685E-02	8.99966E-01	1.46861E-02
22.10	4.04079E-04	8.68035E-01	1.83292E-02	-6.58618E 01	-1.71229E-02	9.08070E-01	1.46871E-02
22.20	4.07744E-04	8.75993E-01	1.85962E-02	-6.58672E 01	-1.73798E-02	9.16209E-01	1.46880E-02
22.30	4.11425E-04	8.83988E-01	1.88657E-02	-6.58726E 01	-1.76393E-02	9.24385E-01	1.46890E-02
22.40	4.15123E-04	8.92019E-01	1.91378E-02	-6.58780E 01	-1.79013E-02	9.32596E-01	1.46900E-02
22.50	4.18838E-04	9.00086E-01	1.94126E-02	-6.58832E 01	-1.81659E-02	9.40844E-01	1.46909E-02
22.60	4.22569E-04	9.08189E-01	1.96899E-02	-6.58885E 01	-1.84330E-02	9.49128E-01	1.46919E-02
22.70	4.26317E-04	9.16329E-01	1.99698E-02	-6.58936E 01	-1.87027E-02	9.57449E-01	1.46928E-02
22.80	4.30081E-04	9.24504E-01	2.02524E-02	-6.58988E 01	-1.89750E-02	9.65805E-01	1.46937E-02
22.90	4.33861E-04	9.32716E-01	2.05376E-02	-6.59039E 01	-1.92499E-02	9.74198E-01	1.46947E-02
23.00	4.37659E-04	9.40964E-01	2.08255E-02	-6.59089E 01	-1.95274E-02	9.82626E-01	1.46956E-02
23.10	4.41472E-04	9.49248E-01	2.11161E-02	-6.59139E 01	-1.98076E-02	9.91091E-01	1.46965E-02
23.20	4.45303E-04	9.57568E-01	2.14093E-02	-6.59189E 01	-2.00903E-02	9.99592E-01	1.46974E-02
23.30	4.49150E-04	9.65924E-01	2.17052E-02	-6.59238E 01	-2.03758E-02	1.00813E 00	1.46983E-02
23.40	4.53013E-04	9.74317E-01	2.20039E-02	-6.59286E 01	-2.06639E-02	1.01670E 00	1.46992E-02
23.50	4.56893E-04	9.82746E-01	2.23052E-02	-6.59335E 01	-2.09547E-02	1.02531E 00	1.47001E-02
23.60	4.60790E-04	9.91211E-01	2.26093E-02	-6.59382E 01	-2.12481E-02	1.03396E 00	1.47009E-02
23.70	4.64703E-04	9.99712E-01	2.29161E-02	-6.59430E 01	-2.15443E-02	1.04264E 00	1.47018E-02
23.80	4.68632E-04	1.00825E 00	2.32257E-02	-6.59477E 01	-2.18432E-02	1.05136E 00	1.47027E-02
23.90	4.72578E-04	1.01682E 00	2.35380E-02	-6.59523E 01	-2.21448E-02	1.06011E 00	1.47035E-02
24.00	4.76541E-04	1.02543E 00	2.38532E-02	-6.59570E 01	-2.24491E-02	1.06890E 00	1.47044E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=3$			$A=6$		$\rho=1.2 A^{1/3} F$				
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$		
24.10	9.34408E-01	2.29633E	01	8.85410E-01	-8.26677E-04	-8.33265E-01	2.39513E	01	5.77289E	02
24.20	9.34407E-01	2.30617E	01	8.93551E-01	-8.28234E-04	-8.41228E-01	2.40499E	01	5.78026E	02
24.30	9.34406E-01	2.31601E	01	9.01731E-01	-8.29775E-04	-8.49229E-01	2.41485E	01	5.78760E	02
24.40	9.34404E-01	2.32586E	01	9.09949E-01	-8.31297E-04	-8.57267E-01	2.42471E	01	5.79492E	02
24.50	9.34403E-01	2.33570E	01	9.18204E-01	-8.32801E-04	-8.65343E-01	2.43457E	01	5.80222E	02
24.60	9.34401E-01	2.34555E	01	9.26497E-01	-8.34292E-04	-8.73457E-01	2.44444E	01	5.80949E	02
24.70	9.34400E-01	2.35539E	01	9.34828E-01	-8.35766E-04	-8.81609E-01	2.45430E	01	5.81672E	02
24.80	9.34399E-01	2.36524E	01	9.43196E-01	-8.37224E-04	-8.89799E-01	2.46417E	01	5.82393E	02
24.90	9.34397E-01	2.37509E	01	9.51603E-01	-8.38667E-04	-8.98027E-01	2.47403E	01	5.83112E	02
25.00	9.34396E-01	2.38494E	01	9.60047E-01	-8.40094E-04	-9.06292E-01	2.48390E	01	5.83828E	02
25.10	9.34395E-01	2.39479E	01	9.68529E-01	-8.41509E-04	-9.14596E-01	2.49377E	01	5.84540E	02
25.20	9.34393E-01	2.40464E	01	9.77048E-01	-8.42906E-04	-9.22937E-01	2.50364E	01	5.85250E	02
25.30	9.34392E-01	2.41450E	01	9.85606E-01	-8.44288E-04	-9.31316E-01	2.51352E	01	5.85958E	02
25.40	9.34390E-01	2.42435E	01	9.94201E-01	-8.45656E-04	-9.39733E-01	2.52339E	01	5.86663E	02
25.50	9.34389E-01	2.43421E	01	1.00283E	00	-8.47009E-04	2.53326E	01	5.87366E	02
25.60	9.34388E-01	2.44407E	01	1.01151E	00	-8.48349E-04	2.54314E	01	5.88066E	02
25.70	9.34386E-01	2.45393E	01	1.02022E	00	-8.49673E-04	2.55302E	01	5.88764E	02
25.80	9.34385E-01	2.46379E	01	1.02896E	00	-8.50983E-04	2.56290E	01	5.89460E	02
25.90	9.34384E-01	2.47365E	01	1.03775E	00	-8.52279E-04	2.57278E	01	5.90153E	02
26.00	9.34382E-01	2.48351E	01	1.04657E	00	-8.53563E-04	2.58266E	01	5.90844E	02
26.10	9.34381E-01	2.49338E	01	1.05543E	00	-8.54834E-04	2.59255E	01	5.91531E	02
26.20	9.34380E-01	2.50324E	01	1.06433E	00	-8.56088E-04	2.60243E	01	5.92218E	02
26.30	9.34378E-01	2.51311E	01	1.07327E	00	-8.57333E-04	2.61232E	01	5.92901E	02
26.40	9.34377E-01	2.52298E	01	1.08224E	00	-8.58559E-04	2.62221E	01	5.93584E	02
26.50	9.34376E-01	2.53285E	01	1.09125E	00	-8.59777E-04	2.63209E	01	5.94262E	02
26.60	9.34374E-01	2.54272E	01	1.10030E	00	-8.60978E-04	2.64199E	01	5.94940E	02
26.70	9.34373E-01	2.55259E	01	1.10939E	00	-8.62169E-04	2.65188E	01	5.95615E	02
26.80	9.34372E-01	2.56247E	01	1.11852E	00	-8.63346E-04	2.66177E	01	5.96288E	02
26.90	9.34371E-01	2.57234E	01	1.12768E	00	-8.64512E-04	2.67167E	01	5.96958E	02
27.00	9.34369E-01	2.58222E	01	1.13689E	00	-8.65665E-04	2.68156E	01	5.97627E	02
27.10	9.34368E-01	2.59210E	01	1.14613E	00	-8.66803E-04	2.69146E	01	5.98295E	02
27.20	9.34367E-01	2.60198E	01	1.15541E	00	-8.67930E-04	2.70136E	01	5.98960E	02
27.30	9.34365E-01	2.61186E	01	1.16472E	00	-8.69048E-04	2.71126E	01	5.99622E	02
27.40	9.34364E-01	2.62174E	01	1.17408E	00	-8.70151E-04	2.72116E	01	6.00282E	02
27.50	9.34363E-01	2.63163E	01	1.18347E	00	-8.71243E-04	2.73107E	01	6.00941E	02
27.60	9.34362E-01	2.64151E	01	1.19290E	00	-8.72324E-04	2.74097E	01	6.01598E	02
27.70	9.34360E-01	2.65140E	01	1.20237E	00	-8.73391E-04	2.75088E	01	6.02253E	02
27.80	9.34359E-01	2.66129E	01	1.21188E	00	-8.74451E-04	2.76079E	01	6.02905E	02
27.90	9.34358E-01	2.67118E	01	1.22143E	00	-8.75495E-04	2.77070E	01	6.03557E	02
28.00	9.34356E-01	2.68107E	01	1.23101E	00	-8.76530E-04	2.78061E	01	6.04206E	02
28.10	9.34355E-01	2.69096E	01	1.24063E	00	-8.77555E-04	2.79052E	01	6.04853E	02
28.20	9.34354E-01	2.70086E	01	1.25029E	00	-8.78567E-04	2.80044E	01	6.05499E	02
28.30	9.34352E-01	2.71075E	01	1.25999E	00	-8.79566E-04	2.81035E	01	6.06144E	02
28.40	9.34351E-01	2.72065E	01	1.26973E	00	-8.80557E-04	2.82027E	01	6.06786E	02
28.50	9.34350E-01	2.73055E	01	1.27950E	00	-8.81537E-04	2.83019E	01	6.07426E	02
28.60	9.34348E-01	2.74045E	01	1.28932E	00	-8.82505E-04	2.84011E	01	6.08065E	02
28.70	9.34347E-01	2.75035E	01	1.29917E	00	-8.83463E-04	2.85003E	01	6.08703E	02
28.80	9.34346E-01	2.76025E	01	1.30906E	00	-8.84409E-04	2.85996E	01	6.09339E	02
28.90	9.34345E-01	2.77015E	01	1.31898E	00	-8.85347E-04	2.86988E	01	6.09973E	02
29.00	9.34343E-01	2.78006E	01	1.32895E	00	-8.86275E-04	2.87981E	01	6.10605E	02
29.10	9.34342E-01	2.78997E	01	1.33896E	00	-8.87192E-04	2.88974E	01	6.11235E	02
29.20	9.34341E-01	2.79988E	01	1.34900E	00	-8.88099E-04	2.89966E	01	6.11865E	02
29.30	9.34340E-01	2.80979E	01	1.35908E	00	-8.88997E-04	2.90960E	01	6.12492E	02
29.40	9.34338E-01	2.81970E	01	1.36920E	00	-8.89884E-04	2.91953E	01	6.13118E	02
29.50	9.34337E-01	2.82961E	01	1.37936E	00	-8.90758E-04	2.92946E	01	6.13743E	02
29.60	9.34336E-01	2.83953E	01	1.38955E	00	-8.91625E-04	2.93940E	01	6.14367E	02
29.70	9.34335E-01	2.84944E	01	1.39979E	00	-8.92481E-04	2.94934E	01	6.14989E	02
29.80	9.34333E-01	2.85936E	01	1.41006E	00	-8.93333E-04	2.95928E	01	6.15608E	02
29.90	9.34332E-01	2.86928E	01	1.42037E	00	-8.94172E-04	2.96922E	01	6.16226E	02
30.00	9.34331E-01	2.87920E	01	1.43072E	00	-8.94999E-04	2.97916E	01	6.16844E	02

## ELECTRON RADIAL FUNCTIONS

 $Z=3$  $A=6$  $\rho=1.2 A^{1/3} F$ 

Positron

$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
24.10	4.80520E-04	1.03408E 00	2.41711E-02	-6.59615E 01	-2.27563E-02	1.07773E 00	1.47052E-02
24.20	4.84516E-04	1.04276E 00	2.44918E-02	-6.59661E 01	-2.30661E-02	1.08659E 00	1.47061E-02
24.30	4.88528E-04	1.05148E 00	2.48154E-02	-6.59706E 01	-2.33788E-02	1.09549E 00	1.47069E-02
24.40	4.92557E-04	1.06023E 00	2.51417E-02	-6.59750E 01	-2.36942E-02	1.10442E 00	1.47077E-02
24.50	4.96603E-04	1.06902E 00	2.54709E-02	-6.59795E 01	-2.40124E-02	1.11339E 00	1.47085E-02
24.60	5.00665E-04	1.07785E 00	2.58030E-02	-6.59838E 01	-2.43335E-02	1.12240E 00	1.47093E-02
24.70	5.04743E-04	1.08671E 00	2.61379E-02	-6.59882E 01	-2.46573E-02	1.13144E 00	1.47101E-02
24.80	5.08838E-04	1.09561E 00	2.64757E-02	-6.59925E 01	-2.49840E-02	1.14052E 00	1.47109E-02
24.90	5.12950E-04	1.10454E 00	2.68164E-02	-6.59968E 01	-2.53136E-02	1.14964E 00	1.47117E-02
25.00	5.17078E-04	1.11351E 00	2.71600E-02	-6.60010E 01	-2.56460E-02	1.15879E 00	1.47125E-02
25.10	5.21222E-04	1.12252E 00	2.75065E-02	-6.60052E 01	-2.59812E-02	1.16798E 00	1.47133E-02
25.20	5.25383E-04	1.13156E 00	2.78559E-02	-6.60094E 01	-2.63194E-02	1.17720E 00	1.47141E-02
25.30	5.29561E-04	1.14064E 00	2.82083E-02	-6.60135E 01	-2.66605E-02	1.18646E 00	1.47148E-02
25.40	5.33755E-04	1.14976E 00	2.85636E-02	-6.60176E 01	-2.70044E-02	1.19576E 00	1.47156E-02
25.50	5.37966E-04	1.15891E 00	2.89219E-02	-6.60217E 01	-2.73513E-02	1.20509E 00	1.47163E-02
25.60	5.42193E-04	1.16809E 00	2.92832E-02	-6.60258E 01	-2.77012E-02	1.21446E 00	1.47171E-02
25.70	5.46437E-04	1.17732E 00	2.96474E-02	-6.60298E 01	-2.80539E-02	1.22386E 00	1.47178E-02
25.80	5.50698E-04	1.18658E 00	3.00147E-02	-6.60337E 01	-2.84097E-02	1.23330E 00	1.47186E-02
25.90	5.54975E-04	1.19587E 00	3.03849E-02	-6.60377E 01	-2.87684E-02	1.24278E 00	1.47193E-02
26.00	5.59268E-04	1.20520E 00	3.07582E-02	-6.60416E 01	-2.91301E-02	1.25229E 00	1.47200E-02
26.10	5.63578E-04	1.21457E 00	3.11345E-02	-6.60455E 01	-2.94947E-02	1.26184E 00	1.47208E-02
26.20	5.67905E-04	1.22398E 00	3.15139E-02	-6.60493E 01	-2.98624E-02	1.27142E 00	1.47215E-02
26.30	5.72248E-04	1.23342E 00	3.18963E-02	-6.60531E 01	-3.02331E-02	1.28104E 00	1.47222E-02
26.40	5.76608E-04	1.24289E 00	3.22818E-02	-6.60569E 01	-3.06069E-02	1.29070E 00	1.47229E-02
26.50	5.80984E-04	1.25240E 00	3.26704E-02	-6.60607E 01	-3.09836E-02	1.30039E 00	1.47236E-02
26.60	5.85377E-04	1.26195E 00	3.30621E-02	-6.60644E 01	-3.13635E-02	1.31012E 00	1.47243E-02
26.70	5.89786E-04	1.27154E 00	3.34569E-02	-6.60681E 01	-3.17464E-02	1.31988E 00	1.47250E-02
26.80	5.94212E-04	1.28116E 00	3.38548E-02	-6.60718E 01	-3.21324E-02	1.32968E 00	1.47257E-02
26.90	5.98654E-04	1.29081E 00	3.42559E-02	-6.60755E 01	-3.25215E-02	1.33952E 00	1.47264E-02
27.00	6.03113E-04	1.30050E 00	3.46600E-02	-6.60791E 01	-3.29137E-02	1.34939E 00	1.47270E-02
27.10	6.07589E-04	1.31023E 00	3.50674E-02	-6.60827E 01	-3.33090E-02	1.35930E 00	1.47277E-02
27.20	6.12081E-04	1.32000E 00	3.54779E-02	-6.60862E 01	-3.37074E-02	1.36925E 00	1.47284E-02
27.30	6.16589E-04	1.32980E 00	3.58916E-02	-6.60898E 01	-3.41090E-02	1.37923E 00	1.47291E-02
27.40	6.21114E-04	1.33963E 00	3.63085E-02	-6.60933E 01	-3.45137E-02	1.38924E 00	1.47297E-02
27.50	6.25656E-04	1.34950E 00	3.67286E-02	-6.60967E 01	-3.49216E-02	1.39930E 00	1.47304E-02
27.60	6.30214E-04	1.35941E 00	3.71519E-02	-6.61002E 01	-3.53326E-02	1.40938E 00	1.47310E-02
27.70	6.34789E-04	1.36936E 00	3.75785E-02	-6.61036E 01	-3.57469E-02	1.41951E 00	1.47317E-02
27.80	6.39380E-04	1.37934E 00	3.80083E-02	-6.61070E 01	-3.61644E-02	1.42967E 00	1.47323E-02
27.90	6.43988E-04	1.38936E 00	3.84414E-02	-6.61104E 01	-3.65850E-02	1.43987E 00	1.47330E-02
28.00	6.48612E-04	1.39941E 00	3.88777E-02	-6.61138E 01	-3.70090E-02	1.45010E 00	1.47336E-02
28.10	6.53253E-04	1.40950E 00	3.93173E-02	-6.61171E 01	-3.74361E-02	1.46037E 00	1.47342E-02
28.20	6.57910E-04	1.41962E 00	3.97602E-02	-6.61204E 01	-3.78665E-02	1.47067E 00	1.47348E-02
28.30	6.62584E-04	1.42978E 00	4.02064E-02	-6.61237E 01	-3.83001E-02	1.48101E 00	1.47355E-02
28.40	6.67275E-04	1.43998E 00	4.06559E-02	-6.61270E 01	-3.87371E-02	1.49139E 00	1.47361E-02
28.50	6.71982E-04	1.45021E 00	4.11087E-02	-6.61302E 01	-3.91773E-02	1.50180E 00	1.47367E-02
28.60	6.76705E-04	1.46048E 00	4.15649E-02	-6.61334E 01	-3.96208E-02	1.51225E 00	1.47373E-02
28.70	6.81445E-04	1.47078E 00	4.20245E-02	-6.61366E 01	-4.00677E-02	1.52274E 00	1.47379E-02
28.80	6.86202E-04	1.48112E 00	4.24874E-02	-6.61398E 01	-4.05178E-02	1.53326E 00	1.47385E-02
28.90	6.90975E-04	1.49150E 00	4.29537E-02	-6.61429E 01	-4.09713E-02	1.54382E 00	1.47391E-02
29.00	6.95765E-04	1.50191E 00	4.34233E-02	-6.61460E 01	-4.14282E-02	1.55441E 00	1.47397E-02
29.10	7.00571E-04	1.51236E 00	4.38964E-02	-6.61491E 01	-4.18884E-02	1.56504E 00	1.47403E-02
29.20	7.05394E-04	1.52285E 00	4.43729E-02	-6.61522E 01	-4.23519E-02	1.57570E 00	1.47409E-02
29.30	7.10233E-04	1.53337E 00	4.48528E-02	-6.61553E 01	-4.28189E-02	1.58640E 00	1.47414E-02
29.40	7.15089E-04	1.54392E 00	4.53362E-02	-6.61583E 01	-4.32893E-02	1.59714E 00	1.47420E-02
29.50	7.19962E-04	1.55452E 00	4.58230E-02	-6.61613E 01	-4.37630E-02	1.60791E 00	1.47426E-02
29.60	7.24851E-04	1.56514E 00	4.63132E-02	-6.61643E 01	-4.42402E-02	1.61872E 00	1.47432E-02
29.70	7.29756E-04	1.57581E 00	4.68070E-02	-6.61673E 01	-4.47208E-02	1.62957E 00	1.47437E-02
29.80	7.34678E-04	1.58651E 00	4.73042E-02	-6.61702E 01	-4.52049E-02	1.64045E 00	1.47443E-02
29.90	7.39617E-04	1.59725E 00	4.78049E-02	-6.61732E 01	-4.56924E-02	1.65136E 00	1.47449E-02
30.00	7.44572E-04	1.60802E 00	4.83092E-02	-6.61761E 01	-4.61834E-02	1.66231E 00	1.47454E-02



## ELECTRON RADIAL FUNCTIONS

Positron		$Z=3 \quad A=6 \quad \rho=1.2 A^{1/3} F$						
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
30.10	9.34330E-01	2.88912E 01	1.44111E 00	-8.95819E-04	-1.37830E 00	2.98910E 01	6.17460E 02	
30.20	9.34328E-01	2.89905E 01	1.45154E 00	-8.96627E-04	-1.38855E 00	2.99905E 01	6.18076E 02	
30.30	9.34327E-01	2.90897E 01	1.46201E 00	-8.97431E-04	-1.39884E 00	3.00900E 01	6.18688E 02	
30.40	9.34326E-01	2.91890E 01	1.47251E 00	-8.98223E-04	-1.40917E 00	3.01895E 01	6.19300E 02	
30.50	9.34325E-01	2.92883E 01	1.48305E 00	-8.99004E-04	-1.41953E 00	3.02890E 01	6.19912E 02	
30.60	9.34323E-01	2.93876E 01	1.49363E 00	-8.99776E-04	-1.42994E 00	3.03885E 01	6.20522E 02	
30.70	9.34322E-01	2.94869E 01	1.50425E 00	-9.00542E-04	-1.44038E 00	3.04880E 01	6.21130E 02	
30.80	9.34321E-01	2.95863E 01	1.51491E 00	-9.01297E-04	-1.45086E 00	3.05876E 01	6.21737E 02	
30.90	9.34320E-01	2.96856E 01	1.52561E 00	-9.02047E-04	-1.46138E 00	3.06871E 01	6.22342E 02	
31.00	9.34318E-01	2.97850E 01	1.53634E 00	-9.02783E-04	-1.47194E 00	3.07867E 01	6.22948E 02	
31.10	9.34317E-01	2.98843E 01	1.54712E 00	-9.03516E-04	-1.48254E 00	3.08863E 01	6.23550E 02	
31.20	9.34316E-01	2.99837E 01	1.55793E 00	-9.04237E-04	-1.49318E 00	3.09860E 01	6.24152E 02	
31.30	9.34315E-01	3.00832E 01	1.56878E 00	-9.04949E-04	-1.50385E 00	3.10856E 01	6.24753E 02	
31.40	9.34313E-01	3.01826E 01	1.57967E 00	-9.05654E-04	-1.51457E 00	3.11852E 01	6.25354E 02	
31.50	9.34312E-01	3.02820E 01	1.59060E 00	-9.06352E-04	-1.52532E 00	3.12849E 01	6.25952E 02	
31.60	9.34311E-01	3.03815E 01	1.60156E 00	-9.07036E-04	-1.53611E 00	3.13846E 01	6.26551E 02	
31.70	9.34310E-01	3.04810E 01	1.61257E 00	-9.07718E-04	-1.54694E 00	3.14843E 01	6.27146E 02	
31.80	9.34309E-01	3.05805E 01	1.62361E 00	-9.08389E-04	-1.55781E 00	3.15840E 01	6.27742E 02	
31.90	9.34307E-01	3.06800E 01	1.63470E 00	-9.09052E-04	-1.56871E 00	3.16838E 01	6.28337E 02	
32.00	9.34306E-01	3.07795E 01	1.64582E 00	-9.09711E-04	-1.57966E 00	3.17835E 01	6.28939E 02	
32.10	9.34305E-01	3.08791E 01	1.65698E 00	-9.10357E-04	-1.59065E 00	3.18833E 01	6.29522E 02	
32.20	9.34304E-01	3.09786E 01	1.66818E 00	-9.10998E-04	-1.60167E 00	3.19831E 01	6.30113E 02	
32.30	9.34303E-01	3.10782E 01	1.67942E 00	-9.11630E-04	-1.61273E 00	3.20829E 01	6.30703E 02	
32.40	9.34301E-01	3.11778E 01	1.69069E 00	-9.12254E-04	-1.62383E 00	3.21827E 01	6.31293E 02	
32.50	9.34300E-01	3.12774E 01	1.70201E 00	-9.12871E-04	-1.63497E 00	3.22826E 01	6.31881E 02	
32.60	9.34299E-01	3.13770E 01	1.71336E 00	-9.13480E-04	-1.64615E 00	3.23824E 01	6.32468E 02	
32.70	9.34298E-01	3.14767E 01	1.72476E 00	-9.14079E-04	-1.65737E 00	3.24823E 01	6.33056E 02	
32.80	9.34297E-01	3.15763E 01	1.73619E 00	-9.14675E-04	-1.66863E 00	3.25822E 01	6.33641E 02	
32.90	9.34296E-01	3.16760E 01	1.74766E 00	-9.15259E-04	-1.67992E 00	3.26821E 01	6.34226E 02	
33.00	9.34294E-01	3.17757E 01	1.75917E 00	-9.15840E-04	-1.69126E 00	3.27820E 01	6.34809E 02	
33.10	9.34293E-01	3.18754E 01	1.77072E 00	-9.16412E-04	-1.70263E 00	3.28820E 01	6.35392E 02	
33.20	9.34292E-01	3.19751E 01	1.78231E 00	-9.16974E-04	-1.71404E 00	3.29819E 01	6.35975E 02	
33.30	9.34291E-01	3.20749E 01	1.79393E 00	-9.17531E-04	-1.72550E 00	3.30819E 01	6.36556E 02	
33.40	9.34290E-01	3.21746E 01	1.80560E 00	-9.18082E-04	-1.73699E 00	3.31819E 01	6.37136E 02	
33.50	9.34289E-01	3.22744E 01	1.81730E 00	-9.18625E-04	-1.74852E 00	3.32819E 01	6.37716E 02	
33.60	9.34287E-01	3.23742E 01	1.82904E 00	-9.19160E-04	-1.76008E 00	3.33820E 01	6.38295E 02	
33.70	9.34286E-01	3.24740E 01	1.84083E 00	-9.19691E-04	-1.77169E 00	3.34820E 01	6.38872E 02	
33.80	9.34285E-01	3.25738E 01	1.85265E 00	-9.20211E-04	-1.78334E 00	3.35821E 01	6.39450E 02	
33.90	9.34284E-01	3.26737E 01	1.86451E 00	-9.20727E-04	-1.79502E 00	3.36822E 01	6.40026E 02	
34.00	9.34283E-01	3.27736E 01	1.87641E 00	-9.21234E-04	-1.80675E 00	3.37823E 01	6.40601E 02	
34.80	9.34282E-01	3.28734E 01	1.88835E 00	-9.21736E-04	-1.81851E 00	3.38824E 01	6.41176E 02	
34.20	9.34281E-01	3.29733E 01	1.90032E 00	-9.22228E-04	-1.83032E 00	3.39825E 01	6.41751E 02	
34.30	9.34279E-01	3.30733E 01	1.91234E 00	-9.22717E-04	-1.84216E 00	3.40827E 01	6.42324E 02	
34.40	9.34278E-01	3.31732E 01	1.92440E 00	-9.23196E-04	-1.85404E 00	3.41829E 01	6.42898E 02	
34.50	9.34277E-01	3.32731E 01	1.93649E 00	-9.23672E-04	-1.86596E 00	3.42831E 01	6.43469E 02	
34.60	9.34276E-01	3.33731E 01	1.94862E 00	-9.24140E-04	-1.87792E 00	3.43833E 01	6.44040E 02	
34.70	9.34275E-01	3.34731E 01	1.96080E 00	-9.24600E-04	-1.88992E 00	3.44835E 01	6.44612E 02	
34.80	9.34274E-01	3.35731E 01	1.97301E 00	-9.25055E-04	-1.90196E 00	3.45838E 01	6.45181E 02	
34.90	9.34273E-01	3.36731E 01	1.98526E 00	-9.25504E-04	-1.91403E 00	3.46841E 01	6.45751E 02	
35.00	9.34271E-01	3.37732E 01	1.99755E 00	-9.25949E-04	-1.92615E 00	3.47844E 01	6.46319E 02	
35.10	9.34270E-01	3.38732E 01	2.00988E 00	-9.26381E-04	-1.93830E 00	3.48847E 01	6.46888E 02	
35.20	9.34269E-01	3.39733E 01	2.02225E 00	-9.26811E-04	-1.95050E 00	3.49850E 01	6.47455E 02	
35.30	9.34268E-01	3.40734E 01	2.03466E 00	-9.27231E-04	-1.96273E 00	3.50853E 01	6.48024E 02	
35.40	9.34267E-01	3.41735E 01	2.04710E 00	-9.27648E-04	-1.97501E 00	3.51857E 01	6.48590E 02	
35.50	9.34266E-01	3.42737E 01	2.05959E 00	-9.28059E-04	-1.98732E 00	3.52861E 01	6.49155E 02	
35.60	9.34265E-01	3.43738E 01	2.07212E 00	-9.28460E-04	-1.99967E 00	3.53865E 01	6.49722E 02	
35.70	9.34264E-01	3.44740E 01	2.08468E 00	-9.28858E-04	-2.01206E 00	3.54869E 01	6.50287E 02	
35.80	9.34263E-01	3.45742E 01	2.09729E 00	-9.29252E-04	-2.02450E 00	3.55873E 01	6.50851E 02	
35.90	9.34261E-01	3.46744E 01	2.10993E 00	-9.29637E-04	-2.03697E 00	3.56878E 01	6.51415E 02	
36.00	9.34260E-01	3.47746E 01	2.12261E 00	-9.30016E-04	-2.04948E 00	3.57883E 01	6.51978E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z=3$  $A=6$  $\rho = 1.2A^{1/3}F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
30.10	7.49544E-04	1.61883E 00	4.88170E-02	-6.61790E 01	-4.66780E-02	1.67330E 00	1.47460E-02
30.20	7.54532E-04	1.62967E 00	4.93283E-02	-6.61818E 01	-4.71759E-02	1.68433E 00	1.47465E-02
30.30	7.59537E-04	1.64055E 00	4.98431E-02	-6.61847E 01	-4.76774E-02	1.69539E 00	1.47471E-02
30.40	7.64558E-04	1.65147E 00	5.03615E-02	-6.61875E 01	-4.81824E-02	1.70648E 00	1.47476E-02
30.50	7.69596E-04	1.66242E 00	5.08835E-02	-6.61903E 01	-4.86910E-02	1.71762E 00	1.47481E-02
30.60	7.74650E-04	1.67341E 00	5.14091E-02	-6.61931E 01	-4.92030E-02	1.72878E 00	1.47487E-02
30.70	7.79721E-04	1.68443E 00	5.19382E-02	-6.61959E 01	-4.97187E-02	1.73999E 00	1.47492E-02
30.80	7.84809E-04	1.69549E 00	5.24710E-02	-6.61987E 01	-5.02379E-02	1.75123E 00	1.47497E-02
30.90	7.89913E-04	1.70659E 00	5.30074E-02	-6.62014E 01	-5.07606E-02	1.76250E 00	1.47503E-02
31.00	7.95033E-04	1.71772E 00	5.35474E-02	-6.62041E 01	-5.12870E-02	1.77382E 00	1.47508E-02
31.10	8.00170E-04	1.72888E 00	5.40911E-02	-6.62068E 01	-5.18170E-02	1.78516E 00	1.47513E-02
31.20	8.05324E-04	1.74009E 00	5.46384E-02	-6.62095E 01	-5.23506E-02	1.79655E 00	1.47518E-02
31.30	8.10494E-04	1.75133E 00	5.51894E-02	-6.62122E 01	-5.28878E-02	1.80797E 00	1.47523E-02
31.40	8.15681E-04	1.76260E 00	5.57440E-02	-6.62148E 01	-5.34287E-02	1.81942E 00	1.47528E-02
31.50	8.20884E-04	1.77391E 00	5.63024E-02	-6.62174E 01	-5.39732E-02	1.83091E 00	1.47534E-02
31.60	8.26104E-04	1.78526E 00	5.68645E-02	-6.62201E 01	-5.45214E-02	1.84244E 00	1.47539E-02
31.70	8.31340E-04	1.79664E 00	5.74303E-02	-6.62227E 01	-5.50732E-02	1.85400E 00	1.47544E-02
31.80	8.36593E-04	1.80806E 00	5.79998E-02	-6.62252E 01	-5.56288E-02	1.86560E 00	1.47549E-02
31.90	8.41863E-04	1.81952E 00	5.85731E-02	-6.62278E 01	-5.61880E-02	1.87724E 00	1.47554E-02
32.00	8.47148E-04	1.83101E 00	5.91501E-02	-6.62304E 01	-5.67510E-02	1.88891E 00	1.47558E-02
32.10	8.52451E-04	1.84253E 00	5.97309E-02	-6.62329E 01	-5.73177E-02	1.90061E 00	1.47563E-02
32.20	8.57770E-04	1.85410E 00	6.03154E-02	-6.62354E 01	-5.78881E-02	1.91235E 00	1.47568E-02
32.30	8.63105E-04	1.86569E 00	6.09038E-02	-6.62379E 01	-5.84623E-02	1.92413E 00	1.47573E-02
32.40	8.68458E-04	1.87733E 00	6.14960E-02	-6.62404E 01	-5.90402E-02	1.93595E 00	1.47578E-02
32.50	8.73826E-04	1.88900E 00	6.20919E-02	-6.62428E 01	-5.96219E-02	1.94780E 00	1.47583E-02
32.60	8.79211E-04	1.90070E 00	6.26917E-02	-6.62453E 01	-6.02074E-02	1.95968E 00	1.47587E-02
32.70	8.84613E-04	1.91245E 00	6.32954E-02	-6.62477E 01	-6.07967E-02	1.97160E 00	1.47592E-02
32.80	8.90031E-04	1.92422E 00	6.39029E-02	-6.62502E 01	-6.13898E-02	1.98356E 00	1.47597E-02
32.90	8.95466E-04	1.93604E 00	6.45142E-02	-6.62526E 01	-6.19867E-02	1.99555E 00	1.47601E-02
33.00	9.00918E-04	1.94789E 00	6.51295E-02	-6.62550E 01	-6.25875E-02	2.00758E 00	1.47606E-02
33.10	9.06386E-04	1.95977E 00	6.57486E-02	-6.62573E 01	-6.31921E-02	2.01965E 00	1.47611E-02
33.20	9.11870E-04	1.97169E 00	6.63716E-02	-6.62597E 01	-6.38006E-02	2.03175E 00	1.47615E-02
33.30	9.17371E-04	1.98365E 00	6.69985E-02	-6.62620E 01	-6.44129E-02	2.04388E 00	1.47620E-02
33.40	9.22889E-04	1.99564E 00	6.76294E-02	-6.62644E 01	-6.50291E-02	2.05606E 00	1.47624E-02
33.50	9.28423E-04	2.00767E 00	6.82642E-02	-6.62667E 01	-6.56492E-02	2.06827E 00	1.47629E-02
33.60	9.33973E-04	2.01973E 00	6.89029E-02	-6.62690E 01	-6.62733E-02	2.08051E 00	1.47633E-02
33.70	9.39540E-04	2.03183E 00	6.95456E-02	-6.62713E 01	-6.69012E-02	2.09279E 00	1.47638E-02
33.80	9.45124E-04	2.04397E 00	7.01923E-02	-6.62736E 01	-6.75331E-02	2.10510E 00	1.47642E-02
33.90	9.50724E-04	2.05614E 00	7.08429E-02	-6.62758E 01	-6.81689E-02	2.11746E 00	1.47647E-02
34.00	9.56341E-04	2.06835E 00	7.14976E-02	-6.62781E 01	-6.88087E-02	2.12984E 00	1.47651E-02
34.10	9.61974E-04	2.08059E 00	7.21562E-02	-6.62803E 01	-6.94524E-02	2.14227E 00	1.47655E-02
34.20	9.67624E-04	2.09287E 00	7.28189E-02	-6.62825E 01	-7.01002E-02	2.15472E 00	1.47660E-02
34.30	9.73291E-04	2.10519E 00	7.34856E-02	-6.62847E 01	-7.07519E-02	2.16722E 00	1.47664E-02
34.40	9.78973E-04	2.11754E 00	7.41564E-02	-6.62869E 01	-7.14076E-02	2.17975E 00	1.47668E-02
34.50	9.84673E-04	2.12992E 00	7.48312E-02	-6.62891E 01	-7.20673E-02	2.19232E 00	1.47673E-02
34.60	9.90389E-04	2.14235E 00	7.55101E-02	-6.62913E 01	-7.27311E-02	2.20492E 00	1.47677E-02
34.70	9.96121E-04	2.15480E 00	7.61931E-02	-6.62934E 01	-7.33989E-02	2.21756E 00	1.47681E-02
34.80	1.00187E-03	2.16730E 00	7.68801E-02	-6.62956E 01	-7.40707E-02	2.23023E 00	1.47685E-02
34.90	1.00764E-03	2.17983E 00	7.75713E-02	-6.62977E 01	-7.47467E-02	2.24294E 00	1.47689E-02
35.00	1.01342E-03	2.19239E 00	7.82666E-02	-6.62998E 01	-7.54267E-02	2.25568E 00	1.47693E-02
35.10	1.01922E-03	2.20499E 00	7.89660E-02	-6.63019E 01	-7.61108E-02	2.26846E 00	1.47698E-02
35.20	1.02503E-03	2.21763E 00	7.96696E-02	-6.63040E 01	-7.67989E-02	2.28128E 00	1.47702E-02
35.30	1.03086E-03	2.23030E 00	8.03773E-02	-6.63061E 01	-7.74912E-02	2.29413E 00	1.47706E-02
35.40	1.03671E-03	2.24301E 00	8.10891E-02	-6.63082E 01	-7.81877E-02	2.30702E 00	1.47710E-02
35.50	1.04258E-03	2.25575E 00	8.18052E-02	-6.63102E 01	-7.88882E-02	2.31994E 00	1.47714E-02
35.60	1.04846E-03	2.26853E 00	8.25255E-02	-6.63123E 01	-7.95930E-02	2.33290E 00	1.47718E-02
35.70	1.05436E-03	2.28135E 00	8.32499E-02	-6.63143E 01	-8.03018E-02	2.34590E 00	1.47722E-02
35.80	1.06027E-03	2.29420E 00	8.39786E-02	-6.63163E 01	-8.10149E-02	2.35893E 00	1.47726E-02
35.90	1.06620E-03	2.30709E 00	8.47115E-02	-6.63183E 01	-8.17321E-02	2.37199E 00	1.47730E-02
36.00	1.07215E-03	2.32001E 00	8.54486E-02	-6.63204E 01	-8.24536E-02	2.38510E 00	1.47734E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=3$		$A=6$		$\rho = 1.2 A^{1/3} F$				
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$		
36.10	9.34259E-01	3.48748E 01	2.13534E 00	-9.30394E-04	-2.06203E 00	3.58888E 01	6.52540E 02		
36.20	9.34258E-01	3.49751E 01	2.14810E 00	-9.30761E-04	-2.07461E 00	3.59893E 01	6.53103E 02		
36.30	9.34257E-01	3.50754E 01	2.16090E 00	-9.31123E-04	-2.08724E 00	3.60898E 01	6.53665E 02		
36.40	9.34256E-01	3.51757E 01	2.17374E 00	-9.31476E-04	-2.09991E 00	3.61904E 01	6.54228E 02		
36.50	9.34255E-01	3.52760E 01	2.18662E 00	-9.31827E-04	-2.11262E 00	3.62910E 01	6.54788E 02		
36.60	9.34254E-01	3.53763E 01	2.19954E 00	-9.32169E-04	-2.12536E 00	3.63916E 01	6.55350E 02		
36.70	9.34253E-01	3.54767E 01	2.21250E 00	-9.32509E-04	-2.13815E 00	3.64922E 01	6.55910E 02		
36.80	9.34252E-01	3.55771E 01	2.22550E 00	-9.32842E-04	-2.15098E 00	3.65928E 01	6.56470E 02		
36.90	9.34250E-01	3.56775E 01	2.23854E 00	-9.33171E-04	-2.16384E 00	3.66935E 01	6.57029E 02		
37.00	9.34249E-01	3.57779E 01	2.25161E 00	-9.33489E-04	-2.17675E 00	3.67941E 01	6.57589E 02		
37.10	9.34248E-01	3.58783E 01	2.26473E 00	-9.33806E-04	-2.18969E 00	3.68948E 01	6.58148E 02		
37.20	9.34247E-01	3.59788E 01	2.27789E 00	-9.34118E-04	-2.20267E 00	3.69956E 01	6.58706E 02		
37.30	9.34246E-01	3.60792E 01	2.29108E 00	-9.34422E-04	-2.21570E 00	3.70963E 01	6.59265E 02		
37.40	9.34245E-01	3.61797E 01	2.30432E 00	-9.34722E-04	-2.22876E 00	3.71970E 01	6.59822E 02		
37.50	9.34244E-01	3.62802E 01	2.31760E 00	-9.35016E-04	-2.24186E 00	3.72978E 01	6.60379E 02		
37.60	9.34243E-01	3.63807E 01	2.33091E 00	-9.35305E-04	-2.25501E 00	3.73986E 01	6.60936E 02		
37.70	9.34242E-01	3.64813E 01	2.34427E 00	-9.35588E-04	-2.26819E 00	3.74994E 01	6.61493E 02		
37.80	9.34241E-01	3.65819E 01	2.35766E 00	-9.35863E-04	-2.28141E 00	3.76002E 01	6.62051E 02		
37.90	9.34240E-01	3.66824E 01	2.37109E 00	-9.36137E-04	-2.29467E 00	3.77011E 01	6.62606E 02		
38.00	9.34239E-01	3.67830E 01	2.38457E 00	-9.36405E-04	-2.30797E 00	3.78020E 01	6.63162E 02		
38.10	9.34238E-01	3.68837E 01	2.39808E 00	-9.36667E-04	-2.32132E 00	3.79029E 01	6.63718E 02		
38.20	9.34237E-01	3.69843E 01	2.41164E 00	-9.36924E-04	-2.33470E 00	3.80038E 01	6.64273E 02		
38.30	9.34235E-01	3.70850E 01	2.42523E 00	-9.37176E-04	-2.34812E 00	3.81047E 01	6.64828E 02		
38.40	9.34234E-01	3.71857E 01	2.43886E 00	-9.37420E-04	-2.36158E 00	3.82057E 01	6.65384E 02		
38.50	9.34233E-01	3.72864E 01	2.45253E 00	-9.37662E-04	-2.37508E 00	3.83066E 01	6.65938E 02		
38.60	9.34232E-01	3.73871E 01	2.46625E 00	-9.37898E-04	-2.38862E 00	3.84076E 01	6.66494E 02		
38.70	9.34231E-01	3.74878E 01	2.48000E 00	-9.38129E-04	-2.40220E 00	3.85087E 01	6.67048E 02		
38.80	9.34230E-01	3.75886E 01	2.49379E 00	-9.38354E-04	-2.41582E 00	3.86097E 01	6.67602E 02		
38.90	9.34229E-01	3.76894E 01	2.50762E 00	-9.38574E-04	-2.42948E 00	3.87108E 01	6.68157E 02		
39.00	9.34228E-01	3.77902E 01	2.52149E 00	-9.38794E-04	-2.44318E 00	3.88118E 01	6.68709E 02		
39.10	9.34227E-01	3.78910E 01	2.53541E 00	-9.39003E-04	-2.45692E 00	3.89129E 01	6.69263E 02		
39.20	9.34226E-01	3.79918E 01	2.54936E 00	-9.39209E-04	-2.47070E 00	3.90140E 01	6.69817E 02		
39.30	9.34225E-01	3.80927E 01	2.56335E 00	-9.39408E-04	-2.48452E 00	3.91152E 01	6.70371E 02		
39.40	9.34224E-01	3.81936E 01	2.57738E 00	-9.39605E-04	-2.49838E 00	3.92164E 01	6.70924E 02		
39.50	9.34223E-01	3.82945E 01	2.59145E 00	-9.39796E-04	-2.51228E 00	3.93175E 01	6.71477E 02		
39.60	9.34222E-01	3.83954E 01	2.60556E 00	-9.39984E-04	-2.52622E 00	3.94187E 01	6.72029E 02		
39.70	9.34221E-01	3.84963E 01	2.61971E 00	-9.40164E-04	-2.54020E 00	3.95200E 01	6.72583E 02		
39.80	9.34220E-01	3.85973E 01	2.63391E 00	-9.40341E-04	-2.55422E 00	3.96212E 01	6.73135E 02		
39.90	9.34219E-01	3.86983E 01	2.64814E 00	-9.40513E-04	-2.56828E 00	3.97225E 01	6.73688E 02		
40.00	9.34218E-01	3.87993E 01	2.66241E 00	-9.40680E-04	-2.58239E 00	3.98238E 01	6.74241E 02		
40.10	9.34217E-01	3.89003E 01	2.67672E 00	-9.40844E-04	-2.59653E 00	3.99251E 01	6.74793E 02		
40.20	9.34216E-01	3.90014E 01	2.69107E 00	-9.41003E-04	-2.61071E 00	4.00264E 01	6.75345E 02		
40.30	9.34215E-01	3.91024E 01	2.70546E 00	-9.41158E-04	-2.62493E 00	4.01278E 01	6.75897E 02		
40.40	9.34214E-01	3.92035E 01	2.71990E 00	-9.41302E-04	-2.63919E 00	4.02291E 01	6.76451E 02		
40.50	9.34213E-01	3.93046E 01	2.73437E 00	-9.41448E-04	-2.65349E 00	4.03305E 01	6.77003E 02		
40.60	9.34212E-01	3.94058E 01	2.74888E 00	-9.41586E-04	-2.66783E 00	4.04319E 01	6.77556E 02		
40.70	9.34211E-01	3.95069E 01	2.76343E 00	-9.41721E-04	-2.68222E 00	4.05334E 01	6.78108E 02		
40.80	9.34210E-01	3.96081E 01	2.77803E 00	-9.41853E-04	-2.69664E 00	4.06348E 01	6.78660E 02		
40.90	9.34209E-01	3.97093E 01	2.79266E 00	-9.41979E-04	-2.71110E 00	4.07363E 01	6.79212E 02		
41.00	9.34208E-01	3.98105E 01	2.80733E 00	-9.42101E-04	-2.72560E 00	4.08378E 01	6.79765E 02		
41.10	9.34207E-01	3.99117E 01	2.82205E 00	-9.42219E-04	-2.74015E 00	4.09394E 01	6.80316E 02		
41.20	9.34206E-01	4.00130E 01	2.83680E 00	-9.42331E-04	-2.75473E 00	4.10409E 01	6.80869E 02		
41.30	9.34205E-01	4.01143E 01	2.85160E 00	-9.42440E-04	-2.76936E 00	4.11425E 01	6.81421E 02		
41.40	9.34204E-01	4.02156E 01	2.86643E 00	-9.42541E-04	-2.78402E 00	4.12441E 01	6.81975E 02		
41.50	9.34203E-01	4.03169E 01	2.88131E 00	-9.42641E-04	-2.79872E 00	4.13457E 01	6.82527E 02		
41.60	9.34202E-01	4.04182E 01	2.89622E 00	-9.42737E-04	-2.81347E 00	4.14473E 01	6.83079E 02		
41.70	9.34201E-01	4.05196E 01	2.91118E 00	-9.42827E-04	-2.82826E 00	4.15490E 01	6.83632E 02		
41.80	9.34200E-01	4.06210E 01	2.92617E 00	-9.42912E-04	-2.84308E 00	4.16507E 01	6.84186E 02		
41.90	9.34199E-01	4.07224E 01	2.94121E 00	-9.42993E-04	-2.85795E 00	4.17524E 01	6.84739E 02		
42.00	9.34198E-01	4.08238E 01	2.95629E 00	-9.43068E-04	-2.87286E 00	4.18541E 01	6.85293E 02		

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=3$		$A=6$		$\rho=1.2A^{1/3}F$		Positron
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
36.10	1.07811E-03	2.33297E 00	8.61900E-02	-6.63223E 01	-8.31792E-02	2.39824E 00	1.47738E-02	
36.20	1.08409E-03	2.34596E 00	8.69357E-02	-6.63243E 01	-8.39091E-02	2.41141E 00	1.47742E-02	
36.30	1.09009E-03	2.35899E 00	8.76856E-02	-6.63263E 01	-8.46432E-02	2.42462E 00	1.47745E-02	
36.40	1.09611E-03	2.37206E 00	8.84398E-02	-6.63282E 01	-8.53815E-02	2.43786E 00	1.47749E-02	
36.50	1.10214E-03	2.38516E 00	8.91983E-02	-6.63302E 01	-8.61241E-02	2.45114E 00	1.47753E-02	
36.60	1.10818E-03	2.39830E 00	8.99611E-02	-6.63321E 01	-8.68710E-02	2.46446E 00	1.47757E-02	
36.70	1.11425E-03	2.41147E 00	9.07282E-02	-6.63340E 01	-8.76222E-02	2.47781E 00	1.47761E-02	
36.80	1.12033E-03	2.42468E 00	9.14997E-02	-6.63359E 01	-8.83776E-02	2.49120E 00	1.47764E-02	
36.90	1.12642E-03	2.43792E 00	9.22755E-02	-6.63378E 01	-8.91374E-02	2.50462E 00	1.47768E-02	
37.00	1.13253E-03	2.45120E 00	9.30557E-02	-6.63397E 01	-8.99015E-02	2.51808E 00	1.47772E-02	
37.10	1.13866E-03	2.46452E 00	9.38402E-02	-6.63416E 01	-9.06699E-02	2.53158E 00	1.47776E-02	
37.20	1.14481E-03	2.47787E 00	9.46292E-02	-6.63435E 01	-9.14426E-02	2.54511E 00	1.47779E-02	
37.30	1.15097E-03	2.49126E 00	9.54225E-02	-6.63453E 01	-9.22197E-02	2.55867E 00	1.47783E-02	
37.40	1.15715E-03	2.50468E 00	9.62202E-02	-6.63472E 01	-9.30012E-02	2.57228E 00	1.47787E-02	
37.50	1.16335E-03	2.51814E 00	9.70224E-02	-6.63490E 01	-9.37870E-02	2.58591E 00	1.47790E-02	
37.60	1.16956E-03	2.53163E 00	9.78289E-02	-6.63508E 01	-9.45773E-02	2.59959E 00	1.47794E-02	
37.70	1.17579E-03	2.54516E 00	9.86400E-02	-6.63527E 01	-9.53719E-02	2.61329E 00	1.47797E-02	
37.80	1.18203E-03	2.55873E 00	9.94555E-02	-6.63545E 01	-9.61710E-02	2.62704E 00	1.47801E-02	
37.90	1.18830E-03	2.57233E 00	1.00275E-01	-6.63563E 01	-9.69745E-02	2.64082E 00	1.47805E-02	
38.00	1.19457E-03	2.58596E 00	1.01100E-01	-6.63581E 01	-9.77824E-02	2.65463E 00	1.47808E-02	
38.10	1.20087E-03	2.59963E 00	1.01929E-01	-6.63598E 01	-9.85947E-02	2.66849E 00	1.47812E-02	
38.20	1.20718E-03	2.61334E 00	1.02762E-01	-6.63616E 01	-9.94116E-02	2.68237E 00	1.47815E-02	
38.30	1.21351E-03	2.62709E 00	1.03600E-01	-6.63634E 01	-1.00233E-01	2.69630E 00	1.47819E-02	
38.40	1.21985E-03	2.64086E 00	1.04443E-01	-6.63651E 01	-1.01059E-01	2.71025E 00	1.47822E-02	
38.50	1.22621E-03	2.65468E 00	1.05290E-01	-6.63669E 01	-1.01889E-01	2.72425E 00	1.47826E-02	
38.60	1.23259E-03	2.66853E 00	1.06141E-01	-6.63686E 01	-1.02724E-01	2.73828E 00	1.47829E-02	
38.70	1.23899E-03	2.68241E 00	1.06997E-01	-6.63703E 01	-1.03563E-01	2.75234E 00	1.47832E-02	
38.80	1.24540E-03	2.69634E 00	1.07858E-01	-6.63720E 01	-1.04407E-01	2.76644E 00	1.47836E-02	
38.90	1.25182E-03	2.71029E 00	1.08723E-01	-6.63737E 01	-1.05255E-01	2.78058E 00	1.47839E-02	
39.00	1.25827E-03	2.72429E 00	1.09593E-01	-6.63754E 01	-1.06108E-01	2.79475E 00	1.47843E-02	
39.10	1.26473E-03	2.73831E 00	1.10468E-01	-6.63771E 01	-1.06966E-01	2.80896E 00	1.47846E-02	
39.20	1.27120E-03	2.75238E 00	1.11347E-01	-6.63788E 01	-1.07828E-01	2.82320E 00	1.47849E-02	
39.30	1.27770E-03	2.76648E 00	1.12231E-01	-6.63804E 01	-1.08695E-01	2.83748E 00	1.47853E-02	
39.40	1.28421E-03	2.78061E 00	1.13119E-01	-6.63821E 01	-1.09566E-01	2.85179E 00	1.47856E-02	
39.50	1.29073E-03	2.79478E 00	1.14012E-01	-6.63838E 01	-1.10442E-01	2.86614E 00	1.47859E-02	
39.60	1.29728E-03	2.80899E 00	1.14910E-01	-6.63854E 01	-1.11323E-01	2.88053E 00	1.47863E-02	
39.70	1.30384E-03	2.82323E 00	1.15812E-01	-6.63870E 01	-1.12208E-01	2.89495E 00	1.47866E-02	
39.80	1.31041E-03	2.83751E 00	1.16719E-01	-6.63887E 01	-1.13098E-01	2.90940E 00	1.47869E-02	
39.90	1.31701E-03	2.85182E 00	1.17631E-01	-6.63903E 01	-1.13992E-01	2.92389E 00	1.47872E-02	
40.00	1.32361E-03	2.86617E 00	1.18548E-01	-6.63919E 01	-1.14892E-01	2.93842E 00	1.47875E-02	
40.10	1.33024E-03	2.88055E 00	1.19469E-01	-6.63935E 01	-1.15795E-01	2.95298E 00	1.47879E-02	
40.20	1.33688E-03	2.89497E 00	1.20395E-01	-6.63951E 01	-1.16704E-01	2.96758E 00	1.47882E-02	
40.30	1.34354E-03	2.90943E 00	1.21326E-01	-6.63967E 01	-1.17617E-01	2.98222E 00	1.47885E-02	
40.40	1.35022E-03	2.92392E 00	1.22261E-01	-6.63982E 01	-1.18535E-01	2.99689E 00	1.47888E-02	
40.50	1.35691E-03	2.93844E 00	1.23202E-01	-6.63998E 01	-1.19458E-01	3.01159E 00	1.47891E-02	
40.60	1.36362E-03	2.95300E 00	1.24147E-01	-6.64014E 01	-1.20386E-01	3.02633E 00	1.47894E-02	
40.70	1.37034E-03	2.96760E 00	1.25097E-01	-6.64029E 01	-1.21318E-01	3.04111E 00	1.47898E-02	
40.80	1.37708E-03	2.98223E 00	1.26052E-01	-6.64044E 01	-1.22255E-01	3.05592E 00	1.47901E-02	
40.90	1.38384E-03	2.99690E 00	1.27011E-01	-6.64060E 01	-1.23197E-01	3.07076E 00	1.47904E-02	
41.00	1.39062E-03	3.01160E 00	1.27976E-01	-6.64075E 01	-1.24144E-01	3.08565E 00	1.47907E-02	
41.10	1.39741E-03	3.02634E 00	1.28945E-01	-6.64090E 01	-1.25095E-01	3.10056E 00	1.47910E-02	
41.20	1.40421E-03	3.04112E 00	1.29919E-01	-6.64106E 01	-1.26052E-01	3.11552E 00	1.47913E-02	
41.30	1.41104E-03	3.05593E 00	1.30898E-01	-6.64121E 01	-1.27013E-01	3.13051E 00	1.47916E-02	
41.40	1.41788E-03	3.07077E 00	1.31882E-01	-6.64136E 01	-1.27979E-01	3.14553E 00	1.47919E-02	
41.50	1.42474E-03	3.08565E 00	1.32871E-01	-6.64151E 01	-1.28950E-01	3.16059E 00	1.47922E-02	
41.60	1.43161E-03	3.10057E 00	1.33865E-01	-6.64165E 01	-1.29925E-01	3.17569E 00	1.47925E-02	
41.70	1.43850E-03	3.11552E 00	1.34863E-01	-6.64180E 01	-1.30906E-01	3.19082E 00	1.47928E-02	
41.80	1.44541E-03	3.13051E 00	1.35867E-01	-6.64195E 01	-1.31892E-01	3.20598E 00	1.47931E-02	
41.90	1.45233E-03	3.14553E 00	1.36875E-01	-6.64209E 01	-1.32882E-01	3.22118E 00	1.47934E-02	
42.00	1.45927E-03	3.16059E 00	1.37889E-01	-6.64224E 01	-1.33877E-01	3.23642E 00	1.47937E-02	



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=4$		$A=8$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
0.10	3.49363E-01	4.31631E-03	-3.24690E-05	1.26237E-01	9.73945E-04	8.34857E-02	6.25897E	00
0.20	6.08592E-01	2.19495E-02	-1.64440E-04	6.24136E-02	2.55486E-03	2.19578E-01	1.20803E	01
0.30	7.19481E-01	5.24811E-02	-3.90539E-04	4.15425E-02	4.12496E-02	3.56057E-01	1.80079E	01
0.40	7.78431E-01	9.46134E-02	-6.97597E-04	3.11095E-02	5.64432E-03	4.90098E-01	2.39411E	01
0.50	8.14112E-01	1.46818E-01	-1.07003E-03	2.48257E-02	7.09863E-03	6.20956E-01	2.98467E	01
0.60	8.37538E-01	2.07521E-01	-1.49174E-03	2.06135E-02	8.48083E-03	7.48398E-01	3.57048E	01
0.70	8.53798E-01	2.75237E-01	-1.94745E-03	1.75859E-02	9.78813E-03	8.72451E-01	4.15015E	01
0.80	8.65550E-01	3.48644E-01	-2.42353E-03	1.53005E-02	1.10205E-02	9.93299E-01	4.72269E	01
0.90	8.74313E-01	4.26617E-01	-2.90831E-03	1.35113E-02	1.21797E-02	1.11121E	5.28737E	01
1.00	8.81012E-01	5.08224E-01	-3.39214E-03	1.20709E-02	1.32682E-02	1.22649E	5.84373E	01
1.10	8.86240E-01	5.92712E-01	-3.86715E-03	1.08852E-02	1.42892E-02	1.33944E	6.39143E	01
1.20	8.90390E-01	6.79484E-01	-4.32708E-03	9.89147E-03	1.52458E-02	1.45036E	6.93030E	01
1.30	8.93736E-01	7.68063E-01	-4.76693E-03	9.04610E-03	1.61409E-02	1.55951E	7.46025E	01
1.40	8.96469E-01	8.58078E-01	-5.18276E-03	8.31788E-03	1.69772E-02	1.66713E	7.98128E	01
1.50	8.98725E-01	9.49233E-01	-5.57145E-03	7.68381E-03	1.77572E-02	1.77342E	8.49344E	01
1.60	9.00608E-01	1.04130E	-5.93056E-03	7.12661E-03	1.84829E-02	1.87856E	8.99679E	01
1.70	9.02194E-01	1.13410E	-6.25814E-03	6.63299E-03	1.91564E-02	1.98271E	9.49147E	01
1.80	9.03540E-01	1.22748E	-6.55266E-03	6.19260E-03	1.97790E-02	2.08600E	9.97761E	01
1.90	9.04693E-01	1.32134E	-6.81290E-03	5.79721E-03	2.03524E-02	2.18854E	1.04554E	02
2.00	9.05684E-01	1.41559E	-7.03786E-03	5.44023E-03	2.08776E-02	2.29042E	1.09249E	02
2.10	9.06544E-01	1.51015E	-7.22678E-03	5.11629E-03	2.13556E-02	2.39172E	1.13863E	02
2.20	9.07292E-01	1.60496E	-7.37901E-03	4.82099E-03	2.17875E-02	2.49253E	1.18399E	02
2.30	9.07949E-01	1.69998E	-7.49405E-03	4.55068E-03	2.21738E-02	2.59289E	1.22858E	02
2.40	9.08527E-01	1.79518E	-7.57148E-03	4.30230E-03	2.25154E-02	2.69286E	1.27241E	02
2.50	9.09038E-01	1.89052E	-7.61095E-03	4.07329E-03	2.28127E-02	2.79248E	1.31550E	02
2.60	9.09491E-01	1.98597E	-7.61219E-03	3.86145E-03	2.30663E-02	2.89180E	1.35787E	02
2.70	9.09895E-01	2.08152E	-7.57497E-03	3.66492E-03	2.32765E-02	2.99084E	1.39954E	02
2.80	9.10256E-01	2.17716E	-7.49909E-03	3.48211E-03	2.34438E-02	3.08963E	1.44052E	02
2.90	9.10581E-01	2.27286E	-7.38439E-03	3.31160E-03	2.35685E-02	3.18821E	1.48083E	02
3.00	9.10873E-01	2.36861E	-7.23076E-03	3.15221E-03	2.36509E-02	3.28659E	1.52048E	02
3.10	9.11137E-01	2.46441E	-7.03806E-03	3.00288E-03	2.36913E-02	3.38480E	1.55950E	02
3.20	9.11375E-01	2.56025E	-6.80621E-03	2.86268E-03	2.36897E-02	3.48284E	1.59788E	02
3.30	9.11591E-01	2.65613E	-6.53513E-03	2.73081E-03	2.36466E-02	3.58073E	1.63566E	02
3.40	9.11788E-01	2.75203E	-6.22475E-03	2.60653E-03	2.35619E-02	3.67850E	1.67284E	02
3.50	9.11967E-01	2.84795E	-5.87502E-03	2.48922E-03	2.34360E-02	3.77615E	1.70944E	02
3.60	9.12131E-01	2.94389E	-5.48588E-03	2.37830E-03	2.32689E-02	3.87369E	1.74547E	02
3.70	9.12281E-01	3.03984E	-5.05730E-03	2.27326E-03	2.30607E-02	3.97113E	1.78094E	02
3.80	9.12419E-01	3.13581E	-4.58924E-03	2.17366E-03	2.28116E-02	4.06847E	1.81588E	02
3.90	9.12545E-01	3.23179E	-4.08167E-03	2.07907E-03	2.25216E-02	4.16574E	1.85027E	02
4.00	9.12661E-01	3.32778E	-3.53456E-03	1.98913E-03	2.21909E-02	4.26293E	1.88416E	02
4.10	9.12768E-01	3.42377E	-2.94789E-03	1.90350E-03	2.18195E-02	4.36005E	1.91753E	02
4.20	9.12867E-01	3.51976E	-2.32164E-03	1.82189E-03	2.14075E-02	4.45711E	1.95041E	02
4.30	9.12958E-01	3.61576E	-1.65579E-03	1.74400E-03	2.09550E-02	4.55411E	1.98280E	02
4.40	9.13042E-01	3.71177E	-9.50327E-04	1.66961E-03	2.04620E-02	4.65105E	2.01472E	02
4.50	9.13121E-01	3.80777E	-2.05242E-04	1.59848E-03	1.99286E-02	4.74795E	2.04617E	02
4.60	9.13193E-01	3.90377E	5.79478E-04	1.53039E-03	1.93548E-02	4.84480E	2.07717E	02
4.70	9.13260E-01	3.99977E	1.40384E-03	1.46517E-03	1.87406E-02	4.94160E	2.10773E	02
4.80	9.13322E-01	4.09576E	2.26785E-03	1.40262E-03	1.80862E-02	5.03837E	2.13786E	02
4.90	9.13380E-01	4.19175E	3.17152E-03	1.34259E-03	1.73915E-02	5.13510E	2.16756E	02
5.00	9.13435E-01	4.28773E	4.11484E-03	1.28493E-03	1.66566E-02	5.23180E	2.19684E	02
5.10	9.13485E-01	4.38369E	5.09780E-03	1.22950E-03	1.58815E-02	5.32847E	2.22572E	02
5.20	9.13532E-01	4.47964E	6.12040E-03	1.17618E-03	1.50662E-02	5.42511E	2.25420E	02
5.30	9.13576E-01	4.57555E	7.18262E-03	1.12486E-03	1.42108E-02	5.52172E	2.28230E	02
5.40	9.13617E-01	4.67142E	8.28441E-03	1.07541E-03	1.33152E-02	5.61831E	2.31001E	02
5.50	9.13655E-01	4.76721E	9.42570E-03	1.02774E-03	1.23796E-02	5.71487E	2.33734E	02
5.60	9.13691E-01	4.86284E	1.06062E-02	9.81758E-04	1.14038E-02	5.81142E	2.36431E	02
5.70	9.13724E-01	4.95816E	1.18256E-02	9.37368E-04	1.03880E-02	5.90795E	2.39092E	02
5.80	9.13756E-01	5.05256E	1.30820E-02	8.94505E-04	9.33218E-03	6.00445E	2.41719E	02
5.90	9.13785E-01	5.14170E	1.43628E-02	8.53069E-04	8.23629E-03	6.10094E	2.44310E	02
6.00	9.13813E-01	5.26718E	1.57894E-02	8.13010E-04	7.10038E-03	6.19742E	2.46869E	02

## ELECTRON RADIAL FUNCTIONS

 $Z=4$        $A=8$        $\rho=1.2A^{1/3}F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$		$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	4.05602E-09	8.71831E-07	-3.64397E-09	-3.59507E 00		1.19928E-07	1.79917E-05	1.27046E-01
0.20	2.66059E-08	9.02756E-06	-3.75660E-08	-7.25166E 00		6.10393E-07	9.18251E-05	6.42750E-02
0.30	6.99628E-08	3.24843E-05	-1.34197E-07	-1.07187E 01		1.46948E-06	2.22070E-04	4.44412E-02
0.40	1.34033E-07	7.81764E-05	-3.19751E-07	-1.39689E 01		2.67484E-06	4.06745E-04	3.50073E-02
0.50	2.18630E-07	1.51725E-04	-6.12840E-07	-1.69735E 01		4.19962E-06	6.43596E-04	2.96732E-02
0.60	3.23575E-07	2.57430E-04	-1.02439E-06	-1.97185E 01		6.01516E-06	9.30367E-04	2.63553E-02
0.70	4.48720E-07	3.98415E-04	-1.55843E-06	-2.22037E 01		8.09291E-06	1.26498E-03	2.41640E-02
0.80	5.93942E-07	5.76847E-04	-2.21338E-06	-2.44392E 01		1.04055E-05	1.64564E-03	2.26563E-02
0.90	7.59144E-07	7.94161E-04	-2.98331E-06	-2.64419E 01		1.29276E-05	2.07085E-03	2.15881E-02
1.00	9.44250E-07	1.05127E-03	-3.85917E-06	-2.82318E 01		1.56353E-05	2.53942E-03	2.08146E-02
1.10	1.14920E-06	1.34871E-03	-4.82969E-06	-2.98303E 01		1.85070E-05	3.05041E-03	2.02451E-02
1.20	1.37394E-06	1.68678E-03	-5.88213E-06	-3.12585E 01		2.15224E-05	3.60311E-03	1.98204E-02
1.30	1.61845E-06	2.06562E-03	-7.00276E-06	-3.25360E 01		2.46623E-05	4.19696E-03	1.95009E-02
1.40	1.88269E-06	2.48528E-03	-8.17724E-06	-3.36808E 01		2.79087E-05	4.83155E-03	1.92589E-02
1.50	2.16663E-06	2.94572E-03	-9.39082E-06	-3.47090E 01		3.12444E-05	5.50656E-03	1.90750E-02
1.60	2.47026E-06	3.44690E-03	-1.06286E-05	-3.56349E 01		3.46527E-05	6.22176E-03	1.89351E-02
1.70	2.79357E-06	3.98873E-03	-1.18753E-05	-3.64709E 01		3.81172E-05	6.97698E-03	1.88288E-02
1.80	3.13654E-06	4.57115E-03	-1.31160E-05	-3.72278E 01		4.16223E-05	7.77208E-03	1.87487E-02
1.90	3.49917E-06	5.19406E-03	-1.43354E-05	-3.79151E 01		4.51523E-05	8.60697E-03	1.86888E-02
2.00	3.88144E-06	5.85738E-03	-1.55183E-05	-3.85409E 01		4.86918E-05	9.48157E-03	1.86449E-02
2.10	4.28336E-06	6.56104E-03	-1.66495E-05	-3.91124E 01		5.22255E-05	1.03958E-02	1.86135E-02
2.20	4.70490E-06	7.30497E-03	-1.77140E-05	-3.96356E 01		5.57384E-05	1.13497E-02	1.85921E-02
2.30	5.14608E-06	8.08909E-03	-1.86966E-05	-4.01160E 01		5.92153E-05	1.23432E-02	1.85786E-02
2.40	5.60689E-06	8.91334E-03	-1.95823E-05	-4.05581E 01		6.26414E-05	1.33763E-02	1.85714E-02
2.50	6.08732E-06	9.77767E-03	-2.03559E-05	-4.09660E 01		6.60016E-05	1.44489E-02	1.85693E-02
2.60	6.58737E-06	1.06820E-02	-2.10025E-05	-4.13433E 01		6.92812E-05	1.55611E-02	1.85712E-02
2.70	7.10704E-06	1.16264E-02	-2.15071E-05	-4.16930E 01		7.24652E-05	1.67128E-02	1.85764E-02
2.80	7.64633E-06	1.26106E-02	-2.18547E-05	-4.20178E 01		7.55389E-05	1.79041E-02	1.85841E-02
2.90	8.20523E-06	1.36347E-02	-2.20303E-05	-4.23202E 01		7.84874E-05	1.91349E-02	1.85939E-02
3.00	8.78376E-06	1.46987E-02	-2.20190E-05	-4.26023E 01		8.12960E-05	2.04052E-02	1.86053E-02
3.10	9.38189E-06	1.58024E-02	-2.18059E-05	-4.28659E 01		8.39497E-05	2.17151E-02	1.86179E-02
3.20	9.99962E-06	1.69459E-02	-2.13761E-05	-4.31127E 01		8.64339E-05	2.30645E-02	1.86316E-02
3.30	1.06370E-05	1.81290E-02	-2.07147E-05	-4.33442E 01		8.87338E-05	2.44535E-02	1.86460E-02
3.40	1.12939E-05	1.93518E-02	-1.98069E-05	-4.35617E 01		9.08347E-05	2.58820E-02	1.86610E-02
3.50	1.19705E-05	2.06141E-02	-1.86378E-05	-4.37663E 01		9.27217E-05	2.73501E-02	1.86763E-02
3.60	1.26667E-05	2.19158E-02	-1.71926E-05	-4.39592E 01		9.43800E-05	2.88577E-02	1.86920E-02
3.70	1.33825E-05	2.32569E-02	-1.54565E-05	-4.41412E 01		9.57950E-05	3.04049E-02	1.87078E-02
3.80	1.41179E-05	2.46371E-02	-1.34148E-05	-4.43132E 01		9.69519E-05	3.19916E-02	1.87237E-02
3.90	1.48729E-05	2.60562E-02	-1.10527E-05	-4.44760E 01		9.78358E-05	3.36179E-02	1.87397E-02
4.00	1.56475E-05	2.75140E-02	-8.35561E-06	-4.46303E 01		9.84321E-05	3.52838E-02	1.87555E-02
4.10	1.64417E-05	2.90098E-02	-5.30903E-06	-4.47767E 01		9.87260E-05	3.69892E-02	1.87713E-02
4.20	1.72555E-05	3.05427E-02	-1.89870E-06	-4.49157E 01		9.87027E-05	3.87342E-02	1.87870E-02
4.30	1.80889E-05	3.21111E-02	1.88918E-06	-4.50479E 01		9.83475E-05	4.05187E-02	1.88025E-02
4.40	1.89420E-05	3.37115E-02	6.06721E-06	-4.51738E 01		9.76455E-05	4.23429E-02	1.88178E-02
4.50	1.98146E-05	3.53350E-02	1.06448E-05	-4.52938E 01		9.65820E-05	4.42066E-02	1.88329E-02
4.60	2.07068E-05	3.69522E-02	1.56181E-05	-4.54082E 01		9.51424E-05	4.61098E-02	1.88478E-02
4.70	2.16187E-05	3.83567E-02	2.08730E-05	-4.55175E 01		9.33117E-05	4.80527E-02	1.88625E-02
4.80	2.25501E-05	4.18589E-02	2.78703E-05	-4.56220E 01		9.10753E-05	5.00352E-02	1.88769E-02
4.90	2.35011E-05	4.28081E-02	3.37138E-05	-4.57219E 01		8.84183E-05	5.20572E-02	1.88911E-02
5.00	2.44718E-05	4.45461E-02	4.05101E-05	-4.58176E 01		8.53261E-05	5.41188E-02	1.89050E-02
5.10	2.54620E-05	4.63977E-02	4.78514E-05	-4.59094E 01		8.17838E-05	5.62200E-02	1.89186E-02
5.20	2.64719E-05	4.83115E-02	5.57203E-05	-4.59973E 01		7.77767E-05	5.83608E-02	1.89320E-02
5.30	2.75013E-05	5.02748E-02	6.41235E-05	-4.60817E 01		7.32900E-05	6.05412E-02	1.89452E-02
5.40	2.85504E-05	5.22830E-02	7.30731E-05	-4.61629E 01		6.83089E-05	6.27612E-02	1.89581E-02
5.50	2.96190E-05	5.43339E-02	8.25825E-05	-4.62408E 01		6.28187E-05	6.50207E-02	1.89707E-02
5.60	3.07073E-05	5.64266E-02	9.26659E-05	-4.63158E 01		5.68046E-05	6.73199E-02	1.89831E-02
5.70	3.18151E-05	5.85602E-02	1.03338E-04	-4.63880E 01		5.02519E-05	6.96586E-02	1.89952E-02
5.80	3.29426E-05	6.07345E-02	1.14612E-04	-4.64575E 01		4.31458E-05	7.20370E-02	1.90071E-02
5.90	3.40896E-05	6.29491E-02	1.26504E-04	-4.65246E 01		3.54714E-05	7.4549E-02	1.90188E-02
6.00	3.52563E-05	6.52038E-02	1.39028E-04	-4.65892E 01		2.72141E-05	7.69125E-02	1.90302E-02



ELECTRON RADIAL FUNCTIONS

Positron	$Z=4$		$A=8$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	9.13838E-01	5.35010E 00	1.71316E-02	7.74251E-04	5.92444E-03	6.29388E 00	2.49394E 02	
6.20	9.13862E-01	5.44404E 00	1.85456E-02	7.36731E-04	4.70851E-03	6.39033E 00	2.51886E 02	
6.30	9.13884E-01	5.53925E 00	2.00031E-02	7.00099E-04	3.45258E-03	6.48677E 00	2.54348E 02	
6.40	9.13905E-01	5.63486E 00	2.15015E-02	6.65192E-04	2.15668E-03	6.58320E 00	2.56778E 02	
6.50	9.13925E-01	5.73064E 00	2.30402E-02	6.31060E-04	8.20790E-04	6.67961E 00	2.59177E 02	
6.60	9.13944E-01	5.82651E 00	2.46189E-02	5.97959E-04	-5.55068E-04	6.77602E 00	2.61547E 02	
6.70	9.13961E-01	5.92244E 00	2.62376E-02	5.65835E-04	-1.97089E-03	6.87242E 00	2.63887E 02	
6.80	9.13978E-01	6.01841E 00	2.78961E-02	5.34658E-04	-3.42667E-03	6.96881E 00	2.66199E 02	
6.90	9.13993E-01	6.11440E 00	2.95945E-02	5.04376E-04	-4.92241E-03	7.06519E 00	2.68482E 02	
7.00	9.14006E-01	6.21041E 00	3.13327E-02	4.74959E-04	-6.45810E-03	7.16157E 00	2.70738E 02	
7.10	9.14019E-01	6.30644E 00	3.31108E-02	4.46362E-04	-8.03373E-03	7.25794E 00	2.72967E 02	
7.20	9.14032E-01	6.40248E 00	3.49287E-02	4.18558E-04	-9.64932E-03	7.35431E 00	2.75169E 02	
7.30	9.14044E-01	6.49853E 00	3.67864E-02	3.91516E-04	-1.13048E-02	7.45067E 00	2.77345E 02	
7.40	9.14055E-01	6.59459E 00	3.86840E-02	3.65202E-04	-1.30003E-02	7.54703E 00	2.79495E 02	
7.50	9.14065E-01	6.69066E 00	4.06213E-02	3.39589E-04	-1.47357E-02	7.64339E 00	2.81620E 02	
7.60	9.14075E-01	6.78674E 00	4.25985E-02	3.14647E-04	-1.65111E-02	7.73975E 00	2.83721E 02	
7.70	9.14084E-01	6.88281E 00	4.46155E-02	2.90354E-04	-1.83263E-02	7.83610E 00	2.85797E 02	
7.80	9.14092E-01	6.97890E 00	4.66724E-02	2.66684E-04	-2.01815E-02	7.93245E 00	2.87850E 02	
7.90	9.14100E-01	7.07500E 00	4.87690E-02	2.43613E-04	-2.20767E-02	8.02880E 00	2.89879E 02	
8.00	9.14107E-01	7.17110E 00	5.09056E-02	2.21119E-04	-2.40118E-02	8.12515E 00	2.91885E 02	
8.10	9.14114E-01	7.26721E 00	5.30820E-02	1.99181E-04	-2.59868E-02	8.22149E 00	2.93869E 02	
8.20	9.14120E-01	7.36332E 00	5.52982E-02	1.77776E-04	-2.80018E-02	8.31784E 00	2.95830E 02	
8.30	9.14126E-01	7.45943E 00	5.75542E-02	1.56892E-04	-3.00567E-02	8.41419E 00	2.97770E 02	
8.40	9.14131E-01	7.55555E 00	5.98502E-02	1.36505E-04	-3.21515E-02	8.51053E 00	2.99689E 02	
8.50	9.14137E-01	7.65168E 00	6.21859E-02	1.16597E-04	-3.42863E-02	8.60688E 00	3.01586E 02	
8.60	9.14141E-01	7.74782E 00	6.45616E-02	9.71591E-05	-3.64611E-02	8.70323E 00	3.03464E 02	
8.70	9.14145E-01	7.84395E 00	6.69771E-02	7.81680E-05	-3.86757E-02	8.79958E 00	3.05321E 02	
8.80	9.14149E-01	7.94010E 00	6.94325E-02	5.96074E-05	-4.09304E-02	8.89593E 00	3.07158E 02	
8.90	9.14153E-01	8.03625E 00	7.19278E-02	4.14672E-05	-4.32249E-02	8.99229E 00	3.08975E 02	
9.00	9.14157E-01	8.13240E 00	7.44629E-02	2.37377E-05	-4.55595E-02	9.08865E 00	3.10774E 02	
9.10	9.14159E-01	8.22856E 00	7.70380E-02	6.39192E-06	-4.79340E-02	9.18501E 00	3.12553E 02	
9.20	9.14162E-01	8.32473E 00	7.96529E-02	-1.05685E-05	-5.03484E-02	9.28137E 00	3.14314E 02	
9.30	9.14165E-01	8.42090E 00	8.23078E-02	-2.71642E-05	-5.28029E-02	9.37773E 00	3.16056E 02	
9.40	9.14167E-01	8.51708E 00	8.50025E-02	-4.34015E-05	-5.52972E-02	9.47410E 00	3.17781E 02	
9.50	9.14169E-01	8.61326E 00	8.77371E-02	-5.92954E-05	-5.78316E-02	9.57047E 00	3.19488E 02	
9.60	9.14170E-01	8.70945E 00	9.05117E-02	-7.48542E-05	-6.04059E-02	9.66685E 00	3.21178E 02	
9.70	9.14172E-01	8.80564E 00	9.33262E-02	-9.00894E-05	-6.30203E-02	9.76323E 00	3.22850E 02	
9.80	9.14173E-01	8.90185E 00	9.61807E-02	-1.05012E-04	-6.56745E-02	9.85961E 00	3.24506E 02	
9.90	9.14174E-01	8.99805E 00	9.90750E-02	-1.19625E-04	-6.83688E-02	9.95600E 00	3.26146E 02	
10.00	9.14175E-01	9.09426E 00	1.02009E-01	-1.33945E-04	-7.11031E-02	1.00524E 01	3.27769E 02	
10.10	9.14176E-01	9.19049E 00	1.04984E-01	-1.47971E-04	-7.38774E-02	1.01488E 01	3.29377E 02	
10.20	9.14176E-01	9.28671E 00	1.07998E-01	-1.61725E-04	-7.66916E-02	1.02452E 01	3.30969E 02	
10.30	9.14177E-01	9.38295E 00	1.11052E-01	-1.75214E-04	-7.95459E-02	1.03416E 01	3.32544E 02	
10.40	9.14177E-01	9.47919E 00	1.14146E-01	-1.88431E-04	-8.24402E-02	1.04380E 01	3.34106E 02	
10.50	9.14177E-01	9.57543E 00	1.17280E-01	-2.01394E-04	-8.53745E-02	1.05344E 01	3.35652E 02	
10.60	9.14177E-01	9.67168E 00	1.20454E-01	-2.14108E-04	-8.83489E-02	1.06308E 01	3.37183E 02	
10.70	9.14177E-01	9.76794E 00	1.23668E-01	-2.26581E-04	-9.13632E-02	1.07273E 01	3.38700E 02	
10.80	9.14176E-01	9.86421E 00	1.26922E-01	-2.38818E-04	-9.44176E-02	1.08237E 01	3.40203E 02	
10.90	9.14176E-01	9.96048E 00	1.30216E-01	-2.50825E-04	-9.75121E-02	1.09202E 01	3.41692E 02	
11.00	9.14175E-01	1.00568E 01	1.33550E-01	-2.62613E-04	-1.00647E-01	1.10166E 01	3.43167E 02	
11.10	9.14175E-01	1.01530E 01	1.36924E-01	-2.74183E-04	-1.03821E-01	1.11130E 01	3.44628E 02	
11.20	9.14174E-01	1.02493E 01	1.40338E-01	-2.85541E-04	-1.07036E-01	1.12095E 01	3.46077E 02	
11.30	9.14173E-01	1.03456E 01	1.43792E-01	-2.96690E-04	-1.10290E-01	1.13060E 01	3.47512E 02	
11.40	9.14172E-01	1.04420E 01	1.47286E-01	-3.07642E-04	-1.13585E-01	1.14024E 01	3.48934E 02	
11.50	9.14171E-01	1.05383E 01	1.50820E-01	-3.18398E-04	-1.16920E-01	1.14989E 01	3.50344E 02	
11.60	9.14170E-01	1.06346E 01	1.54395E-01	-3.28962E-04	-1.20295E-01	1.15954E 01	3.51741E 02	
11.70	9.14169E-01	1.07309E 01	1.58009E-01	-3.39347E-04	-1.23710E-01	1.16919E 01	3.53125E 02	
11.80	9.14167E-01	1.08273E 01	1.61663E-01	-3.49548E-04	-1.27165E-01	1.17884E 01	3.54497E 02	
11.90	9.14166E-01	1.09236E 01	1.65357E-01	-3.59571E-04	-1.30660E-01	1.18849E 01	3.55857E 02	
12.00	9.14164E-01	1.10200E 01	1.69092E-01	-3.69424E-04	-1.34195E-01	1.19814E 01	3.57206E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z=4$  $A=8$  $\rho = 1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	3.64425E-05	6.74987E-02	1.52199E-04	-4.66516E 01	1.83589E-05	7.94096E-02	1.90414E-02
6.20	3.76484E-05	6.98335E-02	1.66032E-04	-4.67118E 01	8.89136E-06	8.19463E-02	1.90524E-02
6.30	3.88738E-05	7.22083E-02	1.80541E-04	-4.67700E 01	-1.20347E-06	8.45227E-02	1.90631E-02
6.40	4.01189E-05	7.46229E-02	1.95741E-04	-4.68263E 01	-1.19404E-05	8.71386E-02	1.90736E-02
6.50	4.13835E-05	7.70774E-02	2.11647E-04	-4.68807E 01	-2.33341E-05	8.97942E-02	1.90840E-02
6.60	4.26678E-05	7.95717E-02	2.28274E-04	-4.69334E 01	-3.53993E-05	9.24893E-02	1.90941E-02
6.70	4.39716E-05	8.21057E-02	2.45636E-04	-4.69844E 01	-4.81510E-05	9.52240E-02	1.91040E-02
6.80	4.52951E-05	8.46795E-02	2.63749E-04	-4.70337E 01	-6.16038E-05	9.79984E-02	1.91137E-02
6.90	4.66382E-05	8.72930E-02	2.82626E-04	-4.70816E 01	-7.57724E-05	1.00812E-01	1.91232E-02
7.00	4.80008E-05	8.99463E-02	3.02283E-04	-4.71280E 01	-9.06617E-05	1.03666E-01	1.91325E-02
7.10	4.93830E-05	9.26392E-02	3.22734E-04	-4.71730E 01	-1.06316E-04	1.06559E-01	1.91416E-02
7.20	5.07849E-05	9.53719E-02	3.43995E-04	-4.72166E 01	-1.22721E-04	1.09492E-01	1.91506E-02
7.30	5.22063E-05	9.81443E-02	3.66080E-04	-4.72590E 01	-1.39901E-04	1.12464E-01	1.91594E-02
7.40	5.36474E-05	1.00956E-01	3.89004E-04	-4.73002E 01	-1.57871E-04	1.15476E-01	1.91680E-02
7.50	5.51080E-05	1.03808E-01	4.12781E-04	-4.73402E 01	-1.76645E-04	1.18528E-01	1.91764E-02
7.60	5.65882E-05	1.06700E-01	4.37427E-04	-4.73791E 01	-1.96239E-04	1.21619E-01	1.91847E-02
7.70	5.80880E-05	1.09631E-01	4.62956E-04	-4.74169E 01	-2.16667E-04	1.24750E-01	1.91928E-02
7.80	5.96075E-05	1.12601E-01	4.89383E-04	-4.74537E 01	-2.37943E-04	1.27920E-01	1.92008E-02
7.90	6.11465E-05	1.15612E-01	5.16722E-04	-4.74895E 01	-2.60083E-04	1.31130E-01	1.92086E-02
8.00	6.27051E-05	1.18662E-01	5.44990E-04	-4.75243E 01	-2.83102E-04	1.34379E-01	1.92163E-02
8.10	6.42834E-05	1.21752E-01	5.74199E-04	-4.75582E 01	-3.07013E-04	1.37669E-01	1.92238E-02
8.20	6.58812E-05	1.24881E-01	6.04365E-04	-4.75912E 01	-3.31833E-04	1.40997E-01	1.92312E-02
8.30	6.74986E-05	1.28050E-01	6.35504E-04	-4.76234E 01	-3.57575E-04	1.44366E-01	1.92385E-02
8.40	6.91356E-05	1.31259E-01	6.67628E-04	-4.76548E 01	-3.84255E-04	1.47774E-01	1.92456E-02
8.50	7.07922E-05	1.34507E-01	7.00755E-04	-4.76854E 01	-4.11887E-04	1.51221E-01	1.92526E-02
8.60	7.24684E-05	1.37795E-01	7.34897E-04	-4.77152E 01	-4.40486E-04	1.54708E-01	1.92594E-02
8.70	7.41642E-05	1.41123E-01	7.70071E-04	-4.77443E 01	-4.70066E-04	1.58235E-01	1.92662E-02
8.80	7.58796E-05	1.44490E-01	8.06290E-04	-4.77727E 01	-5.00643E-04	1.61802E-01	1.92728E-02
8.90	7.76146E-05	1.47897E-01	8.43570E-04	-4.78004E 01	-5.32232E-04	1.65408E-01	1.92793E-02
9.00	7.93692E-05	1.51343E-01	8.81925E-04	-4.78275E 01	-5.64847E-04	1.69053E-01	1.92857E-02
9.10	8.11434E-05	1.54829E-01	9.21369E-04	-4.78539E 01	-5.98502E-04	1.72738E-01	1.92920E-02
9.20	8.29372E-05	1.58355E-01	9.61919E-04	-4.78797E 01	-6.33214E-04	1.76463E-01	1.92981E-02
9.30	8.47505E-05	1.61920E-01	1.00359E-03	-4.79050E 01	-6.68995E-04	1.80227E-01	1.93042E-02
9.40	8.65835E-05	1.65525E-01	1.04639E-03	-4.79296E 01	-7.05862E-04	1.84031E-01	1.93102E-02
9.50	8.84361E-05	1.69170E-01	1.09034E-03	-4.79538E 01	-7.43829E-04	1.87875E-01	1.93160E-02
9.60	9.03082E-05	1.72854E-01	1.13546E-03	-4.79773E 01	-7.82910E-04	1.91758E-01	1.93218E-02
9.70	9.22000E-05	1.76578E-01	1.18176E-03	-4.80004E 01	-8.23121E-04	1.95681E-01	1.93274E-02
9.80	9.41114E-05	1.80342E-01	1.22925E-03	-4.80230E 01	-8.64476E-04	1.99643E-01	1.93330E-02
9.90	9.60423E-05	1.84145E-01	1.27794E-03	-4.80450E 01	-9.06990E-04	2.03645E-01	1.93385E-02
10.00	9.79929E-05	1.87987E-01	1.32786E-03	-4.80667E 01	-9.50678E-04	2.07687E-01	1.93439E-02
10.10	9.99630E-05	1.91870E-01	1.37902E-03	-4.80878E 01	-9.95554E-04	2.11768E-01	1.93492E-02
10.20	1.01953E-04	1.95792E-01	1.43143E-03	-4.81085E 01	-1.04163E-03	2.15889E-01	1.93544E-02
10.30	1.03962E-04	1.99753E-01	1.48511E-03	-4.81288E 01	-1.08893E-03	2.20049E-01	1.93595E-02
10.40	1.05991E-04	2.03754E-01	1.54007E-03	-4.81487E 01	-1.13746E-03	2.24249E-01	1.93646E-02
10.50	1.08040E-04	2.07795E-01	1.59632E-03	-4.81682E 01	-1.18724E-03	2.28488E-01	1.93696E-02
10.60	1.10108E-04	2.11876E-01	1.65389E-03	-4.81873E 01	-1.23828E-03	2.32767E-01	1.93745E-02
10.70	1.12195E-04	2.15996E-01	1.71279E-03	-4.82060E 01	-1.29060E-03	2.37086E-01	1.93793E-02
10.80	1.14303E-04	2.20155E-01	1.77302E-03	-4.82244E 01	-1.34421E-03	2.41444E-01	1.93840E-02
10.90	1.16430E-04	2.24354E-01	1.83461E-03	-4.82423E 01	-1.39913E-03	2.45842E-01	1.93887E-02
11.00	1.18576E-04	2.28593E-01	1.89757E-03	-4.82600E 01	-1.45536E-03	2.50279E-01	1.93933E-02
11.10	1.20742E-04	2.32872E-01	1.96192E-03	-4.82773E 01	-1.51294E-03	2.54756E-01	1.93978E-02
11.20	1.22928E-04	2.37190E-01	2.02767E-03	-4.82943E 01	-1.57186E-03	2.59273E-01	1.94023E-02
11.30	1.25133E-04	2.41547E-01	2.09483E-03	-4.83110E 01	-1.63215E-03	2.63829E-01	1.94067E-02
11.40	1.27358E-04	2.45945E-01	2.16342E-03	-4.83273E 01	-1.69383E-03	2.68425E-01	1.94110E-02
11.50	1.29602E-04	2.50381E-01	2.23346E-03	-4.83434E 01	-1.75689E-03	2.73060E-01	1.94153E-02
11.60	1.31866E-04	2.54858E-01	2.30495E-03	-4.83591E 01	-1.82137E-03	2.77735E-01	1.94195E-02
11.70	1.34150E-04	2.59374E-01	2.37793E-03	-4.83746E 01	-1.88727E-03	2.82449E-01	1.94236E-02
11.80	1.36453E-04	2.63929E-01	2.45238E-03	-4.83898E 01	-1.95461E-03	2.87203E-01	1.94277E-02
11.90	1.38776E-04	2.68524E-01	2.52835E-03	-4.84047E 01	-2.02341E-03	2.91997E-01	1.94317E-02
12.00	1.41119E-04	2.73159E-01	2.60583E-03	-4.84194E 01	-2.09367E-03	2.96830E-01	1.94357E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=4 \quad A=8 \quad \rho=1.2 A^{1/3} F$							
	$\rho$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
12.10	9.14163E-01	1.11163E 01	1.72866E-01	1.72866E-01	-3.79109E-04	-1.37771E-01	1.20780E 01	3.58543E 02
12.20	9.14161E-01	1.12127E 01	1.76681E-01	1.76681E-01	-3.88631E-04	-1.41386E-01	1.21745E 01	3.59868E 02
12.30	9.14159E-01	1.13091E 01	1.80535E-01	1.80535E-01	-3.97993E-04	-1.45042E-01	1.22710E 01	3.61182E 02
12.40	9.14158E-01	1.14055E 01	1.84430E-01	1.84430E-01	-4.07196E-04	-1.48737E-01	1.23676E 01	3.62486E 02
12.50	9.14156E-01	1.15019E 01	1.88365E-01	1.88365E-01	-4.16250E-04	-1.52473E-01	1.24641E 01	3.63778E 02
12.60	9.14154E-01	1.15983E 01	1.92340E-01	1.92340E-01	-4.25151E-04	-1.56249E-01	1.25607E 01	3.65060E 02
12.70	9.14153E-01	1.16947E 01	1.96355E-01	1.96355E-01	-4.33910E-04	-1.60065E-01	1.26573E 01	3.66330E 02
12.80	9.14151E-01	1.17911E 01	2.00410E-01	2.00410E-01	-4.42527E-04	-1.63922E-01	1.27538E 01	3.67591E 02
12.90	9.14149E-01	1.18875E 01	2.04505E-01	2.04505E-01	-4.51007E-04	-1.67818E-01	1.28504E 01	3.68841E 02
13.00	9.14146E-01	1.19840E 01	2.08641E-01	2.08641E-01	-4.59348E-04	-1.71755E-01	1.29470E 01	3.70081E 02
13.10	9.14144E-01	1.20804E 01	2.12816E-01	2.12816E-01	-4.67556E-04	-1.75732E-01	1.30436E 01	3.71311E 02
13.20	9.14142E-01	1.21768E 01	2.17032E-01	2.17032E-01	-4.75636E-04	-1.79749E-01	1.31402E 01	3.72531E 02
13.30	9.14140E-01	1.22733E 01	2.21288E-01	2.21288E-01	-4.83588E-04	-1.83806E-01	1.32368E 01	3.73742E 02
13.40	9.14138E-01	1.23698E 01	2.25584E-01	2.25584E-01	-4.91420E-04	-1.87904E-01	1.33335E 01	3.74942E 02
13.50	9.14136E-01	1.24663E 01	2.29920E-01	2.29920E-01	-4.99127E-04	-1.92041E-01	1.34301E 01	3.76134E 02
13.60	9.14133E-01	1.25628E 01	2.34297E-01	2.34297E-01	-5.06716E-04	-1.96219E-01	1.35268E 01	3.77316E 02
13.70	9.14131E-01	1.26592E 01	2.38714E-01	2.38714E-01	-5.14187E-04	-2.00437E-01	1.36234E 01	3.78489E 02
13.80	9.14129E-01	1.27558E 01	2.43170E-01	2.43170E-01	-5.21549E-04	-2.04696E-01	1.37201E 01	3.79653E 02
13.90	9.14126E-01	1.28523E 01	2.47667E-01	2.47667E-01	-5.28799E-04	-2.08994E-01	1.38168E 01	3.80808E 02
14.00	9.14124E-01	1.29488E 01	2.52205E-01	2.52205E-01	-5.35933E-04	-2.13333E-01	1.39134E 01	3.81955E 02
14.10	9.14121E-01	1.30453E 01	2.56782E-01	2.56782E-01	-5.42966E-04	-2.17712E-01	1.40101E 01	3.83093E 02
14.20	9.14119E-01	1.31419E 01	2.61400E-01	2.61400E-01	-5.49896E-04	-2.22132E-01	1.41068E 01	3.84221E 02
14.30	9.14116E-01	1.32384E 01	2.66058E-01	2.66058E-01	-5.56721E-04	-2.26592E-01	1.42036E 01	3.85342E 02
14.40	9.14114E-01	1.33350E 01	2.70756E-01	2.70756E-01	-5.63449E-04	-2.31092E-01	1.43003E 01	3.86454E 02
14.50	9.14111E-01	1.34316E 01	2.75495E-01	2.75495E-01	-5.70077E-04	-2.35632E-01	1.43970E 01	3.87559E 02
14.60	9.14109E-01	1.35281E 01	2.80274E-01	2.80274E-01	-5.76604E-04	-2.40212E-01	1.44938E 01	3.88655E 02
14.70	9.14106E-01	1.36247E 01	2.85093E-01	2.85093E-01	-5.83040E-04	-2.44833E-01	1.45905E 01	3.89744E 02
14.80	9.14104E-01	1.37213E 01	2.89952E-01	2.89952E-01	-5.89495E-04	-2.49495E-01	1.46873E 01	3.90824E 02
14.90	9.14101E-01	1.38179E 01	2.94852E-01	2.94852E-01	-5.95636E-04	-2.54196E-01	1.47840E 01	3.91897E 02
15.00	9.14098E-01	1.39146E 01	2.99792E-01	2.99792E-01	-6.01801E-04	-2.58938E-01	1.48808E 01	3.92962E 02
15.10	9.14096E-01	1.40112E 01	3.04772E-01	3.04772E-01	-6.07876E-04	-2.63720E-01	1.49776E 01	3.94020E 02
15.20	9.14093E-01	1.41078E 01	3.09793E-01	3.09793E-01	-6.13869E-04	-2.68543E-01	1.50744E 01	3.95070E 02
15.30	9.14090E-01	1.42045E 01	3.14854E-01	3.14854E-01	-6.19778E-04	-2.73406E-01	1.51712E 01	3.96113E 02
15.40	9.14088E-01	1.43011E 01	3.19955E-01	3.19955E-01	-6.25601E-04	-2.78309E-01	1.52681E 01	3.97149E 02
15.50	9.14085E-01	1.43978E 01	3.25097E-01	3.25097E-01	-6.31346E-04	-2.83253E-01	1.53649E 01	3.98177E 02
15.60	9.14082E-01	1.44945E 01	3.30279E-01	3.30279E-01	-6.37012E-04	-2.88237E-01	1.54617E 01	3.99199E 02
15.70	9.14079E-01	1.45912E 01	3.35501E-01	3.35501E-01	-6.42599E-04	-2.93262E-01	1.55586E 01	4.00214E 02
15.80	9.14076E-01	1.46879E 01	3.40764E-01	3.40764E-01	-6.48112E-04	-2.98327E-01	1.56555E 01	4.01221E 02
15.90	9.14074E-01	1.47846E 01	3.46067E-01	3.46067E-01	-6.53436E-04	-3.03432E-01	1.57523E 01	4.02223E 02
16.00	9.14071E-01	1.48813E 01	3.51410E-01	3.51410E-01	-6.58911E-04	-3.08578E-01	1.58492E 01	4.03217E 02
16.10	9.14068E-01	1.49781E 01	3.56794E-01	3.56794E-01	-6.64199E-04	-3.13764E-01	1.59461E 01	4.04205E 02
16.20	9.14065E-01	1.50748E 01	3.62219E-01	3.62219E-01	-6.69417E-04	-3.18991E-01	1.60430E 01	4.05187E 02
16.30	9.14062E-01	1.51716E 01	3.67684E-01	3.67684E-01	-6.74569E-04	-3.24258E-01	1.61400E 01	4.06161E 02
16.40	9.14060E-01	1.52683E 01	3.73189E-01	3.73189E-01	-6.79651E-04	-3.29566E-01	1.62369E 01	4.07130E 02
16.50	9.14057E-01	1.53651E 01	3.78735E-01	3.78735E-01	-6.84662E-04	-3.34914E-01	1.63338E 01	4.08093E 02
16.60	9.14054E-01	1.54619E 01	3.84321E-01	3.84321E-01	-6.89608E-04	-3.40303E-01	1.64308E 01	4.09050E 02
16.70	9.14051E-01	1.55587E 01	3.89947E-01	3.89947E-01	-6.94493E-04	-3.45732E-01	1.65278E 01	4.10000E 02
16.80	9.14048E-01	1.56555E 01	3.95614E-01	3.95614E-01	-6.99309E-04	-3.51201E-01	1.66247E 01	4.10945E 02
16.90	9.14046E-01	1.57523E 01	4.01322E-01	4.01322E-01	-7.04061E-04	-3.56712E-01	1.67217E 01	4.11884E 02
17.00	9.14043E-01	1.58491E 01	4.07070E-01	4.07070E-01	-7.08755E-04	-3.62262E-01	1.68187E 01	4.12817E 02
17.10	9.14040E-01	1.59460E 01	4.12859E-01	4.12859E-01	-7.13391E-04	-3.67854E-01	1.69158E 01	4.13744E 02
17.20	9.14038E-01	1.60428E 01	4.18688E-01	4.18688E-01	-7.17963E-04	-3.73485E-01	1.70128E 01	4.14666E 02
17.30	9.14035E-01	1.61397E 01	4.24558E-01	4.24558E-01	-7.22482E-04	-3.79158E-01	1.71098E 01	4.15581E 02
17.40	9.14032E-01	1.62366E 01	4.30468E-01	4.30468E-01	-7.26936E-04	-3.84871E-01	1.72069E 01	4.16492E 02
17.50	9.14029E-01	1.63335E 01	4.36419E-01	4.36419E-01	-7.31338E-04	-3.90624E-01	1.73039E 01	4.17397E 02
17.60	9.14026E-01	1.64304E 01	4.42410E-01	4.42410E-01	-7.35683E-04	-3.96419E-01	1.74010E 01	4.18297E 02
17.70	9.14023E-01	1.65273E 01	4.48442E-01	4.48442E-01	-7.39972E-04	-4.02253E-01	1.74981E 01	4.19191E 02
17.80	9.14020E-01	1.66242E 01	4.54514E-01	4.54514E-01	-7.44204E-04	-4.08129E-01	1.75952E 01	4.20081E 02
17.90	9.14018E-01	1.67211E 01	4.60628E-01	4.60628E-01	-7.48386E-04	-4.14045E-01	1.76923E 01	4.20965E 02
18.00	9.14015E-01	1.68181E 01	4.66781E-01	4.66781E-01	-7.52514E-04	-4.20001E-01	1.77894E 01	4.21845E 02

## ELECTRON RADIAL FUNCTIONS

 $Z=4$  $A=8$  $\rho=1.2A^{1/3}F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$
12.10	1.43481E-04	2.77834E-01	2.68484E-03	-4.84338E-01	-2.16542E-03	3.01703E-01	1.94396E-02
12.20	1.45862E-04	2.82548E-01	2.76541E-03	-4.84480E-01	-2.23867E-03	3.06616E-01	1.94434E-02
12.30	1.48264E-04	2.87301E-01	2.84753E-03	-4.84619E-01	-2.31343E-03	3.11567E-01	1.94472E-02
12.40	1.50684E-04	2.92094E-01	2.93123E-03	-4.84756E-01	-2.38972E-03	3.16559E-01	1.94510E-02
12.50	1.53125E-04	2.96927E-01	3.01652E-03	-4.84891E-01	-2.46755E-03	3.21590E-01	1.94547E-02
12.60	1.55585E-04	3.01799E-01	3.10342E-03	-4.85023E-01	-2.54694E-03	3.26661E-01	1.94583E-02
12.70	1.58064E-04	3.06711E-01	3.19195E-03	-4.85153E-01	-2.62790E-03	3.31771E-01	1.94619E-02
12.80	1.60564E-04	3.11662E-01	3.28210E-03	-4.85281E-01	-2.71045E-03	3.36920E-01	1.94655E-02
12.90	1.63082E-04	3.16653E-01	3.37391E-03	-4.85407E-01	-2.79460E-03	3.42110E-01	1.94690E-02
13.00	1.65621E-04	3.21684E-01	3.46739E-03	-4.85531E-01	-2.88036E-03	3.47339E-01	1.94724E-02
13.10	1.68179E-04	3.26754E-01	3.56254E-03	-4.85653E-01	-2.96776E-03	3.52607E-01	1.94758E-02
13.20	1.70756E-04	3.31864E-01	3.65940E-03	-4.85773E-01	-3.05681E-03	3.57915E-01	1.94792E-02
13.30	1.73353E-04	3.37013E-01	3.75796E-03	-4.85891E-01	-3.14751E-03	3.63263E-01	1.94825E-02
13.40	1.75970E-04	3.42202E-01	3.85824E-03	-4.86007E-01	-3.23989E-03	3.68650E-01	1.94858E-02
13.50	1.78606E-04	3.47430E-01	3.96027E-03	-4.86121E-01	-3.33396E-03	3.74076E-01	1.94890E-02
13.60	1.81262E-04	3.52698E-01	4.06405E-03	-4.86234E-01	-3.42974E-03	3.79542E-01	1.94922E-02
13.70	1.83938E-04	3.58005E-01	4.16960E-03	-4.86345E-01	-3.52724E-03	3.85048E-01	1.94953E-02
13.80	1.86633E-04	3.63352E-01	4.27693E-03	-4.86454E-01	-3.62647E-03	3.90593E-01	1.94984E-02
13.90	1.89348E-04	3.68739E-01	4.38606E-03	-4.86561E-01	-3.72745E-03	3.96178E-01	1.95015E-02
14.00	1.92082E-04	3.74165E-01	4.49701E-03	-4.86667E-01	-3.83019E-03	4.01803E-01	1.95045E-02
14.10	1.94836E-04	3.79631E-01	4.60978E-03	-4.86772E-01	-3.93472E-03	4.07467E-01	1.95075E-02
14.20	1.97609E-04	3.85136E-01	4.72440E-03	-4.86875E-01	-4.04103E-03	4.13170E-01	1.95105E-02
14.30	2.00402E-04	3.90681E-01	4.84087E-03	-4.86976E-01	-4.14916E-03	4.18913E-01	1.95134E-02
14.40	2.03215E-04	3.96265E-01	4.95922E-03	-4.87076E-01	-4.25911E-03	4.24696E-01	1.95163E-02
14.50	2.06047E-04	4.01889E-01	5.07945E-03	-4.87174E-01	-4.37089E-03	4.30518E-01	1.95191E-02
14.60	2.08899E-04	4.07553E-01	5.20159E-03	-4.87271E-01	-4.48453E-03	4.36379E-01	1.95219E-02
14.70	2.11771E-04	4.13256E-01	5.32564E-03	-4.87367E-01	-4.60004E-03	4.42280E-01	1.95247E-02
14.80	2.14662E-04	4.18998E-01	5.45162E-03	-4.87461E-01	-4.71743E-03	4.48221E-01	1.95275E-02
14.90	2.17572E-04	4.24780E-01	5.57955E-03	-4.87554E-01	-4.83672E-03	4.54201E-01	1.95302E-02
15.00	2.20503E-04	4.30602E-01	5.70944E-03	-4.87645E-01	-4.95791E-03	4.60221E-01	1.95329E-02
15.10	2.23452E-04	4.36463E-01	5.84131E-03	-4.87736E-01	-5.08104E-03	4.66280E-01	1.95355E-02
15.20	2.26422E-04	4.42364E-01	5.97516E-03	-4.87825E-01	-5.20610E-03	4.72379E-01	1.95381E-02
15.30	2.29411E-04	4.48304E-01	6.11102E-03	-4.87913E-01	-5.33312E-03	4.78517E-01	1.95407E-02
15.40	2.32419E-04	4.54284E-01	6.24890E-03	-4.87999E-01	-5.46212E-03	4.84695E-01	1.95433E-02
15.50	2.35447E-04	4.60303E-01	6.38882E-03	-4.88085E-01	-5.59309E-03	4.90913E-01	1.95458E-02
15.60	2.38495E-04	4.66362E-01	6.53078E-03	-4.88169E-01	-5.72607E-03	4.97169E-01	1.95483E-02
15.70	2.41563E-04	4.72460E-01	6.67481E-03	-4.88252E-01	-5.86106E-03	5.03466E-01	1.95508E-02
15.80	2.44650E-04	4.78598E-01	6.82092E-03	-4.88335E-01	-5.99808E-03	5.09802E-01	1.95532E-02
15.90	2.47756E-04	4.84776E-01	6.96912E-03	-4.88416E-01	-6.13715E-03	5.16177E-01	1.95556E-02
16.00	2.50882E-04	4.90993E-01	7.11943E-03	-4.88496E-01	-6.27827E-03	5.22592E-01	1.95580E-02
16.10	2.54028E-04	4.97249E-01	7.27186E-03	-4.88575E-01	-6.42147E-03	5.29046E-01	1.95604E-02
16.20	2.57193E-04	5.03545E-01	7.42643E-03	-4.88653E-01	-6.56676E-03	5.35540E-01	1.95627E-02
16.30	2.60378E-04	5.09880E-01	7.58316E-03	-4.88730E-01	-6.71415E-03	5.42074E-01	1.95650E-02
16.40	2.63583E-04	5.16255E-01	7.74204E-03	-4.88805E-01	-6.86366E-03	5.48647E-01	1.95673E-02
16.50	2.66807E-04	5.22670E-01	7.90312E-03	-4.88880E-01	-7.01530E-03	5.55259E-01	1.95695E-02
16.60	2.70050E-04	5.29124E-01	8.06638E-03	-4.88954E-01	-7.16908E-03	5.61911E-01	1.95718E-02
16.70	2.73314E-04	5.35617E-01	8.23186E-03	-4.89028E-01	-7.32503E-03	5.68603E-01	1.95740E-02
16.80	2.76596E-04	5.42150E-01	8.39957E-03	-4.89100E-01	-7.48316E-03	5.75333E-01	1.95762E-02
16.90	2.79899E-04	5.48723E-01	8.56951E-03	-4.89171E-01	-7.64348E-03	5.82104E-01	1.95783E-02
17.00	2.83221E-04	5.55335E-01	8.74171E-03	-4.89242E-01	-7.80601E-03	5.88914E-01	1.95805E-02
17.10	2.86563E-04	5.61986E-01	8.91619E-03	-4.89311E-01	-7.97075E-03	5.95763E-01	1.95826E-02
17.20	2.89924E-04	5.68677E-01	9.09294E-03	-4.89380E-01	-8.13774E-03	6.02652E-01	1.95847E-02
17.30	2.93305E-04	5.75408E-01	9.27200E-03	-4.89448E-01	-8.30697E-03	6.09581E-01	1.95867E-02
17.40	2.96705E-04	5.82178E-01	9.45337E-03	-4.89515E-01	-8.47847E-03	6.16548E-01	1.95888E-02
17.50	3.00125E-04	5.88987E-01	9.63707E-03	-4.89581E-01	-8.65224E-03	6.23556E-01	1.95908E-02
17.60	3.03565E-04	5.95836E-01	9.82311E-03	-4.89647E-01	-8.82832E-03	6.30603E-01	1.95928E-02
17.70	3.07024E-04	6.02724E-01	1.00115E-02	-4.89712E-01	-9.00670E-03	6.37689E-01	1.95948E-02
17.80	3.10503E-04	6.09652E-01	1.02023E-02	-4.89776E-01	-9.18741E-03	6.44815E-01	1.95968E-02
17.90	3.14001E-04	6.16620E-01	1.03955E-02	-4.89839E-01	-9.37045E-03	6.51980E-01	1.95987E-02
18.00	3.17519E-04	6.23626E-01	1.05910E-02	-4.89901E-01	-9.55585E-03	6.59185E-01	1.96007E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 4$		$A = 8$		$\rho = 1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	9.14012E-01	1.69151E 01	4.72976E-01	-7.56596E-04	-4.25999E-01	1.78866E 01	4.22718E 02	02
18.20	9.14009E-01	1.70120E 01	4.79211E-01	-7.60623E-04	-4.32037E-01	1.79837E 01	4.23587E 02	02
18.30	9.14006E-01	1.71090E 01	4.85486E-01	-7.64601E-04	-4.38116E-01	1.80809E 01	4.24451E 02	02
18.40	9.14003E-01	1.72060E 01	4.91803E-01	-7.68531E-04	-4.44235E-01	1.81781E 01	4.25311E 02	02
18.50	9.14000E-01	1.73030E 01	4.98159E-01	-7.72411E-04	-4.50395E-01	1.82752E 01	4.26165E 02	02
18.60	9.13998E-01	1.74000E 01	5.04557E-01	-7.76245E-04	-4.56596E-01	1.83725E 01	4.27015E 02	02
18.70	9.13995E-01	1.74971E 01	5.10995E-01	-7.80033E-04	-4.62837E-01	1.84697E 01	4.27860E 02	02
18.80	9.13992E-01	1.75941E 01	5.17474E-01	-7.83774E-04	-4.69119E-01	1.85669E 01	4.28700E 02	02
18.90	9.13989E-01	1.76912E 01	5.23994E-01	-7.87469E-04	-4.75442E-01	1.86641E 01	4.29537E 02	02
19.00	9.13986E-01	1.77882E 01	5.30554E-01	-7.91117E-04	-4.81806E-01	1.87614E 01	4.30369E 02	02
19.10	9.13983E-01	1.78853E 01	5.37155E-01	-7.94723E-04	-4.88210E-01	1.88586E 01	4.31196E 02	02
19.20	9.13981E-01	1.79824E 01	5.43797E-01	-7.98280E-04	-4.94656E-01	1.89559E 01	4.32020E 02	02
19.30	9.13978E-01	1.80795E 01	5.50479E-01	-8.01799E-04	-5.01141E-01	1.90532E 01	4.32839E 02	02
19.40	9.13975E-01	1.81766E 01	5.57203E-01	-8.05277E-04	-5.07668E-01	1.91505E 01	4.33653E 02	02
19.50	9.13972E-01	1.82738E 01	5.63967E-01	-8.08714E-04	-5.14236E-01	1.92478E 01	4.34463E 02	02
19.60	9.13969E-01	1.83709E 01	5.70772E-01	-8.12110E-04	-5.20844E-01	1.93452E 01	4.35269E 02	02
19.70	9.13966E-01	1.84681E 01	5.77617E-01	-8.15465E-04	-5.27494E-01	1.94425E 01	4.36071E 02	02
19.80	9.13964E-01	1.85652E 01	5.84504E-01	-8.18782E-04	-5.34184E-01	1.95399E 01	4.36869E 02	02
19.90	9.13961E-01	1.86624E 01	5.91431E-01	-8.22051E-04	-5.40915E-01	1.96372E 01	4.37664E 02	02
20.00	9.13958E-01	1.87596E 01	5.98399E-01	-8.25291E-04	-5.47687E-01	1.97346E 01	4.38454E 02	02
20.10	9.13955E-01	1.88568E 01	6.05408E-01	-8.28492E-04	-5.54499E-01	1.98320E 01	4.39240E 02	02
20.20	9.13952E-01	1.89541E 01	6.12458E-01	-8.31650E-04	-5.61353E-01	1.99294E 01	4.40023E 02	02
20.30	9.13949E-01	1.90513E 01	6.19549E-01	-8.34774E-04	-5.68247E-01	2.00269E 01	4.40801E 02	02
20.40	9.13947E-01	1.91485E 01	6.26680E-01	-8.37860E-04	-5.75183E-01	2.01243E 01	4.41577E 02	02
20.50	9.13944E-01	1.92458E 01	6.33853E-01	-8.40912E-04	-5.82159E-01	2.02218E 01	4.42348E 02	02
20.60	9.13941E-01	1.93431E 01	6.41066E-01	-8.43928E-04	-5.89177E-01	2.03192E 01	4.43116E 02	02
20.70	9.13938E-01	1.94404E 01	6.48320E-01	-8.46907E-04	-5.96235E-01	2.04167E 01	4.43880E 02	02
20.80	9.13936E-01	1.95377E 01	6.55616E-01	-8.49854E-04	-6.03334E-01	2.05142E 01	4.44641E 02	02
20.90	9.13933E-01	1.96350E 01	6.62952E-01	-8.52765E-04	-6.10475E-01	2.06117E 01	4.45398E 02	02
21.00	9.13930E-01	1.97323E 01	6.70329E-01	-8.55642E-04	-6.17656E-01	2.07093E 01	4.46152E 02	02
21.10	9.13927E-01	1.98297E 01	6.77747E-01	-8.58490E-04	-6.24878E-01	2.08068E 01	4.46902E 02	02
21.20	9.13924E-01	1.99270E 01	6.85206E-01	-8.61300E-04	-6.32141E-01	2.09044E 01	4.47649E 02	02
21.30	9.13922E-01	2.00244E 01	6.92706E-01	-8.64077E-04	-6.39446E-01	2.10019E 01	4.48393E 02	02
21.40	9.13919E-01	2.01218E 01	7.00247E-01	-8.66827E-04	-6.46791E-01	2.10995E 01	4.49133E 02	02
21.50	9.13916E-01	2.02192E 01	7.07829E-01	-8.69545E-04	-6.54178E-01	2.11971E 01	4.49870E 02	02
21.60	9.13913E-01	2.03166E 01	7.15453E-01	-8.72227E-04	-6.61605E-01	2.12947E 01	4.50605E 02	02
21.70	9.13911E-01	2.04140E 01	7.23117E-01	-8.74883E-04	-6.69074E-01	2.13924E 01	4.51335E 02	02
21.80	9.13908E-01	2.05115E 01	7.30822E-01	-8.77507E-04	-6.76584E-01	2.14900E 01	4.52063E 02	02
21.90	9.13905E-01	2.06089E 01	7.38568E-01	-8.80102E-04	-6.84134E-01	2.15877E 01	4.52787E 02	02
22.00	9.13902E-01	2.07064E 01	7.46356E-01	-8.82667E-04	-6.91726E-01	2.16853E 01	4.53509E 02	02
22.10	9.13900E-01	2.08039E 01	7.54184E-01	-8.85202E-04	-6.99359E-01	2.17830E 01	4.54228E 02	02
22.20	9.13897E-01	2.09014E 01	7.62054E-01	-8.87706E-04	-7.07034E-01	2.18807E 01	4.54944E 02	02
22.30	9.13894E-01	2.09989E 01	7.69964E-01	-8.90187E-04	-7.14749E-01	2.19785E 01	4.55656E 02	02
22.40	9.13891E-01	2.10964E 01	7.77916E-01	-8.92638E-04	-7.22506E-01	2.20762E 01	4.56366E 02	02
22.50	9.13889E-01	2.11940E 01	7.85909E-01	-8.95056E-04	-7.30304E-01	2.21739E 01	4.57074E 02	02
22.60	9.13886E-01	2.12915E 01	7.93944E-01	-8.97450E-04	-7.38143E-01	2.22717E 01	4.57779E 02	02
22.70	9.13883E-01	2.13891E 01	8.02019E-01	-8.99817E-04	-7.46023E-01	2.23695E 01	4.58480E 02	02
22.80	9.13881E-01	2.14867E 01	8.10136E-01	-9.02156E-04	-7.53944E-01	2.24673E 01	4.59179E 02	02
22.90	9.13878E-01	2.15843E 01	8.18293E-01	-9.04472E-04	-7.61907E-01	2.25651E 01	4.59875E 02	02
23.00	9.13875E-01	2.16819E 01	8.26492E-01	-9.06761E-04	-7.69911E-01	2.26629E 01	4.60569E 02	02
23.10	9.13873E-01	2.17795E 01	8.34733E-01	-9.09021E-04	-7.77956E-01	2.27608E 01	4.61260E 02	02
23.20	9.13870E-01	2.18772E 01	8.43014E-01	-9.11261E-04	-7.86043E-01	2.28586E 01	4.61948E 02	02
23.30	9.13867E-01	2.19748E 01	8.51337E-01	-9.13470E-04	-7.94171E-01	2.29565E 01	4.62634E 02	02
23.40	9.13865E-01	2.20725E 01	8.59701E-01	-9.15656E-04	-8.02340E-01	2.30544E 01	4.63317E 02	02
23.50	9.13862E-01	2.21702E 01	8.68106E-01	-9.17820E-04	-8.10551E-01	2.31523E 01	4.63998E 02	02
23.60	9.13859E-01	2.22679E 01	8.76553E-01	-9.19960E-04	-8.18803E-01	2.32502E 01	4.64676E 02	02
23.70	9.13857E-01	2.23656E 01	8.85041E-01	-9.22072E-04	-8.27096E-01	2.33482E 01	4.65352E 02	02
23.80	9.13854E-01	2.24634E 01	8.93570E-01	-9.24160E-04	-8.35431E-01	2.34461E 01	4.66026E 02	02
23.90	9.13852E-01	2.25611E 01	9.02141E-01	-9.26227E-04	-8.43807E-01	2.35441E 01	4.66697E 02	02
24.00	9.13849E-01	2.26589E 01	9.10753E-01	-9.28274E-04	-8.52224E-01	2.36421E 01	4.67365E 02	02

## ELECTRON RADIAL FUNCTIONS

 $Z = 4$  $A = 8$  $\rho = 1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	3.21057E-04	6.30673E-01	1.07890E-02	-4.89963 E 01	-9.74363E-03	6.66429E-01	1.96026E-02
18.20	3.24614E-04	6.37759E-01	1.09894E-02	-4.90024E 01	-9.93378E-03	6.73713E-01	1.96045E-02
18.30	3.28190E-04	6.44884E-01	1.11923E-02	-4.90085E 01	-1.01263E-02	6.81036E-01	1.96063E-02
18.40	3.31787E-04	6.52049E-01	1.13976E-02	-4.90144E 01	-1.03213E-02	6.88398E-01	1.96082E-02
18.50	3.35403E-04	6.59253E-01	1.16054E-02	-4.90203E 01	-1.05187E-02	6.95800E-01	1.96100E-02
18.60	3.39038E-04	6.66497E-01	1.18157E-02	-4.90262E 01	-1.07185E-02	7.03242E-01	1.96118E-02
18.70	3.42693E-04	6.73779E-01	1.20285E-02	-4.90319E 01	-1.09208E-02	7.10722E-01	1.96136E-02
18.80	3.46368E-04	6.81102E-01	1.22438E-02	-4.90377E 01	-1.11255E-02	7.18243E-01	1.96154E-02
18.90	3.50062E-04	6.88464E-01	1.24617E-02	-4.90433E 01	-1.13328E-02	7.25803E-01	1.96172E-02
19.00	3.53776E-04	6.95866E-01	1.26821E-02	-4.90489E 01	-1.15425E-02	7.33402E-01	1.96189E-02
19.10	3.57509E-04	7.03307E-01	1.29051E-02	-4.90544E 01	-1.17548E-02	7.41040E-01	1.96206E-02
19.20	3.61262E-04	7.10787E-01	1.31306E-02	-4.90599E 01	-1.19696E-02	7.48719E-01	1.96223E-02
19.30	3.65035E-04	7.18307E-01	1.33587E-02	-4.90653E 01	-1.21869E-02	7.56436E-01	1.96240E-02
19.40	3.68827E-04	7.25866E-01	1.35895E-02	-4.90706E 01	-1.24068E-02	7.64193E-01	1.96257E-02
19.50	3.72639E-04	7.33465E-01	1.38229E-02	-4.90759E 01	-1.26293E-02	7.71990E-01	1.96274E-02
19.60	3.76470E-04	7.41103E-01	1.40589E-02	-4.90811E 01	-1.28543E-02	7.79825E-01	1.96290E-02
19.70	3.80321E-04	7.48781E-01	1.42975E-02	-4.90863E 01	-1.30820E-02	7.87701E-01	1.96307E-02
19.80	3.84192E-04	7.56497E-01	1.45389E-02	-4.90914E 01	-1.33123E-02	7.95615E-01	1.96323E-02
19.90	3.88082E-04	7.64254E-01	1.47829E-02	-4.90965E 01	-1.35452E-02	8.03569E-01	1.96339E-02
20.00	3.91992E-04	7.72050E-01	1.50296E-02	-4.91015E 01	-1.37807E-02	8.11563E-01	1.96355E-02
20.10	3.95921E-04	7.79885E-01	1.52790E-02	-4.91065E 01	-1.40190E-02	8.19596E-01	1.96370E-02
20.20	3.99870E-04	7.87760E-01	1.55312E-02	-4.91114E 01	-1.42599E-02	8.27668E-01	1.96386E-02
20.30	4.03838E-04	7.95674E-01	1.57860E-02	-4.91163E 01	-1.45034E-02	8.35780E-01	1.96401E-02
20.40	4.07826E-04	8.03627E-01	1.60437E-02	-4.91211E 01	-1.47497E-02	8.43931E-01	1.96417E-02
20.50	4.11834E-04	8.11620E-01	1.63041E-02	-4.91258E 01	-1.49988E-02	8.52122E-01	1.96432E-02
20.60	4.15861E-04	8.19653E-01	1.65673E-02	-4.91306E 01	-1.52505E-02	8.60352E-01	1.96447E-02
20.70	4.19908E-04	8.27725E-01	1.68333E-02	-4.91352E 01	-1.55050E-02	8.68621E-01	1.96462E-02
20.80	4.23975E-04	8.35836E-01	1.71021E-02	-4.91399E 01	-1.57623E-02	8.76930E-01	1.96477E-02
20.90	4.28061E-04	8.43986E-01	1.73738E-02	-4.91444E 01	-1.60223E-02	8.85278E-01	1.96491E-02
21.00	4.32166E-04	8.52176E-01	1.76483E-02	-4.91490E 01	-1.62852E-02	8.93666E-01	1.96506E-02
21.10	4.36292E-04	8.60406E-01	1.79256E-02	-4.91535E 01	-1.65508E-02	9.02093E-01	1.96520E-02
21.20	4.40436E-04	8.68674E-01	1.82058E-02	-4.91579E 01	-1.68193E-02	9.10559E-01	1.96534E-02
21.30	4.44601E-04	8.76983E-01	1.84889E-02	-4.91623E 01	-1.70906E-02	9.19065E-01	1.96548E-02
21.40	4.48785E-04	8.85330E-01	1.87749E-02	-4.91667E 01	-1.73648E-02	9.27610E-01	1.96562E-02
21.50	4.52988E-04	8.93717E-01	1.90639E-02	-4.91710E 01	-1.76418E-02	9.36194E-01	1.96576E-02
21.60	4.57211E-04	9.02143E-01	1.93557E-02	-4.91753E 01	-1.79218E-02	9.44818E-01	1.96590E-02
21.70	4.61454E-04	9.10609E-01	1.96505E-02	-4.91795E 01	-1.82046E-02	9.53481E-01	1.96604E-02
21.80	4.65716E-04	9.19114E-01	1.99483E-02	-4.91837E 01	-1.84903E-02	9.62184E-01	1.96617E-02
21.90	4.69998E-04	9.27659E-01	2.02490E-02	-4.91878E 01	-1.87790E-02	9.70926E-01	1.96631E-02
22.00	4.74300E-04	9.36242E-01	2.05528E-02	-4.91919E 01	-1.90706E-02	9.79707E-01	1.96644E-02
22.10	4.78621E-04	9.44866E-01	2.08595E-02	-4.91960E 01	-1.93651E-02	9.88528E-01	1.96657E-02
22.20	4.82962E-04	9.53528E-01	2.11693E-02	-4.92001E 01	-1.96627E-02	9.97388E-01	1.96670E-02
22.30	4.87322E-04	9.62230E-01	2.14821E-02	-4.92041E 01	-1.99632E-02	1.00629E 00	1.96683E-02
22.40	4.91702E-04	9.70971E-01	2.17979E-02	-4.92080E 01	-2.02667E-02	1.01523E 00	1.96696E-02
22.50	4.96101E-04	9.79752E-01	2.21168E-02	-4.92120E 01	-2.05732E-02	1.02420E 00	1.96709E-02
22.60	5.00520E-04	9.88572E-01	2.24388E-02	-4.92158E 01	-2.08828E-02	1.03322E 00	1.96721E-02
22.70	5.04959E-04	9.97431E-01	2.27639E-02	-4.92197E 01	-2.11954E-02	1.04228E 00	1.96734E-02
22.80	5.09417E-04	1.00633E 00	2.30921E-02	-4.92235E 01	-2.15110E-02	1.05137E 00	1.96746E-02
22.90	5.13895E-04	1.01527E 00	2.34234E-02	-4.92273E 01	-2.18298E-02	1.06051E 00	1.96759E-02
23.00	5.18392E-04	1.02425E 00	2.37578E-02	-4.92311E 01	-2.21516E-02	1.06968E 00	1.96771E-02
23.10	5.22909E-04	1.03326E 00	2.40954E-02	-4.92348E 01	-2.24765E-02	1.07890E 00	1.96783E-02
23.20	5.27446E-04	1.04232E 00	2.44362E-02	-4.92385E 01	-2.28045E-02	1.08815E 00	1.96795E-02
23.30	5.32002E-04	1.05141E 00	2.47801E-02	-4.92421E 01	-2.31357E-02	1.09744E 00	1.96807E-02
23.40	5.36578E-04	1.06055E 00	2.51272E-02	-4.92457E 01	-2.34700E-02	1.10678E 00	1.96819E-02
23.50	5.41173E-04	1.06972E 00	2.54776E-02	-4.92493E 01	-2.38075E-02	1.11615E 00	1.96831E-02
23.60	5.45788E-04	1.07894E 00	2.58312E-02	-4.92529E 01	-2.41482E-02	1.12556E 00	1.96842E-02
23.70	5.50423E-04	1.08819E 00	2.61880E-02	-4.92564E 01	-2.44920E-02	1.13501E 00	1.96854E-02
23.80	5.55077E-04	1.09748E 00	2.65481E-02	-4.92599E 01	-2.48391E-02	1.14450E 00	1.96865E-02
23.90	5.59751E-04	1.10681E 00	2.69114E-02	-4.92634E 01	-2.51893E-02	1.15403E 00	1.96877E-02
24.00	5.64444E-04	1.11618E 00	2.72780E-02	-4.92668E 01	-2.55429E-02	1.16359E 00	1.96888E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 4$		$A = 8$		$\rho = 1.2 A^{1/3} F$		
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
24.10	9.13846E-01	2.27567E 01	9.19407E-01	-9.30289E-04	-8.60684E-01	2.37401E 01	4.68032E 02
24.20	9.13844E-01	2.28545E 01	9.28101E-01	-9.32289E-04	-8.69184E-01	2.38381E 01	4.68696E 02
24.30	9.13841E-01	2.29523E 01	9.36838E-01	-9.34263E-04	-8.77726E-01	2.39361E 01	4.69358E 02
24.40	9.13838E-01	2.30501E 01	9.45615E-01	-9.36217E-04	-8.86309E-01	2.40342E 01	4.70018E 02
24.50	9.13836E-01	2.31480E 01	9.54434E-01	-9.38153E-04	-8.94934E-01	2.41323E 01	4.70674E 02
24.60	9.13833E-01	2.32458E 01	9.63295E-01	-9.40056E-04	-9.03600E-01	2.42304E 01	4.71331E 02
24.70	9.13831E-01	2.33437E 01	9.72197E-01	-9.41947E-04	-9.12308E-01	2.43285E 01	4.71984E 02
24.80	9.13828E-01	2.34416E 01	9.81140E-01	-9.43814E-04	-9.21057E-01	2.44266E 01	4.72635E 02
24.90	9.13826E-01	2.35395E 01	9.90125E-01	-9.45657E-04	-9.29848E-01	2.45247E 01	4.73284E 02
25.00	9.13823E-01	2.36375E 01	9.99151E-01	-9.47483E-04	-9.38681E-01	2.46229E 01	4.73931E 02
25.10	9.13820E-01	2.37354E 01	1.00822E 00	-9.49284E-04	-9.47555E-01	2.47210E 01	4.74577E 02
25.20	9.13818E-01	2.38334E 01	1.01733E 00	-9.51068E-04	-9.56470E-01	2.48192E 01	4.75220E 02
25.30	9.13815E-01	2.39313E 01	1.02648E 00	-9.52829E-04	-9.65428E-01	2.49174E 01	4.75862E 02
25.40	9.13813E-01	2.40293E 01	1.03567E 00	-9.54571E-04	-9.74427E-01	2.50156E 01	4.76501E 02
25.50	9.13810E-01	2.41273E 01	1.04491E 00	-9.56301E-04	-9.83467E-01	2.51139E 01	4.77138E 02
25.60	9.13808E-01	2.42254E 01	1.05418E 00	-9.58003E-04	-9.92549E-01	2.52121E 01	4.77773E 02
25.70	9.13805E-01	2.43234E 01	1.06350E 00	-9.59689E-04	-1.00167E 00	2.53104E 01	4.78407E 02
25.80	9.13803E-01	2.44215E 01	1.07286E 00	-9.61354E-04	-1.01084E 00	2.54087E 01	4.79039E 02
25.90	9.13800E-01	2.45195E 01	1.08226E 00	-9.63000E-04	-1.02005E 00	2.55070E 01	4.79669E 02
26.00	9.13798E-01	2.46176E 01	1.09170E 00	-9.64628E-04	-1.02929E 00	2.56053E 01	4.80298E 02
26.10	9.13795E-01	2.47157E 01	1.10119E 00	-9.66238E-04	-1.03859E 00	2.57037E 01	4.80924E 02
26.20	9.13793E-01	2.48139E 01	1.11071E 00	-9.67826E-04	-1.04792E 00	2.58020E 01	4.81549E 02
26.30	9.13790E-01	2.49120E 01	1.12028E 00	-9.69399E-04	-1.05729E 00	2.59004E 01	4.82173E 02
26.40	9.13788E-01	2.50102E 01	1.12989E 00	-9.70956E-04	-1.06671E 00	2.59988E 01	4.82794E 02
26.50	9.13785E-01	2.51083E 01	1.13954E 00	-9.72493E-04	-1.07617E 00	2.60972E 01	4.83413E 02
26.60	9.13783E-01	2.52065E 01	1.14923E 00	-9.74014E-04	-1.08567E 00	2.61957E 01	4.84031E 02
26.70	9.13780E-01	2.53047E 01	1.15897E 00	-9.75514E-04	-1.09521E 00	2.62941E 01	4.84648E 02
26.80	9.13778E-01	2.54030E 01	1.16874E 00	-9.76999E-04	-1.10479E 00	2.63926E 01	4.85263E 02
26.90	9.13775E-01	2.55012E 01	1.17856E 00	-9.78471E-04	-1.11442E 00	2.64911E 01	4.85876E 02
27.00	9.13773E-01	2.55995E 01	1.18842E 00	-9.79918E-04	-1.12408E 00	2.65896E 01	4.86489E 02
27.10	9.13770E-01	2.56977E 01	1.19832E 00	-9.81355E-04	-1.13379E 00	2.66881E 01	4.87098E 02
27.20	9.13768E-01	2.57960E 01	1.20827E 00	-9.82770E-04	-1.14354E 00	2.67866E 01	4.87708E 02
27.30	9.13765E-01	2.58944E 01	1.21825E 00	-9.84172E-04	-1.15334E 00	2.68852E 01	4.88315E 02
27.40	9.13763E-01	2.59927E 01	1.22828E 00	-9.85557E-04	-1.16317E 00	2.69838E 01	4.88921E 02
27.50	9.13761E-01	2.60910E 01	1.23835E 00	-9.86928E-04	-1.17305E 00	2.70824E 01	4.89525E 02
27.60	9.13758E-01	2.61894E 01	1.24846E 00	-9.88281E-04	-1.18297E 00	2.71810E 01	4.90128E 02
27.70	9.13756E-01	2.62878E 01	1.25861E 00	-9.89614E-04	-1.19293E 00	2.72796E 01	4.90730E 02
27.80	9.13753E-01	2.63862E 01	1.26881E 00	-9.90940E-04	-1.20293E 00	2.73783E 01	4.91330E 02
27.90	9.13751E-01	2.64846E 01	1.27905E 00	-9.92243E-04	-1.21297E 00	2.74769E 01	4.91929E 02
28.00	9.13749E-01	2.65830E 01	1.28933E 00	-9.93533E-04	-1.22306E 00	2.75756E 01	4.92527E 02
28.10	9.13746E-01	2.66815E 01	1.29965E 00	-9.94808E-04	-1.23319E 00	2.76743E 01	4.93123E 02
28.20	9.13744E-01	2.67800E 01	1.31001E 00	-9.96072E-04	-1.24336E 00	2.77731E 01	4.93717E 02
28.30	9.13742E-01	2.68785E 01	1.32042E 00	-9.97315E-04	-1.25357E 00	2.78718E 01	4.94312E 02
28.40	9.13739E-01	2.69770E 01	1.33086E 00	-9.98544E-04	-1.26383E 00	2.79706E 01	4.94904E 02
28.50	9.13737E-01	2.70755E 01	1.34135E 00	-9.99759E-04	-1.27413E 00	2.80694E 01	4.95496E 02
28.60	9.13734E-01	2.71741E 01	1.35188E 00	-1.00096E-03	-1.28447E 00	2.81682E 01	4.96086E 02
28.70	9.13732E-01	2.72726E 01	1.36246E 00	-1.00215E-03	-1.29485E 00	2.82670E 01	4.96675E 02
28.80	9.13730E-01	2.73712E 01	1.37307E 00	-1.00332E-03	-1.30527E 00	2.83658E 01	4.97263E 02
28.90	9.13727E-01	2.74698E 01	1.38373E 00	-1.00448E-03	-1.31574E 00	2.84647E 01	4.97849E 02
29.00	9.13725E-01	2.75684E 01	1.39443E 00	-1.00562E-03	-1.32625E 00	2.85636E 01	4.98435E 02
29.10	9.13723E-01	2.76671E 01	1.40517E 00	-1.00676E-03	-1.33680E 00	2.86625E 01	4.99018E 02
29.20	9.13720E-01	2.77657E 01	1.41596E 00	-1.00787E-03	-1.34739E 00	2.87614E 01	4.99603E 02
29.30	9.13718E-01	2.78644E 01	1.42679E 00	-1.00897E-03	-1.35803E 00	2.88603E 01	5.00185E 02
29.40	9.13716E-01	2.79631E 01	1.43766E 00	-1.01006E-03	-1.36870E 00	2.89593E 01	5.00766E 02
29.50	9.13713E-01	2.80618E 01	1.44857E 00	-1.01113E-03	-1.37942E 00	2.90583E 01	5.01346E 02
29.60	9.13711E-01	2.81606E 01	1.45952E 00	-1.01219E-03	-1.39019E 00	2.91573E 01	5.01925E 02
29.70	9.13709E-01	2.82593E 01	1.47052E 00	-1.01324E-03	-1.40099E 00	2.92563E 01	5.02503E 02
29.80	9.13707E-01	2.83581E 01	1.48155E 00	-1.01428E-03	-1.41184E 00	2.93553E 01	5.03080E 02
29.90	9.13704E-01	2.84569E 01	1.49263E 00	-1.01530E-03	-1.42273E 00	2.94544E 01	5.03657E 02
30.00	9.13702E-01	2.85557E 01	1.50376E 00	-1.01631E-03	-1.43366E 00	2.95535E 01	5.04232E 02

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=4$		$A=8$		$\rho=1.2 A^{1/3} F$		Positron	
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$		
24.10	5.69157E-04	1.12559E 00	2.76480E-02	-4.92702E 01	-2.58996E-02	1.17320E 00	1.96899E-02		
24.20	5.73889E-04	1.13504E 00	2.80212E-02	-4.92736E 01	-2.62597E-02	1.18285E 00	1.96911E-02		
24.30	5.78641E-04	1.14453E 00	2.83978E-02	-4.92769E 01	-2.66230E-02	1.19253E 00	1.96922E-02		
24.40	5.83413E-04	1.15406E 00	2.87777E-02	-4.92802E 01	-2.69896E-02	1.20226E 00	1.96933E-02		
24.50	5.88204E-04	1.16362E 00	2.91609E-02	-4.92835E 01	-2.73595E-02	1.21202E 00	1.96943E-02		
24.60	5.93015E-04	1.17323E 00	2.95476E-02	-4.92868E 01	-2.77327E-02	1.22183E 00	1.96954E-02		
24.70	5.97845E-04	1.18288E 00	2.99376E-02	-4.92900E 01	-2.81092E-02	1.23167E 00	1.96965E-02		
24.80	6.02695E-04	1.19256E 00	3.03310E-02	-4.92932E 01	-2.84892E-02	1.24155E 00	1.96976E-02		
24.90	6.07565E-04	1.20228E 00	3.07278E-02	-4.92964E 01	-2.88724E-02	1.25147E 00	1.96986E-02		
25.00	6.12454E-04	1.21205E 00	3.11281E-02	-4.92996E 01	-2.92591E-02	1.26143E 00	1.96997E-02		
25.10	6.17363E-04	1.22185E 00	3.15318E-02	-4.93027E 01	-2.96492E-02	1.27143E 00	1.97007E-02		
25.20	6.22291E-04	1.23169E 00	3.19390E-02	-4.93058E 01	-3.00426E-02	1.28147E 00	1.97017E-02		
25.30	6.27239E-04	1.24157E 00	3.23496E-02	-4.93089E 01	-3.04395E-02	1.29155E 00	1.97028E-02		
25.40	6.32207E-04	1.25149E 00	3.27638E-02	-4.93120E 01	-3.08398E-02	1.30167E 00	1.97038E-02		
25.50	6.37194E-04	1.26145E 00	3.31814E-02	-4.93150E 01	-3.12436E-02	1.31183E 00	1.97048E-02		
25.60	6.42200E-04	1.27145E 00	3.36025E-02	-4.93180E 01	-3.16509E-02	1.32202E 00	1.97058E-02		
25.70	6.47227E-04	1.28149E 00	3.40272E-02	-4.93210E 01	-3.20616E-02	1.33226E 00	1.97068E-02		
25.80	6.52272E-04	1.29157E 00	3.44555E-02	-4.93239E 01	-3.24759E-02	1.34253E 00	1.97078E-02		
25.90	6.57338E-04	1.30169E 00	3.48873E-02	-4.93269E 01	-3.28936E-02	1.35285E 00	1.97087E-02		
26.00	6.62423E-04	1.31184E 00	3.53226E-02	-4.93298E 01	-3.33149E-02	1.36320E 00	1.97097E-02		
26.10	6.67528E-04	1.32204E 00	3.57616E-02	-4.93327E 01	-3.37397E-02	1.37359E 00	1.97107E-02		
26.20	6.72652E-04	1.33227E 00	3.62042E-02	-4.93355E 01	-3.41681E-02	1.38402E 00	1.97116E-02		
26.30	6.77796E-04	1.34255E 00	3.66504E-02	-4.93384E 01	-3.46000E-02	1.39449E 00	1.97126E-02		
26.40	6.82959E-04	1.35286E 00	3.71002E-02	-4.93412E 01	-3.50356E-02	1.40500E 00	1.97135E-02		
26.50	6.88142E-04	1.36321E 00	3.75536E-02	-4.93440E 01	-3.54747E-02	1.41555E 00	1.97145E-02		
26.60	6.93344E-04	1.37360E 00	3.80108E-02	-4.93467E 01	-3.59175E-02	1.42614E 00	1.97154E-02		
26.70	6.98567E-04	1.38403E 00	3.84716E-02	-4.93495E 01	-3.63638E-02	1.43677E 00	1.97163E-02		
26.80	7.03808E-04	1.39450E 00	3.89361E-02	-4.93522E 01	-3.68139E-02	1.44744E 00	1.97172E-02		
26.90	7.09070E-04	1.40501E 00	3.94043E-02	-4.93549E 01	-3.72675E-02	1.45814E 00	1.97182E-02		
27.00	7.14350E-04	1.41556E 00	3.98763E-02	-4.93576E 01	-3.77249E-02	1.46889E 00	1.97191E-02		
27.10	7.19651E-04	1.42615E 00	4.03520E-02	-4.93603E 01	-3.81859E-02	1.47967E 00	1.97200E-02		
27.20	7.24971E-04	1.43677E 00	4.08314E-02	-4.93630E 01	-3.86507E-02	1.49049E 00	1.97208E-02		
27.30	7.30311E-04	1.44744E 00	4.13146E-02	-4.93656E 01	-3.91191E-02	1.50136E 00	1.97217E-02		
27.40	7.35670E-04	1.45814E 00	4.18015E-02	-4.93682E 01	-3.95913E-02	1.51226E 00	1.97226E-02		
27.50	7.41049E-04	1.46889E 00	4.22923E-02	-4.93708E 01	-4.00673E-02	1.52320E 00	1.97235E-02		
27.60	7.46447E-04	1.47967E 00	4.27869E-02	-4.93734E 01	-4.05470E-02	1.53418E 00	1.97244E-02		
27.70	7.51865E-04	1.49049E 00	4.32853E-02	-4.93759E 01	-4.10305E-02	1.54520E 00	1.97252E-02		
27.80	7.57303E-04	1.50135E 00	4.37875E-02	-4.93785E 01	-4.15177E-02	1.55626E 00	1.97261E-02		
27.90	7.62760E-04	1.51225E 00	4.42936E-02	-4.93810E 01	-4.20088E-02	1.56736E 00	1.97269E-02		
28.00	7.68237E-04	1.52320E 00	4.48036E-02	-4.93835E 01	-4.25037E-02	1.57849E 00	1.97278E-02		
28.10	7.73733E-04	1.53417E 00	4.53175E-02	-4.93859E 01	-4.30024E-02	1.58967E 00	1.97286E-02		
28.20	7.79249E-04	1.54519E 00	4.58352E-02	-4.93884E 01	-4.35050E-02	1.60088E 00	1.97295E-02		
28.30	7.84784E-04	1.55625E 00	4.63569E-02	-4.93908E 01	-4.40114E-02	1.61214E 00	1.97303E-02		
28.40	7.90340E-04	1.56735E 00	4.68825E-02	-4.93933E 01	-4.45218E-02	1.62343E 00	1.97311E-02		
28.50	7.95914E-04	1.57848E 00	4.74120E-02	-4.93957E 01	-4.50360E-02	1.63476E 00	1.97319E-02		
28.60	8.01509E-04	1.58966E 00	4.79455E-02	-4.93981E 01	-4.55541E-02	1.64614E 00	1.97327E-02		
28.70	8.07123E-04	1.60087E 00	4.84829E-02	-4.94004E 01	-4.60761E-02	1.65755E 00	1.97335E-02		
28.80	8.12756E-04	1.61212E 00	4.90244E-02	-4.94028E 01	-4.66021E-02	1.66900E 00	1.97343E-02		
28.90	8.18409E-04	1.62342E 00	4.95698E-02	-4.94051E 01	-4.71320E-02	1.68049E 00	1.97351E-02		
29.00	8.24082E-04	1.63475E 00	5.01193E-02	-4.94075E 01	-4.76659E-02	1.69201E 00	1.97359E-02		
29.10	8.29774E-04	1.64612E 00	5.06727E-02	-4.94098E 01	-4.82038E-02	1.70358E 00	1.97367E-02		
29.20	8.35486E-04	1.65753E 00	5.12303E-02	-4.94120E 01	-4.87457E-02	1.71519E 00	1.97375E-02		
29.30	8.41217E-04	1.66898E 00	5.17918E-02	-4.94143E 01	-4.92915E-02	1.72683E 00	1.97383E-02		
29.40	8.46968E-04	1.68046E 00	5.23575E-02	-4.94166E 01	-4.98414E-02	1.73852E 00	1.97390E-02		
29.50	8.52739E-04	1.69199E 00	5.29272E-02	-4.94188E 01	-5.03954E-02	1.75024E 00	1.97398E-02		
29.60	8.58529E-04	1.70356E 00	5.35011E-02	-4.94210E 01	-5.09534E-02	1.76200E 00	1.97406E-02		
29.70	8.64338E-04	1.71516E 00	5.40790E-02	-4.94232E 01	-5.15154E-02	1.77381E 00	1.97413E-02		
29.80	8.70168E-04	1.72681E 00	5.46611E-02	-4.94254E 01	-5.20816E-02	1.78565E 00	1.97421E-02		
29.90	8.76017E-04	1.73849E 00	5.52474E-02	-4.94276E 01	-5.26518E-02	1.79753E 00	1.97428E-02		
30.00	8.81885E-04	1.75021E 00	5.58378E-02	-4.94298E 01	-5.32261E-02	1.80944E 00	1.97436E-02		



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=4$		$A=8$		$\rho=1.2 A^{1/3} F$		
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
30.10	9.13700E-01	2.86545E 01	1.51492E 00	-1.01731E-03	-1.44463E 00	2.96526E 01	5.04806E 02
30.20	9.13697E-01	2.87534E 01	1.52613E 00	-1.01829E-03	-1.45565E 00	2.97517E 01	5.05380E 02
30.30	9.13695E-01	2.88522E 01	1.53738E 00	-1.01926E-03	-1.46671E 00	2.98508E 01	5.05952E 02
30.40	9.13693E-01	2.89511E 01	1.54867E 00	-1.02022E-03	-1.47781E 00	2.99500E 01	5.06524E 02
30.50	9.13691E-01	2.90500E 01	1.56001E 00	-1.02117E-03	-1.48895E 00	3.00491E 01	5.07095E 02
30.60	9.13689E-01	2.91489E 01	1.57139E 00	-1.02210E-03	-1.50014E 00	3.01483E 01	5.07665E 02
30.70	9.13686E-01	2.92479E 01	1.58281E 00	-1.02302E-03	-1.51137E 00	3.02476E 01	5.08233E 02
30.80	9.13684E-01	2.93468E 01	1.59427E 00	-1.02394E-03	-1.52264E 00	3.03468E 01	5.08801E 02
30.90	9.13682E-01	2.94458E 01	1.60577E 00	-1.02484E-03	-1.53396E 00	3.04461E 01	5.09369E 02
31.00	9.13680E-01	2.95448E 01	1.61732E 00	-1.02572E-03	-1.54531E 00	3.05453E 01	5.09936E 02
31.10	9.13677E-01	2.96439E 01	1.62891E 00	-1.02659E-03	-1.55671E 00	3.06446E 01	5.10502E 02
31.20	9.13675E-01	2.97429E 01	1.64054E 00	-1.02746E-03	-1.56816E 00	3.07440E 01	5.11066E 02
31.30	9.13673E-01	2.98420E 01	1.65222E 00	-1.02831E-03	-1.57964E 00	3.08433E 01	5.11631E 02
31.40	9.13671E-01	2.99411E 01	1.66394E 00	-1.02915E-03	-1.59117E 00	3.09427E 01	5.12195E 02
31.50	9.13668E-01	3.00402E 01	1.67570E 00	-1.02998E-03	-1.60274E 00	3.10421E 01	5.12757E 02
31.60	9.13666E-01	3.01393E 01	1.68750E 00	-1.03079E-03	-1.61435E 00	3.11415E 01	5.13320E 02
31.70	9.13664E-01	3.02384E 01	1.69935E 00	-1.03160E-03	-1.62601E 00	3.12409E 01	5.13882E 02
31.80	9.13662E-01	3.03376E 01	1.71123E 00	-1.03239E-03	-1.63771E 00	3.13403E 01	5.14443E 02
31.90	9.13660E-01	3.04368E 01	1.72317E 00	-1.03318E-03	-1.64945E 00	3.14398E 01	5.15002E 02
32.00	9.13657E-01	3.05360E 01	1.73514E 00	-1.03395E-03	-1.66123E 00	3.15393E 01	5.15561E 02
32.10	9.13655E-01	3.06352E 01	1.74716E 00	-1.03471E-03	-1.67306E 00	3.16388E 01	5.16120E 02
32.20	9.13653E-01	3.07345E 01	1.75922E 00	-1.03546E-03	-1.68493E 00	3.17384E 01	5.16679E 02
32.30	9.13651E-01	3.08337E 01	1.77132E 00	-1.03620E-03	-1.69684E 00	3.18379E 01	5.17236E 02
32.40	9.13649E-01	3.09330E 01	1.78346E 00	-1.03693E-03	-1.70880E 00	3.19375E 01	5.17794E 02
32.50	9.13647E-01	3.10323E 01	1.79565E 00	-1.03765E-03	-1.72080E 00	3.20371E 01	5.18350E 02
32.60	9.13645E-01	3.11317E 01	1.80788E 00	-1.03836E-03	-1.73284E 00	3.21367E 01	5.18906E 02
32.70	9.13643E-01	3.12310E 01	1.82016E 00	-1.03906E-03	-1.74492E 00	3.22363E 01	5.19462E 02
32.80	9.13640E-01	3.13304E 01	1.83247E 00	-1.03974E-03	-1.75705E 00	3.23360E 01	5.20018E 02
32.90	9.13638E-01	3.14298E 01	1.84483E 00	-1.04042E-03	-1.76922E 00	3.24357E 01	5.20572E 02
33.00	9.13636E-01	3.15292E 01	1.85723E 00	-1.04108E-03	-1.78143E 00	3.25354E 01	5.21127E 02
33.10	9.13634E-01	3.16286E 01	1.86968E 00	-1.04174E-03	-1.79369E 00	3.26351E 01	5.21679E 02
33.20	9.13632E-01	3.17281E 01	1.88217E 00	-1.04239E-03	-1.80599E 00	3.27349E 01	5.22232E 02
33.30	9.13630E-01	3.18276E 01	1.89470E 00	-1.04302E-03	-1.81833E 00	3.28347E 01	5.22786E 02
33.40	9.13628E-01	3.19271E 01	1.90727E 00	-1.04365E-03	-1.83072E 00	3.29345E 01	5.23337E 02
33.50	9.13626E-01	3.20266E 01	1.91989E 00	-1.04427E-03	-1.84315E 00	3.30343E 01	5.23888E 02
33.60	9.13623E-01	3.21261E 01	1.93255E 00	-1.04488E-03	-1.85562E 00	3.31341E 01	5.24439E 02
33.70	9.13621E-01	3.22257E 01	1.94526E 00	-1.04548E-03	-1.86813E 00	3.32340E 01	5.24990E 02
33.80	9.13619E-01	3.23253E 01	1.95800E 00	-1.04606E-03	-1.88069E 00	3.33339E 01	5.25541E 02
33.90	9.13617E-01	3.24249E 01	1.97079E 00	-1.04664E-03	-1.89329E 00	3.34338E 01	5.26091E 02
34.00	9.13615E-01	3.25245E 01	1.98363E 00	-1.04721E-03	-1.90594E 00	3.35337E 01	5.26640E 02
34.10	9.13613E-01	3.26242E 01	1.99650E 00	-1.04777E-03	-1.91863E 00	3.36337E 01	5.27189E 02
34.20	9.13611E-01	3.27238E 01	2.00942E 00	-1.04832E-03	-1.93136E 00	3.37336E 01	5.27739E 02
34.30	9.13609E-01	3.28235E 01	2.02238E 00	-1.04886E-03	-1.94413E 00	3.38336E 01	5.28288E 02
34.40	9.13607E-01	3.29233E 01	2.03539E 00	-1.04939E-03	-1.95695E 00	3.39337E 01	5.28837E 02
34.50	9.13605E-01	3.30230E 01	2.04844E 00	-1.04991E-03	-1.96981E 00	3.40337E 01	5.29385E 02
34.60	9.13603E-01	3.31227E 01	2.06153E 00	-1.05043E-03	-1.98271E 00	3.41338E 01	5.29933E 02
34.70	9.13601E-01	3.32225E 01	2.07467E 00	-1.05093E-03	-1.99566E 00	3.42339E 01	5.30481E 02
34.80	9.13599E-01	3.33223E 01	2.08785E 00	-1.05143E-03	-2.00865E 00	3.43340E 01	5.31027E 02
34.90	9.13597E-01	3.34222E 01	2.10107E 00	-1.05191E-03	-2.02169E 00	3.44341E 01	5.31574E 02
35.00	9.13595E-01	3.35220E 01	2.11433E 00	-1.05239E-03	-2.03477E 00	3.45343E 01	5.32121E 02
35.10	9.13593E-01	3.36219E 01	2.12764E 00	-1.05286E-03	-2.04789E 00	3.46345E 01	5.32668E 02
35.20	9.13591E-01	3.37218E 01	2.14100E 00	-1.05332E-03	-2.06105E 00	3.47347E 01	5.33214E 02
35.30	9.13589E-01	3.38217E 01	2.15439E 00	-1.05377E-03	-2.07426E 00	3.48349E 01	5.33760E 02
35.40	9.13587E-01	3.39216E 01	2.16783E 00	-1.05421E-03	-2.08751E 00	3.49351E 01	5.34305E 02
35.50	9.13585E-01	3.40216E 01	2.18131E 00	-1.05464E-03	-2.10081E 00	3.50354E 01	5.34852E 02
35.60	9.13583E-01	3.41216E 01	2.19484E 00	-1.05507E-03	-2.11415E 00	3.51357E 01	5.35397E 02
35.70	9.13581E-01	3.42216E 01	2.20841E 00	-1.05549E-03	-2.12753E 00	3.52360E 01	5.35942E 02
35.80	9.13579E-01	3.43216E 01	2.22202E 00	-1.05590E-03	-2.14096E 00	3.53364E 01	5.36486E 02
35.90	9.13577E-01	3.44217E 01	2.23568E 00	-1.05630E-03	-2.15443E 00	3.54368E 01	5.37031E 02
36.00	9.13575E-01	3.45217E 01	2.24938E 00	-1.05669E-03	-2.16794E 00	3.55372E 01	5.37577E 02

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=4$		$A=8$		$\rho=1.2A^{1/3}F$		Positron	
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$		
30.10	8.87774E-04	1.76197E 00	5.64324E-02	-4.94319E 01	-5.38046E-02	1.82140E 00	1.97443E-02		
30.20	8.93681E-04	1.77377E 00	5.70311E-02	-4.94341E 01	-5.43873E-02	1.83340E 00	1.97450E-02		
30.30	8.99608E-04	1.78561E 00	5.76341E-02	-4.94362E 01	-5.49740E-02	1.84544E 00	1.97458E-02		
30.40	9.05555E-04	1.79749E 00	5.82413E-02	-4.94383E 01	-5.55649E-02	1.85751E 00	1.97465E-02		
30.50	9.11522E-04	1.80941E 00	5.88527E-02	-4.94404E 01	-5.61601E-02	1.86963E 00	1.97472E-02		
30.60	9.17508E-04	1.82137E 00	5.94683E-02	-4.94425E 01	-5.67594E-02	1.88178E 00	1.97479E-02		
30.70	9.23513E-04	1.83336E 00	6.00883E-02	-4.94445E 01	-5.73629E-02	1.89397E 00	1.97486E-02		
30.80	9.29538E-04	1.84540E 00	6.07125E-02	-4.94466E 01	-5.79707E-02	1.90620E 00	1.97493E-02		
30.90	9.35583E-04	1.85747E 00	6.13409E-02	-4.94486E 01	-5.85827E-02	1.91847E 00	1.97500E-02		
31.00	9.41648E-04	1.86958E 00	6.19737E-02	-4.94506E 01	-5.91989E-02	1.93078E 00	1.97507E-02		
31.10	9.47731E-04	1.88173E 00	6.26109E-02	-4.94526E 01	-5.98195E-02	1.94313E 00	1.97514E-02		
31.20	9.53835E-04	1.89392E 00	6.32523E-02	-4.94546E 01	-6.04443E-02	1.95552E 00	1.97521E-02		
31.30	9.59958E-04	1.90615E 00	6.38981E-02	-4.94566E 01	-6.10734E-02	1.96795E 00	1.97528E-02		
31.40	9.66101E-04	1.91842E 00	6.45482E-02	-4.94586E 01	-6.17068E-02	1.98041E 00	1.97535E-02		
31.50	9.72263E-04	1.93073E 00	6.52028E-02	-4.94606E 01	-6.23446E-02	1.99291E 00	1.97542E-02		
31.60	9.78445E-04	1.94308E 00	6.58617E-02	-4.94625E 01	-6.29867E-02	2.00546E 00	1.97548E-02		
31.70	9.84646E-04	1.95546E 00	6.65251E-02	-4.94644E 01	-6.36331E-02	2.01804E 00	1.97555E-02		
31.80	9.90867E-04	1.96789E 00	6.71928E-02	-4.94664E 01	-6.42839E-02	2.03066E 00	1.97562E-02		
31.90	9.97108E-04	1.98035E 00	6.78650E-02	-4.94683E 01	-6.49392E-02	2.04332E 00	1.97568E-02		
32.00	1.00337E-03	1.99286E 00	6.85417E-02	-4.94702E 01	-6.55988E-02	2.05602E 00	1.97575E-02		
32.10	1.00965E-03	2.00540E 00	6.92228E-02	-4.94720E 01	-6.62628E-02	2.06876E 00	1.97581E-02		
32.20	1.01595E-03	2.01798E 00	6.99083E-02	-4.94739E 01	-6.69313E-02	2.08154E 00	1.97588E-02		
32.30	1.02227E-03	2.03060E 00	7.05984E-02	-4.94758E 01	-6.76042E-02	2.09435E 00	1.97594E-02		
32.40	1.02860E-03	2.04326E 00	7.12930E-02	-4.94776E 01	-6.82815E-02	2.10721E 00	1.97601E-02		
32.50	1.03496E-03	2.05595E 00	7.19921E-02	-4.94794E 01	-6.89634E-02	2.12010E 00	1.97607E-02		
32.60	1.04134E-03	2.06869E 00	7.26958E-02	-4.94813E 01	-6.96497E-02	2.13304E 00	1.97613E-02		
32.70	1.04774E-03	2.08147E 00	7.34040E-02	-4.94831E 01	-7.03406E-02	2.14601E 00	1.97620E-02		
32.80	1.05415E-03	2.09428E 00	7.41168E-02	-4.94849E 01	-7.10359E-02	2.15902E 00	1.97626E-02		
32.90	1.06059E-03	2.10713E 00	7.48341E-02	-4.94867E 01	-7.17358E-02	2.17207E 00	1.97632E-02		
33.00	1.06705E-03	2.12003E 00	7.55561E-02	-4.94885E 01	-7.24402E-02	2.18516E 00	1.97638E-02		
33.10	1.07352E-03	2.13296E 00	7.62826E-02	-4.94902E 01	-7.31492E-02	2.19829E 00	1.97644E-02		
33.20	1.08002E-03	2.14593E 00	7.70138E-02	-4.94920E 01	-7.38628E-02	2.21145E 00	1.97651E-02		
33.30	1.08653E-03	2.15894E 00	7.77496E-02	-4.94937E 01	-7.45810E-02	2.22466E 00	1.97657E-02		
33.40	1.09307E-03	2.17199E 00	7.84901E-02	-4.94955E 01	-7.53037E-02	2.23790E 00	1.97663E-02		
33.50	1.09962E-03	2.18507E 00	7.92352E-02	-4.94972E 01	-7.60311E-02	2.25119E 00	1.97669E-02		
33.60	1.10619E-03	2.19820E 00	7.99850E-02	-4.94989E 01	-7.67631E-02	2.26451E 00	1.97675E-02		
33.70	1.11279E-03	2.21136E 00	8.07396E-02	-4.95006E 01	-7.74998E-02	2.27787E 00	1.97681E-02		
33.80	1.11940E-03	2.22457E 00	8.14988E-02	-4.95023E 01	-7.82411E-02	2.29127E 00	1.97687E-02		
33.90	1.12603E-03	2.23781E 00	8.22627E-02	-4.95040E 01	-7.89871E-02	2.30471E 00	1.97692E-02		
34.00	1.13268E-03	2.25109E 00	8.30314E-02	-4.95056E 01	-7.97378E-02	2.31819E 00	1.97698E-02		
34.10	1.13936E-03	2.26441E 00	8.38049E-02	-4.95073E 01	-8.04932E-02	2.33170E 00	1.97704E-02		
34.20	1.14605E-03	2.27777E 00	8.45831E-02	-4.95090E 01	-8.12533E-02	2.34526E 00	1.97710E-02		
34.30	1.15276E-03	2.29117E 00	8.53661E-02	-4.95106E 01	-8.20182E-02	2.35885E 00	1.97716E-02		
34.40	1.15949E-03	2.30461E 00	8.61539E-02	-4.95122E 01	-8.27878E-02	2.37249E 00	1.97721E-02		
34.50	1.16624E-03	2.31808E 00	8.69465E-02	-4.95139E 01	-8.35622E-02	2.38616E 00	1.97727E-02		
34.60	1.17301E-03	2.33160E 00	8.77439E-02	-4.95155E 01	-8.43413E-02	2.39987E 00	1.97733E-02		
34.70	1.17980E-03	2.34515E 00	8.85462E-02	-4.95171E 01	-8.51253E-02	2.41362E 00	1.97738E-02		
34.80	1.18661E-03	2.35874E 00	8.93534E-02	-4.95187E 01	-8.59140E-02	2.42741E 00	1.97744E-02		
34.90	1.19343E-03	2.37237E 00	9.01654E-02	-4.95202E 01	-8.67076E-02	2.44124E 00	1.97749E-02		
35.00	1.20028E-03	2.38605E 00	9.09823E-02	-4.95218E 01	-8.75060E-02	2.45510E 00	1.97755E-02		
35.10	1.20715E-03	2.39975E 00	9.18041E-02	-4.95234E 01	-8.83093E-02	2.46901E 00	1.97761E-02		
35.20	1.21404E-03	2.41350E 00	9.26307E-02	-4.95249E 01	-8.91174E-02	2.48295E 00	1.97766E-02		
35.30	1.22094E-03	2.42729E 00	9.34624E-02	-4.95265E 01	-8.99304E-02	2.49693E 00	1.97771E-02		
35.40	1.22787E-03	2.44111E 00	9.42990E-02	-4.95280E 01	-9.07483E-02	2.51096E 00	1.97777E-02		
35.50	1.23481E-03	2.45498E 00	9.51405E-02	-4.95296E 01	-9.15711E-02	2.52502E 00	1.97782E-02		
35.60	1.24178E-03	2.46888E 00	9.59870E-02	-4.95311E 01	-9.23988E-02	2.53912E 00	1.97788E-02		
35.70	1.24876E-03	2.48282E 00	9.68385E-02	-4.95326E 01	-9.32315E-02	2.55325E 00	1.97793E-02		
35.80	1.25577E-03	2.49680E 00	9.76950E-02	-4.95341E 01	-9.40691E-02	2.56743E 00	1.97798E-02		
35.90	1.26279E-03	2.51082E 00	9.85565E-02	-4.95356E 01	-9.49117E-02	2.58165E 00	1.97803E-02		
36.00	1.26984E-03	2.52488E 00	9.94231E-02	-4.95371E 01	-9.57593E-02	2.59590E 00	1.97809E-02		



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=4$ $A=8$ $\rho=1.2A^{1/3}F$							
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
36.10	9.13573E-01	3.46219E 01	2.26313E 00	-1.05707E-03	-2.18150E 00	3.56376E 01	5.38123E 02	
36.20	9.13571E-01	3.47220E 01	2.27692E 00	-1.05744E-03	-2.19510E 00	3.57387E 01	5.38667E 02	
36.30	9.13569E-01	3.48221E 01	2.29075E 00	-1.05781E-03	-2.20875E 00	3.58385E 01	5.39211E 02	
36.40	9.13567E-01	3.49223E 01	2.30462E 00	-1.05817E-03	-2.22244E 00	3.59390E 01	5.39755E 02	
36.50	9.13565E-01	3.50225E 01	2.31854E 00	-1.05852E-03	-2.23617E 00	3.60395E 01	5.40300E 02	
36.60	9.13563E-01	3.51227E 01	2.33250E 00	-1.05886E-03	-2.24995E 00	3.61401E 01	5.40845E 02	
36.70	9.13561E-01	3.52229E 01	2.34651E 00	-1.05920E-03	-2.26377E 00	3.62406E 01	5.41389E 02	
36.80	9.13559E-01	3.53232E 01	2.36056E 00	-1.05952E-03	-2.27763E 00	3.63412E 01	5.41933E 02	
36.90	9.13557E-01	3.54235E 01	2.37465E 00	-1.05984E-03	-2.29154E 00	3.64418E 01	5.42477E 02	
37.00	9.13555E-01	3.55238E 01	2.38879E 00	-1.06015E-03	-2.30549E 00	3.65425E 01	5.43023E 02	
37.10	9.13553E-01	3.56241E 01	2.40297E 00	-1.06045E-03	-2.31949E 00	3.66431E 01	5.43566E 02	
37.20	9.13551E-01	3.57245E 01	2.41720E 00	-1.06075E-03	-2.33353E 00	3.67438E 01	5.44111E 02	
37.30	9.13549E-01	3.58249E 01	2.43147E 00	-1.06104E-03	-2.34761E 00	3.68445E 01	5.44654E 02	
37.40	9.13547E-01	3.59253E 01	2.44578E 00	-1.06132E-03	-2.36174E 00	3.69453E 01	5.45198E 02	
37.50	9.13545E-01	3.60257E 01	2.46014E 00	-1.06159E-03	-2.37591E 00	3.70460E 01	5.45743E 02	
37.60	9.13544E-01	3.61262E 01	2.47454E 00	-1.06186E-03	-2.39013E 00	3.71468E 01	5.46288E 02	
37.70	9.13542E-01	3.62266E 01	2.48899E 00	-1.06212E-03	-2.40439E 00	3.72476E 01	5.46830E 02	
37.80	9.13540E-01	3.63271E 01	2.50348E 00	-1.06237E-03	-2.41869E 00	3.73485E 01	5.47375E 02	
37.90	9.13538E-01	3.64277E 01	2.51801E 00	-1.06261E-03	-2.43304E 00	3.74493E 01	5.47920E 02	
38.00	9.13536E-01	3.65282E 01	2.53259E 00	-1.06284E-03	-2.44743E 00	3.75502E 01	5.48465E 02	
38.10	9.13534E-01	3.66288E 01	2.54721E 00	-1.06307E-03	-2.46187E 00	3.76512E 01	5.49010E 02	
38.20	9.13532E-01	3.67294E 01	2.56187E 00	-1.06329E-03	-2.47635E 00	3.77521E 01	5.49555E 02	
38.30	9.13530E-01	3.68300E 01	2.57658E 00	-1.06350E-03	-2.49087E 00	3.78531E 01	5.50100E 02	
38.40	9.13528E-01	3.69307E 01	2.59134E 00	-1.06371E-03	-2.50544E 00	3.79540E 01	5.50644E 02	
38.50	9.13527E-01	3.70314E 01	2.60614E 00	-1.06391E-03	-2.52006E 00	3.80551E 01	5.51190E 02	
38.60	9.13525E-01	3.71320E 01	2.62098E 00	-1.06410E-03	-2.53471E 00	3.81561E 01	5.51735E 02	
38.70	9.13523E-01	3.72328E 01	2.63586E 00	-1.06428E-03	-2.54942E 00	3.82572E 01	5.52281E 02	
38.80	9.13521E-01	3.73335E 01	2.65080E 00	-1.06446E-03	-2.56416E 00	3.83583E 01	5.52827E 02	
38.90	9.13519E-01	3.74343E 01	2.66577E 00	-1.06463E-03	-2.57895E 00	3.84594E 01	5.53372E 02	
39.00	9.13517E-01	3.75351E 01	2.68079E 00	-1.06479E-03	-2.59379E 00	3.85605E 01	5.53919E 02	
39.10	9.13516E-01	3.76359E 01	2.69585E 00	-1.06495E-03	-2.60867E 00	3.86617E 01	5.54463E 02	
39.20	9.13514E-01	3.77368E 01	2.71096E 00	-1.06510E-03	-2.62359E 00	3.87629E 01	5.55010E 02	
39.30	9.13512E-01	3.78376E 01	2.72611E 00	-1.06524E-03	-2.63856E 00	3.88641E 01	5.55557E 02	
39.40	9.13510E-01	3.79385E 01	2.74131E 00	-1.06538E-03	-2.65357E 00	3.89654E 01	5.56103E 02	
39.50	9.13508E-01	3.80395E 01	2.75655E 00	-1.06551E-03	-2.66863E 00	3.90667E 01	5.56649E 02	
39.60	9.13506E-01	3.81404E 01	2.77184E 00	-1.06563E-03	-2.68373E 00	3.91680E 01	5.57198E 02	
39.70	9.13504E-01	3.82414E 01	2.78717E 00	-1.06574E-03	-2.69888E 00	3.92693E 01	5.57746E 02	
39.80	9.13503E-01	3.83424E 01	2.80254E 00	-1.06585E-03	-2.71407E 00	3.93706E 01	5.58292E 02	
39.90	9.13501E-01	3.84434E 01	2.81796E 00	-1.06595E-03	-2.72931E 00	3.94720E 01	5.58841E 02	
40.00	9.13499E-01	3.85445E 01	2.83343E 00	-1.06605E-03	-2.74459E 00	3.95734E 01	5.59390E 02	
40.10	9.13497E-01	3.86455E 01	2.84894E 00	-1.06614E-03	-2.75991E 00	3.96749E 01	5.59937E 02	
40.20	9.13495E-01	3.87466E 01	2.86449E 00	-1.06622E-03	-2.77528E 00	3.97763E 01	5.60487E 02	
40.30	9.13494E-01	3.88478E 01	2.88009E 00	-1.06630E-03	-2.79070E 00	3.98778E 01	5.61035E 02	
40.40	9.13492E-01	3.89489E 01	2.89573E 00	-1.06637E-03	-2.80616E 00	3.99793E 01	5.61585E 02	
40.50	9.13490E-01	3.90501E 01	2.91142E 00	-1.06643E-03	-2.82166E 00	4.00809E 01	5.62134E 02	
40.60	9.13488E-01	3.91513E 01	2.92715E 00	-1.06648E-03	-2.83721E 00	4.01824E 01	5.62685E 02	
40.70	9.13486E-01	3.92526E 01	2.94292E 00	-1.06654E-03	-2.85281E 00	4.02840E 01	5.63234E 02	
40.80	9.13485E-01	3.93538E 01	2.95874E 00	-1.06658E-03	-2.86845E 00	4.03857E 01	5.63787E 02	
40.90	9.13483E-01	3.94551E 01	2.97461E 00	-1.06662E-03	-2.88413E 00	4.04873E 01	5.64337E 02	
41.00	9.13481E-01	3.95564E 01	2.99052E 00	-1.06665E-03	-2.89986E 00	4.05890E 01	5.64888E 02	
41.10	9.13479E-01	3.96577E 01	3.00648E 00	-1.06667E-03	-2.91563E 00	4.06907E 01	5.65440E 02	
41.20	9.13478E-01	3.97591E 01	3.02248E 00	-1.06669E-03	-2.93145E 00	4.07924E 01	5.65993E 02	
41.30	9.13476E-01	3.98605E 01	3.03852E 00	-1.06671E-03	-2.94731E 00	4.08942E 01	5.66545E 02	
41.40	9.13474E-01	3.99619E 01	3.05461E 00	-1.06671E-03	-2.96322E 00	4.09960E 01	5.67098E 02	
41.50	9.13472E-01	4.00634E 01	3.07075E 00	-1.06671E-03	-2.97918E 00	4.10978E 01	5.67652E 02	
41.60	9.13470E-01	4.01648E 01	3.08693E 00	-1.06670E-03	-2.99518E 00	4.11996E 01	5.68205E 02	
41.70	9.13469E-01	4.02663E 01	3.10316E 00	-1.06669E-03	-3.01122E 00	4.13015E 01	5.68760E 02	
41.80	9.13467E-01	4.03679E 01	3.11943E 00	-1.06667E-03	-3.02731E 00	4.14034E 01	5.69314E 02	
41.90	9.13465E-01	4.04694E 01	3.13574E 00	-1.06665E-03	-3.04344E 00	4.15053E 01	5.69870E 02	
42.00	9.13464E-01	4.05710E 01	3.15210E 00	-1.06662E-03	-3.05962E 00	4.16073E 01	5.70426E 02	

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=4$			$A=8$			$\rho = 1.2 A^{1/3} F$			Positron
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$				
36.10	1.27690E-03	2.53898E 00	1.00295E-01	-4.95385E 01	-9.66119E-02	2.61019E 00	1.97814E-02				
36.20	1.28398E-03	2.55312E 00	1.01171E-01	-4.95400E 01	-9.74695E-02	2.62453E 00	1.97819E-02				
36.30	1.29108E-03	2.56729E 00	1.02053E-01	-4.95415E 01	-9.83320E-02	2.63890E 00	1.97824E-02				
36.40	1.29821E-03	2.58151E 00	1.02940E-01	-4.95429E 01	-9.91997E-02	2.65331E 00	1.97829E-02				
36.50	1.30535E-03	2.59576E 00	1.03832E-01	-4.95444E 01	-1.00072E-01	2.66775E 00	1.97835E-02				
36.60	1.31251E-03	2.61005E 00	1.04729E-01	-4.95458E 01	-1.00950E-01	2.68224E 00	1.97840E-02				
36.70	1.31969E-03	2.62438E 00	1.05631E-01	-4.95472E 01	-1.01833E-01	2.69677E 00	1.97845E-02				
36.80	1.32689E-03	2.63875E 00	1.06538E-01	-4.95487E 01	-1.02721E-01	2.71133E 00	1.97850E-02				
36.90	1.33411E-03	2.65315E 00	1.07451E-01	-4.95501E 01	-1.03614E-01	2.72593E 00	1.97855E-02				
37.00	1.34135E-03	2.66760E 00	1.08368E-01	-4.95515E 01	-1.04512E-01	2.74058E 00	1.97860E-02				
37.10	1.34861E-03	2.68208E 00	1.09291E-01	-4.95529E 01	-1.05415E-01	2.75526E 00	1.97865E-02				
37.20	1.35589E-03	2.69661E 00	1.10219E-01	-4.95543E 01	-1.06324E-01	2.76998E 00	1.97870E-02				
37.30	1.36319E-03	2.71117E 00	1.11152E-01	-4.95556E 01	-1.07238E-01	2.78473E 00	1.97874E-02				
37.40	1.37050E-03	2.72577E 00	1.12091E-01	-4.95570E 01	-1.08156E-01	2.79953E 00	1.97879E-02				
37.50	1.37784E-03	2.74041E 00	1.13035E-01	-4.95584E 01	-1.09080E-01	2.81437E 00	1.97884E-02				
37.60	1.38520E-03	2.75509E 00	1.13983E-01	-4.95597E 01	-1.10010E-01	2.82924E 00	1.97889E-02				
37.70	1.39257E-03	2.76981E 00	1.14938E-01	-4.95611E 01	-1.10944E-01	2.84415E 00	1.97894E-02				
37.80	1.39997E-03	2.78456E 00	1.15897E-01	-4.95624E 01	-1.11884E-01	2.85910E 00	1.97899E-02				
37.90	1.40739E-03	2.79936E 00	1.16862E-01	-4.95638E 01	-1.12829E-01	2.87409E 00	1.97903E-02				
38.00	1.41482E-03	2.81419E 00	1.17832E-01	-4.95651E 01	-1.13779E-01	2.88912E 00	1.97908E-02				
38.10	1.42228E-03	2.82906E 00	1.18808E-01	-4.95664E 01	-1.14734E-01	2.90419E 00	1.97913E-02				
38.20	1.42975E-03	2.84397E 00	1.19789E-01	-4.95677E 01	-1.15695E-01	2.91930E 00	1.97917E-02				
38.30	1.43724E-03	2.85892E 00	1.20775E-01	-4.95690E 01	-1.16661E-01	2.93444E 00	1.97922E-02				
38.40	1.44476E-03	2.87391E 00	1.21766E-01	-4.95703E 01	-1.17633E-01	2.94963E 00	1.97927E-02				
38.50	1.45229E-03	2.88893E 00	1.22763E-01	-4.95716E 01	-1.18609E-01	2.96485E 00	1.97931E-02				
38.60	1.45984E-03	2.90400E 00	1.23766E-01	-4.95729E 01	-1.19592E-01	2.98011E 00	1.97936E-02				
38.70	1.46742E-03	2.91910E 00	1.24773E-01	-4.95742E 01	-1.20579E-01	2.99541E 00	1.97941E-02				
38.80	1.47501E-03	2.93424E 00	1.25787E-01	-4.95755E 01	-1.21572E-01	3.01075E 00	1.97945E-02				
38.90	1.48262E-03	2.94943E 00	1.26805E-01	-4.95767E 01	-1.22570E-01	3.02612E 00	1.97950E-02				
39.00	1.49025E-03	2.96464E 00	1.27829E-01	-4.95780E 01	-1.23574E-01	3.04154E 00	1.97954E-02				
39.10	1.49790E-03	2.97990E 00	1.28859E-01	-4.95792E 01	-1.24583E-01	3.05699E 00	1.97959E-02				
39.20	1.50557E-03	2.99520E 00	1.29894E-01	-4.95805E 01	-1.25598E-01	3.07248E 00	1.97963E-02				
39.30	1.51326E-03	3.01053E 00	1.30935E-01	-4.95817E 01	-1.26618E-01	3.08801E 00	1.97967E-02				
39.40	1.52097E-03	3.02591E 00	1.31981E-01	-4.95830E 01	-1.27643E-01	3.10358E 00	1.97972E-02				
39.50	1.52870E-03	3.04132E 00	1.33032E-01	-4.95842E 01	-1.28674E-01	3.11919E 00	1.97976E-02				
39.60	1.53645E-03	3.05677E 00	1.34090E-01	-4.95854E 01	-1.29711E-01	3.13484E 00	1.97981E-02				
39.70	1.54422E-03	3.07226E 00	1.35152E-01	-4.95866E 01	-1.30753E-01	3.15052E 00	1.97985E-02				
39.80	1.55200E-03	3.08779E 00	1.36221E-01	-4.95878E 01	-1.31800E-01	3.16625E 00	1.97989E-02				
39.90	1.55981E-03	3.10336E 00	1.37295E-01	-4.95890E 01	-1.32853E-01	3.18201E 00	1.97994E-02				
40.00	1.56764E-03	3.11896E 00	1.38374E-01	-4.95902E 01	-1.33912E-01	3.19781E 00	1.97998E-02				
40.10	1.57549E-03	3.13461E 00	1.39459E-01	-4.95914E 01	-1.34976E-01	3.21365E 00	1.98002E-02				
40.20	1.58335E-03	3.15029E 00	1.40550E-01	-4.95926E 01	-1.36046E-01	3.22953E 00	1.98006E-02				
40.30	1.59124E-03	3.16601E 00	1.41646E-01	-4.95938E 01	-1.37121E-01	3.24544E 00	1.98011E-02				
40.40	1.59914E-03	3.18177E 00	1.42748E-01	-4.95949E 01	-1.38202E-01	3.26140E 00	1.98015E-02				
40.50	1.60707E-03	3.19757E 00	1.43856E-01	-4.95961E 01	-1.39289E-01	3.27739E 00	1.98019E-02				
40.60	1.61501E-03	3.21340E 00	1.44970E-01	-4.95973E 01	-1.40381E-01	3.29343E 00	1.98023E-02				
40.70	1.62298E-03	3.22928E 00	1.46089E-01	-4.95984E 01	-1.41479E-01	3.30950E 00	1.98027E-02				
40.80	1.63096E-03	3.24519E 00	1.47214E-01	-4.95996E 01	-1.42582E-01	3.32561E 00	1.98032E-02				
40.90	1.63896E-03	3.26115E 00	1.48344E-01	-4.96007E 01	-1.43692E-01	3.34175E 00	1.98036E-02				
41.00	1.64699E-03	3.27714E 00	1.49481E-01	-4.96018E 01	-1.44807E-01	3.35794E 00	1.98040E-02				
41.10	1.65503E-03	3.29317E 00	1.50623E-01	-4.96030E 01	-1.45927E-01	3.37416E 00	1.98044E-02				
41.20	1.66309E-03	3.30923E 00	1.51771E-01	-4.96041E 01	-1.47054E-01	3.39043E 00	1.98048E-02				
41.30	1.67117E-03	3.32534E 00	1.52924E-01	-4.96052E 01	-1.48186E-01	3.40673E 00	1.98052E-02				
41.40	1.67927E-03	3.34148E 00	1.54084E-01	-4.96063E 01	-1.49324E-01	3.42307E 00	1.98056E-02				
41.50	1.68739E-03	3.35767E 00	1.55249E-01	-4.96074E 01	-1.50467E-01	3.43945E 00	1.98060E-02				
41.60	1.69553E-03	3.37389E 00	1.56420E-01	-4.96085E 01	-1.51617E-01	3.45586E 00	1.98064E-02				
41.70	1.70369E-03	3.39015E 00	1.57597E-01	-4.96096E 01	-1.52772E-01	3.47232E 00	1.98068E-02				
41.80	1.71187E-03	3.40645E 00	1.58780E-01	-4.96107E 01	-1.53933E-01	3.48881E 00	1.98072E-02				
41.90	1.72007E-03	3.42279E 00	1.59969E-01	-4.96118E 01	-1.55100E-01	3.50534E 00	1.98076E-02				
42.00	1.72829E-03	3.43916E 00	1.61164E-01	-4.96129E 01	-1.56273E-01	3.52192E 00	1.98080E-02				



ELECTRON RADIAL FUNCTIONS

Positron	$Z=5$	$A=11$	$\rho=1.2 A^{1/3} F$				
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
0.10	2.58641E-01	3.79845E-03	-3.78961E-05	1.59622E-01	1.04759E-03	7.18290E-02	5.15595E 00
0.20	5.32718E-01	2.06605E-02	-2.05418E-04	7.84112E-02	2.98900E-03	2.05425E-01	9.75081E 00
0.30	6.60481E-01	5.04215E-02	-4.98505E-04	5.21840E-02	4.94452E-03	3.41130E-01	1.44926E 01
0.40	7.30275E-01	9.17837E-02	-9.00462E-04	3.91105E-02	6.84410E-03	4.74676E-01	1.92600E 01
0.50	7.73061E-01	1.43214E-01	-1.39150E-03	3.12448E-02	8.66708E-03	6.05075E-01	2.40190E 01
0.60	8.01354E-01	2.03134E-01	-1.95115E-03	2.59750E-02	1.04043E-02	7.32027E-01	2.87512E 01
0.70	8.21077E-01	2.70057E-01	-2.56008E-03	2.21884E-02	1.20525E-02	8.55545E-01	3.34440E 01
0.80	8.35372E-01	3.42659E-01	-3.20097E-03	1.93305E-02	1.36118E-02	9.75807E-01	3.80885E 01
0.90	8.46052E-01	4.19811E-01	-3.85907E-03	1.70934E-02	1.50847E-02	1.09308E 00	4.26785E 01
1.00	8.54227E-01	5.00586E-01	-4.52216E-03	1.52925E-02	1.64746E-02	1.20769E 00	4.72094E 01
1.10	8.60611E-01	5.84228E-01	-5.18032E-03	1.38101E-02	1.77856E-02	1.31993E 00	5.16783E 01
1.20	8.65682E-01	6.70141E-01	-5.82561E-03	1.25678E-02	1.90215E-02	1.43010E 00	5.60831E 01
1.30	8.69771E-01	7.57851E-01	-6.45175E-03	1.15110E-02	2.01862E-02	1.53848E 00	6.04229E 01
1.40	8.73110E-01	8.46985E-01	-7.05377E-03	1.06007E-02	2.12832E-02	1.64530E 00	6.46971E 01
1.50	8.75867E-01	9.37251E-01	-7.62775E-03	9.80804E-03	2.23155E-02	1.75077E 00	6.89056E 01
1.60	8.78168E-01	1.02842E 00	-8.17063E-03	9.11151E-03	2.32858E-02	1.85508E 00	7.30490E 01
1.70	8.80103E-01	1.12031E 00	-8.67996E-03	8.49447E-03	2.41966E-02	1.95837E 00	7.71277E 01
1.80	8.81747E-01	1.21278E 00	-9.15381E-03	7.94396E-03	2.50498E-02	2.06079E 00	8.11426E 01
1.90	8.83151E-01	1.30572E 00	-9.59066E-03	7.44971E-03	2.58472E-02	2.16245E 00	8.50945E 01
2.00	8.84360E-01	1.39904E 00	-9.98928E-03	7.00348E-03	2.65902E-02	2.26344E 00	8.89845E 01
2.10	8.85407E-01	1.49267E 00	-1.03487E-02	6.59855E-03	2.72803E-02	2.36385E 00	9.28135E 01
2.20	8.86319E-01	1.58655E 00	-1.06681E-02	6.22943E-03	2.79185E-02	2.46375E 00	9.65830E 01
2.30	8.87116E-01	1.68063E 00	-1.09469E-02	5.89153E-03	2.85058E-02	2.56320E 00	1.00294E 02
2.40	8.87818E-01	1.77489E 00	-1.11846E-02	5.58107E-03	2.90430E-02	2.66226E 00	1.03947E 02
2.50	8.88438E-01	1.86928E 00	-1.13807E-02	5.29481E-03	2.95307E-02	2.76096E 00	1.07544E 02
2.60	8.88987E-01	1.96379E 00	-1.15348E-02	5.03002E-03	2.99698E-02	2.85935E 00	1.11087E 02
2.70	8.89476E-01	2.05839E 00	-1.16468E-02	4.78437E-03	3.03606E-02	2.95746E 00	1.14575E 02
2.80	8.89913E-01	2.15307E 00	-1.17164E-02	4.55586E-03	3.07037E-02	3.05532E 00	1.18010E 02
2.90	8.90304E-01	2.24781E 00	-1.17433E-02	4.34273E-03	3.09994E-02	3.15296E 00	1.21394E 02
3.00	8.90656E-01	2.34261E 00	-1.17274E-02	4.14350E-03	3.12482E-02	3.25040E 00	1.24727E 02
3.10	8.90973E-01	2.43746E 00	-1.16686E-02	3.95685E-03	3.14503E-02	3.34766E 00	1.28011E 02
3.20	8.91260E-01	2.53234E 00	-1.15667E-02	3.78162E-03	3.16061E-02	3.44476E 00	1.31246E 02
3.30	8.91518E-01	2.62726E 00	-1.14217E-02	3.61679E-03	3.17157E-02	3.54172E 00	1.34434E 02
3.40	8.91754E-01	2.72220E 00	-1.12335E-02	3.46145E-03	3.17795E-02	3.63854E 00	1.37576E 02
3.50	8.91968E-01	2.81716E 00	-1.10020E-02	3.31482E-03	3.17975E-02	3.73524E 00	1.40672E 02
3.60	8.92164E-01	2.91214E 00	-1.07272E-02	3.17619E-03	3.17701E-02	3.83183E 00	1.43724E 02
3.70	8.92342E-01	3.00714E 00	-1.04090E-02	3.04491E-03	3.16972E-02	3.92832E 00	1.46733E 02
3.80	8.92506E-01	3.10215E 00	-1.00473E-02	2.92042E-03	3.15791E-02	4.02472E 00	1.49699E 02
3.90	8.92655E-01	3.19717E 00	-9.64212E-03	2.80220E-03	3.14159E-02	4.12104E 00	1.52623E 02
4.00	8.92793E-01	3.29220E 00	-9.19346E-03	2.68979E-03	3.12077E-02	4.21728E 00	1.55507E 02
4.10	8.92918E-01	3.38723E 00	-8.70124E-03	2.58278E-03	3.09546E-02	4.31345E 00	1.58350E 02
4.20	8.93035E-01	3.48227E 00	-8.16547E-03	2.48078E-03	3.06566E-02	4.40956E 00	1.61155E 02
4.30	8.93141E-01	3.57732E 00	-7.58612E-03	2.38345E-03	3.03140E-02	4.50561E 00	1.63922E 02
4.40	8.93240E-01	3.67237E 00	-6.96316E-03	2.29047E-03	2.99267E-02	4.60160E 00	1.66650E 02
4.50	8.93331E-01	3.76743E 00	-6.29659E-03	2.20158E-03	2.94948E-02	4.69755E 00	1.69343E 02
4.60	8.93416E-01	3.86248E 00	-5.58638E-03	2.11650E-03	2.90183E-02	4.79345E 00	1.71999E 02
4.70	8.93494E-01	3.95754E 00	-4.83252E-03	2.03498E-03	2.84974E-02	4.88931E 00	1.74620E 02
4.80	8.93565E-01	4.05260E 00	-4.03501E-03	1.95682E-03	2.79321E-02	4.98513E 00	1.77207E 02
4.90	8.93632E-01	4.14766E 00	-3.19383E-03	1.88180E-03	2.73224E-02	5.08091E 00	1.79760E 02
5.00	8.93694E-01	4.24273E 00	-2.30897E-03	1.80975E-03	2.66683E-02	5.17667E 00	1.82280E 02
5.10	8.93752E-01	4.33779E 00	-1.38043E-03	1.74050E-03	2.59699E-02	5.27239E 00	1.84768E 02
5.20	8.93805E-01	4.43285E 00	-4.08200E-04	1.67387E-03	2.52273E-02	5.36808E 00	1.87223E 02
5.30	8.93855E-01	4.52791E 00	6.07730E-04	1.60974E-03	2.44404E-02	5.46375E 00	1.89647E 02
5.40	8.93901E-01	4.62297E 00	1.66736E-03	1.54795E-03	2.36093E-02	5.55940E 00	1.92041E 02
5.50	8.93944E-01	4.71803E 00	2.77070E-03	1.48839E-03	2.27341E-02	5.65502E 00	1.94405E 02
5.60	8.93984E-01	4.81308E 00	3.91775E-03	1.43094E-03	2.18146E-02	5.75063E 00	1.96740E 02
5.70	8.94021E-01	4.90813E 00	5.10851E-03	1.37548E-03	2.08510E-02	5.84621E 00	1.99045E 02
5.80	8.94056E-01	5.00317E 00	6.34296E-03	1.32192E-03	1.98433E-02	5.94178E 00	2.01323E 02
5.90	8.94087E-01	5.09820E 00	7.62113E-03	1.27017E-03	1.87915E-02	6.03734E 00	2.03573E 02
6.00	8.94117E-01	5.19321E 00	8.94298E-03	1.22012E-03	1.76955E-02	6.13288E 00	2.05795E 02

## ELECTRON RADIAL FUNCTIONS

 $Z=5$  $A=11$  $\rho = 1.2 A^{1/3} F$ 

Positron

$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	3.87081E-09	8.85042E-07	-4.92848E-09	-2.83007E 00	1.46465E-07	1.75761E-05	1.60563E-01
0.20	2.90936E-08	9.53315E-06	-5.28914E-08	-5.77556E 00	7.98206E-07	9.60225E-05	8.06523E-02
0.30	7.97292E-08	3.48346E-05	-1.92101E-07	-8.55258E 00	1.96271E-06	2.19764E-04	5.57161E-02
0.40	1.55749E-07	8.44968E-05	-4.62117E-07	-1.11511E 01	3.61011E-06	4.38461E-04	4.38887E-02
0.50	2.56889E-07	1.64764E-04	-8.91763E-07	-1.35509E 01	5.70458E-06	6.97645E-04	3.72086E-02
0.60	3.82884E-07	2.80406E-04	-1.49900E-06	-1.57418E 01	8.20811E-06	1.01206E-03	3.30557E-02
0.70	5.33507E-07	4.34893E-04	-2.29211E-06	-1.77241E 01	1.10830E-05	1.37934E-03	3.03137E-02
0.80	7.08570E-07	6.30619E-04	-3.27141E-06	-1.95065E 01	1.42937E-05	1.79746E-03	2.84275E-02
0.90	9.07924E-07	8.69172E-04	-4.43115E-06	-2.11025E 01	1.78068E-05	2.26474E-03	2.70913E-02
1.00	1.13145E-06	1.15156E-03	-5.76117E-06	-2.25284E 01	2.15922E-05	2.77982E-03	2.61238E-02
1.10	1.37906E-06	1.47836E-03	-7.24823E-06	-2.38015E 01	2.56218E-05	3.34165E-03	2.54114E-02
1.20	1.65067E-06	1.84993E-03	-8.87704E-06	-2.49386E 01	2.98699E-05	3.94942E-03	2.48804E-02
1.30	1.94623E-06	2.26639E-03	-1.06309E-05	-2.59555E 01	3.43125E-05	4.60251E-03	2.44808E-02
1.40	2.26570E-06	2.72780E-03	-1.24923E-05	-2.68666E 01	3.89270E-05	5.30043E-03	2.41781E-02
1.50	2.60903E-06	3.23413E-03	-1.44431E-05	-2.76848E 01	4.36919E-05	6.04285E-03	2.39481E-02
1.60	2.97621E-06	3.78531E-03	-1.64649E-05	-2.84213E 01	4.85864E-05	6.82950E-03	2.37731E-02
1.70	3.36721E-06	4.38127E-03	-1.85392E-05	-2.90863E 01	5.35905E-05	7.66018E-03	2.36402E-02
1.80	3.78200E-06	5.02190E-03	-2.06474E-05	-2.96883E 01	5.86847E-05	8.53474E-03	2.35400E-02
1.90	4.22059E-06	5.70713E-03	-2.27707E-05	-3.02348E 01	6.38496E-05	9.45307E-03	2.34651E-02
2.00	4.68294E-06	6.43686E-03	-2.48906E-05	-3.07324E 01	6.90665E-05	1.04151E-02	2.34102E-02
2.10	5.16906E-06	7.21100E-03	-2.69882E-05	-3.11868E 01	7.43165E-05	1.14208E-02	2.33709E-02
2.20	5.67894E-06	8.02948E-03	-2.90452E-05	-3.16027E 01	7.95812E-05	1.24700E-02	2.33442E-02
2.30	6.21257E-06	8.89223E-03	-3.10428E-05	-3.19846E 01	8.48421E-05	1.35628E-02	2.33273E-02
2.40	6.76994E-06	9.79919E-03	-3.29627E-05	-3.23360E 01	9.00908E-05	1.46909E-02	2.33183E-02
2.50	7.35105E-06	1.07503E-02	-3.47863E-05	-3.26602E 01	9.52791E-05	1.58790E-02	2.33157E-02
2.60	7.95589E-06	1.17455E-02	-3.64951E-05	-3.29600E 01	1.00419E-04	1.71023E-02	2.33181E-02
2.70	8.58446E-06	1.27847E-02	-3.80708E-05	-3.32379E 01	1.05482E-04	1.83692E-02	2.33245E-02
2.80	9.23676E-06	1.38680E-02	-3.94951E-05	-3.34960E 01	1.10450E-04	1.96795E-02	2.33342E-02
2.90	9.91279E-06	1.49952E-02	-4.07495E-05	-3.37363E 01	1.15304E-04	2.10334E-02	2.33464E-02
3.00	1.06125E-05	1.61663E-02	-4.18158E-05	-3.39605E 01	1.20028E-04	2.24307E-02	2.33606E-02
3.10	1.13360E-05	1.73814E-02	-4.26756E-05	-3.41699E 01	1.24603E-04	2.38715E-02	2.33764E-02
3.20	1.20832E-05	1.86403E-02	-4.33108E-05	-3.43660E 01	1.29010E-04	2.53558E-02	2.33935E-02
3.30	1.28541E-05	1.99431E-02	-4.37030E-05	-3.45499E 01	1.33232E-04	2.68836E-02	2.34115E-02
3.40	1.36487E-05	2.12897E-02	-4.38341E-05	-3.47227E 01	1.37250E-04	2.84549E-02	2.34302E-02
3.50	1.44670E-05	2.26800E-02	-4.36858E-05	-3.48852E 01	1.41047E-04	3.00697E-02	2.34494E-02
3.60	1.53091E-05	2.41142E-02	-4.32400E-05	-3.50384E 01	1.44604E-04	3.17281E-02	2.34690E-02
3.70	1.61748E-05	2.55921E-02	-4.24783E-05	-3.51830E 01	1.47903E-04	3.34299E-02	2.34888E-02
3.80	1.70643E-05	2.71138E-02	-4.13828E-05	-3.53196E 01	1.50927E-04	3.51752E-02	2.35087E-02
3.90	1.79775E-05	2.86791E-02	-3.99351E-05	-3.54489E 01	1.53657E-04	3.69641E-02	2.35286E-02
4.00	1.89144E-05	3.02882E-02	-3.81172E-05	-3.55715E 01	1.56076E-04	3.87964E-02	2.35485E-02
4.10	1.98750E-05	3.19410E-02	-3.59109E-05	-3.56877E 01	1.58164E-04	4.06723E-02	2.35682E-02
4.20	2.08593E-05	3.36374E-02	-3.32980E-05	-3.57982E 01	1.59905E-04	4.25917E-02	2.35878E-02
4.30	2.18673E-05	3.53774E-02	-3.02604E-05	-3.59032E 01	1.61280E-04	4.45547E-02	2.36072E-02
4.40	2.28990E-05	3.71610E-02	-2.67801E-05	-3.60032E 01	1.62271E-04	4.65611E-02	2.36263E-02
4.50	2.39544E-05	3.89882E-02	-2.28389E-05	-3.60984E 01	1.62859E-04	4.86111E-02	2.36452E-02
4.60	2.50336E-05	4.08588E-02	-1.84188E-05	-3.61893E 01	1.63028E-04	5.07047E-02	2.36638E-02
4.70	2.61364E-05	4.27728E-02	-1.35015E-05	-3.62761E 01	1.62758E-04	5.28417E-02	2.36821E-02
4.80	2.72629E-05	4.47303E-02	-8.06929E-06	-3.63591E 01	1.62033E-04	5.50223E-02	2.37002E-02
4.90	2.84132E-05	4.67307E-02	-2.10398E-06	-3.64385E 01	1.60833E-04	5.72465E-02	2.37179E-02
5.00	2.95871E-05	4.87738E-02	4.41219E-06	-3.65145E 01	1.59140E-04	5.95142E-02	2.37353E-02
5.10	3.07847E-05	5.08591E-02	1.14968E-05	-3.65873E 01	1.56938E-04	6.18254E-02	2.37524E-02
5.20	3.20061E-05	5.29849E-02	1.91668E-05	-3.66571E 01	1.54206E-04	6.41802E-02	2.37691E-02
5.30	3.32511E-05	5.51466E-02	2.74366E-05	-3.67242E 01	1.50929E-04	6.65785E-02	2.37856E-02
5.40	3.45199E-05	5.73230E-02	3.63079E-05	-3.67886E 01	1.47087E-04	6.90204E-02	2.38017E-02
5.50	3.58123E-05	5.85939E-02	4.50789E-05	-3.68505E 01	1.42662E-04	7.15058E-02	2.38175E-02
5.60	3.71285E-05	6.21011E-02	5.62249E-05	-3.69100E 01	1.37636E-04	7.40348E-02	2.38330E-02
5.70	3.84683E-05	6.43943E-02	6.70656E-05	-3.69674E 01	1.31992E-04	7.66073E-02	2.38481E-02
5.80	3.98318E-05	6.67719E-02	7.86347E-05	-3.70226E 01	1.25711E-04	7.92234E-02	2.38630E-02
5.90	4.12191E-05	6.92024E-02	9.09256E-05	-3.70758E 01	1.18775E-04	8.18830E-02	2.38776E-02
6.00	4.26300E-05	7.16798E-02	1.03951E-04	-3.71271E 01	1.11166E-04	8.45863E-02	2.38919E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=5$	$A=11$	$\rho=1.2A^{1/3}F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	8.94144E-01	5.28821E 00	1.03085E-02	1.17170E-03	1.65555E-02	6.22840E 00	2.07991E 02	
6.20	8.94171E-01	5.38317E 00	1.17177E-02	1.12483E-03	1.53714E-02	6.32392E 00	2.10161E 02	
6.30	8.94194E-01	5.47807E 00	1.31704E-02	1.07944E-03	1.41433E-02	6.41943E 00	2.12305E 02	
6.40	8.94217E-01	5.57288E 00	1.46665E-02	1.03547E-03	1.28711E-02	6.51492E 00	2.14424E 02	
6.50	8.94238E-01	5.66753E 00	1.62059E-02	9.92832E-04	1.15549E-02	6.61041E 00	2.16518E 02	
6.60	8.94257E-01	5.76174E 00	1.77874E-02	9.51488E-04	1.01947E-02	6.70589E 00	2.18587E 02	
6.70	8.94275E-01	5.85475E 00	1.94083E-02	9.11374E-04	8.79043E-03	6.80136E 00	2.20634E 02	
6.80	8.94291E-01	5.93903E 00	2.10411E-02	8.72430E-04	7.34215E-03	6.89683E 00	2.22656E 02	
6.90	8.94307E-01	6.06439E 00	2.28676E-02	8.34613E-04	5.84986E-03	6.99229E 00	2.24656E 02	
7.00	8.94321E-01	6.15031E 00	2.45940E-02	7.97869E-04	4.31356E-03	7.08775E 00	2.26633E 02	
7.10	8.94334E-01	6.24353E 00	2.63909E-02	7.62160E-04	2.73326E-03	7.18320E 00	2.28588E 02	
7.20	8.94347E-01	6.33781E 00	2.82354E-02	7.27447E-04	1.10896E-03	7.27865E 00	2.30521E 02	
7.30	8.94358E-01	6.43251E 00	3.01253E-02	6.93683E-04	-5.59337E-04	7.37410E 00	2.32433E 02	
7.40	8.94368E-01	6.52737E 00	3.20595E-02	6.60828E-04	-2.27163E-03	7.46954E 00	2.34324E 02	
7.50	8.94378E-01	6.62232E 00	3.40380E-02	6.28847E-04	-4.02792E-03	7.56499E 00	2.36194E 02	
7.60	8.94386E-01	6.71734E 00	3.60605E-02	5.97711E-04	-5.82819E-03	7.66043E 00	2.38044E 02	
7.70	8.94394E-01	6.81240E 00	3.81270E-02	5.67380E-04	-7.67247E-03	7.75587E 00	2.39874E 02	
7.80	8.94402E-01	6.90748E 00	4.02373E-02	5.37830E-04	-9.56073E-03	7.85132E 00	2.41685E 02	
7.90	8.94409E-01	7.00260E 00	4.23917E-02	5.09032E-04	-1.14930E-02	7.94676E 00	2.43476E 02	
8.00	8.94415E-01	7.09773E 00	4.45900E-02	4.80958E-04	-1.34692E-02	8.04220E 00	2.45249E 02	
8.10	8.94420E-01	7.19288E 00	4.68322E-02	4.53576E-04	-1.54895E-02	8.13765E 00	2.47003E 02	
8.20	8.94425E-01	7.28803E 00	4.91182E-02	4.26860E-04	-1.75537E-02	8.23309E 00	2.48739E 02	
8.30	8.94429E-01	7.38320E 00	5.14482E-02	4.00800E-04	-1.96620E-02	8.32854E 00	2.50457E 02	
8.40	8.94433E-01	7.47839E 00	5.38222E-02	3.75351E-04	-2.18142E-02	8.42399E 00	2.52157E 02	
8.50	8.94437E-01	7.57358E 00	5.62400E-02	3.50514E-04	-2.40105E-02	8.51945E 00	2.53840E 02	
8.60	8.94440E-01	7.66878E 00	5.87017E-02	3.26259E-04	-2.62507E-02	8.61490E 00	2.55506E 02	
8.70	8.94442E-01	7.76399E 00	6.12074E-02	3.02561E-04	-2.85350E-02	8.71036E 00	2.57155E 02	
8.80	8.94445E-01	7.85922E 00	6.37571E-02	2.79407E-04	-3.08633E-02	8.80583E 00	2.58788E 02	
8.90	8.94446E-01	7.95444E 00	6.63506E-02	2.56780E-04	-3.32356E-02	8.90129E 00	2.60404E 02	
9.00	8.94448E-01	8.04968E 00	6.89881E-02	2.34660E-04	-3.56519E-02	8.99677E 00	2.62005E 02	
9.10	8.94449E-01	8.14492E 00	7.16695E-02	2.13027E-04	-3.81123E-02	9.09224E 00	2.63590E 02	
9.20	8.94450E-01	8.24018E 00	7.43949E-02	1.91872E-04	-4.06167E-02	9.18773E 00	2.65160E 02	
9.30	8.94450E-01	8.33544E 00	7.71643E-02	1.71180E-04	-4.31651E-02	9.28321E 00	2.66714E 02	
9.40	8.94451E-01	8.43071E 00	7.99776E-02	1.50931E-04	-4.57575E-02	9.37870E 00	2.68254E 02	
9.50	8.94450E-01	8.52599E 00	8.28349E-02	1.31106E-04	-4.83941E-02	9.47420E 00	2.69778E 02	
9.60	8.94450E-01	8.62128E 00	8.57362E-02	1.11707E-04	-5.10746E-02	9.56970E 00	2.71289E 02	
9.70	8.94449E-01	8.71657E 00	8.86814E-02	9.27183E-05	-5.37992E-02	9.66521E 00	2.72786E 02	
9.80	8.94449E-01	8.81188E 00	9.16707E-02	7.41139E-05	-5.65679E-02	9.76073E 00	2.74268E 02	
9.90	8.94448E-01	8.90719E 00	9.47040E-02	5.59003E-05	-5.93807E-02	9.85625E 00	2.75737E 02	
10.00	8.94447E-01	9.00251E 00	9.77813E-02	3.80472E-05	-6.22375E-02	9.95178E 00	2.77192E 02	
10.10	8.94445E-01	9.09784E 00	1.00903E-01	2.05612E-05	-6.51385E-02	1.00473E 01	2.78633E 02	
10.20	8.94443E-01	9.19318E 00	1.04068E-01	3.42488E-06	-6.80835E-02	1.01429E 01	2.80062E 02	
10.30	8.94442E-01	9.28853E 00	1.07277E-01	-1.33733E-05	-7.10726E-02	1.02384E 01	2.81478E 02	
10.40	8.94440E-01	9.38388E 00	1.10531E-01	-2.98431E-05	-7.41058E-02	1.03340E 01	2.82882E 02	
10.50	8.94438E-01	9.47924E 00	1.13828E-01	-4.59934E-05	-7.71831E-02	1.04295E 01	2.84272E 02	
10.60	8.94435E-01	9.57462E 00	1.17170E-01	-6.18360E-05	-8.03045E-02	1.05251E 01	2.85650E 02	
10.70	8.94433E-01	9.67000E 00	1.20555E-01	-7.73681E-05	-8.34701E-02	1.06207E 01	2.87017E 02	
10.80	8.94431E-01	9.76540E 00	1.23985E-01	-9.26120E-05	-8.66798E-02	1.07163E 01	2.88371E 02	
10.90	8.94428E-01	9.86080E 00	1.27459E-01	-1.07570E-04	-8.99337E-02	1.08119E 01	2.89713E 02	
11.00	8.94425E-01	9.95621E 00	1.30977E-01	-1.22239E-04	-9.32317E-02	1.09075E 01	2.91045E 02	
11.10	8.94422E-01	1.00516E 01	1.34539E-01	-1.36643E-04	-9.65738E-02	1.10031E 01	2.92365E 02	
11.20	8.94419E-01	1.01471E 01	1.38145E-01	-1.50786E-04	-9.99602E-02	1.10987E 01	2.93673E 02	
11.30	8.94416E-01	1.02425E 01	1.41795E-01	-1.64672E-04	-1.03391E-01	1.11943E 01	2.94970E 02	
11.40	8.94413E-01	1.03379E 01	1.45489E-01	-1.78299E-04	-1.06865E-01	1.12900E 01	2.96257E 02	
11.50	8.94409E-01	1.04334E 01	1.49228E-01	-1.91686E-04	-1.10384E-01	1.13856E 01	2.97533E 02	
11.60	8.94406E-01	1.05289E 01	1.53010E-01	-2.04830E-04	-1.13947E-01	1.14813E 01	2.98799E 02	
11.70	8.94402E-01	1.06243E 01	1.56837E-01	-2.17747E-04	-1.17555E-01	1.15770E 01	3.00054E 02	
11.80	8.94398E-01	1.07198E 01	1.60708E-01	-2.30438E-04	-1.21206E-01	1.16726E 01	3.01299E 02	
11.90	8.94394E-01	1.08153E 01	1.64623E-01	-2.42904E-04	-1.24902E-01	1.17683E 01	3.02534E 02	
12.00	8.94390E-01	1.09108E 01	1.68583E-01	-2.55160E-04	-1.28642E-01	1.18640E 01	3.03759E 02	

ELECTRON RADIAL FUNCTIONS

Z = 5

A = 11

$\rho = 1.2 A^{1/3} F$

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	4.40647E-05	7.42029E-02	1.17730E-04	-3.71767E 01	1.02866E-04	8.73330E-02	2.39059E-02
6.20	4.55230E-05	7.67706E-02	1.32278E-04	-3.72245E 01	9.38570E-05	9.01234E-02	2.39196E-02
6.30	4.70051E-05	7.93826E-02	1.47613E-04	-3.72707E 01	8.41209E-05	9.29572E-02	2.39330E-02
6.40	4.85108E-05	8.20386E-02	1.63753E-04	-3.73154E 01	7.36396E-05	9.58347E-02	2.39462E-02
6.50	5.00402E-05	8.47385E-02	1.80717E-04	-3.73586E 01	6.23950E-05	9.87557E-02	2.39591E-02
6.60	5.15934E-05	8.74822E-02	1.98522E-04	-3.74004E 01	5.03691E-05	1.01720E-01	2.39717E-02
6.70	5.31702E-05	9.02698E-02	2.17186E-04	-3.74408E 01	3.75438E-05	1.04728E-01	2.39841E-02
6.80	5.47707E-05	9.31010E-02	2.36728E-04	-3.74800E 01	2.39010E-05	1.07780E-01	2.39962E-02
6.90	5.63949E-05	9.59760E-02	2.57165E-04	-3.75180E 01	9.42271E-06	1.10875E-01	2.40081E-02
7.00	5.80429E-05	9.88946E-02	2.78516E-04	-3.75549E 01	-5.90921E-06	1.14014E-01	2.40197E-02
7.10	5.97145E-05	1.01857E-01	3.00798E-04	-3.75906E 01	-2.21128E-05	1.17196E-01	2.40312E-02
7.20	6.14098E-05	1.04863E-01	3.24030E-04	-3.76253E 01	-3.92061E-05	1.20422E-01	2.40424E-02
7.30	6.31288E-05	1.07913E-01	3.48229E-04	-3.76589E 01	-5.72072E-05	1.23692E-01	2.40533E-02
7.40	6.48715E-05	1.11006E-01	3.73415E-04	-3.76916E 01	-7.61342E-05	1.27005E-01	2.40641E-02
7.50	6.66379E-05	1.14143E-01	3.99604E-04	-3.77234E 01	-9.60052E-05	1.30362E-01	2.40747E-02
7.60	6.84280E-05	1.17323E-01	4.26815E-04	-3.77542E 01	-1.16838E-04	1.33762E-01	2.40850E-02
7.70	7.02417E-05	1.20547E-01	4.55066E-04	-3.77843E 01	-1.38651E-04	1.37205E-01	2.40952E-02
7.80	7.20792E-05	1.23815E-01	4.84375E-04	-3.78134E 01	-1.61462E-04	1.40693E-01	2.41051E-02
7.90	7.39404E-05	1.27126E-01	5.14761E-04	-3.78419E 01	-1.85290E-04	1.44224E-01	2.41149E-02
8.00	7.58253E-05	1.30481E-01	5.46240E-04	-3.78695E 01	-2.10151E-04	1.47798E-01	2.41245E-02
8.10	7.77338E-05	1.33880E-01	5.78833E-04	-3.78964E 01	-2.36065E-04	1.51416E-01	2.41339E-02
8.20	7.96661E-05	1.37322E-01	6.12555E-04	-3.79226E 01	-2.63050E-04	1.55078E-01	2.41432E-02
8.30	8.16220E-05	1.40808E-01	6.47427E-04	-3.79482E 01	-2.91123E-04	1.58783E-01	2.41522E-02
8.40	8.36017E-05	1.44337E-01	6.83464E-04	-3.79731E 01	-3.20302E-04	1.62531E-01	2.41611E-02
8.50	8.56050E-05	1.47910E-01	7.20686E-04	-3.79974E 01	-3.50606E-04	1.66324E-01	2.41699E-02
8.60	8.76320E-05	1.51527E-01	7.59111E-04	-3.80211E 01	-3.82053E-04	1.70160E-01	2.41784E-02
8.70	8.96827E-05	1.55187E-01	7.98757E-04	-3.80442E 01	-4.14660E-04	1.74039E-01	2.41869E-02
8.80	9.17571E-05	1.58891E-01	8.39641E-04	-3.80667E 01	-4.48447E-04	1.77962E-01	2.41952E-02
8.90	9.38552E-05	1.62638E-01	8.81783E-04	-3.80887E 01	-4.83430E-04	1.81928E-01	2.42033E-02
9.00	9.59770E-05	1.66429E-01	9.25199E-04	-3.81102E 01	-5.19628E-04	1.85938E-01	2.42113E-02
9.10	9.81225E-05	1.70264E-01	9.69909E-04	-3.81312E 01	-5.57059E-04	1.89992E-01	2.42191E-02
9.20	1.00292E-04	1.74142E-01	1.01593E-03	-3.81517E 01	-5.95742E-04	1.94089E-01	2.42268E-02
9.30	1.02485E-04	1.78064E-01	1.06328E-03	-3.81717E 01	-6.35693E-04	1.98230E-01	2.42344E-02
9.40	1.04701E-04	1.82029E-01	1.11198E-03	-3.81913E 01	-6.76932E-04	2.02414E-01	2.42419E-02
9.50	1.06941E-04	1.86038E-01	1.16204E-03	-3.82104E 01	-7.19476E-04	2.06642E-01	2.42492E-02
9.60	1.09205E-04	1.90090E-01	1.21349E-03	-3.82291E 01	-7.63343E-04	2.10913E-01	2.42564E-02
9.70	1.11493E-04	1.94186E-01	1.26633E-03	-3.82475E 01	-8.08552E-04	2.15228E-01	2.42635E-02
9.80	1.13804E-04	1.98326E-01	1.32060E-03	-3.82654E 01	-8.55120E-04	2.19587E-01	2.42704E-02
9.90	1.16139E-04	2.02509E-01	1.37630E-03	-3.82829E 01	-9.03066E-04	2.23989E-01	2.42773E-02
10.00	1.18498E-04	2.06736E-01	1.43346E-03	-3.83001E 01	-9.52408E-04	2.28434E-01	2.42840E-02
10.10	1.20880E-04	2.11006E-01	1.49210E-03	-3.83169E 01	-1.00316E-03	2.32923E-01	2.42907E-02
10.20	1.23286E-04	2.15320E-01	1.55223E-03	-3.83333E 01	-1.05535E-03	2.37456E-01	2.42972E-02
10.30	1.25716E-04	2.19677E-01	1.61386E-03	-3.83494E 01	-1.10899E-03	2.42032E-01	2.43036E-02
10.40	1.28169E-04	2.24078E-01	1.67702E-03	-3.83652E 01	-1.16409E-03	2.46652E-01	2.43099E-02
10.50	1.30647E-04	2.28523E-01	1.74173E-03	-3.83807E 01	-1.22068E-03	2.51315E-01	2.43161E-02
10.60	1.33147E-04	2.33011E-01	1.80801E-03	-3.83958E 01	-1.27877E-03	2.56022E-01	2.43223E-02
10.70	1.35672E-04	2.37543E-01	1.87586E-03	-3.84107E 01	-1.33839E-03	2.60773E-01	2.43283E-02
10.80	1.38220E-04	2.42118E-01	1.94532E-03	-3.84252E 01	-1.39955E-03	2.65567E-01	2.43342E-02
10.90	1.40792E-04	2.46737E-01	2.01639E-03	-3.84395E 01	-1.46226E-03	2.70404E-01	2.43400E-02
11.00	1.43388E-04	2.51399E-01	2.08910E-03	-3.84535E 01	-1.52655E-03	2.75285E-01	2.43458E-02
11.10	1.46007E-04	2.56105E-01	2.16347E-03	-3.84673E 01	-1.59244E-03	2.80210E-01	2.43515E-02
11.20	1.48650E-04	2.60855E-01	2.23951E-03	-3.84807E 01	-1.65994E-03	2.85178E-01	2.43570E-02
11.30	1.51317E-04	2.65648E-01	2.31723E-03	-3.84940E 01	-1.72907E-03	2.90189E-01	2.43625E-02
11.40	1.54007E-04	2.70484E-01	2.39667E-03	-3.85070E 01	-1.79984E-03	2.95245E-01	2.43679E-02
11.50	1.56721E-04	2.75364E-01	2.47783E-03	-3.85197E 01	-1.87228E-03	3.00343E-01	2.43733E-02
11.60	1.59459E-04	2.80288E-01	2.56074E-03	-3.85322E 01	-1.94641E-03	3.05486E-01	2.43785E-02
11.70	1.62220E-04	2.85255E-01	2.64541E-03	-3.85445E 01	-2.02224E-03	3.10671E-01	2.43837E-02
11.80	1.65005E-04	2.90266E-01	2.73187E-03	-3.85566E 01	-2.09979E-03	3.15901E-01	2.43888E-02
11.90	1.67814E-04	2.95320E-01	2.82012E-03	-3.85684E 01	-2.17908E-03	3.21174E-01	2.43938E-02
12.00	1.70646E-04	3.00418E-01	2.91018E-03	-3.85801E 01	-2.26013E-03	3.26490E-01	2.43988E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 5 \quad A = 11 \quad \rho = 1.2 A^{1/3} F$							
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
12.10	8.94387E-01	1.10064E 01	1.72586E-01	-2.67201E-04	-1.32426E-01	1.19597E 01	3.04974E 02	
12.20	8.94383E-01	1.11019E 01	1.76634E-01	-2.79044E-04	-1.36255E-01	1.20555E 01	3.06179E 02	
12.30	8.94379E-01	1.11974E 01	1.80726E-01	-2.90678E-04	-1.40127E-01	1.21512E 01	3.07375E 02	
12.40	8.94375E-01	1.12930E 01	1.84862E-01	-3.02116E-04	-1.44044E-01	1.22469E 01	3.08562E 02	
12.50	8.94371E-01	1.13885E 01	1.89043E-01	-3.13370E-04	-1.48006E-01	1.23427E 01	3.09740E 02	
12.60	8.94367E-01	1.14841E 01	1.93267E-01	-3.24433E-04	-1.52011E-01	1.24384E 01	3.10908E 02	
12.70	8.94363E-01	1.15797E 01	1.97536E-01	-3.35320E-04	-1.56061E-01	1.25342E 01	3.12067E 02	
12.80	8.94359E-01	1.16753E 01	2.01850E-01	-3.46024E-04	-1.60155E-01	1.26300E 01	3.13218E 02	
12.90	8.94354E-01	1.17709E 01	2.06207E-01	-3.56549E-04	-1.64294E-01	1.27258E 01	3.14360E 02	
13.00	8.94350E-01	1.18665E 01	2.10609E-01	-3.66908E-04	-1.68477E-01	1.28216E 01	3.15494E 02	
13.10	8.94346E-01	1.19621E 01	2.15055E-01	-3.77106E-04	-1.72704E-01	1.29174E 01	3.16619E 02	
13.20	8.94341E-01	1.20578E 01	2.19545E-01	-3.87138E-04	-1.76975E-01	1.30132E 01	3.17735E 02	
13.30	8.94337E-01	1.21534E 01	2.24080E-01	-3.97006E-04	-1.81291E-01	1.31091E 01	3.18844E 02	
13.40	8.94332E-01	1.22491E 01	2.28659E-01	-4.06724E-04	-1.85652E-01	1.32049E 01	3.19944E 02	
13.50	8.94328E-01	1.23447E 01	2.33283E-01	-4.16287E-04	-1.90056E-01	1.33008E 01	3.21037E 02	
13.60	8.94323E-01	1.24404E 01	2.37950E-01	-4.25704E-04	-1.94505E-01	1.33967E 01	3.22121E 02	
13.70	8.94319E-01	1.25361E 01	2.42663E-01	-4.34969E-04	-1.98999E-01	1.34925E 01	3.23199E 02	
13.80	8.94314E-01	1.26318E 01	2.47419E-01	-4.44098E-04	-2.03537E-01	1.35884E 01	3.24268E 02	
13.90	8.94310E-01	1.27275E 01	2.52220E-01	-4.53087E-04	-2.08119E-01	1.36844E 01	3.25330E 02	
14.00	8.94305E-01	1.28233E 01	2.57065E-01	-4.61936E-04	-2.12746E-01	1.37803E 01	3.26384E 02	
14.10	8.94300E-01	1.29190E 01	2.61955E-01	-4.70654E-04	-2.17417E-01	1.38762E 01	3.27431E 02	
14.20	8.94296E-01	1.30148E 01	2.66889E-01	-4.79239E-04	-2.22133E-01	1.39722E 01	3.28471E 02	
14.30	8.94291E-01	1.31105E 01	2.71868E-01	-4.87694E-04	-2.26893E-01	1.40681E 01	3.29504E 02	
14.40	8.94286E-01	1.32063E 01	2.76891E-01	-4.96027E-04	-2.31698E-01	1.41641E 01	3.30530E 02	
14.50	8.94281E-01	1.33021E 01	2.81958E-01	-5.04231E-04	-2.36547E-01	1.42601E 01	3.31549E 02	
14.60	8.94277E-01	1.33979E 01	2.87070E-01	-5.12320E-04	-2.41441E-01	1.43561E 01	3.32561E 02	
14.70	8.94272E-01	1.34937E 01	2.92227E-01	-5.20292E-04	-2.46379E-01	1.44521E 01	3.33566E 02	
14.80	8.94268E-01	1.35895E 01	2.97428E-01	-5.28144E-04	-2.51362E-01	1.45481E 01	3.34565E 02	
14.90	8.94263E-01	1.36854E 01	3.02673E-01	-5.35882E-04	-2.56389E-01	1.46442E 01	3.35557E 02	
15.00	8.94258E-01	1.37812E 01	3.07963E-01	-5.43508E-04	-2.61461E-01	1.47402E 01	3.36543E 02	
15.10	8.94253E-01	1.38771E 01	3.13298E-01	-5.51018E-04	-2.66578E-01	1.48363E 01	3.37523E 02	
15.20	8.94248E-01	1.39730E 01	3.18677E-01	-5.58431E-04	-2.71739E-01	1.49323E 01	3.38496E 02	
15.30	8.94244E-01	1.40689E 01	3.24100E-01	-5.65738E-04	-2.76944E-01	1.50284E 01	3.39463E 02	
15.40	8.94239E-01	1.41648E 01	3.29568E-01	-5.72943E-04	-2.82195E-01	1.51245E 01	3.40424E 02	
15.50	8.94234E-01	1.42607E 01	3.35081E-01	-5.80037E-04	-2.87490E-01	1.52207E 01	3.41379E 02	
15.60	8.94229E-01	1.43566E 01	3.40639E-01	-5.87033E-04	-2.92829E-01	1.53168E 01	3.42329E 02	
15.70	8.94224E-01	1.44526E 01	3.46241E-01	-5.93939E-04	-2.98213E-01	1.54129E 01	3.43272E 02	
15.80	8.94219E-01	1.45485E 01	3.51887E-01	-6.00740E-04	-3.03642E-01	1.55091E 01	3.44210E 02	
15.90	8.94215E-01	1.46445E 01	3.57578E-01	-6.07457E-04	-3.09116E-01	1.56053E 01	3.45141E 02	
16.00	8.94210E-01	1.47405E 01	3.63314E-01	-6.14071E-04	-3.14634E-01	1.57015E 01	3.46067E 02	
16.10	8.94205E-01	1.48365E 01	3.69095E-01	-6.20604E-04	-3.20197E-01	1.57977E 01	3.46988E 02	
16.20	8.94200E-01	1.49325E 01	3.74920E-01	-6.27038E-04	-3.25805E-01	1.58939E 01	3.47903E 02	
16.30	8.94195E-01	1.50285E 01	3.80790E-01	-6.33389E-04	-3.31457E-01	1.59901E 01	3.48813E 02	
16.40	8.94190E-01	1.51245E 01	3.86705E-01	-6.39653E-04	-3.37154E-01	1.60863E 01	3.49718E 02	
16.50	8.94185E-01	1.52206E 01	3.92664E-01	-6.45827E-04	-3.42896E-01	1.61826E 01	3.50618E 02	
16.60	8.94181E-01	1.53167E 01	3.98668E-01	-6.51929E-04	-3.48683E-01	1.62789E 01	3.51512E 02	
16.70	8.94176E-01	1.54127E 01	4.04717E-01	-6.57943E-04	-3.54514E-01	1.63752E 01	3.52401E 02	
16.80	8.94171E-01	1.55088E 01	4.10810E-01	-6.63877E-04	-3.60390E-01	1.64715E 01	3.53285E 02	
16.90	8.94166E-01	1.56049E 01	4.16949E-01	-6.69732E-04	-3.66312E-01	1.65678E 01	3.54165E 02	
17.00	8.94161E-01	1.57011E 01	4.23132E-01	-6.75511E-04	-3.72278E-01	1.66641E 01	3.55039E 02	
17.10	8.94156E-01	1.57972E 01	4.29360E-01	-6.81213E-04	-3.78288E-01	1.67605E 01	3.55908E 02	
17.20	8.94151E-01	1.58934E 01	4.35632E-01	-6.86833E-04	-3.84344E-01	1.68568E 01	3.56774E 02	
17.30	8.94147E-01	1.59895E 01	4.41950E-01	-6.92386E-04	-3.90444E-01	1.69532E 01	3.57634E 02	
17.40	8.94142E-01	1.60857E 01	4.48313E-01	-6.97870E-04	-3.96590E-01	1.70496E 01	3.58489E 02	
17.50	8.94137E-01	1.61819E 01	4.54720E-01	-7.03278E-04	-4.02780E-01	1.71460E 01	3.59340E 02	
17.60	8.94132E-01	1.62781E 01	4.61172E-01	-7.08614E-04	-4.09015E-01	1.72425E 01	3.60186E 02	
17.70	8.94127E-01	1.63743E 01	4.67669E-01	-7.13885E-04	-4.15295E-01	1.73389E 01	3.61028E 02	
17.80	8.94122E-01	1.64706E 01	4.74211E-01	-7.19079E-04	-4.21621E-01	1.74354E 01	3.61866E 02	
17.90	8.94118E-01	1.65668E 01	4.80798E-01	-7.24222E-04	-4.27991E-01	1.75318E 01	3.62699E 02	
18.00	8.94113E-01	1.66631E 01	4.87429E-01	-7.29280E-04	-4.34406E-01	1.76283E 01	3.63529E 02	

## ELECTRON RADIAL FUNCTIONS

	$Z=5$	$A=11$	$\rho=1.2 A^{1/3} F$		Positron		
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	1.73503E-04	3.05560E-01	3.00209E-03	-3.85915E 01	-2.34296E-03	3.31850E-01	2.44037E-02
12.20	1.76382E-04	3.10745E-01	3.09584E-03	-3.86028E 01	-2.42757E-03	3.37253E-01	2.44085E-02
12.30	1.79286E-04	3.15973E-01	3.19147E-03	-3.86138E 01	-2.51400E-03	3.42700E-01	2.44132E-02
12.40	1.82213E-04	3.21245E-01	3.28899E-03	-3.86247E 01	-2.60225E-03	3.48191E-01	2.44179E-02
12.50	1.85164E-04	3.26561E-01	3.38841E-03	-3.86353E 01	-2.69235E-03	3.53725E-01	2.44225E-02
12.60	1.88139E-04	3.31920E-01	3.48976E-03	-3.86459E 01	-2.78432E-03	3.59302E-01	2.44271E-02
12.70	1.91137E-04	3.37322E-01	3.59305E-03	-3.86562E 01	-2.87817E-03	3.64923E-01	2.44316E-02
12.80	1.94159E-04	3.42768E-01	3.69830E-03	-3.86663E 01	-2.97392E-03	3.70588E-01	2.44360E-02
12.90	1.97205E-04	3.48258E-01	3.80553E-03	-3.86763E 01	-3.07159E-03	3.76296E-01	2.44404E-02
13.00	2.00274E-04	3.53791E-01	3.91476E-03	-3.86862E 01	-3.17120E-03	3.82047E-01	2.44447E-02
13.10	2.03367E-04	3.59368E-01	4.02600E-03	-3.86958E 01	-3.27276E-03	3.87843E-01	2.44490E-02
13.20	2.06484E-04	3.64988E-01	4.13928E-03	-3.87054E 01	-3.37630E-03	3.93681E-01	2.44532E-02
13.30	2.09624E-04	3.70651E-01	4.25461E-03	-3.87147E 01	-3.48183E-03	3.99563E-01	2.44573E-02
13.40	2.12788E-04	3.76359E-01	4.37201E-03	-3.87240E 01	-3.58936E-03	4.05489E-01	2.44614E-02
13.50	2.15976E-04	3.82109E-01	4.49150E-03	-3.87330E 01	-3.69893E-03	4.11458E-01	2.44655E-02
13.60	2.19187E-04	3.87904E-01	4.61309E-03	-3.87420E 01	-3.81054E-03	4.17470E-01	2.44694E-02
13.70	2.22422E-04	3.93741E-01	4.73681E-03	-3.87508E 01	-3.92421E-03	4.23526E-01	2.44734E-02
13.80	2.25681E-04	3.99623E-01	4.86267E-03	-3.87594E 01	-4.03997E-03	4.29626E-01	2.44773E-02
13.90	2.28964E-04	4.05547E-01	4.99068E-03	-3.87680E 01	-4.15782E-03	4.35769E-01	2.44811E-02
14.00	2.32270E-04	4.11516E-01	5.12088E-03	-3.87764E 01	-4.27780E-03	4.41956E-01	2.44849E-02
14.10	2.35600E-04	4.17527E-01	5.25327E-03	-3.87847E 01	-4.39991E-03	4.48186E-01	2.44886E-02
14.20	2.38953E-04	4.23583E-01	5.38788E-03	-3.87928E 01	-4.52417E-03	4.54459E-01	2.44923E-02
14.30	2.42330E-04	4.29681E-01	5.52471E-03	-3.88009E 01	-4.65060E-03	4.60776E-01	2.44960E-02
14.40	2.45731E-04	4.35824E-01	5.66380E-03	-3.88088E 01	-4.77923E-03	4.67137E-01	2.44996E-02
14.50	2.49156E-04	4.42009E-01	5.80516E-03	-3.88166E 01	-4.91006E-03	4.73541E-01	2.45031E-02
14.60	2.52604E-04	4.48238E-01	5.94880E-03	-3.88243E 01	-5.04312E-03	4.79988E-01	2.45066E-02
14.70	2.56076E-04	4.54511E-01	6.09475E-03	-3.88319E 01	-5.17843E-03	4.86479E-01	2.45101E-02
14.80	2.59572E-04	4.60827E-01	6.24301E-03	-3.88394E 01	-5.31599E-03	4.93014E-01	2.45136E-02
14.90	2.63091E-04	4.67187E-01	6.39362E-03	-3.88467E 01	-5.45584E-03	4.99591E-01	2.45169E-02
15.00	2.66634E-04	4.73590E-01	6.54659E-03	-3.88540E 01	-5.59798E-03	5.06213E-01	2.45203E-02
15.10	2.70201E-04	4.80037E-01	6.70193E-03	-3.88612E 01	-5.74244E-03	5.12878E-01	2.45236E-02
15.20	2.73791E-04	4.86527E-01	6.85966E-03	-3.88682E 01	-5.88923E-03	5.19586E-01	2.45269E-02
15.30	2.77405E-04	4.93060E-01	7.01981E-03	-3.88752E 01	-6.03838E-03	5.26333E-01	2.45301E-02
15.40	2.81043E-04	4.99637E-01	7.18239E-03	-3.88821E 01	-6.18989E-03	5.33133E-01	2.45333E-02
15.50	2.84704E-04	5.06258E-01	7.34742E-03	-3.88889E 01	-6.34380E-03	5.39972E-01	2.45365E-02
15.60	2.88390E-04	5.12922E-01	7.51491E-03	-3.88956E 01	-6.50011E-03	5.46854E-01	2.45396E-02
15.70	2.92098E-04	5.19629E-01	7.68489E-03	-3.89022E 01	-6.65884E-03	5.53779E-01	2.45427E-02
15.80	2.95831E-04	5.26380E-01	7.85737E-03	-3.89087E 01	-6.82002E-03	5.60748E-01	2.45457E-02
15.90	2.99587E-04	5.33174E-01	8.03237E-03	-3.89151E 01	-6.98366E-03	5.67761E-01	2.45487E-02
16.00	3.03367E-04	5.40012E-01	8.20991E-03	-3.89215E 01	-7.14977E-03	5.74817E-01	2.45517E-02
16.10	3.07170E-04	5.46894E-01	8.39001E-03	-3.89277E 01	-7.31838E-03	5.81916E-01	2.45547E-02
16.20	3.10998E-04	5.53818E-01	8.57267E-03	-3.89339E 01	-7.48951E-03	5.89059E-01	2.45576E-02
16.30	3.14848E-04	5.60786E-01	8.75794E-03	-3.89400E 01	-7.66317E-03	5.96245E-01	2.45605E-02
16.40	3.18723E-04	5.67798E-01	8.94581E-03	-3.89461E 01	-7.83938E-03	6.03475E-01	2.45633E-02
16.50	3.22621E-04	5.74853E-01	9.13631E-03	-3.89520E 01	-8.01816E-03	6.10748E-01	2.45662E-02
16.60	3.26543E-04	5.81951E-01	9.32946E-03	-3.89579E 01	-8.19952E-03	6.18064E-01	2.45690E-02
16.70	3.30489E-04	5.89093E-01	9.52527E-03	-3.89637E 01	-8.38349E-03	6.25424E-01	2.45717E-02
16.80	3.34458E-04	5.96279E-01	9.72377E-03	-3.89694E 01	-8.57008E-03	6.32828E-01	2.45744E-02
16.90	3.38451E-04	6.03507E-01	9.92496E-03	-3.89751E 01	-8.75931E-03	6.40275E-01	2.45771E-02
17.00	3.42468E-04	6.10780E-01	1.01289E-02	-3.89807E 01	-8.95120E-03	6.47765E-01	2.45798E-02
17.10	3.46508E-04	6.18095E-01	1.03355E-02	-3.89862E 01	-9.14577E-03	6.55299E-01	2.45825E-02
17.20	3.50572E-04	6.25454E-01	1.05449E-02	-3.89917E 01	-9.34303E-03	6.62876E-01	2.45851E-02
17.30	3.54660E-04	6.32857E-01	1.07571E-02	-3.89971E 01	-9.54301E-03	6.70496E-01	2.45877E-02
17.40	3.58771E-04	6.40303E-01	1.09721E-02	-3.90024E 01	-9.74571E-03	6.78160E-01	2.45902E-02
17.50	3.62906E-04	6.47792E-01	1.11899E-02	-3.90076E 01	-9.95117E-03	6.85867E-01	2.45928E-02
17.60	3.67065E-04	6.55325E-01	1.14105E-02	-3.90128E 01	-1.01594E-02	6.93618E-01	2.45953E-02
17.70	3.71247E-04	6.62901E-01	1.16339E-02	-3.90180E 01	-1.03704E-02	7.01412E-01	2.45978E-02
17.80	3.75453E-04	6.70520E-01	1.18602E-02	-3.90231E 01	-1.05842E-02	7.09250E-01	2.46002E-02
17.90	3.79683E-04	6.78183E-01	1.20894E-02	-3.90281E 01	-1.08008E-02	7.17131E-01	2.46027E-02
18.00	3.83937E-04	6.85890E-01	1.23215E-02	-3.90330E 01	-1.10203E-02	7.25055E-01	2.46051E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 5 \quad A = 11 \quad \rho = 1.2 A^{1/3} F$							
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
18.10	8.94108E-01	1.67594E 01	4.94107E-01	-7.34287E-04	-4.40866E-01	1.77248E 01	3.64353E 02	
18.20	8.94103E-01	1.68557E 01	5.00828E-01	-7.39225E-04	-4.47371E-01	1.78213E 01	3.65174E 02	
18.30	8.94098E-01	1.69520E 01	5.07595E-01	-7.44101E-04	-4.53921E-01	1.79179E 01	3.65991E 02	
18.40	8.94094E-01	1.70483E 01	5.14407E-01	-7.48912E-04	-4.60516E-01	1.80144E 01	3.66804E 02	
18.50	8.94089E-01	1.71447E 01	5.21263E-01	-7.53664E-04	-4.67156E-01	1.81110E 01	3.67613E 02	
18.60	8.94084E-01	1.72411E 01	5.28165E-01	-7.58361E-04	-4.73841E-01	1.82076E 01	3.68417E 02	
18.70	8.94079E-01	1.73374E 01	5.35111E-01	-7.62993E-04	-4.80572E-01	1.83042E 01	3.69218E 02	
18.80	8.94074E-01	1.74338E 01	5.42103E-01	-7.67572E-04	-4.87347E-01	1.84008E 01	3.70014E 02	
18.90	8.94070E-01	1.75302E 01	5.49140E-01	-7.72085E-04	-4.94168E-01	1.84974E 01	3.70808E 02	
19.00	8.94065E-01	1.76267E 01	5.56222E-01	-7.76548E-04	-5.01033E-01	1.85941E 01	3.71598E 02	
19.10	8.94060E-01	1.77231E 01	5.63349E-01	-7.80957E-04	-5.07944E-01	1.86908E 01	3.72383E 02	
19.20	8.94055E-01	1.78196E 01	5.70521E-01	-7.85304E-04	-5.14900E-01	1.87874E 01	3.73166E 02	
19.30	8.94051E-01	1.79160E 01	5.77738E-01	-7.89602E-04	-5.21901E-01	1.88842E 01	3.73945E 02	
19.40	8.94046E-01	1.80125E 01	5.85001E-01	-7.93847E-04	-5.28948E-01	1.89809E 01	3.74720E 02	
19.50	8.94042E-01	1.81090E 01	5.92308E-01	-7.98037E-04	-5.36039E-01	1.90776E 01	3.75492E 02	
19.60	8.94037E-01	1.82056E 01	5.99661E-01	-8.02180E-04	-5.43176E-01	1.91744E 01	3.76260E 02	
19.70	8.94032E-01	1.83021E 01	6.07059E-01	-8.06265E-04	-5.50358E-01	1.92711E 01	3.77025E 02	
19.80	8.94028E-01	1.83986E 01	6.14502E-01	-8.10298E-04	-5.57586E-01	1.93679E 01	3.77787E 02	
19.90	8.94023E-01	1.84952E 01	6.21991E-01	-8.14291E-04	-5.64858E-01	1.94647E 01	3.78545E 02	
20.00	8.94018E-01	1.85918E 01	6.29524E-01	-8.18231E-04	-5.72176E-01	1.95616E 01	3.79300E 02	
20.10	8.94014E-01	1.86884E 01	6.37103E-01	-8.22122E-04	-5.79539E-01	1.96584E 01	3.80052E 02	
20.20	8.94009E-01	1.87850E 01	6.44727E-01	-8.25967E-04	-5.86948E-01	1.97553E 01	3.80801E 02	
20.30	8.94005E-01	1.88817E 01	6.52397E-01	-8.29759E-04	-5.94402E-01	1.98521E 01	3.81547E 02	
20.40	8.94000E-01	1.89783E 01	6.60112E-01	-8.33518E-04	-6.01901E-01	1.99490E 01	3.82289E 02	
20.50	8.93995E-01	1.90750E 01	6.67872E-01	-8.37218E-04	-6.09446E-01	2.00459E 01	3.83029E 02	
20.60	8.93991E-01	1.91717E 01	6.75677E-01	-8.40880E-04	-6.17036E-01	2.01429E 01	3.83765E 02	
20.70	8.93986E-01	1.92684E 01	6.83528E-01	-8.44492E-04	-6.24671E-01	2.02398E 01	3.84499E 02	
20.80	8.93982E-01	1.93651E 01	6.91424E-01	-8.48064E-04	-6.32352E-01	2.03368E 01	3.85230E 02	
20.90	8.93977E-01	1.94619E 01	6.99366E-01	-8.51593E-04	-6.40078E-01	2.04338E 01	3.85958E 02	
21.00	8.93973E-01	1.95586E 01	7.07353E-01	-8.55079E-04	-6.47850E-01	2.05308E 01	3.86683E 02	
21.10	8.93968E-01	1.96554E 01	7.15385E-01	-8.58523E-04	-6.55668E-01	2.06278E 01	3.87405E 02	
21.20	8.93964E-01	1.97522E 01	7.23463E-01	-8.61923E-04	-6.63530E-01	2.07248E 01	3.88125E 02	
21.30	8.93959E-01	1.98490E 01	7.31587E-01	-8.65285E-04	-6.71439E-01	2.08219E 01	3.88842E 02	
21.40	8.93955E-01	1.99458E 01	7.39756E-01	-8.68609E-04	-6.79393E-01	2.09190E 01	3.89556E 02	
21.50	8.93950E-01	2.00427E 01	7.47970E-01	-8.71885E-04	-6.87392E-01	2.10161E 01	3.90268E 02	
21.60	8.93946E-01	2.01395E 01	7.56230E-01	-8.75132E-04	-6.95437E-01	2.11132E 01	3.90976E 02	
21.70	8.93941E-01	2.02364E 01	7.64535E-01	-8.78332E-04	-7.03528E-01	2.12103E 01	3.91683E 02	
21.80	8.93937E-01	2.03333E 01	7.72887E-01	-8.81495E-04	-7.11664E-01	2.13075E 01	3.92387E 02	
21.90	8.93932E-01	2.04302E 01	7.81283E-01	-8.84621E-04	-7.19846E-01	2.14046E 01	3.93089E 02	
22.00	8.93928E-01	2.05272E 01	7.89725E-01	-8.87703E-04	-7.28074E-01	2.15018E 01	3.93789E 02	
22.10	8.93924E-01	2.06241E 01	7.98213E-01	-8.90761E-04	-7.36347E-01	2.15990E 01	3.94484E 02	
22.20	8.93919E-01	2.07211E 01	8.06746E-01	-8.93774E-04	-7.44666E-01	2.16963E 01	3.95179E 02	
22.30	8.93915E-01	2.08181E 01	8.15325E-01	-8.96751E-04	-7.53030E-01	2.17935E 01	3.95871E 02	
22.40	8.93910E-01	2.09151E 01	8.23950E-01	-8.99698E-04	-7.61441E-01	2.18908E 01	3.96560E 02	
22.50	8.93906E-01	2.10121E 01	8.32621E-01	-9.02602E-04	-7.69897E-01	2.19881E 01	3.97248E 02	
22.60	8.93902E-01	2.11092E 01	8.41337E-01	-9.05475E-04	-7.78399E-01	2.20854E 01	3.97933E 02	
22.70	8.93897E-01	2.12062E 01	8.50099E-01	-9.08311E-04	-7.86946E-01	2.21827E 01	3.98616E 02	
22.80	8.93893E-01	2.13033E 01	8.58906E-01	-9.11117E-04	-7.95540E-01	2.22800E 01	3.99297E 02	
22.90	8.93889E-01	2.14004E 01	8.67760E-01	-9.13886E-04	-8.04179E-01	2.23774E 01	3.99975E 02	
23.00	8.93884E-01	2.14975E 01	8.76659E-01	-9.16620E-04	-8.12864E-01	2.24748E 01	4.00652E 02	
23.10	8.93880E-01	2.15947E 01	8.85604E-01	-9.19331E-04	-8.21596E-01	2.25722E 01	4.01326E 02	
23.20	8.93876E-01	2.16918E 01	8.94595E-01	-9.22003E-04	-8.30372E-01	2.26696E 01	4.01998E 02	
23.30	8.93872E-01	2.17890E 01	9.03632E-01	-9.24643E-04	-8.39195E-01	2.27671E 01	4.02668E 02	
23.40	8.93867E-01	2.18862E 01	9.12714E-01	-9.27253E-04	-8.48064E-01	2.28645E 01	4.03337E 02	
23.50	8.93863E-01	2.19834E 01	9.21843E-01	-9.29832E-04	-8.56979E-01	2.29620E 01	4.04003E 02	
23.60	8.93859E-01	2.20807E 01	9.31017E-01	-9.32378E-04	-8.65939E-01	2.30595E 01	4.04667E 02	
23.70	8.93855E-01	2.21779E 01	9.40237E-01	-9.34891E-04	-8.74946E-01	2.31570E 01	4.05330E 02	
23.80	8.93850E-01	2.22752E 01	9.49503E-01	-9.37379E-04	-8.83999E-01	2.32546E 01	4.05990E 02	
23.90	8.93846E-01	2.23725E 01	9.58815E-01	-9.39829E-04	-8.93097E-01	2.33521E 01	4.06650E 02	
24.00	8.93842E-01	2.24698E 01	9.68174E-01	-9.42259E-04	-9.02242E-01	2.34497E 01	4.07306E 02	

## ELECTRON RADIAL FUNCTIONS

	$Z=5$	$A=11$	$\rho=1.2A^{1/3}F$			$\text{Positron}$	
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_{-2}$	$\tan \delta_{-2}$
18.10	3.88214E-04	6.93640E-01	1.25565E-02	-3.90379E 01	-1.12426E-02	7.33023E-01	2.46075E-02
18.20	3.92515E-04	7.01433E-01	1.27945E-02	-3.90428E 01	-1.14678E-02	7.41034E-01	2.46098E-02
18.30	3.96839E-04	7.09269E-01	1.30354E-02	-3.90476E 01	-1.16959E-02	7.49089E-01	2.46122E-02
18.40	4.01188E-04	7.17149E-01	1.32792E-02	-3.90523E 01	-1.19269E-02	7.57186E-01	2.46145E-02
18.50	4.05559E-04	7.25073E-01	1.35261E-02	-3.90570E 01	-1.21608E-02	7.65328E-01	2.46168E-02
18.60	4.09955E-04	7.33039E-01	1.37759E-02	-3.90616E 01	-1.23977E-02	7.73512E-01	2.46190E-02
18.70	4.14374E-04	7.41049E-01	1.40288E-02	-3.90662E 01	-1.26376E-02	7.81740E-01	2.46213E-02
18.80	4.18817E-04	7.49103E-01	1.42847E-02	-3.90708E 01	-1.28804E-02	7.90011E-01	2.46235E-02
18.90	4.23284E-04	7.57200E-01	1.45437E-02	-3.90752E 01	-1.31262E-02	7.98326E-01	2.46257E-02
19.00	4.27774E-04	7.65340E-01	1.48058E-02	-3.90797E 01	-1.33750E-02	8.06684E-01	2.46279E-02
19.10	4.32288E-04	7.73523E-01	1.50709E-02	-3.90840E 01	-1.36269E-02	8.15086E-01	2.46300E-02
19.20	4.36826E-04	7.81750E-01	1.53392E-02	-3.90884E 01	-1.38818E-02	8.23530E-01	2.46322E-02
19.30	4.41387E-04	7.90021E-01	1.56106E-02	-3.90927E 01	-1.41399E-02	8.32019E-01	2.46343E-02
19.40	4.45972E-04	7.98334E-01	1.58852E-02	-3.90969E 01	-1.44010E-02	8.40550E-01	2.46364E-02
19.50	4.50581E-04	8.06691E-01	1.61629E-02	-3.91011E 01	-1.46652E-02	8.49125E-01	2.46385E-02
19.60	4.55213E-04	8.15092E-01	1.64438E-02	-3.91053E 01	-1.49325E-02	8.57743E-01	2.46405E-02
19.70	4.59869E-04	8.23535E-01	1.67279E-02	-3.91094E 01	-1.52030E-02	8.66405E-01	2.46426E-02
19.80	4.64549E-04	8.32022E-01	1.70153E-02	-3.91134E 01	-1.54766E-02	8.75109E-01	2.46446E-02
19.90	4.69252E-04	8.40553E-01	1.73059E-02	-3.91175E 01	-1.57534E-02	8.83858E-01	2.46466E-02
20.00	4.73979E-04	8.49126E-01	1.75997E-02	-3.91214E 01	-1.60334E-02	8.92649E-01	2.46486E-02
20.10	4.78730E-04	8.57743E-01	1.78968E-02	-3.91254E 01	-1.63167E-02	9.01484E-01	2.46506E-02
20.20	4.83504E-04	8.66404E-01	1.81972E-02	-3.91293E 01	-1.66031E-02	9.10362E-01	2.46525E-02
20.30	4.88302E-04	8.75108E-01	1.85009E-02	-3.91331E 01	-1.68928E-02	9.19283E-01	2.46544E-02
20.40	4.93124E-04	8.83854E-01	1.88080E-02	-3.91370E 01	-1.71858E-02	9.28248E-01	2.46564E-02
20.50	4.97970E-04	8.92645E-01	1.91184E-02	-3.91407E 01	-1.74821E-02	9.37256E-01	2.46583E-02
20.60	5.02839E-04	9.01478E-01	1.94321E-02	-3.91445E 01	-1.77817E-02	9.46308E-01	2.46601E-02
20.70	5.07732E-04	9.10356E-01	1.97493E-02	-3.91482E 01	-1.80846E-02	9.55402E-01	2.46620E-02
20.80	5.12648E-04	9.19276E-01	2.00698E-02	-3.91519E 01	-1.83908E-02	9.64540E-01	2.46638E-02
20.90	5.17588E-04	9.28239E-01	2.03938E-02	-3.91555E 01	-1.87004E-02	9.73722E-01	2.46657E-02
21.00	5.22552E-04	9.37246E-01	2.07212E-02	-3.91591E 01	-1.90134E-02	9.82946E-01	2.46675E-02
21.10	5.27540E-04	9.46296E-01	2.10521E-02	-3.91627E 01	-1.93298E-02	9.92214E-01	2.46693E-02
21.20	5.32551E-04	9.55389E-01	2.13864E-02	-3.91662E 01	-1.96496E-02	1.00153E 00	2.46711E-02
21.30	5.37586E-04	9.64526E-01	2.17242E-02	-3.91697E 01	-1.99728E-02	1.01088E 00	2.46728E-02
21.40	5.42644E-04	9.73706E-01	2.20656E-02	-3.91731E 01	-2.02995E-02	1.02028E 00	2.46746E-02
21.50	5.47727E-04	9.82930E-01	2.24104E-02	-3.91766E 01	-2.06296E-02	1.02972E 00	2.46763E-02
21.60	5.52832E-04	9.92196E-01	2.27588E-02	-3.91800E 01	-2.09633E-02	1.03920E 00	2.46780E-02
21.70	5.57962E-04	1.00151E 00	2.31108E-02	-3.91833E 01	-2.13004E-02	1.04873E 00	2.46797E-02
21.80	5.63115E-04	1.01086E 00	2.34664E-02	-3.91866E 01	-2.16411E-02	1.05830E 00	2.46814E-02
21.90	5.68292E-04	1.02026E 00	2.38255E-02	-3.91899E 01	-2.19852E-02	1.06791E 00	2.46831E-02
22.00	5.73493E-04	1.02970E 00	2.41883E-02	-3.91932E 01	-2.23330E-02	1.07757E 00	2.46848E-02
22.10	5.78717E-04	1.03918E 00	2.45547E-02	-3.91964E 01	-2.26843E-02	1.08727E 00	2.46864E-02
22.20	5.83965E-04	1.04870E 00	2.49248E-02	-3.91996E 01	-2.30392E-02	1.09702E 00	2.46881E-02
22.30	5.89237E-04	1.05827E 00	2.52985E-02	-3.92028E 01	-2.33978E-02	1.10680E 00	2.46897E-02
22.40	5.94532E-04	1.06789E 00	2.56759E-02	-3.92060E 01	-2.37599E-02	1.11663E 00	2.46913E-02
22.50	5.99851E-04	1.07754E 00	2.60570E-02	-3.92091E 01	-2.41257E-02	1.12651E 00	2.46929E-02
22.60	6.05194E-04	1.08724E 00	2.64419E-02	-3.92122E 01	-2.44952E-02	1.13642E 00	2.46945E-02
22.70	6.10560E-04	1.09698E 00	2.68305E-02	-3.92152E 01	-2.48683E-02	1.14638E 00	2.46960E-02
22.80	6.15950E-04	1.10677E 00	2.72228E-02	-3.92183E 01	-2.52452E-02	1.15639E 00	2.46976E-02
22.90	6.21364E-04	1.11660E 00	2.76189E-02	-3.92213E 01	-2.56258E-02	1.16643E 00	2.46991E-02
23.00	6.26801E-04	1.12647E 00	2.80189E-02	-3.92242E 01	-2.60101E-02	1.17652E 00	2.47007E-02
23.10	6.32262E-04	1.13639E 00	2.84226E-02	-3.92272E 01	-2.63981E-02	1.18666E 00	2.47022E-02
23.20	6.37747E-04	1.14634E 00	2.88302E-02	-3.92301E 01	-2.67900E-02	1.19683E 00	2.47037E-02
23.30	6.43255E-04	1.15635E 00	2.92416E-02	-3.92330E 01	-2.71856E-02	1.20705E 00	2.47052E-02
23.40	6.48788E-04	1.16639E 00	2.96569E-02	-3.92359E 01	-2.75850E-02	1.21731E 00	2.47067E-02
23.50	6.54343E-04	1.17648E 00	3.00761E-02	-3.92387E 01	-2.79883E-02	1.22762E 00	2.47081E-02
23.60	6.59923E-04	1.18661E 00	3.04991E-02	-3.92416E 01	-2.83954E-02	1.23797E 00	2.47096E-02
23.70	6.65526E-04	1.19678E 00	3.09261E-02	-3.92443E 01	-2.88064E-02	1.24836E 00	2.47110E-02
23.80	6.71153E-04	1.20700E 00	3.13571E-02	-3.92471E 01	-2.92212E-02	1.25879E 00	2.47125E-02
23.90	6.76803E-04	1.21726E 00	3.17920E-02	-3.92499E 01	-2.96399E-02	1.26927E 00	2.47139E-02
24.00	6.82477E-04	1.22757E 00	3.22309E-02	-3.92526E 01	-3.00626E-02	1.27979E 00	2.47153E-02



## ELECTRON RADIAL FUNCTIONS

Positron $p$	$Z=5 \quad A=11 \quad \rho=1.2 A^{1/3} F$							
	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
24.10	8.93838E-01	2.25672E 01	9.77578E-01	-9.44656E-04	-9.11433E-01	2.35474E 01	4.07961E 02	
24.20	8.93834E-01	2.26645E 01	9.87028E-01	-9.47023E-04	-9.20670E-01	2.36450E 01	4.08615E 02	
24.30	8.93829E-01	2.27619E 01	9.96525E-01	-9.49359E-04	-9.29953E-01	2.37426E 01	4.09267E 02	
24.40	8.93825E-01	2.28593E 01	1.00607E 00	-9.51670E-04	-9.39282E-01	2.38403E 01	4.09917E 02	
24.50	8.93821E-01	2.29567E 01	1.01566E 00	-9.53953E-04	-9.48658E-01	2.39380E 01	4.10565E 02	
24.60	8.93817E-01	2.30541E 01	1.02529E 00	-9.56204E-04	-9.58079E-01	2.40357E 01	4.11212E 02	
24.70	8.93813E-01	2.31516E 01	1.03497E 00	-9.58433E-04	-9.67547E-01	2.41334E 01	4.11857E 02	
24.80	8.93809E-01	2.32491E 01	1.04470E 00	-9.60635E-04	-9.77061E-01	2.42312E 01	4.12500E 02	
24.90	8.93805E-01	2.33466E 01	1.05447E 00	-9.62810E-04	-9.86621E-01	2.43290E 01	4.13142E 02	
25.00	8.93801E-01	2.34441E 01	1.06429E 00	-9.64954E-04	-9.96227E-01	2.44268E 01	4.13783E 02	
25.10	8.93797E-01	2.35416E 01	1.07415E 00	-9.67076E-04	-1.00588E 00	2.45246E 01	4.14421E 02	
25.20	8.93792E-01	2.36392E 01	1.08407E 00	-9.69170E-04	-1.01558E 00	2.46224E 01	4.15059E 02	
25.30	8.93788E-01	2.37367E 01	1.09402E 00	-9.71243E-04	-1.02532E 00	2.47203E 01	4.15694E 02	
25.40	8.93784E-01	2.38343E 01	1.10403E 00	-9.73285E-04	-1.03512E 00	2.48182E 01	4.16328E 02	
25.50	8.93780E-01	2.39320E 01	1.11408E 00	-9.75301E-04	-1.04495E 00	2.49161E 01	4.16962E 02	
25.60	8.93776E-01	2.40296E 01	1.12417E 00	-9.77298E-04	-1.05484E 00	2.50140E 01	4.17593E 02	
25.70	8.93772E-01	2.41273E 01	1.13432E 00	-9.79264E-04	-1.06477E 00	2.51120E 01	4.18223E 02	
25.80	8.93768E-01	2.42249E 01	1.14451E 00	-9.81207E-04	-1.07475E 00	2.52099E 01	4.18853E 02	
25.90	8.93764E-01	2.43226E 01	1.15474E 00	-9.83131E-04	-1.08477E 00	2.53079E 01	4.19479E 02	
26.00	8.93760E-01	2.44204E 01	1.16503E 00	-9.85026E-04	-1.09484E 00	2.54060E 01	4.20106E 02	
26.10	8.93756E-01	2.45181E 01	1.17535E 00	-9.86896E-04	-1.10496E 00	2.55040E 01	4.20731E 02	
26.20	8.93752E-01	2.46159E 01	1.18573E 00	-9.88744E-04	-1.11512E 00	2.56021E 01	4.21355E 02	
26.30	8.93749E-01	2.47137E 01	1.19615E 00	-9.90571E-04	-1.12533E 00	2.57001E 01	4.21977E 02	
26.40	8.93745E-01	2.48115E 01	1.20662E 00	-9.92374E-04	-1.13559E 00	2.57982E 01	4.22598E 02	
26.50	8.93741E-01	2.49093E 01	1.21713E 00	-9.94153E-04	-1.14589E 00	2.58964E 01	4.23218E 02	
26.60	8.93737E-01	2.50072E 01	1.22769E 00	-9.95910E-04	-1.15624E 00	2.59945E 01	4.23837E 02	
26.70	8.93733E-01	2.51050E 01	1.23830E 00	-9.97647E-04	-1.16663E 00	2.60927E 01	4.24455E 02	
26.80	8.93729E-01	2.52029E 01	1.24896E 00	-9.99356E-04	-1.17708E 00	2.61909E 01	4.25072E 02	
26.90	8.93725E-01	2.53008E 01	1.25966E 00	-1.00105E-03	-1.18757E 00	2.62891E 01	4.25687E 02	
27.00	8.93721E-01	2.53988E 01	1.27040E 00	-1.00272E-03	-1.19810E 00	2.63874E 01	4.26301E 02	
27.10	8.93717E-01	2.54967E 01	1.28120E 00	-1.00436E-03	-1.20869E 00	2.64856E 01	4.26915E 02	
27.20	8.93713E-01	2.55947E 01	1.29204E 00	-1.00599E-03	-1.21932E 00	2.65839E 01	4.27527E 02	
27.30	8.93710E-01	2.56927E 01	1.30293E 00	-1.00760E-03	-1.22999E 00	2.66822E 01	4.28139E 02	
27.40	8.93706E-01	2.57908E 01	1.31386E 00	-1.00918E-03	-1.24071E 00	2.67806E 01	4.28748E 02	
27.50	8.93702E-01	2.58888E 01	1.32484E 00	-1.01074E-03	-1.25149E 00	2.68789E 01	4.29358E 02	
27.60	8.93698E-01	2.59869E 01	1.33587E 00	-1.01229E-03	-1.26230E 00	2.69773E 01	4.29966E 02	
27.70	8.93694E-01	2.60850E 01	1.34694E 00	-1.01381E-03	-1.27317E 00	2.70757E 01	4.30574E 02	
27.80	8.93691E-01	2.61831E 01	1.35806E 00	-1.01531E-03	-1.28408E 00	2.71742E 01	4.31181E 02	
27.90	8.93687E-01	2.62812E 01	1.36923E 00	-1.01680E-03	-1.29503E 00	2.72726E 01	4.31786E 02	
28.00	8.93683E-01	2.63794E 01	1.38045E 00	-1.01826E-03	-1.30604E 00	2.73711E 01	4.32390E 02	
28.10	8.93679E-01	2.64776E 01	1.39171E 00	-1.01970E-03	-1.31709E 00	2.74696E 01	4.32995E 02	
28.20	8.93675E-01	2.65758E 01	1.40302E 00	-1.02112E-03	-1.32819E 00	2.75681E 01	4.33598E 02	
28.30	8.93672E-01	2.66740E 01	1.41437E 00	-1.02253E-03	-1.33933E 00	2.76667E 01	4.34200E 02	
28.40	8.93668E-01	2.67723E 01	1.42578E 00	-1.02392E-03	-1.35053E 00	2.77652E 01	4.34801E 02	
28.50	8.93664E-01	2.68706E 01	1.43723E 00	-1.02528E-03	-1.36177E 00	2.78638E 01	4.35402E 02	
28.60	8.93660E-01	2.69689E 01	1.44872E 00	-1.02663E-03	-1.37305E 00	2.79625E 01	4.36002E 02	
28.70	8.93657E-01	2.70672E 01	1.46027E 00	-1.02796E-03	-1.38439E 00	2.80611E 01	4.36601E 02	
28.80	8.93653E-01	2.71656E 01	1.47186E 00	-1.02927E-03	-1.39577E 00	2.81598E 01	4.37199E 02	
28.90	8.93649E-01	2.72639E 01	1.48350E 00	-1.03056E-03	-1.40720E 00	2.82585E 01	4.37797E 02	
29.00	8.93646E-01	2.73623E 01	1.49518E 00	-1.03183E-03	-1.41867E 00	2.83572E 01	4.38394E 02	
29.10	8.93642E-01	2.74607E 01	1.50691E 00	-1.03309E-03	-1.43019E 00	2.84559E 01	4.38990E 02	
29.20	8.93638E-01	2.75592E 01	1.51869E 00	-1.03433E-03	-1.44176E 00	2.85547E 01	4.39586E 02	
29.30	8.93635E-01	2.76577E 01	1.53052E 00	-1.03555E-03	-1.45338E 00	2.86535E 01	4.40181E 02	
29.40	8.93631E-01	2.77561E 01	1.54239E 00	-1.03675E-03	-1.46505E 00	2.87523E 01	4.40776E 02	
29.50	8.93628E-01	2.78547E 01	1.55431E 00	-1.03794E-03	-1.47676E 00	2.88512E 01	4.41369E 02	
29.60	8.93624E-01	2.79532E 01	1.56628E 00	-1.03910E-03	-1.48852E 00	2.89500E 01	4.41963E 02	
29.70	8.93620E-01	2.80518E 01	1.57830E 00	-1.04026E-03	-1.50032E 00	2.90489E 01	4.42555E 02	
29.80	8.93617E-01	2.81504E 01	1.59036E 00	-1.04139E-03	-1.51218E 00	2.91479E 01	4.43148E 02	
29.90	8.93613E-01	2.82490E 01	1.60247E 00	-1.04251E-03	-1.52408E 00	2.92468E 01	4.43739E 02	
30.00	8.93610E-01	2.83476E 01	1.61463E 00	-1.04361E-03	-1.53603E 00	2.93458E 01	4.44330E 02	

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	Positron
24.10	6.88175E-04	1.23792E 00	3.26738E-02	-3.92553E 01	-3.04892E-02	1.29036E 00	2.47167E-02	
24.20	6.93897E-04	1.24831E 00	3.31206E-02	-3.92580E 01	-3.09198E-02	1.30097E 00	2.47181E-02	
24.30	6.99642E-04	1.25874E 00	3.35715E-02	-3.92606E 01	-3.13543E-02	1.31162E 00	2.47195E-02	
24.40	7.05411E-04	1.26922E 00	3.40265E-02	-3.92633E 01	-3.17928E-02	1.32231E 00	2.47209E-02	
24.50	7.11203E-04	1.27974E 00	3.44855E-02	-3.92659E 01	-3.22353E-02	1.33305E 00	2.47222E-02	
24.60	7.17020E-04	1.29030E 00	3.49486E-02	-3.92685E 01	-3.26818E-02	1.34383E 00	2.47236E-02	
24.70	7.22860E-04	1.30091E 00	3.54158E-02	-3.92710E 01	-3.31324E-02	1.35465E 00	2.47249E-02	
24.80	7.28723E-04	1.31155E 00	3.58871E-02	-3.92736E 01	-3.35870E-02	1.36552E 00	2.47262E-02	
24.90	7.34610E-04	1.32225E 00	3.63626E-02	-3.92761E 01	-3.40457E-02	1.37643E 00	2.47276E-02	
25.00	7.40521E-04	1.33298E 00	3.68422E-02	-3.92786E 01	-3.45085E-02	1.38738E 00	2.47289E-02	
25.10	7.46456E-04	1.34376E 00	3.73260E-02	-3.92811E 01	-3.49754E-02	1.39838E 00	2.47302E-02	
25.20	7.52414E-04	1.35458E 00	3.78139E-02	-3.92836E 01	-3.54464E-02	1.40942E 00	2.47315E-02	
25.30	7.58396E-04	1.36545E 00	3.83061E-02	-3.92860E 01	-3.59216E-02	1.42050E 00	2.47327E-02	
25.40	7.64402E-04	1.37636E 00	3.88025E-02	-3.92884E 01	-3.64010E-02	1.43163E 00	2.47340E-02	
25.50	7.70431E-04	1.38731E 00	3.93032E-02	-3.92908E 01	-3.68845E-02	1.44279E 00	2.47353E-02	
25.60	7.76484E-04	1.39830E 00	3.98081E-02	-3.92932E 01	-3.73723E-02	1.45401E 00	2.47365E-02	
25.70	7.82560E-04	1.40934E 00	4.03173E-02	-3.92956E 01	-3.78642E-02	1.46526E 00	2.47378E-02	
25.80	7.88661E-04	1.42042E 00	4.08308E-02	-3.92979E 01	-3.83604E-02	1.47656E 00	2.47390E-02	
25.90	7.94785E-04	1.43154E 00	4.13486E-02	-3.93002E 01	-3.88609E-02	1.48790E 00	2.47402E-02	
26.00	8.00932E-04	1.44271E 00	4.18707E-02	-3.93026E 01	-3.93656E-02	1.49928E 00	2.47414E-02	
26.10	8.07103E-04	1.45392E 00	4.23972E-02	-3.93049E 01	-3.98746E-02	1.51071E 00	2.47426E-02	
26.20	8.13298E-04	1.46517E 00	4.29280E-02	-3.93071E 01	-4.03879E-02	1.52218E 00	2.47438E-02	
26.30	8.19517E-04	1.47647E 00	4.34633E-02	-3.93094E 01	-4.09056E-02	1.53369E 00	2.47450E-02	
26.40	8.25759E-04	1.48781E 00	4.40029E-02	-3.93116E 01	-4.14276E-02	1.54525E 00	2.47462E-02	
26.50	8.32025E-04	1.49919E 00	4.45470E-02	-3.93138E 01	-4.19539E-02	1.55685E 00	2.47474E-02	
26.60	8.38315E-04	1.51061E 00	4.50955E-02	-3.93160E 01	-4.24847E-02	1.56849E 00	2.47486E-02	
26.70	8.44628E-04	1.52208E 00	4.56485E-02	-3.93182E 01	-4.30198E-02	1.58018E 00	2.47497E-02	
26.80	8.50966E-04	1.53359E 00	4.62059E-02	-3.93204E 01	-4.35594E-02	1.59190E 00	2.47509E-02	
26.90	8.57326E-04	1.54515E 00	4.67678E-02	-3.93225E 01	-4.41033E-02	1.60368E 00	2.47520E-02	
27.00	8.63711E-04	1.55675E 00	4.73343E-02	-3.93247E 01	-4.46518E-02	1.61549E 00	2.47531E-02	
27.10	8.70119E-04	1.56839E 00	4.79052E-02	-3.93268E 01	-4.52047E-02	1.62735E 00	2.47543E-02	
27.20	8.76551E-04	1.58007E 00	4.84808E-02	-3.93289E 01	-4.57621E-02	1.63925E 00	2.47554E-02	
27.30	8.83006E-04	1.59180E 00	4.90608E-02	-3.93310E 01	-4.63240E-02	1.65119E 00	2.47565E-02	
27.40	8.89485E-04	1.60357E 00	4.96455E-02	-3.93331E 01	-4.68904E-02	1.66318E 00	2.47576E-02	
27.50	8.95988E-04	1.61538E 00	5.02348E-02	-3.93351E 01	-4.74614E-02	1.67521E 00	2.47587E-02	
27.60	9.02514E-04	1.62723E 00	5.08287E-02	-3.93372E 01	-4.80369E-02	1.68728E 00	2.47598E-02	
27.70	9.09064E-04	1.63913E 00	5.14272E-02	-3.93392E 01	-4.86170E-02	1.69940E 00	2.47608E-02	
27.80	9.15638E-04	1.65107E 00	5.20303E-02	-3.93412E 01	-4.92017E-02	1.71155E 00	2.47619E-02	
27.90	9.22236E-04	1.66306E 00	5.26382E-02	-3.93432E 01	-4.97910E-02	1.72376E 00	2.47630E-02	
28.00	9.28857E-04	1.67509E 00	5.32507E-02	-3.93452E 01	-5.03849E-02	1.73600E 00	2.47640E-02	
28.10	9.35501E-04	1.68716E 00	5.38680E-02	-3.93471E 01	-5.09835E-02	1.74829E 00	2.47651E-02	
28.20	9.42170E-04	1.69927E 00	5.44900E-02	-3.93491E 01	-5.15867E-02	1.76062E 00	2.47661E-02	
28.30	9.48862E-04	1.71143E 00	5.51166E-02	-3.93510E 01	-5.21947E-02	1.77299E 00	2.47672E-02	
28.40	9.55578E-04	1.72363E 00	5.57481E-02	-3.93529E 01	-5.28073E-02	1.78541E 00	2.47682E-02	
28.50	9.62317E-04	1.73587E 00	5.63844E-02	-3.93548E 01	-5.34247E-02	1.79787E 00	2.47692E-02	
28.60	9.69081E-04	1.74815E 00	5.70254E-02	-3.93567E 01	-5.40467E-02	1.81037E 00	2.47702E-02	
28.70	9.75867E-04	1.76048E 00	5.76713E-02	-3.93586E 01	-5.46736E-02	1.82292E 00	2.47712E-02	
28.80	9.82678E-04	1.77285E 00	5.83220E-02	-3.93605E 01	-5.53052E-02	1.83550E 00	2.47722E-02	
28.90	9.89512E-04	1.78527E 00	5.89775E-02	-3.93623E 01	-5.59416E-02	1.84813E 00	2.47732E-02	
29.00	9.96370E-04	1.79772E 00	5.96379E-02	-3.93642E 01	-5.65828E-02	1.86081E 00	2.47742E-02	
29.10	1.00325E-03	1.81022E 00	6.03032E-02	-3.93660E 01	-5.72288E-02	1.87353E 00	2.47752E-02	
29.20	1.01016E-03	1.82277E 00	6.09734E-02	-3.93678E 01	-5.78797E-02	1.88628E 00	2.47762E-02	
29.30	1.01709E-03	1.83535E 00	6.16485E-02	-3.93696E 01	-5.85355E-02	1.89909E 00	2.47772E-02	
29.40	1.02404E-03	1.84798E 00	6.23286E-02	-3.93714E 01	-5.91961E-02	1.91193E 00	2.47781E-02	
29.50	1.03101E-03	1.86065E 00	6.30136E-02	-3.93732E 01	-5.98616E-02	1.92482E 00	2.47791E-02	
29.60	1.03801E-03	1.87337E 00	6.37035E-02	-3.93750E 01	-6.05320E-02	1.93775E 00	2.47800E-02	
29.70	1.04504E-03	1.88612E 00	6.43985E-02	-3.93767E 01	-6.12074E-02	1.95073E 00	2.47810E-02	
29.80	1.05209E-03	1.89892E 00	6.50985E-02	-3.93785E 01	-6.18877E-02	1.96374E 00	2.47819E-02	
29.90	1.05916E-03	1.91177E 00	6.58035E-02	-3.93802E 01	-6.25730E-02	1.97680E 00	2.47829E-02	
30.00	1.06625E-03	1.92465E 00	6.65136E-02	-3.93819E 01	-6.32632E-02	1.98991E 00	2.47838E-02	



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=5$		$A=11$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
30.10	8.93606E-01	2.84463E 01	1.62683E 00	-1.04469E-03	-1.54802E 00	2.94448E 01	4.44921E 02	
30.20	8.93602E-01	2.85449E 01	1.63909E 00	-1.04576E-03	-1.56007E 00	2.95438E 01	4.45511E 02	
30.30	8.93599E-01	2.86437E 01	1.65139E 00	-1.04681E-03	-1.57216E 00	2.96429E 01	4.46100E 02	
30.40	8.93595E-01	2.87424E 01	1.66373E 00	-1.04785E-03	-1.58430E 00	2.97419E 01	4.46690E 02	
30.50	8.93592E-01	2.88411E 01	1.67613E 00	-1.04887E-03	-1.59648E 00	2.98410E 01	4.47278E 02	
30.60	8.93588E-01	2.89399E 01	1.68857E 00	-1.04987E-03	-1.60872E 00	2.99402E 01	4.47867E 02	
30.70	8.93585E-01	2.90387E 01	1.70106E 00	-1.05086E-03	-1.62100E 00	3.00393E 01	4.48454E 02	
30.80	8.93581E-01	2.91376E 01	1.71360E 00	-1.05183E-03	-1.63333E 00	3.01385E 01	4.49042E 02	
30.90	8.93578E-01	2.92364E 01	1.72618E 00	-1.05279E-03	-1.64570E 00	3.02377E 01	4.49629E 02	
31.00	8.93574E-01	2.93353E 01	1.73881E 00	-1.05373E-03	-1.65813E 00	3.03369E 01	4.50216E 02	
31.10	8.93571E-01	2.94342E 01	1.75149E 00	-1.05466E-03	-1.67060E 00	3.04362E 01	4.50802E 02	
31.20	8.93567E-01	2.95332E 01	1.76422E 00	-1.05557E-03	-1.68312E 00	3.05355E 01	4.51389E 02	
31.30	8.93564E-01	2.96321E 01	1.77700E 00	-1.05646E-03	-1.69569E 00	3.06348E 01	4.51974E 02	
31.40	8.93560E-01	2.97311E 01	1.78982E 00	-1.05735E-03	-1.70831E 00	3.07341E 01	4.52559E 02	
31.50	8.93557E-01	2.98301E 01	1.80269E 00	-1.05821E-03	-1.72097E 00	3.08335E 01	4.53146E 02	
31.60	8.93554E-01	2.99292E 01	1.81561E 00	-1.05906E-03	-1.73368E 00	3.09329E 01	4.53731E 02	
31.70	8.93550E-01	3.00282E 01	1.82858E 00	-1.05990E-03	-1.74644E 00	3.10323E 01	4.54315E 02	
31.80	8.93547E-01	3.01273E 01	1.84159E 00	-1.06072E-03	-1.75925E 00	3.11317E 01	4.54900E 02	
31.90	8.93543E-01	3.02264E 01	1.85465E 00	-1.06153E-03	-1.77210E 00	3.12312E 01	4.55484E 02	
32.00	8.93540E-01	3.03256E 01	1.86776E 00	-1.06232E-03	-1.78501E 00	3.13307E 01	4.56068E 02	
32.10	8.93536E-01	3.04247E 01	1.88092E 00	-1.06310E-03	-1.79796E 00	3.14302E 01	4.56652E 02	
32.20	8.93533E-01	3.05239E 01	1.89413E 00	-1.06387E-03	-1.81096E 00	3.15298E 01	4.57236E 02	
32.30	8.93530E-01	3.06231E 01	1.90738E 00	-1.06462E-03	-1.82400E 00	3.16293E 01	4.57819E 02	
32.40	8.93526E-01	3.07224E 01	1.92069E 00	-1.06536E-03	-1.83710E 00	3.17289E 01	4.58402E 02	
32.50	8.93523E-01	3.08217E 01	1.93404E 00	-1.06608E-03	-1.85024E 00	3.18286E 01	4.58987E 02	
32.60	8.93520E-01	3.09210E 01	1.94743E 00	-1.06679E-03	-1.86344E 00	3.19282E 01	4.59569E 02	
32.70	8.93516E-01	3.10203E 01	1.96088E 00	-1.06749E-03	-1.87668E 00	3.20279E 01	4.60152E 02	
32.80	8.93513E-01	3.11196E 01	1.97437E 00	-1.06817E-03	-1.88996E 00	3.21276E 01	4.60736E 02	
32.90	8.93510E-01	3.12190E 01	1.98792E 00	-1.06884E-03	-1.90330E 00	3.22274E 01	4.61319E 02	
33.00	8.93506E-01	3.13184E 01	2.00151E 00	-1.06950E-03	-1.91669E 00	3.23272E 01	4.61901E 02	
33.10	8.93503E-01	3.14178E 01	2.01515E 00	-1.07014E-03	-1.93012E 00	3.24270E 01	4.62484E 02	
33.20	8.93500E-01	3.15173E 01	2.02883E 00	-1.07077E-03	-1.94360E 00	3.25268E 01	4.63067E 02	
33.30	8.93496E-01	3.16168E 01	2.04257E 00	-1.07139E-03	-1.95713E 00	3.26266E 01	4.63650E 02	
33.40	8.93493E-01	3.17163E 01	2.05635E 00	-1.07199E-03	-1.97071E 00	3.27265E 01	4.64232E 02	
33.50	8.93490E-01	3.18158E 01	2.07019E 00	-1.07258E-03	-1.98433E 00	3.28264E 01	4.64815E 02	
33.60	8.93487E-01	3.19154E 01	2.08407E 00	-1.07316E-03	-1.99801E 00	3.29264E 01	4.65399E 02	
33.70	8.93483E-01	3.20150E 01	2.09800E 00	-1.07372E-03	-2.01173E 00	3.30264E 01	4.65981E 02	
33.80	8.93480E-01	3.21146E 01	2.11197E 00	-1.07428E-03	-2.02551E 00	3.31264E 01	4.66564E 02	
33.90	8.93477E-01	3.22143E 01	2.12600E 00	-1.07481E-03	-2.03933E 00	3.32264E 01	4.67148E 02	
34.00	8.93474E-01	3.23139E 01	2.14007E 00	-1.07535E-03	-2.05320E 00	3.33264E 01	4.67730E 02	
34.10	8.93470E-01	3.24136E 01	2.15420E 00	-1.07586E-03	-2.06711E 00	3.34265E 01	4.68314E 02	
34.20	8.93467E-01	3.25134E 01	2.16837E 00	-1.07636E-03	-2.08108E 00	3.35266E 01	4.68898E 02	
34.30	8.93464E-01	3.26131E 01	2.18259E 00	-1.07685E-03	-2.09510E 00	3.36268E 01	4.69481E 02	
34.40	8.93461E-01	3.27129E 01	2.19686E 00	-1.07734E-03	-2.10916E 00	3.37270E 01	4.70063E 02	
34.50	8.93458E-01	3.28127E 01	2.21117E 00	-1.07780E-03	-2.12327E 00	3.38272E 01	4.70647E 02	
34.60	8.93454E-01	3.29126E 01	2.22554E 00	-1.07826E-03	-2.13743E 00	3.39274E 01	4.71231E 02	
34.70	8.93451E-01	3.30125E 01	2.23995E 00	-1.07869E-03	-2.15164E 00	3.40277E 01	4.71817E 02	
34.80	8.93448E-01	3.31124E 01	2.25442E 00	-1.07913E-03	-2.16590E 00	3.41279E 01	4.72400E 02	
34.90	8.93445E-01	3.32123E 01	2.26893E 00	-1.07955E-03	-2.18021E 00	3.42283E 01	4.72985E 02	
35.00	8.93442E-01	3.33122E 01	2.28349E 00	-1.07995E-03	-2.19457E 00	3.43286E 01	4.73570E 02	
35.10	8.93439E-01	3.34122E 01	2.29810E 00	-1.08035E-03	-2.20897E 00	3.44290E 01	4.74154E 02	
35.20	8.93435E-01	3.35122E 01	2.31276E 00	-1.08074E-03	-2.22343E 00	3.45294E 01	4.74738E 02	
35.30	8.93432E-01	3.36123E 01	2.32746E 00	-1.08111E-03	-2.23793E 00	3.46298E 01	4.75325E 02	
35.40	8.93429E-01	3.37124E 01	2.34222E 00	-1.08147E-03	-2.25248E 00	3.47303E 01	4.75910E 02	
35.50	8.93426E-01	3.38125E 01	2.35702E 00	-1.08182E-03	-2.26709E 00	3.48308E 01	4.76496E 02	
35.60	8.93423E-01	3.39126E 01	2.37188E 00	-1.08216E-03	-2.28174E 00	3.49313E 01	4.77083E 02	
35.70	8.93420E-01	3.40127E 01	2.38678E 00	-1.08249E-03	-2.29644E 00	3.50319E 01	4.77669E 02	
35.80	8.93417E-01	3.41129E 01	2.40173E 00	-1.08281E-03	-2.31119E 00	3.51325E 01	4.78256E 02	
35.90	8.93414E-01	3.42131E 01	2.41673E 00	-1.08312E-03	-2.32598E 00	3.52331E 01	4.78843E 02	
36.00	8.93411E-01	3.43134E 01	2.43179E 00	-1.08341E-03	-2.34083E 00	3.53337E 01	4.79430E 02	

## ELECTRON RADIAL FUNCTIONS

	$Z=5$	$A=11$	$\rho=1.2 A^{1/3} F$			Positron	
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$
30.10	1.07337E-03	1.93758E 00	6.72287E-02	-3.93836E 01	-6.39586E-02	2.00305E 00	2.47847E-02
30.20	1.08051E-03	1.95056E 00	6.79489E-02	-3.93853E 01	-6.46589E-02	2.01624E 00	2.47856E-02
30.30	1.08768E-03	1.96357E 00	6.86742E-02	-3.93870E 01	-6.53642E-02	2.02947E 00	2.47865E-02
30.40	1.09487E-03	1.97663E 00	6.94046E-02	-3.93887E 01	-6.60746E-02	2.04275E 00	2.47874E-02
30.50	1.10208E-03	1.98973E 00	7.01402E-02	-3.93903E 01	-6.67900E-02	2.05607E 00	2.47883E-02
30.60	1.10932E-03	2.00287E 00	7.08809E-02	-3.93920E 01	-6.75106E-02	2.06943E 00	2.47892E-02
30.70	1.11658E-03	2.01606E 00	7.16267E-02	-3.93936E 01	-6.82362E-02	2.08283E 00	2.47901E-02
30.80	1.12386E-03	2.02929E 00	7.23778E-02	-3.93952E 01	-6.89670E-02	2.09627E 00	2.47910E-02
30.90	1.13117E-03	2.04256E 00	7.31340E-02	-3.93968E 01	-6.97030E-02	2.10976E 00	2.47919E-02
31.00	1.13850E-03	2.05587E 00	7.38955E-02	-3.93985E 01	-7.04441E-02	2.12329E 00	2.47928E-02
31.10	1.14585E-03	2.06923E 00	7.46622E-02	-3.94000E 01	-7.11903E-02	2.13687E 00	2.47936E-02
31.20	1.15323E-03	2.08263E 00	7.54342E-02	-3.94016E 01	-7.19418E-02	2.15048E 00	2.47945E-02
31.30	1.16063E-03	2.09607E 00	7.62115E-02	-3.94032E 01	-7.26985E-02	2.16414E 00	2.47953E-02
31.40	1.16806E-03	2.10956E 00	7.69940E-02	-3.94048E 01	-7.34604E-02	2.17785E 00	2.47962E-02
31.50	1.17551E-03	2.12309E 00	7.77819E-02	-3.94063E 01	-7.42276E-02	2.19159E 00	2.47970E-02
31.60	1.18298E-03	2.13666E 00	7.85751E-02	-3.94079E 01	-7.50001E-02	2.20538E 00	2.47979E-02
31.70	1.19048E-03	2.15027E 00	7.93736E-02	-3.94094E 01	-7.57778E-02	2.21921E 00	2.47987E-02
31.80	1.19800E-03	2.16393E 00	8.01775E-02	-3.94109E 01	-7.65608E-02	2.23308E 00	2.47995E-02
31.90	1.20555E-03	2.17763E 00	8.09868E-02	-3.94124E 01	-7.73492E-02	2.24700E 00	2.48004E-02
32.00	1.21311E-03	2.19137E 00	8.18015E-02	-3.94139E 01	-7.81429E-02	2.26096E 00	2.48012E-02
32.10	1.22071E-03	2.20516E 00	8.26216E-02	-3.94154E 01	-7.89420E-02	2.27496E 00	2.48020E-02
32.20	1.22832E-03	2.21899E 00	8.34471E-02	-3.94169E 01	-7.97464E-02	2.28901E 00	2.48028E-02
32.30	1.23596E-03	2.23286E 00	8.42781E-02	-3.94184E 01	-8.05562E-02	2.30309E 00	2.48036E-02
32.40	1.24362E-03	2.24677E 00	8.51146E-02	-3.94198E 01	-8.13715E-02	2.31722E 00	2.48044E-02
32.50	1.25131E-03	2.26073E 00	8.59565E-02	-3.94213E 01	-8.21921E-02	2.33140E 00	2.48052E-02
32.60	1.25902E-03	2.27472E 00	8.68039E-02	-3.94227E 01	-8.30183E-02	2.34561E 00	2.48060E-02
32.70	1.26675E-03	2.28877E 00	8.76569E-02	-3.94242E 01	-8.38499E-02	2.35987E 00	2.48068E-02
32.80	1.27451E-03	2.30285E 00	8.85154E-02	-3.94256E 01	-8.46869E-02	2.37417E 00	2.48076E-02
32.90	1.28229E-03	2.31698E 00	8.93795E-02	-3.94270E 01	-8.55295E-02	2.38851E 00	2.48084E-02
33.00	1.29010E-03	2.33115E 00	9.02491E-02	-3.94284E 01	-8.63776E-02	2.40290E 00	2.48091E-02
33.10	1.29792E-03	2.34536E 00	9.11244E-02	-3.94298E 01	-8.72312E-02	2.41733E 00	2.48099E-02
33.20	1.30578E-03	2.35962E 00	9.20052E-02	-3.94312E 01	-8.80903E-02	2.43180E 00	2.48107E-02
33.30	1.31365E-03	2.37391E 00	9.28917E-02	-3.94326E 01	-8.89551E-02	2.44631E 00	2.48114E-02
33.40	1.32155E-03	2.38825E 00	9.37839E-02	-3.94340E 01	-8.98254E-02	2.46087E 00	2.48122E-02
33.50	1.32947E-03	2.40264E 00	9.46816E-02	-3.94354E 01	-9.07013E-02	2.47547E 00	2.48130E-02
33.60	1.33742E-03	2.41706E 00	9.55851E-02	-3.94367E 01	-9.15829E-02	2.49011E 00	2.48137E-02
33.70	1.34539E-03	2.43153E 00	9.64943E-02	-3.94381E 01	-9.24701E-02	2.50480E 00	2.48145E-02
33.80	1.35339E-03	2.44604E 00	9.74092E-02	-3.94394E 01	-9.33629E-02	2.51952E 00	2.48152E-02
33.90	1.36140E-03	2.46060E 00	9.83298E-02	-3.94407E 01	-9.42615E-02	2.53429E 00	2.48159E-02
34.00	1.36945E-03	2.47519E 00	9.92562E-02	-3.94421E 01	-9.51657E-02	2.54911E 00	2.48167E-02
34.10	1.37751E-03	2.48983E 00	1.00188E-01	-3.94434E 01	-9.60756E-02	2.56396E 00	2.48174E-02
34.20	1.38560E-03	2.50451E 00	1.01126E-01	-3.94447E 01	-9.69913E-02	2.57886E 00	2.48181E-02
34.30	1.39371E-03	2.51924E 00	1.02070E-01	-3.94460E 01	-9.79127E-02	2.59380E 00	2.48188E-02
34.40	1.40185E-03	2.53401E 00	1.03020E-01	-3.94473E 01	-9.88399E-02	2.60878E 00	2.48195E-02
34.50	1.41001E-03	2.54881E 00	1.03975E-01	-3.94486E 01	-9.97728E-02	2.62381E 00	2.48203E-02
34.60	1.41819E-03	2.56367E 00	1.04936E-01	-3.94499E 01	-1.00712E-01	2.63888E 00	2.48210E-02
34.70	1.42640E-03	2.57856E 00	1.05903E-01	-3.94511E 01	-1.01656E-01	2.65399E 00	2.48217E-02
34.80	1.43463E-03	2.59350E 00	1.06877E-01	-3.94524E 01	-1.02607E-01	2.66914E 00	2.48224E-02
34.90	1.44288E-03	2.60848E 00	1.07855E-01	-3.94536E 01	-1.03563E-01	2.68434E 00	2.48231E-02
35.00	1.45116E-03	2.62350E 00	1.08840E-01	-3.94549E 01	-1.04525E-01	2.69958E 00	2.48238E-02
35.10	1.45946E-03	2.63857E 00	1.09831E-01	-3.94561E 01	-1.05493E-01	2.71486E 00	2.48244E-02
35.20	1.46779E-03	2.65367E 00	1.10828E-01	-3.94574E 01	-1.06467E-01	2.73018E 00	2.48251E-02
35.30	1.47614E-03	2.66882E 00	1.11831E-01	-3.94586E 01	-1.07447E-01	2.74555E 00	2.48258E-02
35.40	1.48451E-03	2.68402E 00	1.12840E-01	-3.94598E 01	-1.08433E-01	2.76096E 00	2.48265E-02
35.50	1.49291E-03	2.69925E 00	1.13854E-01	-3.94610E 01	-1.09424E-01	2.77641E 00	2.48272E-02
35.60	1.50133E-03	2.71453E 00	1.14875E-01	-3.94622E 01	-1.10422E-01	2.79190E 00	2.48278E-02
35.70	1.50977E-03	2.72985E 00	1.15902E-01	-3.94634E 01	-1.11426E-01	2.80744E 00	2.48285E-02
35.80	1.51824E-03	2.74521E 00	1.16935E-01	-3.94646E 01	-1.12435E-01	2.82302E 00	2.48292E-02
35.90	1.52673E-03	2.76062E 00	1.17974E-01	-3.94658E 01	-1.13451E-01	2.83864E 00	2.48298E-02
36.00	1.53524E-03	2.77607E 00	1.19019E-01	-3.94670E 01	-1.14473E-01	2.85430E 00	2.48305E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=5$		$A=11$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
36.10	8.93407E-01	3.44137E 01	2.44689E 00	-1.08369E-03	-2.35573E 00	3.54344E 01	4.80018E 02	
36.20	8.93405E-01	3.45140E 01	2.46203E 00	-1.08397E-03	-2.37068E 00	3.55351E 01	4.80606E 02	
36.30	8.93401E-01	3.46143E 01	2.47723E 00	-1.08423E-03	-2.38567E 00	3.56359E 01	4.81195E 02	
36.40	8.93398E-01	3.47147E 01	2.49248E 00	-1.08449E-03	-2.40072E 00	3.57366E 01	4.81783E 02	
36.50	8.93395E-01	3.48151E 01	2.50777E 00	-1.08472E-03	-2.41581E 00	3.58375E 01	4.82373E 02	
36.60	8.93392E-01	3.49155E 01	2.52312E 00	-1.08496E-03	-2.43095E 00	3.59383E 01	4.82962E 02	
36.70	8.93389E-01	3.50159E 01	2.53851E 00	-1.08518E-03	-2.44615E 00	3.60392E 01	4.83552E 02	
36.80	8.93386E-01	3.51164E 01	2.55396E 00	-1.08539E-03	-2.46139E 00	3.61400E 01	4.84143E 02	
36.90	8.93383E-01	3.52169E 01	2.56945E 00	-1.08559E-03	-2.47668E 00	3.62410E 01	4.84734E 02	
37.00	8.93380E-01	3.53175E 01	2.58500E 00	-1.08578E-03	-2.49202E 00	3.63419E 01	4.85325E 02	
37.10	8.93377E-01	3.54181E 01	2.60059E 00	-1.08595E-03	-2.50741E 00	3.64429E 01	4.85918E 02	
37.20	8.93374E-01	3.55187E 01	2.61623E 00	-1.08612E-03	-2.52285E 00	3.65439E 01	4.86511E 02	
37.30	8.93371E-01	3.56193E 01	2.63192E 00	-1.08628E-03	-2.53834E 00	3.66450E 01	4.87103E 02	
37.40	8.93368E 01	3.57200E 01	2.64766E 00	-1.08643E-03	-2.55388E 00	3.67461E 01	4.87696E 02	
37.50	8.93365E-01	3.58207E 01	2.66345E 00	-1.08657E-03	-2.56947E 00	3.68472E 01	4.88290E 02	
37.60	8.93363E-01	3.59214E 01	2.67929E 00	-1.08670E-03	-2.58511E 00	3.69484E 01	4.88885E 02	
37.70	8.93360E-01	3.60222E 01	2.69518E 00	-1.08682E-03	-2.60080E 00	3.70495E 01	4.89480E 02	
37.80	8.93357E-01	3.61229E 01	2.71112E 00	-1.08693E-03	-2.61654E 00	3.71507E 01	4.90075E 02	
37.90	8.93354E-01	3.62238E 01	2.72711E 00	-1.08702E-03	-2.63233E 00	3.72520E 01	4.90671E 02	
38.00	8.93351E-01	3.63246E 01	2.74315E 00	-1.08711E-03	-2.64817E 00	3.73533E 01	4.91268E 02	
38.10	8.93348E-01	3.64255E 01	2.75924E 00	-1.08719E-03	-2.66406E 00	3.74546E 01	4.91865E 02	
38.20	8.93345E-01	3.65264E 01	2.77538E 00	-1.08726E-03	-2.67999E 00	3.75559E 01	4.92464E 02	
38.30	8.93342E-01	3.66274E 01	2.79157E 00	-1.08732E-03	-2.69598E 00	3.76573E 01	4.93062E 02	
38.40	8.93339E-01	3.67283E 01	2.80780E 00	-1.08737E-03	-2.71202E 00	3.77587E 01	4.93662E 02	
38.50	8.93336E-01	3.68293E 01	2.82409E 00	-1.08741E-03	-2.72811E 00	3.78601E 01	4.94261E 02	
38.60	8.93333E-01	3.69304E 01	2.84043E 00	-1.08744E-03	-2.74425E 00	3.79616E 01	4.94861E 02	
38.70	8.93331E-01	3.70314E 01	2.85682E 00	-1.08746E-03	-2.76044E 00	3.80631E 01	4.95464E 02	
38.80	8.93328E-01	3.71325E 01	2.87326E 00	-1.08747E-03	-2.77668E 00	3.81647E 01	4.96065E 02	
38.90	8.93325E-01	3.72337E 01	2.88975E 00	-1.08748E-03	-2.79297E 00	3.82662E 01	4.96667E 02	
39.00	8.93322E-01	3.73348E 01	2.90628E 00	-1.08747E-03	-2.80931E 00	3.83678E 01	4.97271E 02	
39.10	8.93319E-01	3.74360E 01	2.92287E 00	-1.08746E-03	-2.82569E 00	3.84695E 01	4.97874E 02	
39.20	8.93316E-01	3.75373E 01	2.93951E 00	-1.08743E-03	-2.84213E 00	3.85711E 01	4.98480E 02	
39.30	8.93313E-01	3.76385E 01	2.95620E 00	-1.08740E-03	-2.85862E 00	3.86728E 01	4.99084E 02	
39.40	8.93310E-01	3.77398E 01	2.97294E 00	-1.08735E-03	-2.87517E 00	3.87746E 01	4.99691E 02	
39.50	8.93308E-01	3.78412E 01	2.98973E 00	-1.08730E-03	-2.89176E 00	3.88764E 01	5.00298E 02	
39.60	8.93305E-01	3.79425E 01	3.00657E 00	-1.08724E-03	-2.90840E 00	3.89782E 01	5.00905E 02	
39.70	8.93302E-01	3.80439E 01	3.02346E 00	-1.08717E-03	-2.92509E 00	3.90800E 01	5.01513E 02	
39.80	8.93299E-01	3.81453E 01	3.04040E 00	-1.08709E-03	-2.94183E 00	3.91819E 01	5.02122E 02	
39.90	8.93296E-01	3.82468E 01	3.05739E 00	-1.08700E-03	-2.95863E 00	3.92838E 01	5.02734E 02	
40.00	8.93293E-01	3.83483E 01	3.07443E 00	-1.08691E-03	-2.97547E 00	3.93857E 01	5.03343E 02	
40.10	8.93291E-01	3.84498E 01	3.09152E 00	-1.08680E-03	-2.99236E 00	3.94877E 01	5.03955E 02	
40.20	8.93288E-01	3.85513E 01	3.10867E 00	-1.08669E-03	-3.00931E 00	3.95897E 01	5.04567E 02	
40.30	8.93285E-01	3.86529E 01	3.12586E 00	-1.08656E-03	-3.02630E 00	3.96917E 01	5.05181E 02	
40.40	8.93282E-01	3.87546E 01	3.14310E 00	-1.08643E-03	-3.04335E 00	3.97938E 01	5.05795E 02	
40.50	8.93279E-01	3.88562E 01	3.16040E 00	-1.08630E-03	-3.06045E 00	3.98959E 01	5.06409E 02	
40.60	8.93277E-01	3.89579E 01	3.17774E 00	-1.08615E-03	-3.07760E 00	3.99981E 01	5.07025E 02	
40.70	8.93274E-01	3.90596E 01	3.19514E 00	-1.08599E-03	-3.09480E 00	4.01003E 01	5.07642E 02	
40.80	8.93271E-01	3.91614E 01	3.21259E 00	-1.08582E-03	-3.11204E 00	4.02025E 01	5.08260E 02	
40.90	8.93268E-01	3.92632E 01	3.23008E 00	-1.08565E-03	-3.12935E 00	4.03047E 01	5.08878E 02	
41.00	8.93266E-01	3.93650E 01	3.24763E 00	-1.08546E-03	-3.14670E 00	4.04070E 01	5.09499E 02	
41.10	8.93263E-01	3.94668E 01	3.26523E 00	-1.08527E-03	-3.16410E 00	4.05093E 01	5.10119E 02	
41.20	8.93260E-01	3.95687E 01	3.28288E 00	-1.08508E-03	-3.18155E 00	4.06117E 01	5.10738E 02	
41.30	8.93257E-01	3.96707E 01	3.30058E 00	-1.08487E-03	-3.19906E 00	4.07141E 01	5.11361E 02	
41.40	8.93255E-01	3.97726E 01	3.31833E 00	-1.08465E-03	-3.21661E 00	4.08165E 01	5.11985E 02	
41.50	8.93252E-01	3.98746E 01	3.33613E 00	-1.08443E-03	-3.23422E 00	4.09190E 01	5.12609E 02	
41.60	8.93249E-01	3.99766E 01	3.35399E 00	-1.08419E-03	-3.25188E 00	4.10215E 01	5.13236E 02	
41.70	8.93247E-01	4.00787E 01	3.37189E 00	-1.08396E-03	-3.26959E 00	4.11240E 01	5.13861E 02	
41.80	8.93244E-01	4.01808E 01	3.38985E 00	-1.08371E-03	-3.28735E 00	4.12266E 01	5.14488E 02	
41.90	8.93241E-01	4.02829E 01	3.40786E 00	-1.08345E-03	-3.30516E 00	4.13292E 01	5.15117E 02	
42.00	8.93238E-01	4.03851E 01	3.42592E 00	-1.08319E-03	-3.32303E 00	4.14318E 01	5.15746E 02	

## ELECTRON RADIAL FUNCTIONS

	$Z = 5$	$A = 11$	$\rho = 1.2 A^{1/3} F$		Positron		
$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
36.10	1.54378E-03	2.79156E 00	1.20070E-01	-3.94681E 01	-1.15501E-01	2.87001E 00	2.48311E-02
36.20	1.55235E-03	2.80709E 00	1.21128E-01	-3.94693E 01	-1.16535E-01	2.88576E 00	2.48318E-02
36.30	1.56093E-03	2.82266E 00	1.22191E-01	-3.94705E 01	-1.17575E-01	2.90155E 00	2.48324E-02
36.40	1.56954E-03	2.83828E 00	1.23261E-01	-3.94716E 01	-1.18621E-01	2.91738E 00	2.48331E-02
36.50	1.57817E-03	2.85394E 00	1.24337E-01	-3.94728E 01	-1.19673E-01	2.93326E 00	2.48337E-02
36.60	1.58683E-03	2.86965E 00	1.25419E-01	-3.94739E 01	-1.20732E-01	2.94918E 00	2.48344E-02
36.70	1.59551E-03	2.88539E 00	1.26508E-01	-3.94750E 01	-1.21796E-01	2.96514E 00	2.48350E-02
36.80	1.60422E-03	2.90118E 00	1.27602E-01	-3.94762E 01	-1.22867E-01	2.98114E 00	2.48356E-02
36.90	1.61294E-03	2.91701E 00	1.28703E-01	-3.94773E 01	-1.23944E-01	2.99719E 00	2.48362E-02
37.00	1.62170E-03	2.93288E 00	1.29810E-01	-3.94784E 01	-1.25028E-01	3.01328E 00	2.48369E-02
37.10	1.63047E-03	2.94880E 00	1.30924E-01	-3.94795E 01	-1.26117E-01	3.02941E 00	2.48375E-02
37.20	1.63927E-03	2.96475E 00	1.32044E-01	-3.94806E 01	-1.27213E-01	3.04558E 00	2.48381E-02
37.30	1.64809E-03	2.98075E 00	1.33170E-01	-3.94817E 01	-1.28315E-01	3.06180E 00	2.48387E-02
37.40	1.65694E-03	2.99679E 00	1.34302E-01	-3.94828E 01	-1.29423E-01	3.07805E 00	2.48393E-02
37.50	1.66581E-03	3.01288E 00	1.35441E-01	-3.94838E 01	-1.30538E-01	3.09435E 00	2.48399E-02
37.60	1.67470E-03	3.02901E 00	1.36586E-01	-3.94849E 01	-1.31659E-01	3.11070E 00	2.48405E-02
37.70	1.68362E-03	3.04518E 00	1.37738E-01	-3.94860E 01	-1.32786E-01	3.12708E 00	2.48411E-02
37.80	1.69256E-03	3.06139E 00	1.38896E-01	-3.94871E 01	-1.33920E-01	3.14351E 00	2.48417E-02
37.90	1.70153E-03	3.07764E 00	1.40060E-01	-3.94881E 01	-1.35060E-01	3.15998E 00	2.48423E-02
38.00	1.71051E-03	3.09394E 00	1.41231E-01	-3.94892E 01	-1.36206E-01	3.17649E 00	2.48429E-02
38.10	1.71953E-03	3.11028E 00	1.42409E-01	-3.94902E 01	-1.37359E-01	3.19305E 00	2.48435E-02
38.20	1.72856E-03	3.12666E 00	1.43593E-01	-3.94913E 01	-1.38518E-01	3.20964E 00	2.48441E-02
38.30	1.73762E-03	3.14308E 00	1.44783E-01	-3.94923E 01	-1.39684E-01	3.22628E 00	2.48447E-02
38.40	1.74670E-03	3.15955E 00	1.45980E-01	-3.94933E 01	-1.40856E-01	3.24296E 00	2.48453E-02
38.50	1.75581E-03	3.17605E 00	1.47183E-01	-3.94943E 01	-1.42035E-01	3.25969E 00	2.48459E-02
38.60	1.76494E-03	3.19260E 00	1.48393E-01	-3.94954E 01	-1.43220E-01	3.27645E 00	2.48464E-02
38.70	1.77409E-03	3.20920E 00	1.49610E-01	-3.94964E 01	-1.44412E-01	3.29326E 00	2.48470E-02
38.80	1.78327E-03	3.22583E 00	1.50833E-01	-3.94974E 01	-1.45610E-01	3.31011E 00	2.48476E-02
38.90	1.79247E-03	3.24251E 00	1.52063E-01	-3.94984E 01	-1.46815E-01	3.32700E 00	2.48481E-02
39.00	1.80170E-03	3.25923E 00	1.53300E-01	-3.94994E 01	-1.48026E-01	3.34394E 00	2.48487E-02
39.10	1.81095E-03	3.27599E 00	1.54543E-01	-3.95004E 01	-1.49244E-01	3.36092E 00	2.48493E-02
39.20	1.82022E-03	3.29279E 00	1.55792E-01	-3.95014E 01	-1.50468E-01	3.37794E 00	2.48498E-02
39.30	1.82951E-03	3.30964E 00	1.57049E-01	-3.95023E 01	-1.51700E-01	3.39500E 00	2.48504E-02
39.40	1.83883E-03	3.32653E 00	1.58312E-01	-3.95033E 01	-1.52937E-01	3.41210E 00	2.48509E-02
39.50	1.84818E-03	3.34346E 00	1.59582E-01	-3.95043E 01	-1.54182E-01	3.42925E 00	2.48515E-02
39.60	1.85754E-03	3.36043E 00	1.60859E-01	-3.95053E 01	-1.55433E-01	3.44644E 00	2.48520E-02
39.70	1.86693E-03	3.37745E 00	1.62142E-01	-3.95062E 01	-1.56691E-01	3.46367E 00	2.48526E-02
39.80	1.87635E-03	3.39451E 00	1.63432E-01	-3.95072E 01	-1.57955E-01	3.48094E 00	2.48531E-02
39.90	1.88579E-03	3.41161E 00	1.64729E-01	-3.95081E 01	-1.59227E-01	3.49826E 00	2.48537E-02
40.00	1.89525E-03	3.42875E 00	1.66033E-01	-3.95091E 01	-1.60505E-01	3.51561E 00	2.48542E-02
40.10	1.90473E-03	3.44593E 00	1.67343E-01	-3.95100E 01	-1.61790E-01	3.53301E 00	2.48547E-02
40.20	1.91424E-03	3.46316E 00	1.68661E-01	-3.95110E 01	-1.63081E-01	3.55045E 00	2.48553E-02
40.30	1.92378E-03	3.48043E 00	1.69985E-01	-3.95119E 01	-1.64380E-01	3.56794E 00	2.48558E-02
40.40	1.93333E-03	3.49774E 00	1.71316E-01	-3.95128E 01	-1.65685E-01	3.58546E 00	2.48563E-02
40.50	1.94291E-03	3.51509E 00	1.72654E-01	-3.95137E 01	-1.66997E-01	3.60303E 00	2.48569E-02
40.60	1.95251E-03	3.53249E 00	1.73999E-01	-3.95146E 01	-1.68316E-01	3.62064E 00	2.48574E-02
40.70	1.96214E-03	3.54992E 00	1.75351E-01	-3.95156E 01	-1.69642E-01	3.63830E 00	2.48579E-02
40.80	1.97179E-03	3.56740E 00	1.76710E-01	-3.95165E 01	-1.70974E-01	3.65599E 00	2.48584E-02
40.90	1.98147E-03	3.58492E 00	1.78076E-01	-3.95174E 01	-1.72314E-01	3.67373E 00	2.48589E-02
41.00	1.99117E-03	3.60249E 00	1.79448E-01	-3.95183E 01	-1.73660E-01	3.69151E 00	2.48594E-02
41.10	2.00089E-03	3.62009E 00	1.80828E-01	-3.95192E 01	-1.75014E-01	3.70933E 00	2.48600E-02
41.20	2.01063E-03	3.63774E 00	1.82215E-01	-3.95201E 01	-1.76374E-01	3.72719E 00	2.48605E-02
41.30	2.02040E-03	3.65543E 00	1.83609E-01	-3.95209E 01	-1.77741E-01	3.74510E 00	2.48610E-02
41.40	2.03020E-03	3.67316E 00	1.85010E-01	-3.95218E 01	-1.79116E-01	3.76304E 00	2.48615E-02
41.50	2.04001E-03	3.69094E 00	1.86417E-01	-3.95227E 01	-1.80497E-01	3.78103E 00	2.48620E-02
41.60	2.04985E-03	3.70875E 00	1.87832E-01	-3.95236E 01	-1.81885E-01	3.79906E 00	2.48625E-02
41.70	2.05972E-03	3.72661E 00	1.89255E-01	-3.95244E 01	-1.83281E-01	3.81714E 00	2.48630E-02
41.80	2.06960E-03	3.74451E 00	1.90684E-01	-3.95253E 01	-1.84683E-01	3.83525E 00	2.48635E-02
41.90	2.07952E-03	3.76246E 00	1.92120E-01	-3.95261E 01	-1.86093E-01	3.85341E 00	2.48640E-02
42.00	2.08945E-03	3.78044E 00	1.93564E-01	-3.95270E 01	-1.87510E-01	3.87161E 00	2.48645E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6$		$A=12$		$\rho=1.2A^{1/3}F$		
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
0.10	1.89022E-01	3.32774E-03	-4.24641E-05	1.94195E-01	1.07475E-03	6.13992E-02	4.45327E 00
0.20	4.64738E-01	1.94286E-02	-2.47239E-04	9.46184E-02	3.35147E-03	1.91851E-01	8.21152E 00
0.30	6.05600E-01	4.84302E-02	-6.13516E-04	6.29416E-02	5.68695E-03	3.26618E-01	1.21580E 01
0.40	6.84821E-01	8.90368E-02	-1.12095E-03	4.72058E-02	7.96677E-03	4.59622E-01	1.61461E 01
0.50	7.34047E-01	1.39711E-01	-1.74533E-03	3.77508E-02	1.01616E-02	5.89555E-01	2.01396E 01
0.60	7.66845E-01	1.98868E-01	-2.46164E-03	3.14202E-02	1.22597E-02	7.16030E-01	2.41207E 01
0.70	7.89813E-01	2.65020E-01	-3.24623E-03	2.68731E-02	1.42573E-02	8.39030E-01	2.80775E 01
0.80	8.06511E-01	3.36838E-01	-4.07801E-03	2.34419E-02	1.61548E-02	9.58728E-01	3.20020E 01
0.90	8.19008E-01	4.13195E-01	-4.93899E-03	2.07564E-02	1.79555E-02	1.07540E 00	3.58882E 01
1.00	8.28587E-01	4.93161E-01	-5.81429E-03	1.85947E-02	1.96639E-02	1.18935E 00	3.97319E 01
1.10	8.36075E-01	5.75983E-01	-6.69182E-03	1.68156E-02	2.12847E-02	1.30090E 00	4.35302E 01
1.20	8.42026E-01	6.61063E-01	-7.56197E-03	1.53246E-02	2.28231E-02	1.41035E 00	4.72811E 01
1.30	8.46824E-01	7.47928E-01	-8.41711E-03	1.40562E-02	2.42836E-02	1.51798E 00	5.09833E 01
1.40	8.50743E-01	8.36206E-01	-9.25120E-03	1.29637E-02	2.56705E-02	1.62402E 00	5.46362E 01
1.50	8.53978E-01	9.25607E-01	-1.00595E-02	1.20125E-02	2.69875E-02	1.72870E 00	5.82393E 01
1.60	8.56677E-01	1.01590E 00	-1.08384E-02	1.11765E-02	2.82379E-02	1.83219E 00	6.17927E 01
1.70	8.58948E-01	1.10691E 00	-1.15848E-02	1.04361E-02	2.94247E-02	1.93465E 00	6.52967E 01
1.80	8.60873E-01	1.19849E 00	-1.22964E-02	9.77541E-03	3.05501E-02	2.03622E 00	6.87515E 01
1.90	8.62519E-01	1.29054E 00	-1.29715E-02	9.18229E-03	3.16165E-02	2.13702E 00	7.21579E 01
2.00	8.63934E-01	1.38295E 00	-1.36085E-02	8.64678E-03	3.26256E-02	2.23715E 00	7.55163E 01
2.10	8.65159E-01	1.47567E 00	-1.42063E-02	8.16086E-03	3.35789E-02	2.33668E 00	7.88275E 01
2.20	8.66223E-01	1.56864E 00	-1.47639E-02	7.71788E-03	3.44779E-02	2.43569E 00	8.20921E 01
2.30	8.67155E-01	1.66180E 00	-1.52806E-02	7.31241E-03	3.53236E-02	2.53425E 00	8.53110E 01
2.40	8.67973E-01	1.75513E 00	-1.57557E-02	6.93984E-03	3.61171E-02	2.63240E 00	8.84849E 01
2.50	8.68695E-01	1.84860E 00	-1.61888E-02	6.59631E-03	3.68593E-02	2.73020E 00	9.16147E 01
2.60	8.69334E-01	1.94218E 00	-1.65794E-02	6.27856E-03	3.75509E-02	2.82767E 00	9.47011E 01
2.70	8.69902E-01	2.03585E 00	-1.69272E-02	5.98377E-03	3.81925E-02	2.92487E 00	9.77450E 01
2.80	8.70409E-01	2.12959E 00	-1.72319E-02	5.70955E-03	3.87847E-02	3.02181E 00	1.00747E 02
2.90	8.70863E-01	2.22340E 00	-1.74934E-02	5.45380E-03	3.93281E-02	3.11853E 00	1.03708E 02
3.00	8.71270E-01	2.31726E 00	-1.77113E-02	5.21472E-03	3.98230E-02	3.21504E 00	1.06629E 02
3.10	8.71636E-01	2.41117E 00	-1.78856E-02	4.99074E-03	4.02698E-02	3.31137E 00	1.09511E 02
3.20	8.71966E-01	2.50511E 00	-1.80161E-02	4.78045E-03	4.06689E-02	3.40754E 00	1.12354E 02
3.30	8.72265E-01	2.59908E 00	-1.81027E-02	4.58265E-03	4.10206E-02	3.50356E 00	1.15159E 02
3.40	8.72535E-01	2.69307E 00	-1.81453E-02	4.39626E-03	4.13251E-02	3.59944E 00	1.17927E 02
3.50	8.72782E-01	2.78708E 00	-1.81439E-02	4.22030E-03	4.15828E-02	3.69521E 00	1.20659E 02
3.60	8.73005E-01	2.88112E 00	-1.80983E-02	4.05395E-03	4.17937E-02	3.79086E 00	1.23355E 02
3.70	8.73209E-01	2.97516E 00	-1.80085E-02	3.89641E-03	4.19580E-02	3.88641E 00	1.26016E 02
3.80	8.73394E-01	3.06922E 00	-1.78744E-02	3.74702E-03	4.20760E-02	3.98186E 00	1.28642E 02
3.90	8.73564E-01	3.16329E 00	-1.76961E-02	3.60516E-03	4.21478E-02	4.07724E 00	1.31235E 02
4.00	8.73720E-01	3.25737E 00	-1.74735E-02	3.47027E-03	4.21736E-02	4.17254E 00	1.33795E 02
4.10	8.73863E-01	3.35145E 00	-1.72065E-02	3.34185E-03	4.21533E-02	4.26776E 00	1.36323E 02
4.20	8.73994E-01	3.44554E 00	-1.68951E-02	3.21946E-03	4.20873E-02	4.36293E 00	1.38819E 02
4.30	8.74114E-01	3.53963E 00	-1.65393E-02	3.10267E-03	4.19754E-02	4.45803E 00	1.41283E 02
4.40	8.74225E-01	3.63373E 00	-1.61391E-02	2.99111E-03	4.18180E-02	4.55308E 00	1.43717E 02
4.50	8.74326E-01	3.72784E 00	-1.56944E-02	2.88443E-03	4.16149E-02	4.64807E 00	1.46122E 02
4.60	8.74420E-01	3.82194E 00	-1.52053E-02	2.78233E-03	4.13663E-02	4.74303E 00	1.48496E 02
4.70	8.74506E-01	3.91605E 00	-1.46717E-02	2.68451E-03	4.10723E-02	4.83794E 00	1.50842E 02
4.80	8.74586E-01	4.01016E 00	-1.40936E-02	2.59072E-03	4.07329E-02	4.93281E 00	1.53160E 02
4.90	8.74660E-01	4.10427E 00	-1.34711E-02	2.50071E-03	4.03482E-02	5.02765E 00	1.55449E 02
5.00	8.74727E-01	4.19839E 00	-1.28040E-02	2.41427E-03	3.99182E-02	5.12245E 00	1.57712E 02
5.10	8.74790E-01	4.29250E 00	-1.20924E-02	2.33115E-03	3.94429E-02	5.21723E 00	1.59948E 02
5.20	8.74848E-01	4.38662E 00	-1.13362E-02	2.25122E-03	3.89225E-02	5.31197E 00	1.62157E 02
5.30	8.74902E-01	4.48074E 00	-1.05356E-02	2.17426E-03	3.83569E-02	5.40669E 00	1.64341E 02
5.40	8.74951E-01	4.57486E 00	-9.69040E-03	2.10012E-03	3.77462E-02	5.50139E 00	1.66499E 02
5.50	8.74997E-01	4.66898E 00	-8.80067E-03	2.02866E-03	3.70904E-02	5.59607E 00	1.68633E 02
5.60	8.75040E-01	4.76310E 00	-7.86638E-03	1.95972E-03	3.63896E-02	5.69072E 00	1.70742E 02
5.70	8.75079E-01	4.85723E 00	-6.88753E-03	1.89318E-03	3.56437E-02	5.78536E 00	1.72827E 02
5.80	8.75114E-01	4.95135E 00	-5.86412E-03	1.82891E-03	3.48528E-02	5.87998E 00	1.74888E 02
5.90	8.75148E-01	5.04548E 00	-4.79615E-03	1.76680E-03	3.40169E-02	5.97459E 00	1.76927E 02
6.00	8.75179E-01	5.13960E 00	-3.68360E-03	1.70675E-03	3.31360E-02	6.06919E 00	1.78943E 02

ELECTRON RADIAL FUNCTIONS

Z=6

A=12

$\rho = 1.2 A^{1/3} F$

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$		$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	3.14664E-09	7.96937E-07	-5.70229E-09	-2.31124E 00		1.58488E-07	1.58469E-05	1.95249E-01
0.20	2.72298E-08	9.21914E-06	-6.57709E-08	-4.78710E 00		9.27104E-07	9.28951E-05	9.72093E-02
0.30	7.78383E-08	3.44122E-05	-2.44316E-07	-7.10542E 00		2.32961E-06	2.34235E-04	6.70738E-02
0.40	1.55096E-07	8.43084E-05	-5.94604E-07	-9.27020E 00		4.33104E-06	4.37538E-04	5.28294E-02
0.50	2.58705E-07	1.65329E-04	-1.15637E-06	-1.12671E 01		6.88925E-06	7.00105E-04	4.47948E-02
0.60	3.88343E-07	2.82376E-04	-1.95569E-06	-1.30887E 01		9.95981E-06	1.01924E-03	3.98031E-02
0.70	5.43726E-07	4.39009E-04	-3.00648E-06	-1.47360E 01		1.34991E-05	1.39248E-03	3.65085E-02
0.80	7.24616E-07	6.37681E-04	-4.31263E-06	-1.62163E 01		1.74661E-05	1.81770E-03	3.42428E-02
0.90	9.30825E-07	8.80018E-04	-5.87048E-06	-1.75413E 01		2.18232E-05	2.29313E-03	3.26379E-02
1.00	1.16220E-06	1.16704E-03	-7.67083E-06	-1.87247E 01		2.65362E-05	2.81736E-03	3.14759E-02
1.10	1.41863E-06	1.49936E-03	-9.70064E-06	-1.97809E 01		3.15739E-05	3.38929E-03	3.06205E-02
1.20	1.70002E-06	1.87730E-03	-1.19443E-05	-2.07240E 01		3.69079E-05	4.00806E-03	2.99828E-02
1.30	2.00629E-06	2.30101E-03	-1.43845E-05	-2.15673E 01		4.25121E-05	4.67304E-03	2.95030E-02
1.40	2.33739E-06	2.77052E-03	-1.70029E-05	-2.23226E 01		4.83618E-05	5.38372E-03	2.91396E-02
1.50	2.69327E-06	3.28581E-03	-1.97803E-05	-2.30007E 01		5.44339E-05	6.13974E-03	2.88634E-02
1.60	3.07390E-06	3.84681E-03	-2.26976E-05	-2.36111E 01		6.07062E-05	6.94082E-03	2.86533E-02
1.70	3.47925E-06	4.45343E-03	-2.57349E-05	-2.41621E 01		6.71574E-05	7.78675E-03	2.84938E-02
1.80	3.90929E-06	5.10557E-03	-2.88726E-05	-2.46609E 01		7.37667E-05	8.67739E-03	2.83734E-02
1.90	4.36401E-06	5.80314E-03	-3.20910E-05	-2.51136E 01		8.05136E-05	9.61261E-03	2.82835E-02
2.00	4.84339E-06	6.54604E-03	-3.53704E-05	-2.55258E 01		8.73784E-05	1.05923E-02	2.82175E-02
2.10	5.34741E-06	7.33419E-03	-3.86910E-05	-2.59021E 01		9.43412E-05	1.16165E-02	2.81704E-02
2.20	5.87607E-06	8.16749E-03	-4.20333E-05	-2.62465E 01		1.01382E-04	1.26850E-02	2.81383E-02
2.30	6.42937E-06	9.04589E-03	-4.53776E-05	-2.65627E 01		1.08483E-04	1.37979E-02	2.81180E-02
2.40	7.00728E-06	9.96932E-03	-4.87045E-05	-2.68537E 01		1.15623E-04	1.49552E-02	2.81072E-02
2.50	7.60981E-06	1.09377E-02	-5.19945E-05	-2.71221E 01		1.22784E-04	1.61567E-02	2.81040E-02
2.60	8.23695E-06	1.19510E-02	-5.52281E-05	-2.73703E 01		1.29947E-04	1.74026E-02	2.81069E-02
2.70	8.88869E-06	1.30091E-02	-5.83861E-05	-2.76003E 01		1.37092E-04	1.86927E-02	2.81146E-02
2.80	9.56503E-06	1.41121E-02	-6.14491E-05	-2.78140E 01		1.44200E-04	2.00272E-02	2.81262E-02
2.90	1.02660E-05	1.52599E-02	-6.43978E-05	-2.80129E 01		1.51253E-04	2.14059E-02	2.81409E-02
3.00	1.09915E-05	1.64523E-02	-6.72130E-05	-2.81984E 01		1.58231E-04	2.28289E-02	2.81580E-02
3.10	1.17416E-05	1.76895E-02	-6.98754E-05	-2.83718E 01		1.65116E-04	2.42963E-02	2.81770E-02
3.20	1.25163E-05	1.89714E-02	-7.23658E-05	-2.85341E 01		1.71889E-04	2.58079E-02	2.81974E-02
3.30	1.33156E-05	2.02979E-02	-7.46652E-05	-2.86863E 01		1.78530E-04	2.73638E-02	2.82190E-02
3.40	1.41395E-05	2.16690E-02	-7.67542E-05	-2.88292E 01		1.85021E-04	2.89640E-02	2.82415E-02
3.50	1.49880E-05	2.30848E-02	-7.86139E-05	-2.89638E 01		1.91342E-04	3.06085E-02	2.82646E-02
3.60	1.58610E-05	2.45451E-02	-8.02251E-05	-2.90905E 01		1.97476E-04	3.22973E-02	2.82880E-02
3.70	1.67587E-05	2.60500E-02	-8.15687E-05	-2.92102E 01		2.03402E-04	3.40304E-02	2.83118E-02
3.80	1.76809E-05	2.75994E-02	-8.26257E-05	-2.93232E 01		2.09103E-04	3.58078E-02	2.83357E-02
3.90	1.86276E-05	2.91933E-02	-8.33769E-05	-2.94302E 01		2.14558E-04	3.76295E-02	2.83596E-02
4.00	1.95990E-05	3.08318E-02	-8.38033E-05	-2.95316E 01		2.19750E-04	3.94956E-02	2.83834E-02
4.10	2.05949E-05	3.25147E-02	-8.38859E-05	-2.96278E 01		2.24659E-04	4.14059E-02	2.84071E-02
4.20	2.16154E-05	3.42422E-02	-8.36057E-05	-2.97192E 01		2.29266E-04	4.33606E-02	2.84306E-02
4.30	2.26605E-05	3.60140E-02	-8.29435E-05	-2.98061E 01		2.33553E-04	4.53596E-02	2.84539E-02
4.40	2.37302E-05	3.78304E-02	-8.18805E-05	-2.98888E 01		2.37500E-04	4.74030E-02	2.84768E-02
4.50	2.48244E-05	3.96911E-02	-8.03975E-05	-2.99676E 01		2.41089E-04	4.94906E-02	2.84995E-02
4.60	2.59431E-05	4.15962E-02	-7.84756E-05	-3.00428E 01		2.44300E-04	5.16226E-02	2.85219E-02
4.70	2.70865E-05	4.35457E-02	-7.60958E-05	-3.01146E 01		2.47115E-04	5.37989E-02	2.85438E-02
4.80	2.82544E-05	4.55396E-02	-7.32392E-05	-3.01832E 01		2.49516E-04	5.60197E-02	2.85655E-02
4.90	2.94469E-05	4.75779E-02	-6.98866E-05	-3.02489E 01		2.51481E-04	5.82847E-02	2.85867E-02
5.00	3.06640E-05	4.96604E-02	-6.60193E-05	-3.03118E 01		2.52994E-04	6.05940E-02	2.86076E-02
5.10	3.19056E-05	5.17871E-02	-6.16181E-05	-3.03720E 01		2.54035E-04	6.29478E-02	2.86281E-02
5.20	3.31718E-05	5.39581E-02	-5.66641E-05	-3.04298E 01		2.54585E-04	6.53458E-02	2.86482E-02
5.30	3.44625E-05	5.61732E-02	-5.11385E-05	-3.04852E 01		2.54625E-04	6.77882E-02	2.86680E-02
5.40	3.57778E-05	5.84324E-02	-4.50223E-05	-3.05385E 01		2.54136E-04	7.02750E-02	2.86873E-02
5.50	3.71177E-05	6.07355E-02	-3.82966E-05	-3.05897E 01		2.53100E-04	7.28061E-02	2.87063E-02
5.60	3.84822E-05	6.30824E-02	-3.09426E-05	-3.06390E 01		2.51497E-04	7.53816E-02	2.87249E-02
5.70	3.98712E-05	6.54730E-02	-2.29416E-05	-3.06864E 01		2.49309E-04	7.80014E-02	2.87431E-02
5.80	4.12847E-05	6.79067E-02	-1.42747E-05	-3.07321E 01		2.46515E-04	8.06656E-02	2.87610E-02
5.90	4.27229E-05	7.03834E-02	-4.92360E-06	-3.07761E 01		2.43099E-04	8.33741E-02	2.87785E-02
6.00	4.41856E-05	7.29019E-02	5.13002E-06	-3.08185E 01		2.39040E-04	8.61270E-02	2.87956E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6$		$A=12$		$\rho=1.2A^{1/3}F$		
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
6.10	8.75207E-01	5.23373E 00	-2.52647E-03	1.64866E-03	3.22102E-02	6.16377E 00	1.80936E 02
6.20	8.75233E-01	5.32785E 00	-1.32477E-03	1.59243E-03	3.12394E-02	6.25834E 00	1.82908E 02
6.30	8.75257E-01	5.42198E 00	-7.84830E-05	1.53797E-03	3.02238E-02	6.35290E 00	1.84857E 02
6.40	8.75280E-01	5.51611E 00	1.21239E-03	1.48521E-03	2.91632E-02	6.44745E 00	1.86786E 02
6.50	8.75300E-01	5.61023E 00	2.54785E-03	1.43405E-03	2.80577E-02	6.54199E 00	1.88694E 02
6.60	8.75319E-01	5.70436E 00	3.92790E-03	1.38444E-03	2.69073E-02	6.63653E 00	1.90582E 02
6.70	8.75336E-01	5.79848E 00	5.35253E-03	1.33631E-03	2.57120E-02	6.73106E 00	1.92450E 02
6.80	8.75352E-01	5.89259E 00	6.82176E-03	1.28959E-03	2.44718E-02	6.82558E 00	1.94297E 02
6.90	8.75366E-01	5.98669E 00	8.33556E-03	1.24422E-03	2.31868E-02	6.92010E 00	1.96126E 02
7.00	8.75379E-01	6.08080E 00	9.89396E-03	1.20014E-03	2.18569E-02	7.01462E 00	1.97935E 02
7.10	8.75391E-01	6.17488E 00	1.14969E-02	1.15730E-03	2.04822E-02	7.10913E 00	1.99726E 02
7.20	8.75401E-01	6.26895E 00	1.31444E-02	1.11565E-03	1.90626E-02	7.20364E 00	2.01498E 02
7.30	8.75410E-01	6.36299E 00	1.48364E-02	1.07514E-03	1.75982E-02	7.29815E 00	2.03252E 02
7.40	8.75419E-01	6.45699E 00	1.65729E-02	1.03572E-03	1.60889E-02	7.39265E 00	2.04988E 02
7.50	8.75427E-01	6.55093E 00	1.83538E-02	9.97353E-04	1.45348E-02	7.48716E 00	2.06707E 02
7.60	8.75434E-01	6.64479E 00	2.01789E-02	9.60003E-04	1.29358E-02	7.58167E 00	2.08408E 02
7.70	8.75440E-01	6.73849E 00	2.20480E-02	9.23621E-04	1.12920E-02	7.67617E 00	2.10093E 02
7.80	8.75446E-01	6.83193E 00	2.39606E-02	8.88163E-04	9.60341E-03	7.77068E 00	2.11760E 02
7.90	8.75450E-01	6.92476E 00	2.59152E-02	8.53620E-04	7.86994E-03	7.86519E 00	2.13412E 02
8.00	8.75453E-01	7.01592E 00	2.79072E-02	8.19931E-04	6.09163E-03	7.95970E 00	2.15047E 02
8.10	8.75456E-01	7.09846E 00	2.99061E-02	7.87080E-04	4.26848E-03	8.05421E 00	2.16667E 02
8.20	8.75459E-01	7.26117E 00	3.23008E-02	7.55039E-04	2.40050E-03	8.14872E 00	2.18271E 02
8.30	8.75460E-01	7.31796E 00	3.42763E-02	7.23770E-04	4.87667E-04	8.24324E 00	2.19859E 02
8.40	8.75462E-01	7.40745E 00	3.64397E-02	6.93260E-04	-1.47001E-03	8.33776E 00	2.21433E 02
8.50	8.75463E-01	7.49989E 00	3.86608E-02	6.63463E-04	-3.47253E-03	8.43228E 00	2.22991E 02
8.60	8.75463E-01	7.59319E 00	4.09303E-02	6.34362E-04	-5.51989E-03	8.52681E 00	2.24535E 02
8.70	8.75463E-01	7.68684E 00	4.32460E-02	6.05935E-04	-7.61212E-03	8.62134E 00	2.26065E 02
8.80	8.75463E-01	7.78071E 00	4.56075E-02	5.78163E-04	-9.74919E-03	8.71588E 00	2.27580E 02
8.90	8.75462E-01	7.87473E 00	4.80143E-02	5.51022E-04	-1.19311E-02	8.81042E 00	2.29081E 02
9.00	8.75460E-01	7.96881E 00	5.04661E-02	5.24487E-04	-1.41579E-02	8.90496E 00	2.30569E 02
9.10	8.75459E-01	8.06295E 00	5.29629E-02	4.98540E-04	-1.64296E-02	8.99952E 00	2.32043E 02
9.20	8.75457E-01	8.15714E 00	5.55047E-02	4.73163E-04	-1.87461E-02	9.09407E 00	2.33504E 02
9.30	8.75454E-01	8.25136E 00	5.80914E-02	4.48343E-04	-2.11076E-02	9.18864E 00	2.34952E 02
9.40	8.75452E-01	8.34561E 00	6.07230E-02	4.24056E-04	-2.35139E-02	9.28321E 00	2.36387E 02
9.50	8.75449E-01	8.43988E 00	6.33993E-02	4.00287E-04	-2.59651E-02	9.37778E 00	2.37809E 02
9.60	8.75446E-01	8.53418E 00	6.61207E-02	3.77020E-04	-2.84612E-02	9.47237E 00	2.39219E 02
9.70	8.75442E-01	8.62848E 00	6.88868E-02	3.54240E-04	-3.10021E-02	9.56696E 00	2.40616E 02
9.80	8.75439E-01	8.72282E 00	7.16979E-02	3.31940E-04	-3.35880E-02	9.66156E 00	2.42002E 02
9.90	8.75435E-01	8.81716E 00	7.45538E-02	3.10089E-04	-3.62188E-02	9.75616E 00	2.43375E 02
10.00	8.75430E-01	8.91151E 00	7.74545E-02	2.88683E-04	-3.88946E-02	9.85077E 00	2.44737E 02
10.10	8.75426E-01	9.00589E 00	8.04003E-02	2.67711E-04	-4.16152E-02	9.94540E 00	2.46087E 02
10.20	8.75422E-01	9.10028E 00	8.33908E-02	2.47154E-04	-4.43808E-02	1.00400E 01	2.47425E 02
10.30	8.75417E-01	9.19467E 00	8.64262E-02	2.27013E-04	-4.71914E-02	1.01347E 01	2.48753E 02
10.40	8.75412E-01	9.28908E 00	8.95066E-02	2.07258E-04	-5.00469E-02	1.02293E 01	2.50069E 02
10.50	8.75407E-01	9.38350E 00	9.26318E-02	1.87894E-04	-5.29473E-02	1.03240E 01	2.51375E 02
10.60	8.75402E-01	9.47794E 00	9.58020E-02	1.68906E-04	-5.58927E-02	1.04186E 01	2.52670E 02
10.70	8.75396E-01	9.57239E 00	9.90171E-02	1.50277E-04	-5.88831E-02	1.05133E 01	2.53954E 02
10.80	8.75391E-01	9.66684E 00	1.02277E-01	1.32002E-04	-6.19184E-02	1.06080E 01	2.55228E 02
10.90	8.75385E-01	9.76131E 00	1.05582E-01	1.14070E-04	-6.49988E-02	1.07027E 01	2.56491E 02
11.00	8.75379E-01	9.85579E 00	1.08932E-01	9.64758E-05	-6.81241E-02	1.07974E 01	2.57745E 02
11.10	8.75374E-01	9.95029E 00	1.12327E-01	7.92062E-05	-7.12945E-02	1.08921E 01	2.58988E 02
11.20	8.75368E-01	1.00448E 01	1.15767E-01	6.22583E-05	-7.45098E-02	1.09868E 01	2.60222E 02
11.30	8.75362E-01	1.01393E 01	1.19251E-01	4.56149E-05	-7.77702E-02	1.10815E 01	2.61446E 02
11.40	8.75356E-01	1.02338E 01	1.22781E-01	2.92718E-05	-8.10756E-02	1.11763E 01	2.62660E 02
11.50	8.75349E-01	1.03284E 01	1.26356E-01	1.32262E-05	-8.44261E-02	1.12710E 01	2.63866E 02
11.60	8.75343E-01	1.04229E 01	1.29976E-01	-2.54526E-06	-8.78216E-02	1.13658E 01	2.65061E 02
11.70	8.75336E-01	1.05175E 01	1.33640E-01	-1.80225E-05	-9.12622E-02	1.14606E 01	2.66248E 02
11.80	8.75330E-01	1.06120E 01	1.37350E-01	-3.32360E-05	-9.47478E-02	1.15553E 01	2.67426E 02
11.90	8.75323E-01	1.07066E 01	1.41105E-01	-4.81815E-05	-9.82786E-02	1.16501E 01	2.68595E 02
12.00	8.75316E-01	1.08012E 01	1.44905E-01	-6.28659E-05	-1.01854E-01	1.17449E 01	2.69755E 02

## ELECTRON RADIAL FUNCTIONS

 $Z=6$  $A=12$  $\rho=1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	4.56729E-05	7.54611E-02	1.59039E-05	-3.08595E 01	2.34320E-04	8.89243E-02	2.88124E-02
6.20	4.71847E-05	7.80581E-02	2.74142E-05	-3.08991E 01	2.28920E-04	9.17659E-02	2.88288E-02
6.30	4.87211E-05	8.06866E-02	3.96740E-05	-3.09373E 01	2.22820E-04	9.46519E-02	2.88450E-02
6.40	5.02820E-05	8.33281E-02	5.26853E-05	-3.09742E 01	2.16002E-04	9.75822E-02	2.88608E-02
6.50	5.18674E-05	8.59049E-02	6.63937E-05	-3.10100E 01	2.08448E-04	1.00557E-01	2.88762E-02
6.60	5.34775E-05	8.65776E-02	7.90917E-05	-3.10445E 01	2.00137E-04	1.03576E-01	2.88914E-02
6.70	5.51121E-05	9.24616E-02	9.74770E-05	-3.10780E 01	1.91051E-04	1.06639E-01	2.89063E-02
6.80	5.67713E-05	9.50476E-02	1.13582E-04	-3.11104E 01	1.81172E-04	1.09747E-01	2.89208E-02
6.90	5.84550E-05	9.78890E-02	1.30760E-04	-3.11419E 01	1.70479E-04	1.12899E-01	2.89351E-02
7.00	6.01633E-05	1.00821E-01	1.48875E-04	-3.11723E 01	1.58955E-04	1.16096E-01	2.89491E-02
7.10	6.18961E-05	1.03814E-01	1.67920E-04	-3.12019E 01	1.46580E-04	1.19337E-01	2.89628E-02
7.20	6.36535E-05	1.06860E-01	1.87905E-04	-3.12305E 01	1.33336E-04	1.22622E-01	2.89762E-02
7.30	6.54355E-05	1.09955E-01	2.08847E-04	-3.12584E 01	1.19203E-04	1.25952E-01	2.89894E-02
7.40	6.72420E-05	1.13096E-01	2.30760E-04	-3.12854E 01	1.04162E-04	1.29326E-01	2.90023E-02
7.50	6.90730E-05	1.16285E-01	2.53664E-04	-3.13117E 01	8.81952E-05	1.32744E-01	2.90150E-02
7.60	7.09287E-05	1.19519E-01	2.77579E-04	-3.13372E 01	7.12827E-05	1.36207E-01	2.90274E-02
7.70	7.28088E-05	1.22799E-01	3.02522E-04	-3.13620E 01	5.34059E-05	1.39714E-01	2.90396E-02
7.80	7.47135E-05	1.26123E-01	3.28511E-04	-3.13862E 01	3.45458E-05	1.43266E-01	2.90516E-02
7.90	7.66428E-05	1.29493E-01	3.55565E-04	-3.14097E 01	1.46835E-05	1.46861E-01	2.90633E-02
8.00	7.85966E-05	1.32908E-01	3.83705E-04	-3.14325E 01	-6.19999E-06	1.50502E-01	2.90748E-02
8.10	8.05750E-05	1.36367E-01	4.12947E-04	-3.14548E 01	-2.81236E-05	1.54186E-01	2.90861E-02
8.20	8.25780E-05	1.39871E-01	4.43312E-04	-3.14765E 01	-5.11063E-05	1.57915E-01	2.90972E-02
8.30	8.46055E-05	1.43419E-01	4.74818E-04	-3.14976E 01	-7.51670E-05	1.61689E-01	2.91081E-02
8.40	8.66575E-05	1.47012E-01	5.07483E-04	-3.15182E 01	-1.00325E-04	1.65506E-01	2.91188E-02
8.50	8.87341E-05	1.50650E-01	5.41328E-04	-3.15383E 01	-1.26598E-04	1.69368E-01	2.91293E-02
8.60	9.08352E-05	1.54332E-01	5.76371E-04	-3.15579E 01	-1.54007E-04	1.73275E-01	2.91396E-02
8.70	9.29609E-05	1.58059E-01	6.12630E-04	-3.15770E 01	-1.82569E-04	1.77226E-01	2.91497E-02
8.80	9.51111E-05	1.61830E-01	6.50126E-04	-3.15956E 01	-2.12304E-04	1.81221E-01	2.91596E-02
8.90	9.72859E-05	1.65645E-01	6.88875E-04	-3.16138E 01	-2.43230E-04	1.85260E-01	2.91694E-02
9.00	9.94853E-05	1.69506E-01	7.28899E-04	-3.16316E 01	-2.75367E-04	1.89344E-01	2.91790E-02
9.10	1.01709E-04	1.73410E-01	7.70215E-04	-3.16489E 01	-3.08734E-04	1.93472E-01	2.91884E-02
9.20	1.03958E-04	1.77359E-01	8.12842E-04	-3.16659E 01	-3.43349E-04	1.97645E-01	2.91976E-02
9.30	1.06231E-04	1.81353E-01	8.56800E-04	-3.16824E 01	-3.79232E-04	2.01862E-01	2.92067E-02
9.40	1.08528E-04	1.85391E-01	9.02108E-04	-3.16986E 01	-4.16401E-04	2.06123E-01	2.92157E-02
9.50	1.10850E-04	1.89473E-01	9.48783E-04	-3.17145E 01	-4.54875E-04	2.10429E-01	2.92245E-02
9.60	1.13197E-04	1.93599E-01	9.96846E-04	-3.17300E 01	-4.94674E-04	2.14779E-01	2.92331E-02
9.70	1.15568E-04	1.97771E-01	1.04632E-03	-3.17451E 01	-5.35816E-04	2.19174E-01	2.92416E-02
9.80	1.17964E-04	2.01986E-01	1.09721E-03	-3.17599E 01	-5.78320E-04	2.23613E-01	2.92500E-02
9.90	1.20384E-04	2.06246E-01	1.14955E-03	-3.17744E 01	-6.22205E-04	2.28096E-01	2.92582E-02
10.00	1.22829E-04	2.10551E-01	1.20335E-03	-3.17886E 01	-6.67490E-04	2.32623E-01	2.92663E-02
10.10	1.25298E-04	2.14899E-01	1.25863E-03	-3.18025E 01	-7.14194E-04	2.37195E-01	2.92743E-02
10.20	1.27792E-04	2.19293E-01	1.31542E-03	-3.18161E 01	-7.62337E-04	2.41811E-01	2.92821E-02
10.30	1.30311E-04	2.23730E-01	1.37372E-03	-3.18294E 01	-8.11936E-04	2.46472E-01	2.92898E-02
10.40	1.32854E-04	2.28212E-01	1.43357E-03	-3.18424E 01	-8.63010E-04	2.51177E-01	2.92974E-02
10.50	1.35421E-04	2.32739E-01	1.49497E-03	-3.18552E 01	-9.15580E-04	2.55926E-01	2.93048E-02
10.60	1.38013E-04	2.37309E-01	1.55794E-03	-3.18678E 01	-9.69663E-04	2.60720E-01	2.93122E-02
10.70	1.40630E-04	2.41924E-01	1.62252E-03	-3.18800E 01	-1.02528E-03	2.65558E-01	2.93194E-02
10.80	1.43271E-04	2.46584E-01	1.68871E-03	-3.18921E 01	-1.08245E-03	2.70440E-01	2.93265E-02
10.90	1.45937E-04	2.51288E-01	1.75653E-03	-3.19039E 01	-1.14118E-03	2.75367E-01	2.93335E-02
11.00	1.48627E-04	2.56036E-01	1.82600E-03	-3.19155E 01	-1.20151E-03	2.80338E-01	2.93404E-02
11.10	1.51342E-04	2.60829E-01	1.89715E-03	-3.19268E 01	-1.26345E-03	2.85354E-01	2.93472E-02
11.20	1.54082E-04	2.65666E-01	1.96998E-03	-3.19380E 01	-1.32701E-03	2.90414E-01	2.93539E-02
11.30	1.56846E-04	2.70547E-01	2.04453E-03	-3.19489E 01	-1.39222E-03	2.95518E-01	2.93605E-02
11.40	1.59634E-04	2.75473E-01	2.12080E-03	-3.19597E 01	-1.45909E-03	3.00666E-01	2.93670E-02
11.50	1.62447E-04	2.80443E-01	2.19882E-03	-3.19702E 01	-1.52765E-03	3.05859E-01	2.93734E-02
11.60	1.65285E-04	2.85457E-01	2.27860E-03	-3.19806E 01	-1.59791E-03	3.11096E-01	2.93797E-02
11.70	1.68147E-04	2.90516E-01	2.36018E-03	-3.19907E 01	-1.66990E-03	3.16378E-01	2.93859E-02
11.80	1.71033E-04	2.95619E-01	2.44355E-03	-3.20007E 01	-1.74362E-03	3.21704E-01	2.93921E-02
11.90	1.73945E-04	3.00767E-01	2.52875E-03	-3.20105E 01	-1.81911E-03	3.27074E-01	2.93981E-02
12.00	1.76880E-04	3.05959E-01	2.61579E-03	-3.20201E 01	-1.89637E-03	3.32488E-01	2.94040E-02



ELECTRON RADIAL FUNCTIONS

Positron	$Z=6$	$A=12$	$\rho=1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	8.75309E-01	1.08958E 01	1.48750E-01	-7.73091E-05	-1.05475E-01	1.18398E 01	2.70906E 02	
12.20	8.75302E-01	1.09905E 01	1.52640E-01	-9.14933E-05	-1.09141E-01	1.19346E 01	2.72050E 02	
12.30	8.75295E-01	1.10851E 01	1.56575E-01	-1.05440E-04	-1.12853E-01	1.20294E 01	2.73184E 02	
12.40	8.75288E-01	1.11797E 01	1.60555E-01	-1.19156E-04	-1.16609E-01	1.21243E 01	2.74311E 02	
12.50	8.75281E-01	1.12744E 01	1.64580E-01	-1.32642E-04	-1.20410E-01	1.22191E 01	2.75429E 02	
12.60	8.75274E-01	1.13691E 01	1.68651E-01	-1.45903E-04	-1.24257E-01	1.23140E 01	2.76539E 02	
12.70	8.75267E-01	1.14637E 01	1.72766E-01	-1.58941E-04	-1.28149E-01	1.24089E 01	2.77642E 02	
12.80	8.75260E-01	1.15584E 01	1.76927E-01	-1.71763E-04	-1.32086E-01	1.25038E 01	2.78737E 02	
12.90	8.75253E-01	1.16531E 01	1.81132E-01	-1.84393E-04	-1.36068E-01	1.25987E 01	2.79823E 02	
13.00	8.75246E-01	1.17478E 01	1.85383E-01	-1.96799E-04	-1.40095E-01	1.26936E 01	2.80903E 02	
13.10	8.75239E-01	1.18426E 01	1.89679E-01	-2.09014E-04	-1.44167E-01	1.27886E 01	2.81975E 02	
13.20	8.75231E-01	1.19373E 01	1.94021E-01	-2.21036E-04	-1.48285E-01	1.28835E 01	2.83040E 02	
13.30	8.75224E-01	1.20321E 01	1.98407E-01	-2.32867E-04	-1.52448E-01	1.29785E 01	2.84097E 02	
13.40	8.75217E-01	1.21268E 01	2.02839E-01	-2.44509E-04	-1.56656E-01	1.30735E 01	2.85147E 02	
13.50	8.75209E-01	1.22216E 01	2.07315E-01	-2.55962E-04	-1.60910E-01	1.31684E 01	2.86191E 02	
13.60	8.75202E-01	1.23164E 01	2.11838E-01	-2.67240E-04	-1.65209E-01	1.32634E 01	2.87227E 02	
13.70	8.75195E-01	1.24112E 01	2.16405E-01	-2.78349E-04	-1.69553E-01	1.33585E 01	2.88256E 02	
13.80	8.75188E-01	1.25060E 01	2.21017E-01	-2.89287E-04	-1.73942E-01	1.34535E 01	2.89279E 02	
13.90	8.75180E-01	1.26009E 01	2.25675E-01	-3.0045E-04	-1.78377E-01	1.35485E 01	2.90295E 02	
14.00	8.75173E-01	1.26957E 01	2.30378E-01	-3.10650E-04	-1.82857E-01	1.36436E 01	2.91305E 02	
14.10	8.75165E-01	1.27906E 01	2.35127E-01	-3.21092E-04	-1.87382E-01	1.37387E 01	2.92307E 02	
14.20	8.75158E-01	1.28854E 01	2.39920E-01	-3.31372E-04	-1.91952E-01	1.38337E 01	2.93304E 02	
14.30	8.75151E-01	1.29803E 01	2.44759E-01	-3.41511E-04	-1.96568E-01	1.39288E 01	2.94294E 02	
14.40	8.75143E-01	1.30752E 01	2.49644E-01	-3.51483E-04	-2.01230E-01	1.40239E 01	2.95278E 02	
14.50	8.75136E-01	1.31701E 01	2.54573E-01	-3.61309E-04	-2.05936E-01	1.41191E 01	2.96256E 02	
14.60	8.75128E-01	1.32651E 01	2.59548E-01	-3.70995E-04	-2.10688E-01	1.42142E 01	2.97228E 02	
14.70	8.75121E-01	1.33600E 01	2.64569E-01	-3.80540E-04	-2.15486E-01	1.43093E 01	2.98194E 02	
14.80	8.75113E-01	1.34549E 01	2.69634E-01	-3.89942E-04	-2.20329E-01	1.44045E 01	2.99154E 02	
14.90	8.75106E-01	1.35499E 01	2.74745E-01	-3.99201E-04	-2.25217E-01	1.44997E 01	3.00108E 02	
15.00	8.75098E-01	1.36449E 01	2.79902E-01	-4.08337E-04	-2.30151E-01	1.45949E 01	3.01056E 02	
15.10	8.75091E-01	1.37399E 01	2.85104E-01	-4.17330E-04	-2.35130E-01	1.46901E 01	3.02000E 02	
15.20	8.75083E-01	1.38349E 01	2.90351E-01	-4.26205E-04	-2.40155E-01	1.47853E 01	3.02937E 02	
15.30	8.75076E-01	1.39299E 01	2.95644E-01	-4.34949E-04	-2.45225E-01	1.48806E 01	3.03869E 02	
15.40	8.75068E-01	1.40250E 01	3.00982E-01	-4.43567E-04	-2.50341E-01	1.49758E 01	3.04795E 02	
15.50	8.75061E-01	1.41200E 01	3.06366E-01	-4.52062E-04	-2.55502E-01	1.50711E 01	3.05716E 02	
15.60	8.75053E-01	1.42151E 01	3.11795E-01	-4.60444E-04	-2.60709E-01	1.51664E 01	3.06632E 02	
15.70	8.75046E-01	1.43102E 01	3.17270E-01	-4.68698E-04	-2.65961E-01	1.52617E 01	3.07543E 02	
15.80	8.75039E-01	1.44053E 01	3.22790E-01	-4.76851E-04	-2.71259E-01	1.53570E 01	3.08447E 02	
15.90	8.75031E-01	1.45004E 01	3.28356E-01	-4.84879E-04	-2.76603E-01	1.54523E 01	3.09348E 02	
16.00	8.75024E-01	1.45955E 01	3.33967E-01	-4.92796E-04	-2.81992E-01	1.55477E 01	3.10244E 02	
16.10	8.75016E-01	1.46907E 01	3.39624E-01	-5.00612E-04	-2.87426E-01	1.56430E 01	3.11134E 02	
16.20	8.75009E-01	1.47858E 01	3.45327E-01	-5.08309E-04	-2.92907E-01	1.57384E 01	3.12020E 02	
16.30	8.75001E-01	1.48810E 01	3.51075E-01	-5.15912E-04	-2.98432E-01	1.58338E 01	3.12900E 02	
16.40	8.74994E-01	1.49762E 01	3.56869E-01	-5.23404E-04	-3.04004E-01	1.59292E 01	3.13777E 02	
16.50	8.74987E-01	1.50714E 01	3.62708E-01	-5.30796E-04	-3.09621E-01	1.60246E 01	3.14648E 02	
16.60	8.74979E-01	1.51666E 01	3.68593E-01	-5.38088E-04	-3.15284E-01	1.61201E 01	3.15515E 02	
16.70	8.74972E-01	1.52618E 01	3.74523E-01	-5.45286E-04	-3.20993E-01	1.62155E 01	3.16377E 02	
16.80	8.74965E-01	1.53571E 01	3.80499E-01	-5.52384E-04	-3.26747E-01	1.63110E 01	3.17235E 02	
16.90	8.74957E-01	1.54523E 01	3.86521E-01	-5.59382E-04	-3.32547E-01	1.64065E 01	3.18089E 02	
17.00	8.74950E-01	1.55476E 01	3.92589E-01	-5.66294E-04	-3.38393E-01	1.65020E 01	3.18938E 02	
17.10	8.74943E-01	1.56429E 01	3.98702E-01	-5.73110E-04	-3.44284E-01	1.65975E 01	3.19783E 02	
17.20	8.74935E-01	1.57382E 01	4.04861E-01	-5.79839E-04	-3.50221E-01	1.66931E 01	3.20623E 02	
17.30	8.74928E-01	1.58336E 01	4.11066E-01	-5.86474E-04	-3.56204E-01	1.67886E 01	3.21460E 02	
17.40	8.74921E-01	1.59289E 01	4.17316E-01	-5.93024E-04	-3.62233E-01	1.68842E 01	3.22292E 02	
17.50	8.74914E-01	1.60243E 01	4.23613E-01	-5.99494E-04	-3.68308E-01	1.69798E 01	3.23120E 02	
17.60	8.74906E-01	1.61196E 01	4.29955E-01	-6.05873E-04	-3.74428E-01	1.70754E 01	3.23944E 02	
17.70	8.74899E-01	1.62150E 01	4.36342E-01	-6.12174E-04	-3.80595E-01	1.71710E 01	3.24764E 02	
17.80	8.74892E-01	1.63104E 01	4.42776E-01	-6.18390E-04	-3.86807E-01	1.72667E 01	3.25580E 02	
17.90	8.74885E-01	1.64059E 01	4.49256E-01	-6.24520E-04	-3.93065E-01	1.73623E 01	3.26393E 02	
18.00	8.74877E-01	1.65013E 01	4.55781E-01	-6.30577E-04	-3.99369E-01	1.74580E 01	3.27202E 02	

ELECTRON RADIAL FUNCTIONS

$Z=6$        $A=12$        $\rho=1.2A^{1/3}F$

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	1.79841E-04	3.11195E-01	2.70470E-03	-3.20296E 01	-1.97543E-03	3.37947E-01	2.94099E-02
12.20	1.82826E-04	3.16476E-01	2.79548E-03	-3.20389E 01	-2.05631E-03	3.43451E-01	2.94157E-02
12.30	1.85835E-04	3.21801E-01	2.88816E-03	-3.20480E 01	-2.13903E-03	3.48998E-01	2.94214E-02
12.40	1.88869E-04	3.27170E-01	2.98275E-03	-3.20570E 01	-2.22359E-03	3.54590E-01	2.94270E-02
12.50	1.91928E-04	3.32584E-01	3.07928E-03	-3.20658E 01	-2.31003E-03	3.60226E-01	2.94326E-02
12.60	1.95010E-04	3.38042E-01	3.17777E-03	-3.20745E 01	-2.39837E-03	3.65907E-01	2.94380E-02
12.70	1.98118E-04	3.43544E-01	3.27823E-03	-3.20831E 01	-2.48861E-03	3.71632E-01	2.94434E-02
12.80	2.01250E-04	3.49091E-01	3.38069E-03	-3.20915E 01	-2.58079E-03	3.77401E-01	2.94487E-02
12.90	2.04407E-04	3.54682E-01	3.48516E-03	-3.20997E 01	-2.67491E-03	3.83214E-01	2.94540E-02
13.00	2.07588E-04	3.60317E-01	3.59166E-03	-3.21079E 01	-2.77100E-03	3.89072E-01	2.94592E-02
13.10	2.10794E-04	3.65997E-01	3.70021E-03	-3.21159E 01	-2.86908E-03	3.94974E-01	2.94643E-02
13.20	2.14024E-04	3.71721E-01	3.81083E-03	-3.21237E 01	-2.96917E-03	4.00921E-01	2.94693E-02
13.30	2.17279E-04	3.77489E-01	3.92353E-03	-3.21315E 01	-3.07128E-03	4.06912E-01	2.94743E-02
13.40	2.20558E-04	3.83302E-01	4.03835E-03	-3.21391E 01	-3.17543E-03	4.12947E-01	2.94792E-02
13.50	2.23862E-04	3.89159E-01	4.15529E-03	-3.21466E 01	-3.28165E-03	4.19026E-01	2.94841E-02
13.60	2.27190E-04	3.95060E-01	4.27437E-03	-3.21540E 01	-3.38995E-03	4.25150E-01	2.94888E-02
13.70	2.30543E-04	4.01006E-01	4.39562E-03	-3.21613E 01	-3.50035E-03	4.31318E-01	2.94936E-02
13.80	2.33921E-04	4.06996E-01	4.51905E-03	-3.21684E 01	-3.61287E-03	4.37530E-01	2.94982E-02
13.90	2.37323E-04	4.13030E-01	4.64468E-03	-3.21755E 01	-3.72752E-03	4.43787E-01	2.95028E-02
14.00	2.40749E-04	4.19109E-01	4.77253E-03	-3.21824E 01	-3.84434E-03	4.50088E-01	2.95074E-02
14.10	2.44201E-04	4.25232E-01	4.90262E-03	-3.21893E 01	-3.96333E-03	4.56433E-01	2.95119E-02
14.20	2.47676E-04	4.31399E-01	5.03497E-03	-3.21960E 01	-4.08452E-03	4.62823E-01	2.95163E-02
14.30	2.51176E-04	4.37611E-01	5.16960E-03	-3.22027E 01	-4.20792E-03	4.69257E-01	2.95207E-02
14.40	2.54701E-04	4.43867E-01	5.30652E-03	-3.22092E 01	-4.33355E-03	4.75735E-01	2.95250E-02
14.50	2.58250E-04	4.50167E-01	5.44576E-03	-3.22157E 01	-4.46143E-03	4.82257E-01	2.95293E-02
14.60	2.61824E-04	4.56511E-01	5.58733E-03	-3.22221E 01	-4.59159E-03	4.88824E-01	2.95335E-02
14.70	2.65423E-04	4.62900E-01	5.73125E-03	-3.22283E 01	-4.72403E-03	4.95435E-01	2.95377E-02
14.80	2.69046E-04	4.69333E-01	5.87754E-03	-3.22345E 01	-4.85879E-03	5.02090E-01	2.95418E-02
14.90	2.72693E-04	4.75810E-01	6.02623E-03	-3.22406E 01	-4.99587E-03	5.08790E-01	2.95459E-02
15.00	2.76365E-04	4.82332E-01	6.17733E-03	-3.22466E 01	-5.13530E-03	5.15534E-01	2.95499E-02
15.10	2.80061E-04	4.88898E-01	6.33085E-03	-3.22525E 01	-5.27709E-03	5.22322E-01	2.95539E-02
15.20	2.83782E-04	4.95508E-01	6.48682E-03	-3.22584E 01	-5.42127E-03	5.29155E-01	2.95578E-02
15.30	2.87528E-04	5.02163E-01	6.64526E-03	-3.22642E 01	-5.56785E-03	5.36031E-01	2.95617E-02
15.40	2.91298E-04	5.08862E-01	6.80618E-03	-3.22699E 01	-5.71685E-03	5.42952E-01	2.95655E-02
15.50	2.95093E-04	5.15605E-01	6.96961E-03	-3.22755E 01	-5.86830E-03	5.49918E-01	2.95693E-02
15.60	2.98912E-04	5.22392E-01	7.13556E-03	-3.22810E 01	-6.02220E-03	5.56927E-01	2.95730E-02
15.70	3.02756E-04	5.29245E-01	7.30405E-03	-3.22865E 01	-6.17859E-03	5.63981E-01	2.95768E-02
15.80	3.06624E-04	5.36100E-01	7.47510E-03	-3.22919E 01	-6.33747E-03	5.71079E-01	2.95804E-02
15.90	3.10517E-04	5.43020E-01	7.64873E-03	-3.22972E 01	-6.49887E-03	5.78222E-01	2.95840E-02
16.00	3.14434E-04	5.49984E-01	7.82496E-03	-3.23024E 01	-6.66280E-03	5.85408E-01	2.95876E-02
16.10	3.18376E-04	5.56993E-01	8.00381E-03	-3.23076E 01	-6.82928E-03	5.92639E-01	2.95912E-02
16.20	3.22342E-04	5.64046E-01	8.18529E-03	-3.23127E 01	-6.99835E-03	5.99914E-01	2.95947E-02
16.30	3.26333E-04	5.71143E-01	8.36943E-03	-3.23178E 01	-7.17000E-03	6.07234E-01	2.95981E-02
16.40	3.30349E-04	5.78285E-01	8.55625E-03	-3.23227E 01	-7.34426E-03	6.14597E-01	2.96016E-02
16.50	3.34389E-04	5.85471E-01	8.74575E-03	-3.23277E 01	-7.52116E-03	6.22005E-01	2.96049E-02
16.60	3.38454E-04	5.92701E-01	8.93797E-03	-3.23325E 01	-7.70070E-03	6.29457E-01	2.96083E-02
16.70	3.42543E-04	5.99975E-01	9.13292E-03	-3.23373E 01	-7.88291E-03	6.36954E-01	2.96116E-02
16.80	3.46656E-04	6.07294E-01	9.33062E-03	-3.23421E 01	-8.06781E-03	6.44494E-01	2.96149E-02
16.90	3.50794E-04	6.14657E-01	9.53109E-03	-3.23467E 01	-8.25541E-03	6.52079E-01	2.96181E-02
17.00	3.54957E-04	6.22064E-01	9.73434E-03	-3.23514E 01	-8.44574E-03	6.59708E-01	2.96213E-02
17.10	3.59144E-04	6.29515E-01	9.94040E-03	-3.23559E 01	-8.63881E-03	6.67382E-01	2.96245E-02
17.20	3.63356E-04	6.37010E-01	1.01493E-02	-3.23604E 01	-8.83465E-03	6.75099E-01	2.96277E-02
17.30	3.67592E-04	6.44550E-01	1.03610E-02	-3.23649E 01	-9.03326E-03	6.82861E-01	2.96308E-02
17.40	3.71853E-04	6.52134E-01	1.05756E-02	-3.23693E 01	-9.23468E-03	6.90667E-01	2.96338E-02
17.50	3.76139E-04	6.59762E-01	1.07931E-02	-3.23737E 01	-9.43891E-03	6.98517E-01	2.96369E-02
17.60	3.80449E-04	6.67435E-01	1.10135E-02	-3.23780E 01	-9.64598E-03	7.06412E-01	2.96399E-02
17.70	3.84783E-04	6.75152E-01	1.12368E-02	-3.23822E 01	-9.85591E-03	7.14350E-01	2.96429E-02
17.80	3.89142E-04	6.82912E-01	1.14630E-02	-3.23864E 01	-1.00687E-02	7.22333E-01	2.96458E-02
17.90	3.93525E-04	6.90717E-01	1.16922E-02	-3.23906E 01	-1.02844E-02	7.30360E-01	2.96488E-02
18.00	3.97933E-04	6.98567E-01	1.19244E-02	-3.23947E 01	-1.05030E-02	7.38431E-01	2.96516E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6$		$A=12$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	8.74870E-01	1.65968E 01	4.62353E-01	-6.36555E-04	-4.05719E-01	1.75537E 01	3.28007E 02	
18.20	8.74863E-01	1.66923E 01	4.68970E-01	-6.42459E-04	-4.12115E-01	1.76494E 01	3.28808E 02	
18.30	8.74856E-01	1.67878E 01	4.75633E-01	-6.48280E-04	-4.18557E-01	1.77452E 01	3.29606E 02	
18.40	8.74849E-01	1.68833E 01	4.82342E-01	-6.54032E-04	-4.25045E-01	1.78409E 01	3.30400E 02	
18.50	8.74842E-01	1.69788E 01	4.89096E-01	-6.59710E-04	-4.31578E-01	1.79367E 01	3.31190E 02	
18.60	8.74835E-01	1.70743E 01	4.95897E-01	-6.65315E-04	-4.38158E-01	1.80325E 01	3.31977E 02	
18.70	8.74828E-01	1.71699E 01	5.02744E-01	-6.70845E-04	-4.44784E-01	1.81283E 01	3.32761E 02	
18.80	8.74821E-01	1.72655E 01	5.09637E-01	-6.76316E-04	-4.51456E-01	1.82241E 01	3.33541E 02	
18.90	8.74814E-01	1.73611E 01	5.16576E-01	-6.81707E-04	-4.58174E-01	1.83199E 01	3.34318E 02	
19.00	8.74807E-01	1.74567E 01	5.23560E-01	-6.87036E-04	-4.64937E-01	1.84158E 01	3.35091E 02	
19.10	8.74800E-01	1.75523E 01	5.30591E-01	-6.92299E-04	-4.71747E-01	1.85117E 01	3.35861E 02	
19.20	8.74793E-01	1.76480E 01	5.37668E-01	-6.97490E-04	-4.78604E-01	1.86075E 01	3.36628E 02	
19.30	8.74786E-01	1.77436E 01	5.44791E-01	-7.02619E-04	-4.85506E-01	1.87035E 01	3.37392E 02	
19.40	8.74779E-01	1.78393E 01	5.51960E-01	-7.07687E-04	-4.92454E-01	1.87994E 01	3.38153E 02	
19.50	8.74772E-01	1.79350E 01	5.59175E-01	-7.12689E-04	-4.99449E-01	1.88953E 01	3.38910E 02	
19.60	8.74765E-01	1.80307E 01	5.66437E-01	-7.17632E-04	-5.06490E-01	1.89913E 01	3.39665E 02	
19.70	8.74758E-01	1.81265E 01	5.73744E-01	-7.22508E-04	-5.13576E-01	1.90873E 01	3.40416E 02	
19.80	8.74752E-01	1.82222E 01	5.81098E-01	-7.27323E-04	-5.20710E-01	1.91833E 01	3.41165E 02	
19.90	8.74745E-01	1.83180E 01	5.88497E-01	-7.32086E-04	-5.27889E-01	1.92793E 01	3.41911E 02	
20.00	8.74738E-01	1.84138E 01	5.95943E-01	-7.36781E-04	-5.35115E-01	1.93754E 01	3.42654E 02	
20.10	8.74731E-01	1.85096E 01	6.03436E-01	-7.41425E-04	-5.42386E-01	1.94714E 01	3.43394E 02	
20.20	8.74724E-01	1.86054E 01	6.10974E-01	-7.46009E-04	-5.49705E-01	1.95675E 01	3.44131E 02	
20.30	8.74717E-01	1.87013E 01	6.18559E-01	-7.50534E-04	-5.57069E-01	1.96636E 01	3.44866E 02	
20.40	8.74711E-01	1.87971E 01	6.26189E-01	-7.55015E-04	-5.64480E-01	1.97597E 01	3.45596E 02	
20.50	8.74704E-01	1.88930E 01	6.33867E-01	-7.59424E-04	-5.71937E-01	1.98559E 01	3.46326E 02	
20.60	8.74697E-01	1.89889E 01	6.41590E-01	-7.63784E-04	-5.79441E-01	1.99521E 01	3.47053E 02	
20.70	8.74691E-01	1.90848E 01	6.49360E-01	-7.68102E-04	-5.86990E-01	2.00482E 01	3.47776E 02	
20.80	8.74684E-01	1.91808E 01	6.57176E-01	-7.72355E-04	-5.94587E-01	2.01444E 01	3.48498E 02	
20.90	8.74677E-01	1.92767E 01	6.65039E-01	-7.76556E-04	-6.02229E-01	2.02407E 01	3.49217E 02	
21.00	8.74671E-01	1.93727E 01	6.72948E-01	-7.80715E-04	-6.09918E-01	2.03369E 01	3.49933E 02	
21.10	8.74664E-01	1.94687E 01	6.80903E-01	-7.84819E-04	-6.17654E-01	2.04332E 01	3.50646E 02	
21.20	8.74657E-01	1.95647E 01	6.88905E-01	-7.88865E-04	-6.25436E-01	2.05294E 01	3.51358E 02	
21.30	8.74651E-01	1.96608E 01	6.96953E-01	-7.92876E-04	-6.33265E-01	2.06257E 01	3.52067E 02	
21.40	8.74644E-01	1.97568E 01	7.05048E-01	-7.96825E-04	-6.41140E-01	2.07221E 01	3.52774E 02	
21.50	8.74638E-01	1.98529E 01	7.13189E-01	-8.00732E-04	-6.49062E-01	2.08184E 01	3.53478E 02	
21.60	8.74631E-01	1.99490E 01	7.21377E-01	-8.04596E-04	-6.57030E-01	2.09148E 01	3.54180E 02	
21.70	8.74625E-01	2.00451E 01	7.29611E-01	-8.08403E-04	-6.65045E-01	2.10111E 01	3.54880E 02	
21.80	8.74618E-01	2.01412E 01	7.37891E-01	-8.12168E-04	-6.73106E-01	2.11075E 01	3.55578E 02	
21.90	8.74612E-01	2.02374E 01	7.46219E-01	-8.15891E-04	-6.81214E-01	2.12040E 01	3.56273E 02	
22.00	8.74605E-01	2.03336E 01	7.54592E-01	-8.19570E-04	-6.89369E-01	2.13004E 01	3.56966E 02	
22.10	8.74599E-01	2.04298E 01	7.63013E-01	-8.23200E-04	-6.97570E-01	2.13969E 01	3.57657E 02	
22.20	8.74592E-01	2.05260E 01	7.71480E-01	-8.26787E-04	-7.05818E-01	2.14934E 01	3.58346E 02	
22.30	8.74586E-01	2.06222E 01	7.79994E-01	-8.30321E-04	-7.14113E-01	2.15899E 01	3.59034E 02	
22.40	8.74579E-01	2.07184E 01	7.88554E-01	-8.33829E-04	-7.22454E-01	2.16864E 01	3.59718E 02	
22.50	8.74573E-01	2.08147E 01	7.97161E-01	-8.37284E-04	-7.30842E-01	2.17830E 01	3.60402E 02	
22.60	8.74567E-01	2.09110E 01	8.05815E-01	-8.40696E-04	-7.39277E-01	2.18795E 01	3.61084E 02	
22.70	8.74560E-01	2.10073E 01	8.14516E-01	-8.44074E-04	-7.47759E-01	2.19761E 01	3.61762E 02	
22.80	8.74554E-01	2.11037E 01	8.23263E-01	-8.47401E-04	-7.56287E-01	2.20727E 01	3.62440E 02	
22.90	8.74548E-01	2.12000E 01	8.32057E-01	-8.50697E-04	-7.64863E-01	2.21694E 01	3.63115E 02	
23.00	8.74542E-01	2.12964E 01	8.40898E-01	-8.53951E-04	-7.73485E-01	2.22660E 01	3.63789E 02	
23.10	8.74535E-01	2.13928E 01	8.49785E-01	-8.57163E-04	-7.82154E-01	2.23627E 01	3.64461E 02	
23.20	8.74529E-01	2.14892E 01	8.58719E-01	-8.60332E-04	-7.90870E-01	2.24594E 01	3.65131E 02	
23.30	8.74523E-01	2.15856E 01	8.67701E-01	-8.63475E-04	-7.99633E-01	2.25561E 01	3.65798E 02	
23.40	8.74517E-01	2.16821E 01	8.76729E-01	-8.66570E-04	-8.08443E-01	2.26529E 01	3.66465E 02	
23.50	8.74511E-01	2.17786E 01	8.85804E-01	-8.69630E-04	-8.17300E-01	2.27496E 01	3.67130E 02	
23.60	8.74504E-01	2.18751E 01	8.94926E-01	-8.72645E-04	-8.26203E-01	2.28464E 01	3.67794E 02	
23.70	8.74498E-01	2.19716E 01	9.04095E-01	-8.75638E-04	-8.35154E-01	2.29433E 01	3.68455E 02	
23.80	8.74492E-01	2.20682E 01	9.13311E-01	-8.78581E-04	-8.44152E-01	2.30401E 01	3.69115E 02	
23.90	8.74486E-01	2.21647E 01	9.22574E-01	-8.81498E-04	-8.53197E-01	2.31369E 01	3.69773E 02	
24.00	8.74480E-01	2.22613E 01	9.31884E-01	-8.84376E-04	-8.62289E-01	2.32338E 01	3.70430E 02	

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=6$			$A=12$			$\rho=1.2A^{1/3}F$			Positron
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$				
18.10	4.02366E-04	7.06461E-01	1.21595E-02	-3.23987E 01	-1.07246E-02	7.46547E-01	2.96545E-02				
18.20	4.06823E-04	7.14399E-01	1.23977E-02	-3.24027E 01	-1.09491E-02	7.54707E-01	2.96573E-02				
18.30	4.11305E-04	7.22381E-01	1.26389E-02	-3.24067E 01	-1.11765E-02	7.62911E-01	2.96601E-02				
18.40	4.15811E-04	7.30407E-01	1.28832E-02	-3.24106E 01	-1.14070E-02	7.71159E-01	2.96629E-02				
18.50	4.20342E-04	7.38477E-01	1.31305E-02	-3.24145E 01	-1.16405E-02	7.79451E-01	2.96657E-02				
18.60	4.24897E-04	7.46592E-01	1.33809E-02	-3.24183E 01	-1.18769E-02	7.87788E-01	2.96684E-02				
18.70	4.29477E-04	7.54750E-01	1.36345E-02	-3.24221E 01	-1.21165E-02	7.96169E-01	2.96711E-02				
18.80	4.34081E-04	7.62953E-01	1.38911E-02	-3.24258E 01	-1.23591E-02	8.04593E-01	2.96738E-02				
18.90	4.38710E-04	7.71201E-01	1.41509E-02	-3.24295E 01	-1.26048E-02	8.13062E-01	2.96764E-02				
19.00	4.43364E-04	7.79492E-01	1.44139E-02	-3.24332E 01	-1.28535E-02	8.21576E-01	2.96790E-02				
19.10	4.48042E-04	7.87828E-01	1.46801E-02	-3.24368E 01	-1.31054E-02	8.30133E-01	2.96816E-02				
19.20	4.52744E-04	7.96207E-01	1.49494E-02	-3.24404E 01	-1.33605E-02	8.38735E-01	2.96842E-02				
19.30	4.57471E-04	8.04631E-01	1.52220E-02	-3.24440E 01	-1.36187E-02	8.47380E-01	2.96867E-02				
19.40	4.62223E-04	8.13099E-01	1.54978E-02	-3.24475E 01	-1.38801E-02	8.56070E-01	2.96893E-02				
19.50	4.66999E-04	8.21611E-01	1.57769E-02	-3.24509E 01	-1.41447E-02	8.64804E-01	2.96918E-02				
19.60	4.71799E-04	8.30168E-01	1.60592E-02	-3.24544E 01	-1.44124E-02	8.73583E-01	2.96942E-02				
19.70	4.76624E-04	8.38768E-01	1.63449E-02	-3.24578E 01	-1.46835E-02	8.82405E-01	2.96967E-02				
19.80	4.81474E-04	8.47413E-01	1.66339E-02	-3.24611E 01	-1.49577E-02	8.91271E-01	2.96991E-02				
19.90	4.86348E-04	8.56102E-01	1.69262E-02	-3.24645E 01	-1.52353E-02	9.00182E-01	2.97015E-02				
20.00	4.91247E-04	8.64835E-01	1.72218E-02	-3.24678E 01	-1.55161E-02	9.09137E-01	2.97039E-02				
20.10	4.96170E-04	8.73612E-01	1.75208E-02	-3.24710E 01	-1.58003E-02	9.18136E-01	2.97062E-02				
20.20	5.01118E-04	8.82433E-01	1.78233E-02	-3.24742E 01	-1.60878E-02	9.27179E-01	2.97086E-02				
20.30	5.06090E-04	8.91299E-01	1.81291E-02	-3.24774E 01	-1.63786E-02	9.36266E-01	2.97109E-02				
20.40	5.11087E-04	9.00208E-01	1.84383E-02	-3.24806E 01	-1.66728E-02	9.45397E-01	2.97132E-02				
20.50	5.16108E-04	9.09162E-01	1.87510E-02	-3.24837E 01	-1.69704E-02	9.54573E-01	2.97155E-02				
20.60	5.21154E-04	9.18160E-01	1.90672E-02	-3.24868E 01	-1.72713E-02	9.63792E-01	2.97177E-02				
20.70	5.26225E-04	9.27201E-01	1.93869E-02	-3.24899E 01	-1.75757E-02	9.73056E-01	2.97200E-02				
20.80	5.31320E-04	9.36288E-01	1.97100E-02	-3.24929E 01	-1.78836E-02	9.82364E-01	2.97222E-02				
20.90	5.36439E-04	9.45418E-01	2.00367E-02	-3.24959E 01	-1.81949E-02	9.91716E-01	2.97244E-02				
21.00	5.41583E-04	9.54592E-01	2.03669E-02	-3.24989E 01	-1.85097E-02	1.00111E 00	2.97266E-02				
21.10	5.46752E-04	9.63811E-01	2.07007E-02	-3.25018E 01	-1.88280E-02	1.01055E 00	2.97287E-02				
21.20	5.51945E-04	9.73073E-01	2.10381E-02	-3.25047E 01	-1.91498E-02	1.02004E 00	2.97309E-02				
21.30	5.57162E-04	9.82380E-01	2.13791E-02	-3.25076E 01	-1.94751E-02	1.02956E 00	2.97330E-02				
21.40	5.62404E-04	9.91730E-01	2.17236E-02	-3.25105E 01	-1.98040E-02	1.03914E 00	2.97351E-02				
21.50	5.67671E-04	1.00113E 00	2.20719E-02	-3.25133E 01	-2.01364E-02	1.04875E 00	2.97372E-02				
21.60	5.72962E-04	1.01056E 00	2.24237E-02	-3.25161E 01	-2.04725E-02	1.05841E 00	2.97392E-02				
21.70	5.78278E-04	1.02005E 00	2.27793E-02	-3.25189E 01	-2.08122E-02	1.06812E 00	2.97413E-02				
21.80	5.83618E-04	1.02957E 00	2.31385E-02	-3.25216E 01	-2.11554E-02	1.07787E 00	2.97433E-02				
21.90	5.88983E-04	1.03915E 00	2.35015E-02	-3.25244E 01	-2.15024E-02	1.08766E 00	2.97453E-02				
22.00	5.94372E-04	1.04876E 00	2.38681E-02	-3.25271E 01	-2.18530E-02	1.09750E 00	2.97473E-02				
22.10	5.99786E-04	1.05842E 00	2.42386E-02	-3.25297E 01	-2.22073E-02	1.10738E 00	2.97493E-02				
22.20	6.05224E-04	1.06812E 00	2.46128E-02	-3.25324E 01	-2.25653E-02	1.11730E 00	2.97513E-02				
22.30	6.10687E-04	1.07787E 00	2.49908E-02	-3.25350E 01	-2.29270E-02	1.12727E 00	2.97532E-02				
22.40	6.16175E-04	1.08766E 00	2.53725E-02	-3.25376E 01	-2.32925E-02	1.13728E 00	2.97551E-02				
22.50	6.21687E-04	1.09750E 00	2.57581E-02	-3.25402E 01	-2.36617E-02	1.14734E 00	2.97571E-02				
22.60	6.27223E-04	1.10738E 00	2.61476E-02	-3.25427E 01	-2.40347E-02	1.15744E 00	2.97590E-02				
22.70	6.32784E-04	1.11730E 00	2.65409E-02	-3.25453E 01	-2.44115E-02	1.16759E 00	2.97608E-02				
22.80	6.38370E-04	1.12727E 00	2.69381E-02	-3.25478E 01	-2.47921E-02	1.17778E 00	2.97627E-02				
22.90	6.43980E-04	1.13728E 00	2.73392E-02	-3.25503E 01	-2.51766E-02	1.18801E 00	2.97646E-02				
23.00	6.49614E-04	1.14734E 00	2.77442E-02	-3.25527E 01	-2.55649E-02	1.19829E 00	2.97664E-02				
23.10	6.55274E-04	1.15744E 00	2.81532E-02	-3.25552E 01	-2.59571E-02	1.20861E 00	2.97682E-02				
23.20	6.60957E-04	1.16758E 00	2.85661E-02	-3.25576E 01	-2.63532E-02	1.21897E 00	2.97700E-02				
23.30	6.66665E-04	1.17777E 00	2.89830E-02	-3.25600E 01	-2.67532E-02	1.22938E 00	2.97718E-02				
23.40	6.72398E-04	1.18800E 00	2.94038E-02	-3.25624E 01	-2.71571E-02	1.23984E 00	2.97736E-02				
23.50	6.78155E-04	1.19828E 00	2.98287E-02	-3.25647E 01	-2.75650E-02	1.25033E 00	2.97754E-02				
23.60	6.83937E-04	1.20860E 00	3.02576E-02	-3.25670E 01	-2.79768E-02	1.26088E 00	2.97771E-02				
23.70	6.89743E-04	1.21896E 00	3.06906E-02	-3.25694E 01	-2.83927E-02	1.27146E 00	2.97789E-02				
23.80	6.95574E-04	1.22937E 00	3.11276E-02	-3.25716E 01	-2.88125E-02	1.28209E 00	2.97806E-02				
23.90	7.01429E-04	1.23982E 00	3.15688E-02	-3.25739E 01	-2.92364E-02	1.29276E 00	2.97823E-02				
24.00	7.07309E-04	1.25032E 00	3.20140E-02	-3.25762E 01	-2.96643E-02	1.30348E 00	2.97840E-02				



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6 \quad A=12 \quad \rho=1.2A^{1/3}F$							
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
24.10	8.74474E-01	2.23579E 01	9.41241E-01	-8.87214E-04	-8.71428E-01	2.33307E 01	3.71086E 02	
24.20	8.74468E-01	2.24545E 01	9.50645E-01	-8.90018E-04	-8.80614E-01	2.34277E 01	3.71740E 02	
24.30	8.74462E-01	2.25512E 01	9.60096E-01	-8.92793E-04	-8.89848E-01	2.35246E 01	3.72392E 02	
24.40	8.74456E-01	2.26479E 01	9.69594E-01	-8.95532E-04	-8.99128E-01	2.36216E 01	3.73043E 02	
24.50	8.74450E-01	2.27446E 01	9.79139E-01	-8.98235E-04	-9.08456E-01	2.37186E 01	3.73692E 02	
24.60	8.74444E-01	2.28413E 01	9.88732E-01	-9.00904E-04	-9.17831E-01	2.38156E 01	3.74341E 02	
24.70	8.74438E-01	2.29380E 01	9.98371E-01	-9.03548E-04	-9.27253E-01	2.39126E 01	3.74986E 02	
24.80	8.74432E-01	2.30348E 01	1.00806E 00	-9.06147E-04	-9.36722E-01	2.40097E 01	3.75633E 02	
24.90	8.74426E-01	2.31316E 01	1.01779E 00	-9.08725E-04	-9.46239E-01	2.41068E 01	3.76276E 02	
25.00	8.74420E-01	2.32284E 01	1.02757E 00	-9.11265E-04	-9.55803E-01	2.42039E 01	3.76919E 02	
25.10	8.74414E-01	2.33252E 01	1.03740E 00	-9.13768E-04	-9.65414E-01	2.43010E 01	3.77561E 02	
25.20	8.74408E-01	2.34220E 01	1.04728E 00	-9.16253E-04	-9.75073E-01	2.43982E 01	3.78200E 02	
25.30	8.74402E-01	2.35189E 01	1.05720E 00	-9.18698E-04	-9.84778E-01	2.44953E 01	3.78840E 02	
25.40	8.74396E-01	2.36158E 01	1.06717E 00	-9.21118E-04	-9.94532E-01	2.45926E 01	3.79477E 02	
25.50	8.74391E-01	2.37127E 01	1.07719E 00	-9.23504E-04	-1.00433E 00	2.46898E 01	3.80113E 02	
25.60	8.74385E-01	2.38097E 01	1.08725E 00	-9.25858E-04	-1.01418E 00	2.47870E 01	3.80749E 02	
25.70	8.74379E-01	2.39066E 01	1.09737E 00	-9.28186E-04	-1.02408E 00	2.48843E 01	3.81383E 02	
25.80	8.74373E-01	2.40036E 01	1.10752E 00	-9.30481E-04	-1.03402E 00	2.49816E 01	3.82016E 02	
25.90	8.74367E-01	2.41006E 01	1.11773E 00	-9.32749E-04	-1.04401E 00	2.50789E 01	3.82648E 02	
26.00	8.74362E-01	2.41977E 01	1.12799E 00	-9.34989E-04	-1.05405E 00	2.51763E 01	3.83279E 02	
26.10	8.74356E-01	2.42947E 01	1.13829E 00	-9.37193E-04	-1.06413E 00	2.52737E 01	3.83910E 02	
26.20	8.74350E-01	2.43918E 01	1.14864E 00	-9.39379E-04	-1.07427E 00	2.53710E 01	3.84538E 02	
26.30	8.74345E-01	2.44889E 01	1.15904E 00	-9.41527E-04	-1.08445E 00	2.54685E 01	3.85167E 02	
26.40	8.74339E-01	2.45860E 01	1.16948E 00	-9.43657E-04	-1.09468E 00	2.55659E 01	3.85793E 02	
26.50	8.74333E-01	2.46832E 01	1.17997E 00	-9.45750E-04	-1.10495E 00	2.56634E 01	3.86420E 02	
26.60	8.74327E-01	2.47804E 01	1.19051E 00	-9.47821E-04	-1.11528E 00	2.57609E 01	3.87045E 02	
26.70	8.74322E-01	2.48775E 01	1.20110E 00	-9.49868E-04	-1.12565E 00	2.58584E 01	3.87669E 02	
26.80	8.74316E-01	2.49748E 01	1.21174E 00	-9.51886E-04	-1.13607E 00	2.59559E 01	3.88292E 02	
26.90	8.74310E-01	2.50720E 01	1.22242E 00	-9.53874E-04	-1.14654E 00	2.60535E 01	3.88915E 02	
27.00	8.74305E-01	2.51693E 01	1.23315E 00	-9.55837E-04	-1.15705E 00	2.61511E 01	3.89537E 02	
27.10	8.74299E-01	2.52666E 01	1.24393E 00	-9.57777E-04	-1.16761E 00	2.62487E 01	3.90157E 02	
27.20	8.74294E-01	2.53639E 01	1.25475E 00	-9.59691E-04	-1.17822E 00	2.63464E 01	3.90777E 02	
27.30	8.74288E-01	2.54612E 01	1.26563E 00	-9.61581E-04	-1.18888E 00	2.64440E 01	3.91395E 02	
27.40	8.74283E-01	2.55586E 01	1.27655E 00	-9.63439E-04	-1.19959E 00	2.65417E 01	3.92014E 02	
27.50	8.74278E-01	2.56560E 01	1.28752E 00	-9.65279E-04	-1.21034E 00	2.66395E 01	3.92631E 02	
27.60	8.74272E-01	2.57534E 01	1.29854E 00	-9.67091E-04	-1.22115E 00	2.67372E 01	3.93248E 02	
27.70	8.74267E-01	2.58509E 01	1.30960E 00	-9.68874E-04	-1.23200E 00	2.68350E 01	3.93865E 02	
27.80	8.74261E-01	2.59483E 01	1.32072E 00	-9.70642E-04	-1.24290E 00	2.69328E 01	3.94480E 02	
27.90	8.74256E-01	2.60458E 01	1.33188E 00	-9.72383E-04	-1.25384E 00	2.70306E 01	3.95095E 02	
28.00	8.74250E-01	2.61433E 01	1.34309E 00	-9.74103E-04	-1.26484E 00	2.71285E 01	3.95708E 02	
28.10	8.74245E-01	2.62409E 01	1.35434E 00	-9.75786E-04	-1.27588E 00	2.72263E 01	3.96323E 02	
28.20	8.74239E-01	2.63384E 01	1.36565E 00	-9.77459E-04	-1.28697E 00	2.73242E 01	3.96935E 02	
28.30	8.74234E-01	2.64360E 01	1.37700E 00	-9.79104E-04	-1.29811E 00	2.74222E 01	3.97547E 02	
28.40	8.74229E-01	2.65336E 01	1.38840E 00	-9.80720E-04	-1.30930E 00	2.75201E 01	3.98160E 02	
28.50	8.74223E-01	2.66313E 01	1.39985E 00	-9.82318E-04	-1.32053E 00	2.76181E 01	3.98771E 02	
28.60	8.74218E-01	2.67289E 01	1.41135E 00	-9.83898E-04	-1.33181E 00	2.77161E 01	3.99381E 02	
28.70	8.74213E-01	2.68266E 01	1.42290E 00	-9.85451E-04	-1.34315E 00	2.78141E 01	3.99992E 02	
28.80	8.74207E-01	2.69243E 01	1.43449E 00	-9.86983E-04	-1.35452E 00	2.79122E 01	4.00601E 02	
28.90	8.74202E-01	2.70221E 01	1.44613E 00	-9.88493E-04	-1.36595E 00	2.80103E 01	4.01210E 02	
29.00	8.74197E-01	2.71198E 01	1.45782E 00	-9.89983E-04	-1.37743E 00	2.81084E 01	4.01819E 02	
29.10	8.74192E-01	2.72176E 01	1.46956E 00	-9.91448E-04	-1.38895E 00	2.82065E 01	4.02427E 02	
29.20	8.74186E-01	2.73154E 01	1.48135E 00	-9.92890E-04	-1.40053E 00	2.83047E 01	4.03035E 02	
29.30	8.74181E-01	2.74133E 01	1.49319E 00	-9.94309E-04	-1.41215E 00	2.84029E 01	4.03643E 02	
29.40	8.74176E-01	2.75112E 01	1.50507E 00	-9.95715E-04	-1.42382E 00	2.85011E 01	4.04249E 02	
29.50	8.74171E-01	2.76091E 01	1.51700E 00	-9.97097E-04	-1.43554E 00	2.85994E 01	4.04856E 02	
29.60	8.74165E-01	2.77070E 01	1.52898E 00	-9.98458E-04	-1.44730E 00	2.86977E 01	4.05462E 02	
29.70	8.74160E-01	2.78049E 01	1.54101E 00	-9.99793E-04	-1.45912E 00	2.87960E 01	4.06069E 02	
29.80	8.74155E-01	2.79029E 01	1.55309E 00	-1.00112E-03	-1.47098E 00	2.88943E 01	4.06673E 02	
29.90	8.74150E-01	2.80009E 01	1.56521E 00	-1.00241E-03	-1.48290E 00	2.89927E 01	4.07280E 02	
30.00	8.74145E-01	2.80989E 01	1.57739E 00	-1.00370E-03	-1.49486E 00	2.90910E 01	4.07883E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z=6$  $A=12$  $\rho=1.2A^{1/3}F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
24.10	7.13214E-04	1.26086E 00	3.24634E-02	-3.25784E 01	-3.00962E-02	1.31424E 00	2.97857E-02
24.20	7.19143E-04	1.27144E 00	3.29169E-02	-3.25806E 01	-3.05323E-02	1.32505E 00	2.97873E-02
24.30	7.25096E-04	1.28207E 00	3.33745E-02	-3.25828E 01	-3.09724E-02	1.33590E 00	2.97890E-02
24.40	7.31074E-04	1.29274E 00	3.38364E-02	-3.25850E 01	-3.14167E-02	1.34679E 00	2.97906E-02
24.50	7.37077E-04	1.30346E 00	3.43024E-02	-3.25872E 01	-3.18651E-02	1.35773E 00	2.97923E-02
24.60	7.43104E-04	1.31421E 00	3.47727E-02	-3.25893E 01	-3.23177E-02	1.36871E 00	2.97939E-02
24.70	7.49155E-04	1.32502E 00	3.52472E-02	-3.25914E 01	-3.27744E-02	1.37973E 00	2.97955E-02
24.80	7.55232E-04	1.33587E 00	3.57259E-02	-3.25935E 01	-3.32353E-02	1.39080E 00	2.97971E-02
24.90	7.61332E-04	1.34676E 00	3.62089E-02	-3.25956E 01	-3.37004E-02	1.40192E 00	2.97987E-02
25.00	7.67457E-04	1.35769E 00	3.66962E-02	-3.25977E 01	-3.41698E-02	1.41307E 00	2.98002E-02
25.10	7.73607E-04	1.36867E 00	3.71879E-02	-3.25997E 01	-3.46434E-02	1.42427E 00	2.98018E-02
25.20	7.79781E-04	1.37970E 00	3.76838E-02	-3.26018E 01	-3.51213E-02	1.43552E 00	2.98034E-02
25.30	7.85980E-04	1.39076E 00	3.81841E-02	-3.26038E 01	-3.56035E-02	1.44681E 00	2.98049E-02
25.40	7.92203E-04	1.40188E 00	3.86888E-02	-3.26058E 01	-3.60900E-02	1.45814E 00	2.98064E-02
25.50	7.98451E-04	1.41303E 00	3.91979E-02	-3.26078E 01	-3.65808E-02	1.46952E 00	2.98079E-02
25.60	8.04723E-04	1.42423E 00	3.97114E-02	-3.26098E 01	-3.70759E-02	1.48094E 00	2.98094E-02
25.70	8.11020E-04	1.43547E 00	4.02293E-02	-3.26117E 01	-3.75754E-02	1.49240E 00	2.98109E-02
25.80	8.17341E-04	1.44676E 00	4.07516E-02	-3.26136E 01	-3.80793E-02	1.50391E 00	2.98124E-02
25.90	8.23687E-04	1.45809E 00	4.12784E-02	-3.26156E 01	-3.85876E-02	1.51546E 00	2.98139E-02
26.00	8.30058E-04	1.46947E 00	4.18097E-02	-3.26175E 01	-3.91003E-02	1.52706E 00	2.98153E-02
26.10	8.36452E-04	1.48088E 00	4.23455E-02	-3.26194E 01	-3.96174E-02	1.53870E 00	2.98168E-02
26.20	8.42872E-04	1.49235E 00	4.28858E-02	-3.26212E 01	-4.01390E-02	1.55038E 00	2.98182E-02
26.30	8.49316E-04	1.50385E 00	4.34306E-02	-3.26231E 01	-4.06651E-02	1.56211E 00	2.98197E-02
26.40	8.55784E-04	1.51540E 00	4.39800E-02	-3.26250E 01	-4.11957E-02	1.57388E 00	2.98211E-02
26.50	8.62277E-04	1.52700E 00	4.45340E-02	-3.26268E 01	-4.17308E-02	1.58570E 00	2.98225E-02
26.60	8.68795E-04	1.53864E 00	4.50925E-02	-3.26286E 01	-4.22704E-02	1.59756E 00	2.98239E-02
26.70	8.75337E-04	1.55032E 00	4.56557E-02	-3.26304E 01	-4.28145E-02	1.60946E 00	2.98253E-02
26.80	8.81904E-04	1.56204E 00	4.62235E-02	-3.26322E 01	-4.33633E-02	1.62141E 00	2.98267E-02
26.90	8.88495E-04	1.57381E 00	4.67960E-02	-3.26340E 01	-4.39166E-02	1.63340E 00	2.98280E-02
27.00	8.95111E-04	1.58563E 00	4.73731E-02	-3.26358E 01	-4.44745E-02	1.64543E 00	2.98294E-02
27.10	9.01751E-04	1.59748E 00	4.79549E-02	-3.26375E 01	-4.50370E-02	1.65751E 00	2.98307E-02
27.20	9.08416E-04	1.60939E 00	4.85414E-02	-3.26393E 01	-4.56042E-02	1.66963E 00	2.98321E-02
27.30	9.15105E-04	1.62133E 00	4.91327E-02	-3.26410E 01	-4.61761E-02	1.68180E 00	2.98334E-02
27.40	9.21818E-04	1.63332E 00	4.97286E-02	-3.26427E 01	-4.67526E-02	1.69401E 00	2.98347E-02
27.50	9.28557E-04	1.64535E 00	5.03294E-02	-3.26444E 01	-4.73338E-02	1.70626E 00	2.98360E-02
27.60	9.35320E-04	1.65743E 00	5.09349E-02	-3.26461E 01	-4.79198E-02	1.71856E 00	2.98373E-02
27.70	9.42107E-04	1.66955E 00	5.15452E-02	-3.26478E 01	-4.85105E-02	1.73090E 00	2.98386E-02
27.80	9.48919E-04	1.68171E 00	5.21604E-02	-3.26494E 01	-4.91059E-02	1.74329E 00	2.98399E-02
27.90	9.55755E-04	1.69392E 00	5.27803E-02	-3.26511E 01	-4.97061E-02	1.75571E 00	2.98412E-02
28.00	9.62616E-04	1.70617E 00	5.34052E-02	-3.26527E 01	-5.03111E-02	1.76819E 00	2.98425E-02
28.10	9.69501E-04	1.71847E 00	5.40349E-02	-3.26543E 01	-5.09209E-02	1.78070E 00	2.98437E-02
28.20	9.76411E-04	1.73081E 00	5.46695E-02	-3.26559E 01	-5.15356E-02	1.79326E 00	2.98450E-02
28.30	9.83346E-04	1.74319E 00	5.53090E-02	-3.26575E 01	-5.21551E-02	1.80587E 00	2.98462E-02
28.40	9.90305E-04	1.75562E 00	5.59534E-02	-3.26591E 01	-5.27794E-02	1.81852E 00	2.98475E-02
28.50	9.97288E-04	1.76809E 00	5.66028E-02	-3.26607E 01	-5.34086E-02	1.83121E 00	2.98487E-02
28.60	1.00430E-03	1.78060E 00	5.72571E-02	-3.26623E 01	-5.40428E-02	1.84394E 00	2.98499E-02
28.70	1.01133E-03	1.79316E 00	5.79165E-02	-3.26638E 01	-5.46819E-02	1.85672E 00	2.98511E-02
28.80	1.01839E-03	1.80576E 00	5.85808E-02	-3.26654E 01	-5.53259E-02	1.86954E 00	2.98523E-02
28.90	1.02547E-03	1.81841E 00	5.92502E-02	-3.26669E 01	-5.59749E-02	1.88241E 00	2.98535E-02
29.00	1.03257E-03	1.83110E 00	5.99246E-02	-3.26684E 01	-5.66288E-02	1.89532E 00	2.98547E-02
29.10	1.03970E-03	1.84383E 00	6.06041E-02	-3.26699E 01	-5.72878E-02	1.90828E 00	2.98559E-02
29.20	1.04686E-03	1.85661E 00	6.12886E-02	-3.26714E 01	-5.79517E-02	1.92127E 00	2.98571E-02
29.30	1.05404E-03	1.86943E 00	6.19783E-02	-3.26729E 01	-5.86207E-02	1.93431E 00	2.98582E-02
29.40	1.06124E-03	1.88229E 00	6.26730E-02	-3.26744E 01	-5.92948E-02	1.94740E 00	2.98594E-02
29.50	1.06847E-03	1.89520E 00	6.33729E-02	-3.26759E 01	-5.99739E-02	1.96053E 00	2.98605E-02
29.60	1.07573E-03	1.90815E 00	6.40779E-02	-3.26773E 01	-6.06582E-02	1.97370E 00	2.98617E-02
29.70	1.08300E-03	1.92115E 00	6.47882E-02	-3.26788E 01	-6.13475E-02	1.98692E 00	2.98628E-02
29.80	1.09031E-03	1.93419E 00	6.55035E-02	-3.26802E 01	-6.20419E-02	2.00018E 00	2.98639E-02
29.90	1.09763E-03	1.94727E 00	6.62242E-02	-3.26817E 01	-6.27415E-02	2.01348E 00	2.98651E-02
30.00	1.10498E-03	1.96040E 00	6.69500E-02	-3.26831E 01	-6.34463E-02	2.02683E 00	2.98662E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6 \quad A=12 \quad \rho=1.2 A^{1/3} F$							
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
30.10	8.74140E-01	2.81970E 01	1.58961E 00	-1.00494E-03	-1.50687E 00	2.91895E 01	4.08490E 02	
30.20	8.74135E-01	2.82951E 01	1.60188E 00	-1.00619E-03	-1.51893E 00	2.92879E 01	4.09093E 02	
30.30	8.74130E-01	2.83932E 01	1.61420E 00	-1.00741E-03	-1.53103E 00	2.93864E 01	4.09697E 02	
30.40	8.74125E-01	2.84913E 01	1.62657E 00	-1.00861E-03	-1.54319E 00	2.94849E 01	4.10301E 02	
30.50	8.74119E-01	2.85895E 01	1.63899E 00	-1.00978E-03	-1.55540E 00	2.95834E 01	4.10905E 02	
30.60	8.74114E-01	2.86877E 01	1.65146E 00	-1.01095E-03	-1.56765E 00	2.96820E 01	4.11509E 02	
30.70	8.74109E-01	2.87859E 01	1.66397E 00	-1.01209E-03	-1.57995E 00	2.97805E 01	4.12112E 02	
30.80	8.74104E-01	2.88841E 01	1.67653E 00	-1.01321E-03	-1.59230E 00	2.98792E 01	4.12716E 02	
30.90	8.74099E-01	2.89824E 01	1.68915E 00	-1.01431E-03	-1.60470E 00	2.99778E 01	4.13320E 02	
31.00	8.74094E-01	2.90807E 01	1.70181E 00	-1.01539E-03	-1.61715E 00	3.00765E 01	4.13922E 02	
31.10	8.74089E-01	2.91790E 01	1.71452E 00	-1.01647E-03	-1.62965E 00	3.01752E 01	4.14524E 02	
31.20	8.74084E-01	2.92774E 01	1.72728E 00	-1.01751E-03	-1.64220E 00	3.02739E 01	4.15127E 02	
31.30	8.74080E-01	2.93757E 01	1.74008E 00	-1.01854E-03	-1.65479E 00	3.03726E 01	4.15730E 02	
31.40	8.74074E-01	2.94741E 01	1.75294E 00	-1.01956E-03	-1.66744E 00	3.04714E 01	4.16332E 02	
31.50	8.74070E-01	2.95726E 01	1.76585E 00	-1.02055E-03	-1.68013E 00	3.05702E 01	4.16935E 02	
31.60	8.74065E-01	2.96710E 01	1.77880E 00	-1.02152E-03	-1.69287E 00	3.06691E 01	4.17538E 02	
31.70	8.74060E-01	2.97695E 01	1.79181E 00	-1.02248E-03	-1.70567E 00	3.07680E 01	4.18141E 02	
31.80	8.74055E-01	2.98680E 01	1.80486E 00	-1.02343E-03	-1.71851E 00	3.08669E 01	4.18742E 02	
31.90	8.74050E-01	2.99666E 01	1.81796E 00	-1.02434E-03	-1.73140E 00	3.09658E 01	4.19346E 02	
32.00	8.74045E-01	3.00652E 01	1.83111E 00	-1.02525E-03	-1.74434E 00	3.10647E 01	4.19949E 02	
32.10	8.74040E-01	3.01638E 01	1.84431E 00	-1.02614E-03	-1.75733E 00	3.11637E 01	4.20551E 02	
32.20	8.74035E-01	3.02624E 01	1.85756E 00	-1.02701E-03	-1.77036E 00	3.12627E 01	4.21153E 02	
32.30	8.74031E-01	3.03611E 01	1.87086E 00	-1.02787E-03	-1.78345E 00	3.13618E 01	4.21756E 02	
32.40	8.74026E-01	3.04598E 01	1.88421E 00	-1.02871E-03	-1.79659E 00	3.14609E 01	4.22359E 02	
32.50	8.74021E-01	3.05585E 01	1.89760E 00	-1.02953E-03	-1.80978E 00	3.15600E 01	4.22961E 02	
32.60	8.74016E-01	3.06572E 01	1.91105E 00	-1.03033E-03	-1.82301E 00	3.16591E 01	4.23565E 02	
32.70	8.74011E-01	3.07560E 01	1.92454E 00	-1.03112E-03	-1.83630E 00	3.17583E 01	4.24168E 02	
32.80	8.74007E-01	3.08548E 01	1.93809E 00	-1.03190E-03	-1.84963E 00	3.18575E 01	4.24771E 02	
32.90	8.74002E-01	3.09536E 01	1.95168E 00	-1.03265E-03	-1.86301E 00	3.19567E 01	4.25375E 02	
33.00	8.73997E-01	3.10525E 01	1.96533E 00	-1.03339E-03	-1.87645E 00	3.20560E 01	4.25979E 02	
33.10	8.73993E-01	3.11514E 01	1.97902E 00	-1.03412E-03	-1.88993E 00	3.21553E 01	4.26583E 02	
33.20	8.73988E-01	3.12503E 01	1.99276E 00	-1.03482E-03	-1.90346E 00	3.22546E 01	4.27188E 02	
33.30	8.73983E-01	3.13493E 01	2.00655E 00	-1.03551E-03	-1.91705E 00	3.23539E 01	4.27792E 02	
33.40	8.73978E-01	3.14482E 01	2.02040E 00	-1.03619E-03	-1.93068E 00	3.24533E 01	4.28396E 02	
33.50	8.73974E-01	3.15473E 01	2.03429E 00	-1.03685E-03	-1.94436E 00	3.25527E 01	4.29001E 02	
33.60	8.73969E-01	3.16463E 01	2.04823E 00	-1.03749E-03	-1.95809E 00	3.26522E 01	4.29606E 02	
33.70	8.73964E-01	3.17454E 01	2.06222E 00	-1.03813E-03	-1.97187E 00	3.27516E 01	4.30212E 02	
33.80	8.73960E-01	3.18445E 01	2.07626E 00	-1.03874E-03	-1.98570E 00	3.28511E 01	4.30817E 02	
33.90	8.73955E-01	3.19436E 01	2.09035E 00	-1.03934E-03	-1.99958E 00	3.29507E 01	4.31423E 02	
34.00	8.73951E-01	3.20428E 01	2.10449E 00	-1.03992E-03	-2.01351E 00	3.30503E 01	4.32030E 02	
34.10	8.73946E-01	3.21420E 01	2.11868E 00	-1.04050E-03	-2.02749E 00	3.31499E 01	4.32635E 02	
34.20	8.73941E-01	3.22412E 01	2.13292E 00	-1.04106E-03	-2.04152E 00	3.32495E 01	4.33241E 02	
34.30	8.73937E-01	3.23404E 01	2.14721E 00	-1.04159E-03	-2.05561E 00	3.33491E 01	4.33850E 02	
34.40	8.73932E-01	3.24397E 01	2.16154E 00	-1.04212E-03	-2.06974E 00	3.34488E 01	4.34457E 02	
34.50	8.73928E-01	3.25390E 01	2.17593E 00	-1.04263E-03	-2.08392E 00	3.35486E 01	4.35066E 02	
34.60	8.73923E-01	3.26384E 01	2.19037E 00	-1.04312E-03	-2.09815E 00	3.36483E 01	4.35674E 02	
34.70	8.73919E-01	3.27377E 01	2.20486E 00	-1.04360E-03	-2.11243E 00	3.37481E 01	4.36284E 02	
34.80	8.73914E-01	3.28371E 01	2.21940E 00	-1.04407E-03	-2.12676E 00	3.38479E 01	4.36893E 02	
34.90	8.73910E-01	3.29366E 01	2.23399E 00	-1.04453E-03	-2.14114E 00	3.39478E 01	4.37502E 02	
35.00	8.73905E-01	3.30360E 01	2.24863E 00	-1.04496E-03	-2.15557E 00	3.40477E 01	4.38113E 02	
35.10	8.73900E-01	3.31355E 01	2.26332E 00	-1.04539E-03	-2.17005E 00	3.41476E 01	4.38724E 02	
35.20	8.73896E-01	3.32350E 01	2.27805E 00	-1.04580E-03	-2.18458E 00	3.42475E 01	4.39335E 02	
35.30	8.73892E-01	3.33346E 01	2.29284E 00	-1.04620E-03	-2.19916E 00	3.43475E 01	4.39947E 02	
35.40	8.73887E-01	3.34342E 01	2.30768E 00	-1.04659E-03	-2.21380E 00	3.44475E 01	4.40558E 02	
35.50	8.73883E-01	3.35338E 01	2.32257E 00	-1.04695E-03	-2.22848E 00	3.45476E 01	4.41172E 02	
35.60	8.73878E-01	3.36335E 01	2.33751E 00	-1.04731E-03	-2.24321E 00	3.46477E 01	4.41785E 02	
35.70	8.73874E-01	3.37332E 01	2.35250E 00	-1.04765E-03	-2.25799E 00	3.47478E 01	4.42398E 02	
35.80	8.73869E-01	3.38329E 01	2.36754E 00	-1.04798E-03	-2.27283E 00	3.48479E 01	4.43014E 02	
35.90	8.73865E-01	3.39326E 01	2.38264E 00	-1.04829E-03	-2.28771E 00	3.49481E 01	4.43629E 02	
36.00	8.73861E-01	3.40324E 01	2.39778E 00	-1.04860E-03	-2.30265E 00	3.50483E 01	4.44243E 02	

## ELECTRON RADIAL FUNCTIONS

$p$	$Z=6 \quad A=12 \quad \rho=1.2A^{1/3}F$							Positron
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
30.10	1.11236E-03	1.97357E 00	6.76812E-02	-3.26845E 01	-6.41563E-02	2.04022E 00	2.98673E-02	
30.20	1.11976E-03	1.98678E 00	6.84175E-02	-3.26859E 01	-6.48715E-02	2.05365E 00	2.98684E-02	
30.30	1.12718E-03	2.00004E 00	6.91592E-02	-3.26873E 01	-6.55919E-02	2.06713E 00	2.98695E-02	
30.40	1.13463E-03	2.01334E 00	6.99061E-02	-3.26887E 01	-6.63175E-02	2.08065E 00	2.98706E-02	
30.50	1.14211E-03	2.02668E 00	7.06584E-02	-3.26900E 01	-6.70484E-02	2.09422E 00	2.98717E-02	
30.60	1.14961E-03	2.04007E 00	7.14160E-02	-3.26914E 01	-6.77845E-02	2.10783E 00	2.98727E-02	
30.70	1.15713E-03	2.05351E 00	7.21789E-02	-3.26927E 01	-6.85260E-02	2.12148E 00	2.98738E-02	
30.80	1.16468E-03	2.06698E 00	7.29473E-02	-3.26941E 01	-6.92727E-02	2.13518E 00	2.98749E-02	
30.90	1.17225E-03	2.08050E 00	7.37210E-02	-3.26954E 01	-7.00248E-02	2.14892E 00	2.98759E-02	
31.00	1.17985E-03	2.09406E 00	7.45002E-02	-3.26967E 01	-7.07823E-02	2.16270E 00	2.98770E-02	
31.10	1.18747E-03	2.10767E 00	7.52848E-02	-3.26981E 01	-7.15451E-02	2.17653E 00	2.98780E-02	
31.20	1.19511E-03	2.12132E 00	7.60748E-02	-3.26994E 01	-7.23133E-02	2.19040E 00	2.98790E-02	
31.30	1.20278E-03	2.13501E 00	7.68703E-02	-3.27007E 01	-7.30870E-02	2.20431E 00	2.98801E-02	
31.40	1.21048E-03	2.14875E 00	7.76713E-02	-3.27020E 01	-7.38660E-02	2.21827E 00	2.98811E-02	
31.50	1.21820E-03	2.16253E 00	7.84778E-02	-3.27032E 01	-7.46505E-02	2.23227E 00	2.98821E-02	
31.60	1.22594E-03	2.17636E 00	7.92898E-02	-3.27045E 01	-7.54405E-02	2.24632E 00	2.98831E-02	
31.70	1.23371E-03	2.19023E 00	8.01074E-02	-3.27058E 01	-7.62359E-02	2.26041E 00	2.98841E-02	
31.80	1.24150E-03	2.20414E 00	8.09305E-02	-3.27070E 01	-7.70368E-02	2.27454E 00	2.98851E-02	
31.90	1.24932E-03	2.21809E 00	8.17592E-02	-3.27083E 01	-7.78433E-02	2.28872E 00	2.98861E-02	
32.00	1.25716E-03	2.23209E 00	8.25936E-02	-3.27095E 01	-7.86553E-02	2.30294E 00	2.98871E-02	
32.10	1.26503E-03	2.24613E 00	8.34335E-02	-3.27108E 01	-7.94728E-02	2.31720E 00	2.98881E-02	
32.20	1.27292E-03	2.26022E 00	8.42791E-02	-3.27120E 01	-8.02960E-02	2.33151E 00	2.98890E-02	
32.30	1.28083E-03	2.27435E 00	8.51303E-02	-3.27132E 01	-8.11247E-02	2.34586E 00	2.98900E-02	
32.40	1.28877E-03	2.28852E 00	8.59872E-02	-3.27144E 01	-8.19590E-02	2.36025E 00	2.98910E-02	
32.50	1.29674E-03	2.30274E 00	8.68498E-02	-3.27156E 01	-8.27990E-02	2.37469E 00	2.98919E-02	
32.60	1.30473E-03	2.31700E 00	8.77181E-02	-3.27168E 01	-8.36446E-02	2.38917E 00	2.98929E-02	
32.70	1.31274E-03	2.33130E 00	8.85921E-02	-3.27180E 01	-8.44959E-02	2.40369E 00	2.98938E-02	
32.80	1.32078E-03	2.34565E 00	8.94719E-02	-3.27192E 01	-8.53528E-02	2.41826E 00	2.98948E-02	
32.90	1.32884E-03	2.36004E 00	9.03575E-02	-3.27204E 01	-8.62155E-02	2.43287E 00	2.98957E-02	
33.00	1.33693E-03	2.37448E 00	9.12488E-02	-3.27215E 01	-8.70839E-02	2.44752E 00	2.98966E-02	
33.10	1.34504E-03	2.38895E 00	9.21460E-02	-3.27227E 01	-8.79581E-02	2.46222E 00	2.98976E-02	
33.20	1.35317E-03	2.40347E 00	9.30489E-02	-3.27238E 01	-8.88380E-02	2.47696E 00	2.98985E-02	
33.30	1.36133E-03	2.41804E 00	9.39577E-02	-3.27250E 01	-8.97236E-02	2.49175E 00	2.98994E-02	
33.40	1.36952E-03	2.43265E 00	9.48724E-02	-3.27261E 01	-9.06151E-02	2.50658E 00	2.99003E-02	
33.50	1.37773E-03	2.44730E 00	9.57929E-02	-3.27272E 01	-9.15124E-02	2.52145E 00	2.99012E-02	
33.60	1.38596E-03	2.46199E 00	9.67194E-02	-3.27284E 01	-9.24155E-02	2.53637E 00	2.99021E-02	
33.70	1.39422E-03	2.47673E 00	9.76517E-02	-3.27295E 01	-9.33245E-02	2.55132E 00	2.99030E-02	
33.80	1.40250E-03	2.49152E 00	9.85900E-02	-3.27306E 01	-9.42394E-02	2.56633E 00	2.99039E-02	
33.90	1.41081E-03	2.50634E 00	9.95343E-02	-3.27317E 01	-9.51601E-02	2.58137E 00	2.99048E-02	
34.00	1.41914E-03	2.52121E 00	1.00484E-01	-3.27328E 01	-9.60868E-02	2.59646E 00	2.99056E-02	
34.10	1.42750E-03	2.53612E 00	1.01441E-01	-3.27339E 01	-9.70193E-02	2.61159E 00	2.99065E-02	
34.20	1.43588E-03	2.55108E 00	1.02403E-01	-3.27350E 01	-9.79579E-02	2.62677E 00	2.99074E-02	
34.30	1.44429E-03	2.56608E 00	1.03371E-01	-3.27360E 01	-9.89023E-02	2.64199E 00	2.99083E-02	
34.40	1.45272E-03	2.58112E 00	1.04345E-01	-3.27371E 01	-9.98528E-02	2.65725E 00	2.99091E-02	
34.50	1.46117E-03	2.59620E 00	1.05326E-01	-3.27382E 01	-1.00809E-01	2.67256E 00	2.99100E-02	
34.60	1.46965E-03	2.61133E 00	1.06312E-01	-3.27392E 01	-1.01772E-01	2.68791E 00	2.99108E-02	
34.70	1.47816E-03	2.62651E 00	1.07305E-01	-3.27403E 01	-1.02740E-01	2.70330E 00	2.99117E-02	
34.80	1.48668E-03	2.64172E 00	1.08303E-01	-3.27413E 01	-1.03715E-01	2.71874E 00	2.99125E-02	
34.90	1.49524E-03	2.65698E 00	1.09308E-01	-3.27424E 01	-1.04696E-01	2.73422E 00	2.99133E-02	
35.00	1.50381E-03	2.67228E 00	1.10319E-01	-3.27434E 01	-1.05682E-01	2.74974E 00	2.99142E-02	
35.10	1.51242E-03	2.68763E 00	1.11336E-01	-3.27444E 01	-1.06675E-01	2.76530E 00	2.99150E-02	
35.20	1.52104E-03	2.70302E 00	1.12359E-01	-3.27454E 01	-1.07674E-01	2.78091E 00	2.99158E-02	
35.30	1.52969E-03	2.71845E 00	1.13389E-01	-3.27464E 01	-1.08679E-01	2.79657E 00	2.99166E-02	
35.40	1.53837E-03	2.73393E 00	1.14425E-01	-3.27475E 01	-1.09691E-01	2.81226E 00	2.99175E-02	
35.50	1.54707E-03	2.74945E 00	1.15467E-01	-3.27485E 01	-1.10708E-01	2.82800E 00	2.99183E-02	
35.60	1.55579E-03	2.76501E 00	1.16515E-01	-3.27494E 01	-1.11732E-01	2.84379E 00	2.99191E-02	
35.70	1.56454E-03	2.78062E 00	1.17570E-01	-3.27504E 01	-1.12762E-01	2.85961E 00	2.99199E-02	
35.80	1.57332E-03	2.79627E 00	1.18630E-01	-3.27514E 01	-1.13798E-01	2.87548E 00	2.99207E-02	
35.90	1.58211E-03	2.81196E 00	1.19698E-01	-3.27524E 01	-1.14840E-01	2.89139E 00	2.99215E-02	
36.00	1.59094E-03	2.82770E 00	1.20771E-01	-3.27534E 01	-1.15889E-01	2.90735E 00	2.99223E-02	



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6 \quad A=12 \quad \rho=1.2 A^{1/3} F$							
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
36.10	8.73856E-01	3.41322E 01	2.41297E 00	-1.04889E-03	-2.31763E 00	3.51486E 01	4.44860E 02	
36.20	8.73852E-01	3.42321E 01	2.42821E 00	-1.04916E-03	-2.33267E 00	3.52488E 01	4.45478E 02	
36.30	8.73847E-01	3.43319E 01	2.44350E 00	-1.04943E-03	-2.34775E 00	3.53491E 01	4.46095E 02	
36.40	8.73843E-01	3.44318E 01	2.45885E 00	-1.04968E-03	-2.36289E 00	3.54495E 01	4.46713E 02	
36.50	8.73839E-01	3.45318E 01	2.47424E 00	-1.04991E-03	-2.37808E 00	3.55499E 01	4.47332E 02	
36.60	8.73834E-01	3.46318E 01	2.48969E 00	-1.05013E-03	-2.39332E 00	3.56503E 01	4.47953E 02	
36.70	8.73830E-01	3.47318E 01	2.50518E 00	-1.05035E-03	-2.40861E 00	3.57507E 01	4.48572E 02	
36.80	8.73826E-01	3.48318E 01	2.52073E 00	-1.05055E-03	-2.42395E 00	3.58512E 01	4.49193E 02	
36.90	8.73821E-01	3.49319E 01	2.53633E 00	-1.05073E-03	-2.43934E 00	3.59517E 01	4.49815E 02	
37.00	8.73817E-01	3.50320E 01	2.55197E 00	-1.05091E-03	-2.45478E 00	3.60523E 01	4.50437E 02	
37.10	8.73813E-01	3.51321E 01	2.56767E 00	-1.05107E-03	-2.47028E 00	3.61529E 01	4.51061E 02	
37.20	8.73809E-01	3.52323E 01	2.58342E 00	-1.05121E-03	-2.48582E 00	3.62535E 01	4.51686E 02	
37.30	8.73804E-01	3.53325E 01	2.59922E 00	-1.05135E-03	-2.50141E 00	3.63541E 01	4.52310E 02	
37.40	8.73800E-01	3.54327E 01	2.61507E 00	-1.05147E-03	-2.51706E 00	3.64548E 01	4.52935E 02	
37.50	8.73796E-01	3.55330E 01	2.63097E 00	-1.05158E-03	-2.53276E 00	3.65555E 01	4.53562E 02	
37.60	8.73792E-01	3.56333E 01	2.64693E 00	-1.05168E-03	-2.54851E 00	3.66563E 01	4.54189E 02	
37.70	8.73787E-01	3.57336E 01	2.66293E 00	-1.05178E-03	-2.56431E 00	3.67571E 01	4.54816E 02	
37.80	8.73783E-01	3.58340E 01	2.67899E 00	-1.05185E-03	-2.58016E 00	3.68579E 01	4.55446E 02	
37.90	8.73779E-01	3.59344E 01	2.69509E 00	-1.05191E-03	-2.59606E 00	3.69588E 01	4.56075E 02	
38.00	8.73775E-01	3.60348E 01	2.71125E 00	-1.05196E-03	-2.61201E 00	3.70597E 01	4.56707E 02	
38.10	8.73771E-01	3.61353E 01	2.72746E 00	-1.05200E-03	-2.62802E 00	3.71606E 01	4.57338E 02	
38.20	8.73767E-01	3.62358E 01	2.74372E 00	-1.05203E-03	-2.64407E 00	3.72615E 01	4.57969E 02	
38.30	8.73762E-01	3.63363E 01	2.76003E 00	-1.05205E-03	-2.66018E 00	3.73625E 01	4.58603E 02	
38.40	8.73758E-01	3.64369E 01	2.77639E 00	-1.05205E-03	-2.67634E 00	3.74636E 01	4.59237E 02	
38.50	8.73754E-01	3.65375E 01	2.79281E 00	-1.05204E-03	-2.69255E 00	3.75647E 01	4.59872E 02	
38.60	8.73750E-01	3.66382E 01	2.80927E 00	-1.05203E-03	-2.70881E 00	3.76658E 01	4.60507E 02	
38.70	8.73746E-01	3.67388E 01	2.82579E 00	-1.05200E-03	-2.72513E 00	3.77669E 01	4.61145E 02	
38.80	8.73742E-01	3.68395E 01	2.84236E 00	-1.05196E-03	-2.74149E 00	3.78681E 01	4.61783E 02	
38.90	8.73738E-01	3.69403E 01	2.85898E 00	-1.05190E-03	-2.75791E 00	3.79693E 01	4.62423E 02	
39.00	8.73734E-01	3.70411E 01	2.87565E 00	-1.05184E-03	-2.77438E 00	3.80705E 01	4.63062E 02	
39.10	8.73730E-01	3.71419E 01	2.89237E 00	-1.05176E-03	-2.79090E 00	3.81718E 01	4.63702E 02	
39.20	8.73725E-01	3.72427E 01	2.90914E 00	-1.05168E-03	-2.80747E 00	3.82732E 01	4.64345E 02	
39.30	8.73721E-01	3.73436E 01	2.92597E 00	-1.05158E-03	-2.82409E 00	3.83745E 01	4.64988E 02	
39.40	8.73717E-01	3.74445E 01	2.94285E 00	-1.05147E-03	-2.84077E 00	3.84759E 01	4.65632E 02	
39.50	8.73713E-01	3.75455E 01	2.95978E 00	-1.05135E-03	-2.85749E 00	3.85773E 01	4.66277E 02	
39.60	8.73709E-01	3.76465E 01	2.97676E 00	-1.05122E-03	-2.87427E 00	3.86788E 01	4.66924E 02	
39.70	8.73705E-01	3.77475E 01	2.99379E 00	-1.05108E-03	-2.89110E 00	3.87803E 01	4.67571E 02	
39.80	8.73701E-01	3.78486E 01	3.01088E 00	-1.05092E-03	-2.90799E 00	3.88819E 01	4.68220E 02	
39.90	8.73697E-01	3.79497E 01	3.02801E 00	-1.05077E-03	-2.92492E 00	3.89834E 01	4.68868E 02	
40.00	8.73693E-01	3.80508E 01	3.04520E 00	-1.05059E-03	-2.94191E 00	3.90850E 01	4.69519E 02	
40.10	8.73689E-01	3.81520E 01	3.06244E 00	-1.05040E-03	-2.95895E 00	3.91867E 01	4.70172E 02	
40.20	8.73685E-01	3.82532E 01	3.07973E 00	-1.05020E-03	-2.97604E 00	3.92884E 01	4.70826E 02	
40.30	8.73681E-01	3.83544E 01	3.09708E 00	-1.05000E-03	-2.99318E 00	3.93901E 01	4.71479E 02	
40.40	8.73677E-01	3.84557E 01	3.11448E 00	-1.04978E-03	-3.01038E 00	3.94919E 01	4.72134E 02	
40.50	8.73673E-01	3.85570E 01	3.13192E 00	-1.04956E-03	-3.02763E 00	3.95937E 01	4.72791E 02	
40.60	8.73669E-01	3.86583E 01	3.14942E 00	-1.04932E-03	-3.04493E 00	3.96955E 01	4.73449E 02	
40.70	8.73665E-01	3.87597E 01	3.16698E 00	-1.04908E-03	-3.06228E 00	3.97974E 01	4.74106E 02	
40.80	8.73662E-01	3.88611E 01	3.18458E 00	-1.04882E-03	-3.07969E 00	3.98993E 01	4.74767E 02	
40.90	8.73658E-01	3.89626E 01	3.20224E 00	-1.04855E-03	-3.09714E 00	4.00013E 01	4.75429E 02	
41.00	8.73654E-01	3.90641E 01	3.21995E 00	-1.04827E-03	-3.11465E 00	4.01033E 01	4.76091E 02	
41.10	8.73650E-01	3.91656E 01	3.23771E 00	-1.04798E-03	-3.13222E 00	4.02053E 01	4.76756E 02	
41.20	8.73646E-01	3.92672E 01	3.25553E 00	-1.04769E-03	-3.14983E 00	4.03074E 01	4.77420E 02	
41.30	8.73642E-01	3.93688E 01	3.27340E 00	-1.04737E-03	-3.16750E 00	4.04095E 01	4.78088E 02	
41.40	8.73638E-01	3.94704E 01	3.29132E 00	-1.04705E-03	-3.18522E 00	4.05116E 01	4.78757E 02	
41.50	8.73634E-01	3.95721E 01	3.30929E 00	-1.04672E-03	-3.20299E 00	4.06138E 01	4.79425E 02	
41.60	8.73630E-01	3.96738E 01	3.32731E 00	-1.04638E-03	-3.22082E 00	4.07160E 01	4.80096E 02	
41.70	8.73627E-01	3.97756E 01	3.34539E 00	-1.04604E-03	-3.23870E 00	4.08183E 01	4.80768E 02	
41.80	8.73623E-01	3.98774E 01	3.36352E 00	-1.04568E-03	-3.25663E 00	4.09206E 01	4.81441E 02	
41.90	8.73619E-01	3.99792E 01	3.38170E 00	-1.04531E-03	-3.27461E 00	4.10229E 01	4.82117E 02	
42.00	8.73615E-01	4.00811E 01	3.39994E 00	-1.04492E-03	-3.29265E 00	4.11253E 01	4.82794E 02	

ELECTRON RADIAL FUNCTIONS

Z = 6

A = 12

$\rho = 1.2 A^{1/3} F$

Positron

$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
36.10	1.59978E-03	2.84348E 00	1.21851E-01	-3.27543E 01	-1.16944E-01	2.92335E 00	2.99230E-02
36.20	1.60865E-03	2.85930E 00	1.22937E-01	-3.27553E 01	-1.18006E-01	2.93939E 00	2.99238E-02
36.30	1.61755E-03	2.87517E 00	1.24030E-01	-3.27563E 01	-1.19073E-01	2.95548E 00	2.99246E-02
36.40	1.62647E-03	2.89107E 00	1.25129E-01	-3.27572E 01	-1.20147E-01	2.97161E 00	2.99254E-02
36.50	1.63542E-03	2.90703E 00	1.26234E-01	-3.27582E 01	-1.21228E-01	2.98778E 00	2.99261E-02
36.60	1.64439E-03	2.92302E 00	1.27346E-01	-3.27591E 01	-1.22314E-01	3.00400E 00	2.99269E-02
36.70	1.65338E-03	2.93906E 00	1.28465E-01	-3.27600E 01	-1.23408E-01	3.02025E 00	2.99277E-02
36.80	1.66240E-03	2.95514E 00	1.29590E-01	-3.27610E 01	-1.24507E-01	3.03656E 00	2.99284E-02
36.90	1.67144E-03	2.97127E 00	1.30721E-01	-3.27619E 01	-1.25613E-01	3.05290E 00	2.99292E-02
37.00	1.68051E-03	2.98744E 00	1.31859E-01	-3.27628E 01	-1.26726E-01	3.06929E 00	2.99299E-02
37.10	1.68960E-03	3.00365E 00	1.33004E-01	-3.27637E 01	-1.27845E-01	3.08572E 00	2.99307E-02
37.20	1.69872E-03	3.01990E 00	1.34155E-01	-3.27646E 01	-1.28970E-01	3.10220E 00	2.99314E-02
37.30	1.70786E-03	3.03620E 00	1.35312E-01	-3.27655E 01	-1.30102E-01	3.11871E 00	2.99321E-02
37.40	1.71703E-03	3.05254E 00	1.36476E-01	-3.27664E 01	-1.31241E-01	3.13527E 00	2.99329E-02
37.50	1.72622E-03	3.06893E 00	1.37647E-01	-3.27673E 01	-1.32386E-01	3.15188E 00	2.99336E-02
37.60	1.73543E-03	3.08536E 00	1.38825E-01	-3.27682E 01	-1.33538E-01	3.16853E 00	2.99343E-02
37.70	1.74467E-03	3.10183E 00	1.40009E-01	-3.27691E 01	-1.34696E-01	3.18522E 00	2.99351E-02
37.80	1.75393E-03	3.11834E 00	1.41200E-01	-3.27700E 01	-1.35861E-01	3.20195E 00	2.99358E-02
37.90	1.76322E-03	3.13490E 00	1.42397E-01	-3.27709E 01	-1.37032E-01	3.21873E 00	2.99365E-02
38.00	1.77253E-03	3.15150E 00	1.43601E-01	-3.27717E 01	-1.38210E-01	3.23555E 00	2.99372E-02
38.10	1.78187E-03	3.16814E 00	1.44812E-01	-3.27726E 01	-1.39395E-01	3.25241E 00	2.99379E-02
38.20	1.79123E-03	3.18483E 00	1.46030E-01	-3.27734E 01	-1.40587E-01	3.26932E 00	2.99386E-02
38.30	1.80062E-03	3.20156E 00	1.47254E-01	-3.27743E 01	-1.41785E-01	3.28627E 00	2.99393E-02
38.40	1.81003E-03	3.21833E 00	1.48485E-01	-3.27751E 01	-1.42990E-01	3.30326E 00	2.99400E-02
38.50	1.81947E-03	3.23515E 00	1.49724E-01	-3.27760E 01	-1.44201E-01	3.32030E 00	2.99407E-02
38.60	1.82893E-03	3.25201E 00	1.50968E-01	-3.27768E 01	-1.45420E-01	3.33737E 00	2.99414E-02
38.70	1.83841E-03	3.26891E 00	1.52220E-01	-3.27777E 01	-1.46645E-01	3.35450E 00	2.99421E-02
38.80	1.84792E-03	3.28586E 00	1.53479E-01	-3.27785E 01	-1.47877E-01	3.37166E 00	2.99428E-02
38.90	1.85745E-03	3.30284E 00	1.54744E-01	-3.27793E 01	-1.49116E-01	3.38887E 00	2.99435E-02
39.00	1.86701E-03	3.31987E 00	1.56016E-01	-3.27802E 01	-1.50362E-01	3.40612E 00	2.99441E-02
39.10	1.87659E-03	3.33695E 00	1.57295E-01	-3.27810E 01	-1.51614E-01	3.42341E 00	2.99448E-02
39.20	1.88620E-03	3.35407E 00	1.58582E-01	-3.27818E 01	-1.52873E-01	3.44075E 00	2.99455E-02
39.30	1.89583E-03	3.37123E 00	1.59875E-01	-3.27826E 01	-1.54140E-01	3.45813E 00	2.99461E-02
39.40	1.90549E-03	3.38843E 00	1.61175E-01	-3.27834E 01	-1.55413E-01	3.47555E 00	2.99468E-02
39.50	1.91517E-03	3.40568E 00	1.62482E-01	-3.27842E 01	-1.56693E-01	3.49302E 00	2.99475E-02
39.60	1.92487E-03	3.42297E 00	1.63796E-01	-3.27850E 01	-1.57980E-01	3.51053E 00	2.99481E-02
39.70	1.93460E-03	3.44030E 00	1.65117E-01	-3.27858E 01	-1.59274E-01	3.52808E 00	2.99488E-02
39.80	1.94436E-03	3.45768E 00	1.66445E-01	-3.27866E 01	-1.60575E-01	3.54568E 00	2.99494E-02
39.90	1.95414E-03	3.47509E 00	1.67780E-01	-3.27874E 01	-1.61883E-01	3.56331E 00	2.99501E-02
40.00	1.96394E-03	3.49256E 00	1.69122E-01	-3.27882E 01	-1.63198E-01	3.58099E 00	2.99507E-02
40.10	1.97377E-03	3.51006E 00	1.70472E-01	-3.27889E 01	-1.64520E-01	3.59872E 00	2.99514E-02
40.20	1.98362E-03	3.52761E 00	1.71828E-01	-3.27897E 01	-1.65849E-01	3.61649E 00	2.99520E-02
40.30	1.99350E-03	3.54520E 00	1.73192E-01	-3.27905E 01	-1.67185E-01	3.63430E 00	2.99527E-02
40.40	2.00340E-03	3.56283E 00	1.74562E-01	-3.27912E 01	-1.68528E-01	3.65215E 00	2.99533E-02
40.50	2.01332E-03	3.58051E 00	1.75940E-01	-3.27920E 01	-1.69878E-01	3.67004E 00	2.99539E-02
40.60	2.02327E-03	3.59823E 00	1.77325E-01	-3.27928E 01	-1.71236E-01	3.68798E 00	2.99546E-02
40.70	2.03325E-03	3.61599E 00	1.78717E-01	-3.27935E 01	-1.72600E-01	3.70596E 00	2.99552E-02
40.80	2.04325E-03	3.63380E 00	1.80117E-01	-3.27943E 01	-1.73972E-01	3.72399E 00	2.99558E-02
40.90	2.05327E-03	3.65164E 00	1.81524E-01	-3.27950E 01	-1.75351E-01	3.74206E 00	2.99564E-02
41.00	2.06332E-03	3.66954E 00	1.82938E-01	-3.27958E 01	-1.76737E-01	3.76017E 00	2.99570E-02
41.10	2.07339E-03	3.68747E 00	1.84359E-01	-3.27965E 01	-1.78130E-01	3.77832E 00	2.99577E-02
41.20	2.08349E-03	3.70545E 00	1.85787E-01	-3.27972E 01	-1.79531E-01	3.79652E 00	2.99583E-02
41.30	2.09361E-03	3.72347E 00	1.87223E-01	-3.27980E 01	-1.80939E-01	3.81475E 00	2.99589E-02
41.40	2.10376E-03	3.74153E 00	1.88667E-01	-3.27987E 01	-1.82354E-01	3.83304E 00	2.99595E-02
41.50	2.11393E-03	3.75963E 00	1.90117E-01	-3.27994E 01	-1.83776E-01	3.85136E 00	2.99601E-02
41.60	2.12412E-03	3.77778E 00	1.91575E-01	-3.28001E 01	-1.85206E-01	3.86973E 00	2.99607E-02
41.70	2.13434E-03	3.79597E 00	1.93040E-01	-3.28008E 01	-1.86643E-01	3.88814E 00	2.99613E-02
41.80	2.14459E-03	3.81421E 00	1.94513E-01	-3.28016E 01	-1.88087E-01	3.90659E 00	2.99619E-02
41.90	2.15486E-03	3.83249E 00	1.95993E-01	-3.28023E 01	-1.89539E-01	3.92509E 00	2.99625E-02
42.00	2.16515E-03	3.85081E 00	1.97481E-01	-3.28030E 01	-1.90998E-01	3.94363E 00	2.99631E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=7$ $A=14$ $\rho=1.2 A^{1/3} F$						
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
0.10	1.36524E-01	2.91493E-03	-4.49782E-05	2.30203E-01	1.06563E-03	5.21747E-02	3.98269E 00
0.20	4.04064E-01	1.82750E-02	-2.81312E-04	1.11060E-01	3.64664E-03	1.78869E-01	7.12425E 00
0.30	5.54557E-01	4.65307E-02	-7.13443E-04	7.38208E-02	6.35240E-03	3.12516E-01	1.04983E 01
0.40	6.41854E-01	8.63966E-02	-1.31757E-03	5.53965E-02	9.00709E-03	4.44922E-01	1.39278E 01
0.50	6.96879E-01	1.36330E-01	-2.06512E-03	4.43434E-02	1.15689E-02	5.74375E-01	1.73736E 01
0.60	7.33832E-01	1.94744E-01	-2.92654E-03	3.69484E-02	1.40226E-02	7.00378E-01	2.08178E 01
0.70	7.59834E-01	2.60145E-01	-3.87396E-03	3.16390E-02	1.63632E-02	8.22875E-01	2.42490E 01
0.80	7.78796E-01	3.31202E-01	-4.88249E-03	2.76336E-02	1.85915E-02	9.42029E-01	2.76595E 01
0.90	7.93018E-01	4.06786E-01	-5.93096E-03	2.44993E-02	2.07113E-02	1.05811E 00	3.10437E 01
1.00	8.03932E-01	4.85967E-01	-7.00185E-03	2.19765E-02	2.27280E-02	1.17143E 00	3.43976E 01
1.10	8.12471E-01	5.67992E-01	-8.08096E-03	1.99004E-02	2.46475E-02	1.28232E 00	3.77184E 01
1.20	8.19261E-01	6.52263E-01	-9.15699E-03	1.81605E-02	2.64758E-02	1.39107E 00	4.10039E 01
1.30	8.24738E-01	7.38308E-01	-1.02210E-02	1.66806E-02	2.82182E-02	1.49797E 00	4.42529E 01
1.40	8.29210E-01	8.25756E-01	-1.12659E-02	1.54058E-02	2.98799E-02	1.60327E 00	4.74644E 01
1.50	8.32903E-01	9.14317E-01	-1.22862E-02	1.42960E-02	3.14654E-02	1.70717E 00	5.06380E 01
1.60	8.35982E-01	1.00376E 00	-1.32775E-02	1.33207E-02	3.29784E-02	1.80987E 00	5.37733E 01
1.70	8.38571E-01	1.09391E 00	-1.42363E-02	1.24567E-02	3.44225E-02	1.91153E 00	5.68704E 01
1.80	8.40767E-01	1.18463E 00	-1.51601E-02	1.16859E-02	3.58005E-02	2.01228E 00	5.99294E 01
1.90	8.42642E-01	1.27581E 00	-1.60465E-02	1.09939E-02	3.71149E-02	2.11225E 00	6.29505E 01
2.00	8.44253E-01	1.36735E 00	-1.68940E-02	1.03691E-02	3.83679E-02	2.21153E 00	6.59341E 01
2.10	8.45645E-01	1.45918E 00	-1.77012E-02	9.80217E-03	3.95612E-02	2.31021E 00	6.88805E 01
2.20	8.46856E-01	1.55126E 00	-1.84669E-02	9.28536E-03	4.06966E-02	2.40836E 00	7.17903E 01
2.30	8.47913E-01	1.64354E 00	-1.91903E-02	8.81231E-03	4.17754E-02	2.50605E 00	7.46640E 01
2.40	8.48841E-01	1.73597E 00	-1.98707E-02	8.37763E-03	4.27987E-02	2.60333E 00	7.75020E 01
2.50	8.49659E-01	1.82854E 00	-2.05075E-02	7.97685E-03	4.37676E-02	2.70024E 00	8.03049E 01
2.60	8.50381E-01	1.92121E 00	-2.11002E-02	7.60613E-03	4.46830E-02	2.79683E 00	8.30732E 01
2.70	8.51024E-01	2.01398E 00	-2.16485E-02	7.26222E-03	4.55456E-02	2.89314E 00	8.58076E 01
2.80	8.51596E-01	2.10682E 00	-2.21519E-02	6.94229E-03	4.63561E-02	2.98919E 00	8.85085E 01
2.90	8.52107E-01	2.19972E 00	-2.26104E-02	6.64391E-03	4.71151E-02	3.08501E 00	9.11764E 01
3.00	8.52565E-01	2.29266E 00	-2.30235E-02	6.36500E-03	4.78230E-02	3.18063E 00	9.38122E 01
3.10	8.52976E-01	2.38565E 00	-2.33913E-02	6.10368E-03	4.84804E-02	3.27605E 00	9.64160E 01
3.20	8.53347E-01	2.47868E 00	-2.37134E-02	5.85836E-03	4.90877E-02	3.37132E 00	9.89888E 01
3.30	8.53681E-01	2.57173E 00	-2.39898E-02	5.62760E-03	4.96452E-02	3.46643E 00	1.01531E 02
3.40	8.53983E-01	2.66481E 00	-2.42204E-02	5.41014E-03	5.01532E-02	3.56140E 00	1.04043E 02
3.50	8.54258E-01	2.75790E 00	-2.44052E-02	5.20487E-03	5.06120E-02	3.65626E 00	1.06525E 02
3.60	8.54506E-01	2.85102E 00	-2.45439E-02	5.01079E-03	5.10218E-02	3.75100E 00	1.08978E 02
3.70	8.54732E-01	2.94414E 00	-2.46365E-02	4.82701E-03	5.13828E-02	3.84563E 00	1.11403E 02
3.80	8.54938E-01	3.03728E 00	-2.46831E-02	4.65273E-03	5.16954E-02	3.94018E 00	1.13799E 02
3.90	8.55126E-01	3.13043E 00	-2.46835E-02	4.48724E-03	5.19595E-02	4.03464E 00	1.16168E 02
4.00	8.55297E-01	3.22358E 00	-2.46377E-02	4.32988E-03	5.21755E-02	4.12902E 00	1.18510E 02
4.10	8.55454E-01	3.31674E 00	-2.45457E-02	4.18007E-03	5.23433E-02	4.22333E 00	1.20825E 02
4.20	8.55597E-01	3.40991E 00	-2.44074E-02	4.03728E-03	5.24633E-02	4.31758E 00	1.23113E 02
4.30	8.55728E-01	3.50308E 00	-2.42229E-02	3.90105E-03	5.25354E-02	4.41176E 00	1.25377E 02
4.40	8.55848E-01	3.59626E 00	-2.39921E-02	3.77090E-03	5.25598E-02	4.50589E 00	1.27614E 02
4.50	8.55958E-01	3.68944E 00	-2.37149E-02	3.64646E-03	5.25365E-02	4.59998E 00	1.29827E 02
4.60	8.56059E-01	3.78262E 00	-2.33914E-02	3.52736E-03	5.24657E-02	4.69401E 00	1.32016E 02
4.70	8.56153E-01	3.87581E 00	-2.30216E-02	3.41325E-03	5.23475E-02	4.78801E 00	1.34181E 02
4.80	8.56238E-01	3.96900E 00	-2.26054E-02	3.30385E-03	5.21818E-02	4.88196E 00	1.36322E 02
4.90	8.56316E-01	4.06219E 00	-2.21428E-02	3.19885E-03	5.19689E-02	4.97588E 00	1.38439E 02
5.00	8.56389E-01	4.15539E 00	-2.16338E-02	3.09801E-03	5.17087E-02	5.06977E 00	1.40534E 02
5.10	8.56454E-01	4.24858E 00	-2.10784E-02	3.00107E-03	5.14012E-02	5.16363E 00	1.42607E 02
5.20	8.56515E-01	4.34178E 00	-2.04766E-02	2.90782E-03	5.10466E-02	5.25746E 00	1.44657E 02
5.30	8.56571E-01	4.43498E 00	-1.98284E-02	2.81805E-03	5.06448E-02	5.35126E 00	1.46687E 02
5.40	8.56622E-01	4.52819E 00	-1.91338E-02	2.73158E-03	5.01960E-02	5.44505E 00	1.48694E 02
5.50	8.56669E-01	4.62140E 00	-1.83928E-02	2.64821E-03	4.97001E-02	5.53881E 00	1.50681E 02
5.60	8.56712E-01	4.71461E 00	-1.76053E-02	2.56781E-03	4.91573E-02	5.63255E 00	1.52647E 02
5.70	8.56752E-01	4.80782E 00	-1.67714E-02	2.49020E-03	4.85674E-02	5.72628E 00	1.54593E 02
5.80	8.56788E-01	4.90104E 00	-1.58910E-02	2.41525E-03	4.79306E-02	5.81999E 00	1.56519E 02
5.90	8.56821E-01	4.99426E 00	-1.49642E-02	2.34281E-03	4.72468E-02	5.91368E 00	1.58425E 02
6.00	8.56852E-01	5.08748E 00	-1.39909E-02	2.27277E-03	4.65161E-02	6.00736E 00	1.60312E 02

ELECTRON RADIAL FUNCTIONS

$Z = 7$

$A = 14$

$\rho = 1.2 A^{1/3} F$

Positron

$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	2.65897E-09	7.45573E-07	-6.46642E-09	-1.93299E 00	1.69985E-07	1.45670E-05	2.31355E-01
0.20	2.66160E-08	9.15658E-06	-7.92126E-08	-4.07750E 00	1.06967E-06	9.18412E-05	1.13974E-01
0.30	7.94353E-08	3.48367E-05	-3.00104E-07	-6.06943E 00	2.74735E-06	2.36623E-04	7.85227E-02
0.40	1.61494E-07	8.61357E-05	-7.37765E-07	-7.92500E 00	5.16171E-06	4.46468E-04	6.18327E-02
0.50	2.72463E-07	1.69808E-04	-1.44400E-06	-9.63454E 00	8.26230E-06	7.18475E-04	5.24336E-02
0.60	4.11945E-07	2.91006E-04	-2.45364E-06	-1.11927E 01	1.19962E-05	1.04975E-03	4.65986E-02
0.70	5.79578E-07	4.53465E-04	-3.78642E-06	-1.26008E 01	1.63117E-05	1.43766E-03	4.27492E-02
0.80	7.75063E-07	6.59760E-04	-5.44969E-06	-1.38656E 01	2.11606E-05	1.87991E-03	4.01026E-02
0.90	9.98154E-07	9.11590E-04	-7.44142E-06	-1.49972E 01	2.64988E-05	2.37462E-03	3.82283E-02
1.00	1.24866E-06	1.21002E-03	-9.75274E-06	-1.60074E 01	3.22868E-05	2.92029E-03	3.68714E-02
1.10	1.52643E-06	1.55568E-03	-1.23700E-05	-1.69088E 01	3.84886E-05	3.51573E-03	3.58726E-02
1.20	1.83133E-06	1.94891E-03	-1.52765E-05	-1.77135E 01	4.50719E-05	4.16003E-03	3.51280E-02
1.30	2.16329E-06	2.38987E-03	-1.84534E-05	-1.84327E 01	5.20069E-05	4.85251E-03	3.45678E-02
1.40	2.52222E-06	2.87858E-03	-2.18805E-05	-1.90768E 01	5.92659E-05	5.59262E-03	3.41435E-02
1.50	2.90806E-06	3.41500E-03	-2.55368E-05	-1.96550E 01	6.68230E-05	6.37999E-03	3.38211E-02
1.60	3.32077E-06	3.99907E-03	-2.94010E-05	-2.01754E 01	7.46535E-05	7.21432E-03	3.35758E-02
1.70	3.76031E-06	4.63068E-03	-3.34513E-05	-2.06450E 01	8.27335E-05	8.09538E-03	3.33896E-02
1.80	4.22665E-06	5.30974E-03	-3.76661E-05	-2.10700E 01	9.10400E-05	9.02300E-03	3.32490E-02
1.90	4.71977E-06	6.03614E-03	-4.20235E-05	-2.14558E 01	9.95507E-05	9.99708E-03	3.31440E-02
2.00	5.23964E-06	6.80977E-03	-4.65018E-05	-2.18070E 01	1.08243E-04	1.10175E-02	3.30670E-02
2.10	5.78625E-06	7.63056E-03	-5.10792E-05	-2.21276E 01	1.17096E-04	1.20842E-02	3.30120E-02
2.20	6.35958E-06	8.49840E-03	-5.57342E-05	-2.24210E 01	1.26088E-04	1.31972E-02	3.29745E-02
2.30	6.95963E-06	9.41322E-03	-6.04452E-05	-2.26903E 01	1.35197E-04	1.43563E-02	3.29508E-02
2.40	7.58638E-06	1.03750E-02	-6.51907E-05	-2.29381E 01	1.44403E-04	1.55616E-02	3.29382E-02
2.50	8.23982E-06	1.13835E-02	-6.99492E-05	-2.31667E 01	1.53684E-04	1.68131E-02	3.29345E-02
2.60	8.91996E-06	1.24389E-02	-7.46994E-05	-2.33781E 01	1.63019E-04	1.81107E-02	3.29378E-02
2.70	9.62677E-06	1.35410E-02	-7.94200E-05	-2.35740E 01	1.72388E-04	1.94545E-02	3.29468E-02
2.80	1.03603E-05	1.46898E-02	-8.40897E-05	-2.37559E 01	1.81769E-04	2.08443E-02	3.29603E-02
2.90	1.11204E-05	1.58853E-02	-8.86874E-05	-2.39253E 01	1.91142E-04	2.22804E-02	3.29774E-02
3.00	1.19073E-05	1.71274E-02	-9.31919E-05	-2.40832E 01	2.00486E-04	2.37625E-02	3.29973E-02
3.10	1.27207E-05	1.84160E-02	-9.75820E-05	-2.42308E 01	2.09779E-04	2.52907E-02	3.30195E-02
3.20	1.35609E-05	1.97512E-02	-1.01837E-04	-2.43690E 01	2.19002E-04	2.68651E-02	3.30434E-02
3.30	1.44277E-05	2.11329E-02	-1.05935E-04	-2.44985E 01	2.28134E-04	2.84857E-02	3.30686E-02
3.40	1.53212E-05	2.25611E-02	-1.09856E-04	-2.46202E 01	2.37153E-04	3.01523E-02	3.30948E-02
3.50	1.62413E-05	2.40358E-02	-1.13578E-04	-2.47347E 01	2.46040E-04	3.18651E-02	3.31217E-02
3.60	1.71881E-05	2.55570E-02	-1.17081E-04	-2.48426E 01	2.54773E-04	3.36240E-02	3.31491E-02
3.70	1.81615E-05	2.71246E-02	-1.20344E-04	-2.49445E 01	2.63331E-04	3.54291E-02	3.31768E-02
3.80	1.91615E-05	2.87386E-02	-1.23345E-04	-2.50407E 01	2.71694E-04	3.72803E-02	3.32047E-02
3.90	2.01882E-05	3.03990E-02	-1.26064E-04	-2.51318E 01	2.79842E-04	3.91777E-02	3.32326E-02
4.00	2.12416E-05	3.21058E-02	-1.28479E-04	-2.52181E 01	2.87752E-04	4.11212E-02	3.32604E-02
4.10	2.23215E-05	3.38590E-02	-1.30571E-04	-2.52999E 01	2.95405E-04	4.31109E-02	3.32880E-02
4.20	2.34282E-05	3.56586E-02	-1.32317E-04	-2.53777E 01	3.02780E-04	4.51468E-02	3.33155E-02
4.30	2.45614E-05	3.75045E-02	-1.33698E-04	-2.54516E 01	3.09857E-04	4.72288E-02	3.33426E-02
4.40	2.57213E-05	3.93968E-02	-1.34692E-04	-2.55220E 01	3.16613E-04	4.93570E-02	3.33694E-02
4.50	2.69079E-05	4.13354E-02	-1.35279E-04	-2.55891E 01	3.23030E-04	5.15313E-02	3.33959E-02
4.60	2.81210E-05	4.33203E-02	-1.35437E-04	-2.56531E 01	3.29085E-04	5.37518E-02	3.34220E-02
4.70	2.93608E-05	4.53515E-02	-1.35145E-04	-2.57142E 01	3.34758E-04	5.60185E-02	3.34476E-02
4.80	3.06273E-05	4.74291E-02	-1.34384E-04	-2.57726E 01	3.40029E-04	5.83314E-02	3.34729E-02
4.90	3.19203E-05	4.95529E-02	-1.33132E-04	-2.58285E 01	3.44876E-04	6.06905E-02	3.34977E-02
5.00	3.32400E-05	5.17231E-02	-1.31368E-04	-2.58820E 01	3.49280E-04	6.30958E-02	3.35221E-02
5.10	3.45863E-05	5.39395E-02	-1.29071E-04	-2.59332E 01	3.53218E-04	6.55472E-02	3.35460E-02
5.20	3.59593E-05	5.62022E-02	-1.26221E-04	-2.59824E 01	3.56671E-04	6.80448E-02	3.35695E-02
5.30	3.73589E-05	5.85112E-02	-1.22796E-04	-2.60296E 01	3.59618E-04	7.05886E-02	3.35925E-02
5.40	3.87851E-05	6.08664E-02	-1.18777E-04	-2.60749E 01	3.62037E-04	7.31786E-02	3.36151E-02
5.50	4.02379E-05	6.32679E-02	-1.14141E-04	-2.61185E 01	3.63909E-04	7.58149E-02	3.36372E-02
5.60	4.17174E-05	6.57156E-02	-1.08869E-04	-2.61604E 01	3.65212E-04	7.84973E-02	3.36589E-02
5.70	4.32234E-05	6.82095E-02	-1.02940E-04	-2.62007E 01	3.65926E-04	8.12259E-02	3.36802E-02
5.80	4.47561E-05	7.07497E-02	-9.63320E-05	-2.62396E 01	3.66029E-04	8.40007E-02	3.37010E-02
5.90	4.63155E-05	7.33359E-02	-8.90251E-05	-2.62770E 01	3.65502E-04	8.68217E-02	3.37214E-02
6.00	4.79014E-05	7.59684E-02	-8.09984E-05	-2.63132E 01	3.64323E-04	8.96889E-02	3.37414E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=7$		$A=14$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	8.56879E-01	5.18071E 00	-1.29711E-02	2.20502E-03	4.57386E-02	6.10104E 00	1.62180E 02	
6.20	8.56905E-01	5.27394E 00	-1.19049E-02	2.13943E-03	4.49142E-02	6.19470E 00	1.64030E 02	
6.30	8.56927E-01	5.36717E 00	-1.07922E-02	2.07592E-03	4.40428E-02	6.28834E 00	1.65861E 02	
6.40	8.56948E-01	5.46040E 00	-9.63299E-03	2.01438E-03	4.31247E-02	6.38199E 00	1.67674E 02	
6.50	8.56966E-01	5.55364E 00	-8.42732E-03	1.95472E-03	4.21598E-02	6.47562E 00	1.69469E 02	
6.60	8.56983E-01	5.64688E 00	-7.17515E-03	1.89686E-03	4.11480E-02	6.56925E 00	1.71247E 02	
6.70	8.56998E-01	5.74013E 00	-5.87648E-03	1.84074E-03	4.00895E-02	6.66288E 00	1.73008E 02	
6.80	8.57012E-01	5.83339E 00	-4.53131E-03	1.78625E-03	3.89842E-02	6.75650E 00	1.74752E 02	
6.90	8.57024E-01	5.92664E 00	-3.13963E-03	1.73335E-03	3.78320E-02	6.85012E 00	1.76479E 02	
7.00	8.57035E-01	6.01990E 00	-1.70143E-03	1.68194E-03	3.66331E-02	6.94373E 00	1.78190E 02	
7.10	8.57044E-01	6.11316E 00	-2.16720E-04	1.63199E-03	3.53875E-02	7.03734E 00	1.79885E 02	
7.20	8.57052E-01	6.20642E 00	1.31452E-03	1.58342E-03	3.40950E-02	7.13095E 00	1.81563E 02	
7.30	8.57059E-01	6.29970E 00	2.89229E-03	1.53618E-03	3.27559E-02	7.22456E 00	1.83226E 02	
7.40	8.57064E-01	6.39297E 00	4.51658E-03	1.49023E-03	3.13699E-02	7.31817E 00	1.84875E 02	
7.50	8.57069E-01	6.48624E 00	6.18742E-03	1.44549E-03	2.99372E-02	7.41177E 00	1.86507E 02	
7.60	8.57072E-01	6.57952E 00	7.90479E-03	1.40193E-03	2.84578E-02	7.50538E 00	1.88125E 02	
7.70	8.57075E-01	6.67280E 00	9.66871E-03	1.35951E-03	2.69316E-02	7.59899E 00	1.89728E 02	
7.80	8.57077E-01	6.76608E 00	1.14792E-02	1.31819E-03	2.53586E-02	7.69261E 00	1.91317E 02	
7.90	8.57079E-01	6.85937E 00	1.33362E-02	1.27790E-03	2.37390E-02	7.78623E 00	1.92891E 02	
8.00	8.57079E-01	6.95264E 00	1.52397E-02	1.23864E-03	2.20725E-02	7.87984E 00	1.94452E 02	
8.10	8.57079E-01	7.04591E 00	1.71898E-02	1.20035E-03	2.03594E-02	7.97346E 00	1.95998E 02	
8.20	8.57078E-01	7.13918E 00	1.91864E-02	1.16298E-03	1.85994E-02	8.06709E 00	1.97531E 02	
8.30	8.57077E-01	7.23243E 00	2.12295E-02	1.12654E-03	1.67928E-02	8.16072E 00	1.99051E 02	
8.40	8.57075E-01	7.32566E 00	2.33191E-02	1.09097E-03	1.49393E-02	8.25435E 00	2.00558E 02	
8.50	8.57072E-01	7.41885E 00	2.54551E-02	1.05624E-03	1.30391E-02	8.34799E 00	2.02051E 02	
8.60	8.57069E-01	7.51199E 00	2.76373E-02	1.02232E-03	1.10922E-02	8.44164E 00	2.03532E 02	
8.70	8.57065E-01	7.60503E 00	2.98657E-02	9.89190E-04	9.09850E-03	8.53529E 00	2.05001E 02	
8.80	8.57061E-01	7.69789E 00	3.21398E-02	9.56821E-04	7.05803E-03	8.62894E 00	2.06456E 02	
8.90	8.57057E-01	7.79036E 00	3.44585E-02	9.25189E-04	4.97079E-03	8.72261E 00	2.07900E 02	
9.00	8.57052E-01	7.88179E 00	3.68185E-02	8.94257E-04	2.83677E-03	8.81627E 00	2.09332E 02	
9.10	8.57046E-01	7.96800E 00	3.91984E-02	8.64028E-04	6.55972E-04	8.90995E 00	2.10752E 02	
9.20	8.57041E-01	8.11653E 00	4.19435E-02	8.34451E-04	-1.57161E-03	9.00363E 00	2.12159E 02	
9.30	8.57035E-01	8.17568E 00	4.42785E-02	8.05528E-04	-3.84598E-03	9.09732E 00	2.13556E 02	
9.40	8.57028E-01	8.26554E 00	4.68170E-02	7.77230E-04	-6.16716E-03	9.19102E 00	2.14942E 02	
9.50	8.57022E-01	8.35768E 00	4.94139E-02	7.49536E-04	-8.53514E-03	9.28473E 00	2.16316E 02	
9.60	8.57015E-01	8.45044E 00	5.20606E-02	7.22421E-04	-1.09499E-02	9.37844E 00	2.17679E 02	
9.70	8.57008E-01	8.54350E 00	5.47556E-02	6.95878E-04	-1.34115E-02	9.47217E 00	2.19031E 02	
9.80	8.57000E-01	8.63669E 00	5.74978E-02	6.69888E-04	-1.59200E-02	9.56589E 00	2.20373E 02	
9.90	8.56992E-01	8.72997E 00	6.02872E-02	6.44431E-04	-1.84752E-02	9.65963E 00	2.21704E 02	
10.00	8.56985E-01	8.82334E 00	6.31239E-02	6.19503E-04	-2.10773E-02	9.75339E 00	2.23025E 02	
10.10	8.56976E-01	8.91674E 00	6.60073E-02	5.95072E-04	-2.37263E-02	9.84714E 00	2.24335E 02	
10.20	8.56968E-01	9.01018E 00	6.89378E-02	5.71130E-04	-2.64221E-02	9.94091E 00	2.25635E 02	
10.30	8.56960E-01	9.10365E 00	7.19150E-02	5.47670E-04	-2.91648E-02	1.00347E 01	2.26926E 02	
10.40	8.56951E-01	9.19714E 00	7.49392E-02	5.24655E-04	-3.19543E-02	1.01285E 01	2.28206E 02	
10.50	8.56942E-01	9.29066E 00	7.80103E-02	5.02107E-04	-3.47907E-02	1.02223E 01	2.29478E 02	
10.60	8.56934E-01	9.38420E 00	8.11282E-02	4.79984E-04	-3.76740E-02	1.03161E 01	2.30739E 02	
10.70	8.56925E-01	9.47775E 00	8.42930E-02	4.58294E-04	-4.06043E-02	1.04099E 01	2.31991E 02	
10.80	8.56915E-01	9.57132E 00	8.75046E-02	4.37017E-04	-4.35814E-02	1.05037E 01	2.33235E 02	
10.90	8.56906E-01	9.66490E 00	9.07631E-02	4.16139E-04	-4.66054E-02	1.05976E 01	2.34468E 02	
11.00	8.56896E-01	9.75850E 00	9.40685E-02	3.95649E-04	-4.96764E-02	1.06914E 01	2.35693E 02	
11.10	8.56887E-01	9.85213E 00	9.74209E-02	3.75544E-04	-5.27943E-02	1.07853E 01	2.36909E 02	
11.20	8.56878E-01	9.94576E 00	1.00820E-01	3.55804E-04	-5.59592E-02	1.08792E 01	2.38116E 02	
11.30	8.56868E-01	1.00394E 01	1.04266E-01	3.36434E-04	-5.91710E-02	1.09731E 01	2.39315E 02	
11.40	8.56858E-01	1.01331E 01	1.07759E-01	3.17409E-04	-6.24298E-02	1.10670E 01	2.40506E 02	
11.50	8.56848E-01	1.02267E 01	1.11299E-01	2.98732E-04	-6.57356E-02	1.11609E 01	2.41688E 02	
11.60	8.56838E-01	1.03204E 01	1.14886E-01	2.80378E-04	-6.90884E-02	1.12548E 01	2.42861E 02	
11.70	8.56828E-01	1.04141E 01	1.18520E-01	2.62365E-04	-7.24882E-02	1.13488E 01	2.44027E 02	
11.80	8.56818E-01	1.05079E 01	1.22201E-01	2.44658E-04	-7.59350E-02	1.14427E 01	2.45184E 02	
11.90	8.56808E-01	1.06016E 01	1.25929E-01	2.27268E-04	-7.94288E-02	1.15367E 01	2.46334E 02	
12.00	8.56798E-01	1.06953E 01	1.29703E-01	2.10171E-04	-8.29697E-02	1.16306E 01	2.47475E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$  $A = 14$  $\rho = 1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	4.95140E-05	7.86471E-02	-7.22312E-05	-2.63480E 01	3.62472E-04	9.26024E-02	3.37610E-02
6.20	5.11532E-05	8.13719E-02	-6.27026E-05	-2.63817E 01	3.59927E-04	9.55620E-02	3.37802E-02
6.30	5.28190E-05	8.41424E-02	-5.23918E-05	-2.64142E 01	3.56669E-04	9.85678E-02	3.37990E-02
6.40	5.45114E-05	8.69592E-02	-4.12782E-05	-2.64456E 01	3.52676E-04	1.01620E-01	3.38175E-02
6.50	5.62304E-05	8.98217E-02	-2.93412E-05	-2.64760E 01	3.47928E-04	1.04718E-01	3.38355E-02
6.60	5.79761E-05	9.27300E-02	-1.65599E-05	-2.65055E 01	3.42403E-04	1.07863E-01	3.38532E-02
6.70	5.97484E-05	9.56839E-02	-2.91395E-06	-2.65339E 01	3.36081E-04	1.11053E-01	3.38706E-02
6.80	6.15473E-05	9.86828E-02	1.16172E-05	-2.65615E 01	3.28942E-04	1.14290E-01	3.38876E-02
6.90	6.33728E-05	1.01726E-01	2.70535E-05	-2.65882E 01	3.20964E-04	1.17573E-01	3.39042E-02
7.00	6.52249E-05	1.04814E-01	4.34150E-05	-2.66142E 01	3.12127E-04	1.20902E-01	3.39205E-02
7.10	6.71037E-05	1.07942E-01	6.07197E-05	-2.66393E 01	3.02410E-04	1.24278E-01	3.39365E-02
7.20	6.90091E-05	1.11105E-01	7.89814E-05	-2.66637E 01	2.91792E-04	1.27700E-01	3.39522E-02
7.30	7.09410E-05	1.14284E-01	9.81990E-05	-2.66874E 01	2.80252E-04	1.31168E-01	3.39676E-02
7.40	7.28996E-05	1.17314E-01	1.18215E-04	-2.67104E 01	2.67770E-04	1.34682E-01	3.39827E-02
7.50	7.48848E-05	1.21606E-01	1.40594E-04	-2.67327E 01	2.54325E-04	1.38242E-01	3.39975E-02
7.60	7.68966E-05	1.24580E-01	1.62532E-04	-2.67544E 01	2.39896E-04	1.41849E-01	3.40120E-02
7.70	7.89351E-05	1.27931E-01	1.85905E-04	-2.67756E 01	2.24463E-04	1.45501E-01	3.40262E-02
7.80	8.10001E-05	1.31368E-01	2.10417E-04	-2.67961E 01	2.08004E-04	1.49200E-01	3.40401E-02
7.90	8.30917E-05	1.34866E-01	2.36059E-04	-2.68161E 01	1.90499E-04	1.52946E-01	3.40538E-02
8.00	8.52100E-05	1.38415E-01	2.62842E-04	-2.68355E 01	1.71927E-04	1.56737E-01	3.40673E-02
8.10	8.73549E-05	1.42013E-01	2.90785E-04	-2.68545E 01	1.52267E-04	1.60575E-01	3.40805E-02
8.20	8.95264E-05	1.45659E-01	3.19907E-04	-2.68729E 01	1.31498E-04	1.64459E-01	3.40934E-02
8.30	9.17244E-05	1.49353E-01	3.50229E-04	-2.68909E 01	1.09601E-04	1.68389E-01	3.41061E-02
8.40	9.39491E-05	1.53094E-01	3.81771E-04	-2.69084E 01	8.65530E-05	1.72365E-01	3.41186E-02
8.50	9.62005E-05	1.56881E-01	4.14553E-04	-2.69255E 01	6.23345E-05	1.76388E-01	3.41308E-02
8.60	9.84784E-05	1.60716E-01	4.48597E-04	-2.69421E 01	3.69244E-05	1.80456E-01	3.41428E-02
8.70	1.00783E-04	1.64597E-01	4.83922E-04	-2.69584E 01	1.03019E-05	1.84571E-01	3.41546E-02
8.80	1.03114E-04	1.68524E-01	5.20549E-04	-2.69743E 01	-1.75537E-05	1.88732E-01	3.41662E-02
8.90	1.05472E-04	1.72498E-01	5.58499E-04	-2.69897E 01	-4.66632E-05	1.92940E-01	3.41776E-02
9.00	1.07856E-04	1.76518E-01	5.97792E-04	-2.70048E 01	-7.70474E-05	1.97193E-01	3.41888E-02
9.10	1.10267E-04	1.80584E-01	6.38451E-04	-2.70196E 01	-1.08727E-04	2.01493E-01	3.41998E-02
9.20	1.12705E-04	1.84698E-01	6.80496E-04	-2.70340E 01	-1.41723E-04	2.05839E-01	3.42106E-02
9.30	1.15169E-04	1.88857E-01	7.23945E-04	-2.70481E 01	-1.76056E-04	2.10231E-01	3.42212E-02
9.40	1.17660E-04	1.93062E-01	7.68822E-04	-2.70619E 01	-2.11746E-04	2.14670E-01	3.42317E-02
9.50	1.20177E-04	1.97314E-01	8.15146E-04	-2.70754E 01	-2.48816E-04	2.19155E-01	3.42419E-02
9.60	1.22721E-04	2.01612E-01	8.62939E-04	-2.70885E 01	-2.87284E-04	2.23685E-01	3.42520E-02
9.70	1.25291E-04	2.05956E-01	9.12221E-04	-2.71014E 01	-3.27173E-04	2.28262E-01	3.42619E-02
9.80	1.27889E-04	2.10347E-01	9.63013E-04	-2.71140E 01	-3.68502E-04	2.32886E-01	3.42717E-02
9.90	1.30512E-04	2.14784E-01	1.01533E-03	-2.71263E 01	-4.11293E-04	2.37555E-01	3.42813E-02
10.00	1.33163E-04	2.19267E-01	1.06921E-03	-2.71384E 01	-4.55567E-04	2.42271E-01	3.42907E-02
10.10	1.35840E-04	2.23797E-01	1.12466E-03	-2.71502E 01	-5.01343E-04	2.47033E-01	3.43000E-02
10.20	1.38543E-04	2.28372E-01	1.18169E-03	-2.71618E 01	-5.48644E-04	2.51841E-01	3.43092E-02
10.30	1.41274E-04	2.32994E-01	1.24035E-03	-2.71731E 01	-5.97489E-04	2.56695E-01	3.43182E-02
10.40	1.44030E-04	2.37662E-01	1.30063E-03	-2.71842E 01	-6.47900E-04	2.61596E-01	3.43270E-02
10.50	1.46814E-04	2.42377E-01	1.36258E-03	-2.71951E 01	-6.99897E-04	2.66543E-01	3.43357E-02
10.60	1.49624E-04	2.47137E-01	1.42620E-03	-2.72057E 01	-7.53501E-04	2.71536E-01	3.43443E-02
10.70	1.52460E-04	2.51944E-01	1.49151E-03	-2.72162E 01	-8.08732E-04	2.76575E-01	3.43527E-02
10.80	1.55324E-04	2.56797E-01	1.55854E-03	-2.72264E 01	-8.65613E-04	2.81660E-01	3.43610E-02
10.90	1.58213E-04	2.61697E-01	1.62732E-03	-2.72365E 01	-9.24163E-04	2.86792E-01	3.43692E-02
11.00	1.61130E-04	2.66642E-01	1.69785E-03	-2.72463E 01	-9.84402E-04	2.91969E-01	3.43772E-02
11.10	1.64073E-04	2.71634E-01	1.77016E-03	-2.72560E 01	-1.04635E-03	2.97193E-01	3.43852E-02
11.20	1.67042E-04	2.76672E-01	1.84427E-03	-2.72655E 01	-1.11004E-03	3.02463E-01	3.43930E-02
11.30	1.70039E-04	2.81756E-01	1.92020E-03	-2.72748E 01	-1.17547E-03	3.07780E-01	3.44007E-02
11.40	1.73061E-04	2.86887E-01	1.99798E-03	-2.72839E 01	-1.24268E-03	3.13142E-01	3.44083E-02
11.50	1.76111E-04	2.92063E-01	2.07761E-03	-2.72929E 01	-1.31168E-03	3.18551E-01	3.44157E-02
11.60	1.79187E-04	2.97286E-01	2.15914E-03	-2.73017E 01	-1.38250E-03	3.24006E-01	3.44231E-02
11.70	1.82289E-04	3.02555E-01	2.24256E-03	-2.73103E 01	-1.45515E-03	3.29507E-01	3.44304E-02
11.80	1.85418E-04	3.07870E-01	2.32791E-03	-2.73188E 01	-1.52966E-03	3.35054E-01	3.44375E-02
11.90	1.88574E-04	3.13232E-01	2.41521E-03	-2.73271E 01	-1.60604E-03	3.40648E-01	3.44445E-02
12.00	1.91757E-04	3.18640E-01	2.50447E-03	-2.73353E 01	-1.68432E-03	3.46287E-01	3.44515E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=7$		$A=14$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	8.56787E-01	1.07891E 01	1.33526E-01	1.93380E-04	-8.65577E-02	1.17246E 01	2.48610E 02	
12.20	8.56777E-01	1.08829E 01	1.37394E-01	1.76872E-04	-9.01927E-02	1.18186E 01	2.49736E 02	
12.30	8.56766E-01	1.09767E 01	1.41310E-01	1.60649E-04	-9.38748E-02	1.19127E 01	2.50855E 02	
12.40	8.56756E-01	1.10704E 01	1.45273E-01	1.44695E-04	-9.76039E-02	1.20067E 01	2.51967E 02	
12.50	8.56745E-01	1.11643E 01	1.49283E-01	1.29006E-04	-1.01380E-01	1.21007E 01	2.53071E 02	
12.60	8.56734E-01	1.12581E 01	1.53340E-01	1.13582E-04	-1.05203E-01	1.21948E 01	2.54168E 02	
12.70	8.56724E-01	1.13519E 01	1.57444E-01	9.84164E-05	-1.09074E-01	1.22889E 01	2.55259E 02	
12.80	8.56713E-01	1.14458E 01	1.61595E-01	8.35013E-05	-1.12992E-01	1.23829E 01	2.56342E 02	
12.90	8.56703E-01	1.15396E 01	1.65793E-01	6.88287E-05	-1.16956E-01	1.24770E 01	2.57418E 02	
13.00	8.56693E-01	1.16335E 01	1.70039E-01	5.43944E-05	-1.20968E-01	1.25711E 01	2.58488E 02	
13.10	8.56682E-01	1.17274E 01	1.74331E-01	4.01917E-05	-1.25027E-01	1.26653E 01	2.59551E 02	
13.20	8.56671E-01	1.18213E 01	1.78671E-01	2.62186E-05	-1.29134E-01	1.27594E 01	2.60607E 02	
13.30	8.56661E-01	1.19153E 01	1.83058E-01	1.24678E-05	-1.33287E-01	1.28536E 01	2.61657E 02	
13.40	8.56650E-01	1.20092E 01	1.87492E-01	-1.06706E-06	-1.37488E-01	1.29477E 01	2.62700E 02	
13.50	8.56639E-01	1.21032E 01	1.91973E-01	-1.43871E-05	-1.41736E-01	1.30419E 01	2.63737E 02	
13.60	8.56628E-01	1.21971E 01	1.96501E-01	-2.74913E-05	-1.46031E-01	1.31361E 01	2.64768E 02	
13.70	8.56618E-01	1.22911E 01	2.01077E-01	-4.03964E-05	-1.50373E-01	1.32304E 01	2.65793E 02	
13.80	8.56607E-01	1.23851E 01	2.05700E-01	-5.30938E-05	-1.54763E-01	1.33246E 01	2.66812E 02	
13.90	8.56596E-01	1.24791E 01	2.10370E-01	-6.56129E-05	-1.59200E-01	1.34188E 01	2.67824E 02	
14.00	8.56586E-01	1.25732E 01	2.15087E-01	-7.79233E-05	-1.63684E-01	1.35131E 01	2.68831E 02	
14.10	8.56575E-01	1.26672E 01	2.19852E-01	-9.00592E-05	-1.68216E-01	1.36074E 01	2.69831E 02	
14.20	8.56564E-01	1.27613E 01	2.24663E-01	-1.01993E-04	-1.72795E-01	1.37017E 01	2.70827E 02	
14.30	8.56554E-01	1.28554E 01	2.29523E-01	-1.13759E-04	-1.77421E-01	1.37960E 01	2.71817E 02	
14.40	8.56543E-01	1.29495E 01	2.34429E-01	-1.25348E-04	-1.82095E-01	1.38903E 01	2.72800E 02	
14.50	8.56532E-01	1.30436E 01	2.39383E-01	-1.36764E-04	-1.86816E-01	1.39846E 01	2.73778E 02	
14.60	8.56521E-01	1.31377E 01	2.44384E-01	-1.47999E-04	-1.91584E-01	1.40790E 01	2.74752E 02	
14.70	8.56511E-01	1.32318E 01	2.49433E-01	-1.59078E-04	-1.96400E-01	1.41734E 01	2.75720E 02	
14.80	8.56500E-01	1.33260E 01	2.54528E-01	-1.69995E-04	-2.01263E-01	1.42678E 01	2.76682E 02	
14.90	8.56489E-01	1.34202E 01	2.59672E-01	-1.80745E-04	-2.06174E-01	1.43622E 01	2.77639E 02	
15.00	8.56479E-01	1.35144E 01	2.64862E-01	-1.91344E-04	-2.11132E-01	1.44566E 01	2.78591E 02	
15.10	8.56468E-01	1.36086E 01	2.70100E-01	-2.01788E-04	-2.16138E-01	1.45510E 01	2.79538E 02	
15.20	8.56457E-01	1.37028E 01	2.75386E-01	-2.12082E-04	-2.21191E-01	1.46455E 01	2.80479E 02	
15.30	8.56447E-01	1.37970E 01	2.80719E-01	-2.22219E-04	-2.26291E-01	1.47400E 01	2.81417E 02	
15.40	8.56436E-01	1.38913E 01	2.86100E-01	-2.32215E-04	-2.31440E-01	1.48345E 01	2.82349E 02	
15.50	8.56426E-01	1.39855E 01	2.91527E-01	-2.42074E-04	-2.36635E-01	1.49290E 01	2.83276E 02	
15.60	8.56415E-01	1.40798E 01	2.97003E-01	-2.51785E-04	-2.41878E-01	1.50235E 01	2.84199E 02	
15.70	8.56404E-01	1.41741E 01	3.02526E-01	-2.61367E-04	-2.47169E-01	1.51181E 01	2.85117E 02	
15.80	8.56394E-01	1.42685E 01	3.08096E-01	-2.70806E-04	-2.52508E-01	1.52126E 01	2.86030E 02	
15.90	8.56384E-01	1.43628E 01	3.13714E-01	-2.80121E-04	-2.57894E-01	1.53072E 01	2.86939E 02	
16.00	8.56373E-01	1.44571E 01	3.19380E-01	-2.89299E-04	-2.63327E-01	1.54018E 01	2.87843E 02	
16.10	8.56363E-01	1.45515E 01	3.25093E-01	-2.98351E-04	-2.68808E-01	1.54964E 01	2.88743E 02	
16.20	8.56353E-01	1.46459E 01	3.30854E-01	-3.07272E-04	-2.74337E-01	1.55910E 01	2.89639E 02	
16.30	8.56342E-01	1.47403E 01	3.36663E-01	-3.16082E-04	-2.79914E-01	1.56857E 01	2.90529E 02	
16.40	8.56332E-01	1.48347E 01	3.42519E-01	-3.24759E-04	-2.85538E-01	1.57804E 01	2.91417E 02	
16.50	8.56321E-01	1.49292E 01	3.48422E-01	-3.33324E-04	-2.91210E-01	1.58751E 01	2.92300E 02	
16.60	8.56311E-01	1.50236E 01	3.54374E-01	-3.41766E-04	-2.96930E-01	1.59698E 01	2.93179E 02	
16.70	8.56301E-01	1.51181E 01	3.60373E-01	-3.50099E-04	-3.02697E-01	1.60645E 01	2.94053E 02	
16.80	8.56291E-01	1.52126E 01	3.66420E-01	-3.58308E-04	-3.08512E-01	1.61592E 01	2.94924E 02	
16.90	8.56280E-01	1.53071E 01	3.72514E-01	-3.66419E-04	-3.14375E-01	1.62540E 01	2.95791E 02	
17.00	8.56270E-01	1.54016E 01	3.78657E-01	-3.74413E-04	-3.20286E-01	1.63488E 01	2.96654E 02	
17.10	8.56260E-01	1.54962E 01	3.84847E-01	-3.82301E-04	-3.26244E-01	1.64436E 01	2.97513E 02	
17.20	8.56250E-01	1.55908E 01	3.91084E-01	-3.90096E-04	-3.32251E-01	1.65384E 01	2.98367E 02	
17.30	8.56239E-01	1.56853E 01	3.97370E-01	-3.97765E-04	-3.38305E-01	1.66332E 01	2.99219E 02	
17.40	8.56229E-01	1.57799E 01	4.03703E-01	-4.05350E-04	-3.44407E-01	1.67281E 01	3.00066E 02	
17.50	8.56219E-01	1.58746E 01	4.10085E-01	-4.12825E-04	-3.50557E-01	1.68230E 01	3.00910E 02	
17.60	8.56209E-01	1.59692E 01	4.16514E-01	-4.20199E-04	-3.56755E-01	1.69179E 01	3.01751E 02	
17.70	8.56199E-01	1.60639E 01	4.22991E-01	-4.27487E-04	-3.63001E-01	1.70128E 01	3.02587E 02	
17.80	8.56189E-01	1.61585E 01	4.29516E-01	-4.34658E-04	-3.69294E-01	1.71077E 01	3.03422E 02	
17.90	8.56179E-01	1.62532E 01	4.36089E-01	-4.41747E-04	-3.75636E-01	1.72027E 01	3.04252E 02	
18.00	8.56169E-01	1.63479E 01	4.42709E-01	-4.48749E-04	-3.82026E-01	1.72977E 01	3.05079E 02	

## ELECTRON RADIAL FUNCTIONS

$$Z = 7 \quad A = 14 \quad \rho = 1.2 A^{1/3} F$$

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	1.94966E-04	3.24094E-01	2.59573E-03	-2.73434E 01	-1.76453E-03	3.51973E-01	3.44583E-02
12.20	1.98201E-04	3.29594E-01	2.68899E-03	-2.73513E 01	-1.84667E-03	3.57705E-01	3.44651E-02
12.30	2.01463E-04	3.35140E-01	2.78428E-03	-2.73591E 01	-1.93077E-03	3.63484E-01	3.44717E-02
12.40	2.04752E-04	3.40733E-01	2.88162E-03	-2.73667E 01	-2.01685E-03	3.69308E-01	3.44783E-02
12.50	2.08067E-04	3.46371E-01	2.98103E-03	-2.73742E 01	-2.10493E-03	3.75179E-01	3.44848E-02
12.60	2.11409E-04	3.52056E-01	3.08253E-03	-2.73816E 01	-2.19504E-03	3.81095E-01	3.44912E-02
12.70	2.14778E-04	3.57787E-01	3.18614E-03	-2.73889E 01	-2.28719E-03	3.87058E-01	3.44974E-02
12.80	2.18173E-04	3.63564E-01	3.29189E-03	-2.73960E 01	-2.38140E-03	3.93067E-01	3.45037E-02
12.90	2.21595E-04	3.69388E-01	3.39979E-03	-2.74030E 01	-2.47770E-03	3.99123E-01	3.45098E-02
13.00	2.25043E-04	3.75257E-01	3.50987E-03	-2.74100E 01	-2.57610E-03	4.05224E-01	3.45158E-02
13.10	2.28518E-04	3.81173E-01	3.62214E-03	-2.74168E 01	-2.67663E-03	4.11372E-01	3.45218E-02
13.20	2.32020E-04	3.87135E-01	3.73662E-03	-2.74234E 01	-2.77930E-03	4.17566E-01	3.45277E-02
13.30	2.35548E-04	3.93143E-01	3.85334E-03	-2.74300E 01	-2.88415E-03	4.23806E-01	3.45335E-02
13.40	2.39102E-04	3.99198E-01	3.97232E-03	-2.74365E 01	-2.99118E-03	4.30092E-01	3.45392E-02
13.50	2.42684E-04	4.05298E-01	4.09358E-03	-2.74429E 01	-3.10042E-03	4.36424E-01	3.45449E-02
13.60	2.46291E-04	4.11445E-01	4.21714E-03	-2.74492E 01	-3.21189E-03	4.42802E-01	3.45505E-02
13.70	2.49926E-04	4.17638E-01	4.34301E-03	-2.74554E 01	-3.32561E-03	4.49227E-01	3.45560E-02
13.80	2.53587E-04	4.23877E-01	4.47123E-03	-2.74615E 01	-3.44160E-03	4.55698E-01	3.45614E-02
13.90	2.57275E-04	4.30162E-01	4.60181E-03	-2.74675E 01	-3.55989E-03	4.62214E-01	3.45668E-02
14.00	2.60989E-04	4.36493E-01	4.73477E-03	-2.74734E 01	-3.68048E-03	4.68778E-01	3.45721E-02
14.10	2.64730E-04	4.42870E-01	4.87013E-03	-2.74792E 01	-3.80342E-03	4.75387E-01	3.45773E-02
14.20	2.68497E-04	4.49294E-01	5.00791E-03	-2.74850E 01	-3.92870E-03	4.82042E-01	3.45825E-02
14.30	2.72291E-04	4.55764E-01	5.14814E-03	-2.74906E 01	-4.05636E-03	4.88744E-01	3.45876E-02
14.40	2.76112E-04	4.62280E-01	5.29084E-03	-2.74962E 01	-4.18642E-03	4.95491E-01	3.45927E-02
14.50	2.79959E-04	4.68842E-01	5.43602E-03	-2.75017E 01	-4.31889E-03	5.02285E-01	3.45977E-02
14.60	2.83833E-04	4.75450E-01	5.58371E-03	-2.75071E 01	-4.45380E-03	5.09125E-01	3.46026E-02
14.70	2.87733E-04	4.82105E-01	5.73392E-03	-2.75124E 01	-4.59117E-03	5.16011E-01	3.46074E-02
14.80	2.91660E-04	4.88805E-01	5.88668E-03	-2.75177E 01	-4.73102E-03	5.22943E-01	3.46123E-02
14.90	2.95613E-04	4.95552E-01	6.04201E-03	-2.75229E 01	-4.87336E-03	5.29922E-01	3.46170E-02
15.00	2.99594E-04	5.02345E-01	6.19993E-03	-2.75280E 01	-5.01823E-03	5.36946E-01	3.46217E-02
15.10	3.03600E-04	5.09184E-01	6.36047E-03	-2.75330E 01	-5.16564E-03	5.44017E-01	3.46263E-02
15.20	3.07634E-04	5.16069E-01	6.52363E-03	-2.75380E 01	-5.31561E-03	5.51133E-01	3.46309E-02
15.30	3.11694E-04	5.23000E-01	6.68944E-03	-2.75429E 01	-5.46816E-03	5.58296E-01	3.46355E-02
15.40	3.15780E-04	5.29977E-01	6.85792E-03	-2.75477E 01	-5.62332E-03	5.65505E-01	3.46399E-02
15.50	3.19893E-04	5.37001E-01	7.02910E-03	-2.75525E 01	-5.78110E-03	5.72760E-01	3.46444E-02
15.60	3.24033E-04	5.44070E-01	7.20300E-03	-2.75572E 01	-5.94152E-03	5.80061E-01	3.46487E-02
15.70	3.28199E-04	5.51186E-01	7.37962E-03	-2.75619E 01	-6.10461E-03	5.87409E-01	3.46531E-02
15.80	3.32392E-04	5.58348E-01	7.55901E-03	-2.75664E 01	-6.27039E-03	5.94802E-01	3.46573E-02
15.90	3.36611E-04	5.65556E-01	7.74117E-03	-2.75710E 01	-6.43888E-03	6.02242E-01	3.46616E-02
16.00	3.40857E-04	5.72810E-01	7.92612E-03	-2.75754E 01	-6.61009E-03	6.09727E-01	3.46657E-02
16.10	3.45130E-04	5.80110E-01	8.11389E-03	-2.75798E 01	-6.78405E-03	6.17259E-01	3.46699E-02
16.20	3.49429E-04	5.87457E-01	8.30450E-03	-2.75842E 01	-6.96078E-03	6.24837E-01	3.46740E-02
16.30	3.53755E-04	5.94849E-01	8.49797E-03	-2.75885E 01	-7.14029E-03	6.32461E-01	3.46780E-02
16.40	3.58107E-04	6.02288E-01	8.69432E-03	-2.75927E 01	-7.32262E-03	6.40131E-01	3.46820E-02
16.50	3.62486E-04	6.09772E-01	8.89357E-03	-2.75969E 01	-7.50778E-03	6.47847E-01	3.46860E-02
16.60	3.66892E-04	6.17303E-01	9.09573E-03	-2.76010E 01	-7.69580E-03	6.55609E-01	3.46899E-02
16.70	3.71324E-04	6.24880E-01	9.30085E-03	-2.76051E 01	-7.88668E-03	6.63417E-01	3.46937E-02
16.80	3.75782E-04	6.32503E-01	9.50892E-03	-2.76092E 01	-8.08046E-03	6.71272E-01	3.46976E-02
16.90	3.80268E-04	6.40171E-01	9.71998E-03	-2.76131E 01	-8.27715E-03	6.79172E-01	3.47013E-02
17.00	3.84780E-04	6.47886E-01	9.93404E-03	-2.76171E 01	-8.47678E-03	6.87119E-01	3.47051E-02
17.10	3.89318E-04	6.55648E-01	1.01511E-02	-2.76209E 01	-8.67936E-03	6.95111E-01	3.47088E-02
17.20	3.93883E-04	6.63455E-01	1.03713E-02	-2.76248E 01	-8.88492E-03	7.03150E-01	3.47125E-02
17.30	3.98475E-04	6.71308E-01	1.05944E-02	-2.76286E 01	-9.09348E-03	7.11235E-01	3.47161E-02
17.40	4.03093E-04	6.79208E-01	1.08207E-02	-2.76323E 01	-9.30506E-03	7.19365E-01	3.47197E-02
17.50	4.07737E-04	6.87153E-01	1.10501E-02	-2.76360E 01	-9.51967E-03	7.27542E-01	3.47232E-02
17.60	4.12409E-04	6.95145E-01	1.12826E-02	-2.76397E 01	-9.73734E-03	7.35765E-01	3.47268E-02
17.70	4.17107E-04	7.03182E-01	1.15183E-02	-2.76433E 01	-9.95809E-03	7.44034E-01	3.47302E-02
17.80	4.21831E-04	7.11266E-01	1.17572E-02	-2.76469E 01	-1.01819E-02	7.52349E-01	3.47337E-02
17.90	4.26582E-04	7.19396E-01	1.19992E-02	-2.76504E 01	-1.04089E-02	7.60710E-01	3.47371E-02
18.00	4.31360E-04	7.27571E-01	1.22444E-02	-2.76539E 01	-1.06390E-02	7.69117E-01	3.47405E-02



ELECTRON RADIAL FUNCTIONS

Positron	$Z=7$		$A=14$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	8.56159E-01	1.64427E 01	4.49378E-01	-4.55656E-04	-3.88464E-01	1.73927E 01	3.05902E 02	02
18.20	8.56149E-01	1.65374E 01	4.56095E-01	-4.62464E-04	-3.94949E-01	1.74877E 01	3.06723E 02	02
18.30	8.56139E-01	1.66322E 01	4.62860E-01	-4.69203E-04	-4.01483E-01	1.75827E 01	3.07538E 02	02
18.40	8.56130E-01	1.67270E 01	4.69672E-01	-4.75837E-04	-4.08065E-01	1.76778E 01	3.08352E 02	02
18.50	8.56120E-01	1.68218E 01	4.76533E-01	-4.82387E-04	-4.14695E-01	1.77728E 01	3.09163E 02	02
18.60	8.56110E-01	1.69166E 01	4.83442E-01	-4.88856E-04	-4.21373E-01	1.78679E 01	3.09971E 02	02
18.70	8.56101E-01	1.70115E 01	4.90399E-01	-4.95239E-04	-4.28099E-01	1.79631E 01	3.10775E 02	02
18.80	8.56091E-01	1.71063E 01	4.97403E-01	-5.01551E-04	-4.34873E-01	1.80582E 01	3.11576E 02	02
18.90	8.56081E-01	1.72012E 01	5.04456E-01	-5.07769E-04	-4.41696E-01	1.81533E 01	3.12375E 02	02
19.00	8.56072E-01	1.72961E 01	5.11558E-01	-5.13912E-04	-4.48567E-01	1.82485E 01	3.13170E 02	02
19.10	8.56062E-01	1.73911E 01	5.18707E-01	-5.19978E-04	-4.55485E-01	1.83437E 01	3.13963E 02	02
19.20	8.56052E-01	1.74860E 01	5.25904E-01	-5.25962E-04	-4.62452E-01	1.84390E 01	3.14753E 02	02
19.30	8.56043E-01	1.75810E 01	5.33150E-01	-5.31878E-04	-4.69468E-01	1.85342E 01	3.15539E 02	02
19.40	8.56033E-01	1.76760E 01	5.40444E-01	-5.37712E-04	-4.76531E-01	1.86295E 01	3.16323E 02	02
19.50	8.56024E-01	1.77710E 01	5.47786E-01	-5.43472E-04	-4.83643E-01	1.87247E 01	3.17105E 02	02
19.60	8.56014E-01	1.78660E 01	5.55176E-01	-5.49159E-04	-4.90803E-01	1.88200E 01	3.17884E 02	02
19.70	8.56005E-01	1.79610E 01	5.62614E-01	-5.54775E-04	-4.98012E-01	1.89154E 01	3.18660E 02	02
19.80	8.55995E-01	1.80561E 01	5.70101E-01	-5.60326E-04	-5.05268E-01	1.90107E 01	3.19433E 02	02
19.90	8.55986E-01	1.81512E 01	5.77636E-01	-5.65802E-04	-5.12574E-01	1.91061E 01	3.20204E 02	02
20.00	8.55976E-01	1.82463E 01	5.85220E-01	-5.71200E-04	-5.19927E-01	1.92015E 01	3.20974E 02	02
20.10	8.55967E-01	1.83414E 01	5.92852E-01	-5.76544E-04	-5.27329E-01	1.92969E 01	3.21739E 02	02
20.20	8.55958E-01	1.84366E 01	6.00532E-01	-5.81814E-04	-5.34780E-01	1.93923E 01	3.22503E 02	02
20.30	8.55948E-01	1.85318E 01	6.08261E-01	-5.87017E-04	-5.42279E-01	1.94878E 01	3.23264E 02	02
20.40	8.55939E-01	1.86270E 01	6.16038E-01	-5.92159E-04	-5.49826E-01	1.95833E 01	3.24023E 02	02
20.50	8.55930E-01	1.87222E 01	6.23863E-01	-5.97228E-04	-5.57422E-01	1.96788E 01	3.24780E 02	02
20.60	8.55921E-01	1.88174E 01	6.31737E-01	-6.02243E-04	-5.65066E-01	1.97743E 01	3.25534E 02	02
20.70	8.55911E-01	1.89127E 01	6.39660E-01	-6.07195E-04	-5.72759E-01	1.98698E 01	3.26285E 02	02
20.80	8.55902E-01	1.90079E 01	6.47631E-01	-6.12084E-04	-5.80501E-01	1.99654E 01	3.27035E 02	02
20.90	8.55893E-01	1.91033E 01	6.55650E-01	-6.16906E-04	-5.88291E-01	2.00610E 01	3.27783E 02	02
21.00	8.55884E-01	1.91986E 01	6.63718E-01	-6.21670E-04	-5.96130E-01	2.01566E 01	3.28529E 02	02
21.10	8.55875E-01	1.92939E 01	6.71835E-01	-6.26381E-04	-6.04017E-01	2.02523E 01	3.29271E 02	02
21.20	8.55866E-01	1.93893E 01	6.80000E-01	-6.31025E-04	-6.11953E-01	2.03479E 01	3.30013E 02	02
21.30	8.55857E-01	1.94847E 01	6.88214E-01	-6.35616E-04	-6.19938E-01	2.04436E 01	3.30752E 02	02
21.40	8.55848E-01	1.95801E 01	6.96476E-01	-6.40147E-04	-6.27971E-01	2.05393E 01	3.31489E 02	02
21.50	8.55839E-01	1.96755E 01	7.04787E-01	-6.44620E-04	-6.36054E-01	2.06350E 01	3.32225E 02	02
21.60	8.55830E-01	1.97710E 01	7.13147E-01	-6.49046E-04	-6.44185E-01	2.07308E 01	3.32958E 02	02
21.70	8.55821E-01	1.98664E 01	7.21556E-01	-6.53409E-04	-6.52364E-01	2.08266E 01	3.33689E 02	02
21.80	8.55812E-01	1.99619E 01	7.30013E-01	-6.57721E-04	-6.60593E-01	2.09224E 01	3.34418E 02	02
21.90	8.55803E-01	2.00575E 01	7.38519E-01	-6.61971E-04	-6.68870E-01	2.10182E 01	3.35147E 02	02
22.00	8.55795E-01	2.01530E 01	7.47074E-01	-6.66180E-04	-6.77196E-01	2.11140E 01	3.35872E 02	02
22.10	8.55786E-01	2.02486E 01	7.55678E-01	-6.70327E-04	-6.85571E-01	2.12099E 01	3.36597E 02	02
22.20	8.55777E-01	2.03442E 01	7.64330E-01	-6.74420E-04	-6.93995E-01	2.13058E 01	3.37320E 02	02
22.30	8.55768E-01	2.04398E 01	7.73032E-01	-6.78471E-04	-7.02468E-01	2.14017E 01	3.38040E 02	02
22.40	8.55760E-01	2.05354E 01	7.81782E-01	-6.82471E-04	-7.10990E-01	2.14977E 01	3.38759E 02	02
22.50	8.55751E-01	2.06311E 01	7.90581E-01	-6.86420E-04	-7.19561E-01	2.15936E 01	3.39476E 02	02
22.60	8.55743E-01	2.07267E 01	7.99429E-01	-6.90318E-04	-7.28181E-01	2.16896E 01	3.40191E 02	02
22.70	8.55734E-01	2.08224E 01	8.08326E-01	-6.94173E-04	-7.36850E-01	2.17857E 01	3.40905E 02	02
22.80	8.55725E-01	2.09182E 01	8.17272E-01	-6.97967E-04	-7.45568E-01	2.18817E 01	3.41618E 02	02
22.90	8.55717E-01	2.10139E 01	8.26267E-01	-7.01715E-04	-7.54335E-01	2.19778E 01	3.42330E 02	02
23.00	8.55708E-01	2.11097E 01	8.35311E-01	-7.05432E-04	-7.63151E-01	2.20738E 01	3.43038E 02	02
23.10	8.55700E-01	2.12055E 01	8.44404E-01	-7.09087E-04	-7.72016E-01	2.21700E 01	3.43747E 02	02
23.20	8.55691E-01	2.13013E 01	8.53546E-01	-7.12700E-04	-7.80931E-01	2.22661E 01	3.44453E 02	02
23.30	8.55683E-01	2.13971E 01	8.62737E-01	-7.16273E-04	-7.89894E-01	2.23623E 01	3.45158E 02	02
23.40	8.55674E-01	2.14930E 01	8.71978E-01	-7.19792E-04	-7.98907E-01	2.24585E 01	3.45862E 02	02
23.50	8.55666E-01	2.15889E 01	8.81268E-01	-7.23269E-04	-8.07969E-01	2.25547E 01	3.46565E 02	02
23.60	8.55658E-01	2.16848E 01	8.90606E-01	-7.26712E-04	-8.17080E-01	2.26509E 01	3.47265E 02	02
23.70	8.55649E-01	2.17808E 01	8.99994E-01	-7.30102E-04	-8.26241E-01	2.27472E 01	3.47965E 02	02
23.80	8.55641E-01	2.18767E 01	9.09431E-01	-7.33453E-04	-8.35450E-01	2.28435E 01	3.48663E 02	02
23.90	8.55633E-01	2.19727E 01	9.18917E-01	-7.36757E-04	-8.44709E-01	2.29398E 01	3.49360E 02	02
24.00	8.55624E-01	2.20687E 01	9.28453E-01	-7.40017E-04	-8.54018E-01	2.30361E 01	3.50057E 02	02

## ELECTRON RADIAL FUNCTIONS

$$Z = 7 \quad A = 14 \quad \rho = 1.2 A^{1/3} F$$

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	4.36165E-04	7.35793E-01	1.24929E-02	-2.76573E 01	-1.08723E-02	7.77571E-01	3.47438E-02
18.20	4.40996E-04	7.44062E-01	1.27446E-02	-2.76607E 01	-1.11088E-02	7.86070E-01	3.47471E-02
18.30	4.45853E-04	7.52376E-01	1.29996E-02	-2.76641E 01	-1.13485E-02	7.94616E-01	3.47504E-02
18.40	4.50737E-04	7.60736E-01	1.32579E-02	-2.76674E 01	-1.15914E-02	8.03207E-01	3.47536E-02
18.50	4.55648E-04	7.69142E-01	1.35195E-02	-2.76707E 01	-1.18375E-02	8.11844E-01	3.47568E-02
18.60	4.60585E-04	7.77593E-01	1.37845E-02	-2.76740E 01	-1.20869E-02	8.20528E-01	3.47600E-02
18.70	4.65549E-04	7.86092E-01	1.40528E-02	-2.76772E 01	-1.23396E-02	8.29257E-01	3.47632E-02
18.80	4.70539E-04	7.94636E-01	1.43244E-02	-2.76804E 01	-1.25956E-02	8.38032E-01	3.47663E-02
18.90	4.75556E-04	8.03226E-01	1.45995E-02	-2.76835E 01	-1.28549E-02	8.46854E-01	3.47694E-02
19.00	4.80599E-04	8.11862E-01	1.48780E-02	-2.76867E 01	-1.31176E-02	8.55721E-01	3.47724E-02
19.10	4.85669E-04	8.20544E-01	1.51599E-02	-2.76897E 01	-1.33836E-02	8.64635E-01	3.47754E-02
19.20	4.90766E-04	8.29272E-01	1.54453E-02	-2.76928E 01	-1.36531E-02	8.73594E-01	3.47784E-02
19.30	4.95889E-04	8.38046E-01	1.57342E-02	-2.76958E 01	-1.39259E-02	8.82600E-01	3.47814E-02
19.40	5.01039E-04	8.46867E-01	1.60265E-02	-2.76988E 01	-1.42022E-02	8.91651E-01	3.47844E-02
19.50	5.06215E-04	8.55733E-01	1.63224E-02	-2.77017E 01	-1.44819E-02	9.00748E-01	3.47873E-02
19.60	5.11418E-04	8.64645E-01	1.66218E-02	-2.77047E 01	-1.47651E-02	9.09892E-01	3.47902E-02
19.70	5.16648E-04	8.73603E-01	1.69248E-02	-2.77075E 01	-1.50518E-02	9.19081E-01	3.47930E-02
19.80	5.21904E-04	8.82607E-01	1.72314E-02	-2.77104E 01	-1.53420E-02	9.28316E-01	3.47959E-02
19.90	5.27187E-04	8.91658E-01	1.75416E-02	-2.77132E 01	-1.56358E-02	9.37598E-01	3.47987E-02
20.00	5.32496E-04	9.00753E-01	1.78554E-02	-2.77160E 01	-1.59331E-02	9.46925E-01	3.48014E-02
20.10	5.37832E-04	9.09896E-01	1.81728E-02	-2.77188E 01	-1.62340E-02	9.56299E-01	3.48042E-02
20.20	5.43194E-04	9.19084E-01	1.84939E-02	-2.77215E 01	-1.65384E-02	9.65718E-01	3.48069E-02
20.30	5.48583E-04	9.28318E-01	1.88187E-02	-2.77243E 01	-1.68465E-02	9.75183E-01	3.48096E-02
20.40	5.53999E-04	9.37598E-01	1.91473E-02	-2.77269E 01	-1.71583E-02	9.84694E-01	3.48123E-02
20.50	5.59441E-04	9.46924E-01	1.94795E-02	-2.77296E 01	-1.74736E-02	9.94251E-01	3.48150E-02
20.60	5.64910E-04	9.56296E-01	1.98155E-02	-2.77322E 01	-1.77927E-02	1.00385E 00	3.48176E-02
20.70	5.70405E-04	9.65714E-01	2.01552E-02	-2.77348E 01	-1.81155E-02	1.01350E 00	3.48202E-02
20.80	5.75927E-04	9.75178E-01	2.04988E-02	-2.77374E 01	-1.84420E-02	1.02320E 00	3.48228E-02
20.90	5.81475E-04	9.84688E-01	2.08461E-02	-2.77400E 01	-1.87722E-02	1.03294E 00	3.48254E-02
21.00	5.87051E-04	9.94243E-01	2.11973E-02	-2.77425E 01	-1.91062E-02	1.04273E 00	3.48279E-02
21.10	5.92652E-04	1.00384E 00	2.15523E-02	-2.77450E 01	-1.94440E-02	1.05256E 00	3.48304E-02
21.20	5.98280E-04	1.01349E 00	2.19112E-02	-2.77475E 01	-1.97856E-02	1.06244E 00	3.48329E-02
21.30	6.03935E-04	1.02319E 00	2.22740E-02	-2.77499E 01	-2.01310E-02	1.07236E 00	3.48354E-02
21.40	6.09616E-04	1.03293E 00	2.26408E-02	-2.77524E 01	-2.04802E-02	1.08233E 00	3.48378E-02
21.50	6.15324E-04	1.04271E 00	2.30114E-02	-2.77548E 01	-2.08333E-02	1.09235E 00	3.48403E-02
21.60	6.21059E-04	1.05254E 00	2.33860E-02	-2.77572E 01	-2.11903E-02	1.10241E 00	3.48427E-02
21.70	6.26820E-04	1.06242E 00	2.37646E-02	-2.77595E 01	-2.15513E-02	1.11252E 00	3.48451E-02
21.80	6.32608E-04	1.07234E 00	2.41472E-02	-2.77619E 01	-2.19161E-02	1.12267E 00	3.48474E-02
21.90	6.38422E-04	1.08231E 00	2.45338E-02	-2.77642E 01	-2.22849E-02	1.13288E 00	3.48498E-02
22.00	6.44263E-04	1.09233E 00	2.49244E-02	-2.77665E 01	-2.26576E-02	1.14312E 00	3.48521E-02
22.10	6.50130E-04	1.10239E 00	2.53191E-02	-2.77688E 01	-2.30344E-02	1.15341E 00	3.48544E-02
22.20	6.56024E-04	1.11249E 00	2.57179E-02	-2.77710E 01	-2.34151E-02	1.16375E 00	3.48567E-02
22.30	6.61945E-04	1.12265E 00	2.61207E-02	-2.77732E 01	-2.37999E-02	1.17413E 00	3.48590E-02
22.40	6.67892E-04	1.13285E 00	2.65277E-02	-2.77755E 01	-2.41888E-02	1.18456E 00	3.48612E-02
22.50	6.73866E-04	1.14309E 00	2.69389E-02	-2.77776E 01	-2.45817E-02	1.19504E 00	3.48635E-02
22.60	6.79866E-04	1.15338E 00	2.73541E-02	-2.77798E 01	-2.49787E-02	1.20556E 00	3.48657E-02
22.70	6.85893E-04	1.16372E 00	2.77736E-02	-2.77820E 01	-2.53798E-02	1.21613E 00	3.48679E-02
22.80	6.91946E-04	1.17410E 00	2.81973E-02	-2.77841E 01	-2.57850E-02	1.22674E 00	3.48701E-02
22.90	6.98026E-04	1.18453E 00	2.86252E-02	-2.77862E 01	-2.61944E-02	1.23740E 00	3.48722E-02
23.00	7.04133E-04	1.19500E 00	2.90573E-02	-2.77883E 01	-2.66080E-02	1.24810E 00	3.48744E-02
23.10	7.10266E-04	1.20552E 00	2.94937E-02	-2.77904E 01	-2.70258E-02	1.25886E 00	3.48765E-02
23.20	7.16426E-04	1.21609E 00	2.99344E-02	-2.77924E 01	-2.74478E-02	1.26965E 00	3.48786E-02
23.30	7.22612E-04	1.22670E 00	3.03794E-02	-2.77945E 01	-2.78740E-02	1.28049E 00	3.48807E-02
23.40	7.28825E-04	1.23735E 00	3.08287E-02	-2.77965E 01	-2.83045E-02	1.29138E 00	3.48828E-02
23.50	7.35064E-04	1.24806E 00	3.12842E-02	-2.77985E 01	-2.87393E-02	1.30232E 00	3.48849E-02
23.60	7.41330E-04	1.25881E 00	3.17405E-02	-2.78005E 01	-2.91783E-02	1.31330E 00	3.48869E-02
23.70	7.47623E-04	1.26960E 00	3.22029E-02	-2.78024E 01	-2.96217E-02	1.32432E 00	3.48889E-02
23.80	7.53942E-04	1.28044E 00	3.26697E-02	-2.78044E 01	-3.00694E-02	1.33539E 00	3.48909E-02
23.90	7.60287E-04	1.29133E 00	3.31410E-02	-2.78063E 01	-3.05215E-02	1.34651E 00	3.48929E-02
24.00	7.66660E-04	1.30226E 00	3.36167E-02	-2.78082E 01	-3.09780E-02	1.35767E 00	3.48949E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=7 \quad A=14 \quad \rho=1.2 A^{1/3} F$						
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
24.10	8.55616E-01	2.21648E 01	9.38039E-01	-7.43241E-04	-8.63376E-01	2.31325E 01	3.50751E 02
24.20	8.55608E-01	2.22608E 01	9.47673E-01	-7.46425E-04	-8.72784E-01	2.32289E 01	3.51445E 02
24.30	8.55600E-01	2.23569E 01	9.57357E-01	-7.49571E-04	-8.82240E-01	2.33253E 01	3.52136E 02
24.40	8.55592E-01	2.24530E 01	9.67090E-01	-7.52668E-04	-8.91747E-01	2.34217E 01	3.52828E 02
24.50	8.55583E-01	2.25492E 01	9.76872E-01	-7.55725E-04	-9.01302E-01	2.35182E 01	3.53519E 02
24.60	8.55575E-01	2.26453E 01	9.86704E-01	-7.58745E-04	-9.10907E-01	2.36147E 01	3.54208E 02
24.70	8.55567E-01	2.27415E 01	9.96585E-01	-7.61736E-04	-9.20562E-01	2.37112E 01	3.54895E 02
24.80	8.55559E-01	2.28377E 01	1.00652E 00	-7.64683E-04	-9.30266E-01	2.38078E 01	3.55582E 02
24.90	8.55551E-01	2.29340E 01	1.01650E 00	-7.67584E-04	-9.40020E-01	2.39044E 01	3.56269E 02
25.00	8.55543E-01	2.30302E 01	1.02653E 00	-7.70454E-04	-9.49824E-01	2.40010E 01	3.56953E 02
25.10	8.55535E-01	2.31265E 01	1.03661E 00	-7.73275E-04	-9.59677E-01	2.40976E 01	3.57639E 02
25.20	8.55527E-01	2.32228E 01	1.04674E 00	-7.76072E-04	-9.69580E-01	2.41942E 01	3.58322E 02
25.30	8.55519E-01	2.33191E 01	1.05691E 00	-7.78834E-04	-9.79533E-01	2.42909E 01	3.59003E 02
25.40	8.55511E-01	2.34155E 01	1.06714E 00	-7.81555E-04	-9.89535E-01	2.43876E 01	3.59685E 02
25.50	8.55503E-01	2.35119E 01	1.07742E 00	-7.84243E-04	-9.99587E-01	2.44844E 01	3.60365E 02
25.60	8.55495E-01	2.36083E 01	1.08775E 00	-7.86885E-04	-1.00969E 00	2.45811E 01	3.61046E 02
25.70	8.55487E-01	2.37048E 01	1.09813E 00	-7.89506E-04	-1.01984E 00	2.46779E 01	3.61724E 02
25.80	8.55480E-01	2.38012E 01	1.10855E 00	-7.92087E-04	-1.03004E 00	2.47747E 01	3.62402E 02
25.90	8.55472E-01	2.38977E 01	1.11903E 00	-7.94632E-04	-1.04029E 00	2.48716E 01	3.63080E 02
26.00	8.55464E-01	2.39942E 01	1.12956E 00	-7.97139E-04	-1.05060E 00	2.49685E 01	3.63757E 02
26.10	8.55456E-01	2.40908E 01	1.14013E 00	-7.99615E-04	-1.06095E 00	2.50654E 01	3.64433E 02
26.20	8.55448E-01	2.41874E 01	1.15076E 00	-8.02064E-04	-1.07135E 00	2.51623E 01	3.65108E 02
26.30	8.55441E-01	2.42840E 01	1.16144E 00	-8.04467E-04	-1.08180E 00	2.52592E 01	3.65783E 02
26.40	8.55433E-01	2.43806E 01	1.17216E 00	-8.06846E-04	-1.09230E 00	2.53562E 01	3.66457E 02
26.50	8.55426E-01	2.44772E 01	1.18294E 00	-8.09194E-04	-1.10285E 00	2.54532E 01	3.67130E 02
26.60	8.55418E-01	2.45739E 01	1.19377E 00	-8.11511E-04	-1.11345E 00	2.55503E 01	3.67803E 02
26.70	8.55410E-01	2.46706E 01	1.20464E 00	-8.13793E-04	-1.12410E 00	2.56473E 01	3.68475E 02
26.80	8.55403E-01	2.47673E 01	1.21557E 00	-8.16036E-04	-1.13481E 00	2.57444E 01	3.69147E 02
26.90	8.55395E-01	2.48641E 01	1.22655E 00	-8.18258E-04	-1.14556E 00	2.58416E 01	3.69818E 02
27.00	8.55388E-01	2.49609E 01	1.23757E 00	-8.20445E-04	-1.15636E 00	2.59387E 01	3.70489E 02
27.10	8.55380E-01	2.50577E 01	1.24865E 00	-8.22600E-04	-1.16721E 00	2.60359E 01	3.71159E 02
27.20	8.55372E-01	2.51545E 01	1.25978E 00	-8.24731E-04	-1.17812E 00	2.61331E 01	3.71829E 02
27.30	8.55365E-01	2.52514E 01	1.27095E 00	-8.26825E-04	-1.18907E 00	2.62303E 01	3.72498E 02
27.40	8.55358E-01	2.53483E 01	1.28218E 00	-8.28897E-04	-1.20007E 00	2.63276E 01	3.73166E 02
27.50	8.55350E-01	2.54452E 01	1.29346E 00	-8.30932E-04	-1.21112E 00	2.64249E 01	3.73835E 02
27.60	8.55343E-01	2.55422E 01	1.30479E 00	-8.32936E-04	-1.22223E 00	2.65222E 01	3.74504E 02
27.70	8.55335E-01	2.56392E 01	1.31617E 00	-8.34921E-04	-1.23338E 00	2.66196E 01	3.75170E 02
27.80	8.55328E-01	2.57362E 01	1.32759E 00	-8.36867E-04	-1.24459E 00	2.67170E 01	3.75838E 02
27.90	8.55321E-01	2.58332E 01	1.33907E 00	-8.38784E-04	-1.25584E 00	2.68144E 01	3.76506E 02
28.00	8.55313E-01	2.59303E 01	1.35060E 00	-8.40683E-04	-1.26715E 00	2.69118E 01	3.77172E 02
28.10	8.55306E-01	2.60274E 01	1.36218E 00	-8.42547E-04	-1.27851E 00	2.70093E 01	3.77839E 02
28.20	8.55299E-01	2.61245E 01	1.37381E 00	-8.44386E-04	-1.28991E 00	2.71068E 01	3.78505E 02
28.30	8.55291E-01	2.62216E 01	1.38549E 00	-8.46202E-04	-1.30137E 00	2.72043E 01	3.79170E 02
28.40	8.55284E-01	2.63188E 01	1.39723E 00	-8.47979E-04	-1.31288E 00	2.73019E 01	3.79836E 02
28.50	8.55277E-01	2.64160E 01	1.40901E 00	-8.49723E-04	-1.32444E 00	2.73995E 01	3.80503E 02
28.60	8.55270E-01	2.65133E 01	1.42084E 00	-8.51460E-04	-1.33605E 00	2.74971E 01	3.81167E 02
28.70	8.55263E-01	2.66105E 01	1.43272E 00	-8.53162E-04	-1.34771E 00	2.75948E 01	3.81833E 02
28.80	8.55255E-01	2.67078E 01	1.44466E 00	-8.54838E-04	-1.35942E 00	2.76924E 01	3.82498E 02
28.90	8.55248E-01	2.68051E 01	1.45664E 00	-8.56482E-04	-1.37118E 00	2.77901E 01	3.83164E 02
29.00	8.55241E-01	2.69025E 01	1.46868E 00	-8.58106E-04	-1.38299E 00	2.78879E 01	3.83828E 02
29.10	8.55234E-01	2.69999E 01	1.48076E 00	-8.59705E-04	-1.39486E 00	2.79857E 01	3.84493E 02
29.20	8.55227E-01	2.70973E 01	1.49290E 00	-8.61279E-04	-1.40677E 00	2.80835E 01	3.85157E 02
29.30	8.55220E-01	2.71947E 01	1.50509E 00	-8.62823E-04	-1.41874E 00	2.81813E 01	3.85823E 02
29.40	8.55213E-01	2.72922E 01	1.51733E 00	-8.64347E-04	-1.43075E 00	2.82792E 01	3.86487E 02
29.50	8.55206E-01	2.73897E 01	1.52962E 00	-8.65841E-04	-1.44282E 00	2.83771E 01	3.87152E 02
29.60	8.55199E-01	2.74872E 01	1.54196E 00	-8.67320E-04	-1.45494E 00	2.84750E 01	3.87816E 02
29.70	8.55192E-01	2.75848E 01	1.55435E 00	-8.68764E-04	-1.46711E 00	2.85729E 01	3.88481E 02
29.80	8.55185E-01	2.76823E 01	1.56679E 00	-8.70194E-04	-1.47933E 00	2.86709E 01	3.89145E 02
29.90	8.55178E-01	2.77800E 01	1.57929E 00	-8.71592E-04	-1.49160E 00	2.87689E 01	3.89810E 02
30.00	8.55171E-01	2.78776E 01	1.59183E 00	-8.72965E-04	-1.50392E 00	2.88670E 01	3.90475E 02

## ELECTRON RADIAL FUNCTIONS

$$Z = 7 \quad A = 14 \quad \rho = 1.2 A^{1/3} F$$

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
24.10	7.73059E-04	1.31324E 00	3.40969E-02	-2.78101E 01	-3.14388E-02	1.36888E 00	3.48969E-02
24.20	7.79484E-04	1.32426E 00	3.45816E-02	-2.78120E 01	-3.19041E-02	1.38014E 00	3.48988E-02
24.30	7.85936E-04	1.33533E 00	3.50708E-02	-2.78139E 01	-3.23739E-02	1.39144E 00	3.49008E-02
24.40	7.92415E-04	1.34645E 00	3.55645E-02	-2.78157E 01	-3.28481E-02	1.40278E 00	3.49027E-02
24.50	7.98920E-04	1.35761E 00	3.60627E-02	-2.78176E 01	-3.33267E-02	1.41418E 00	3.49046E-02
24.60	8.05452E-04	1.36882E 00	3.65656E-02	-2.78194E 01	-3.38099E-02	1.42561E 00	3.49065E-02
24.70	8.12010E-04	1.38007E 00	3.70730E-02	-2.78212E 01	-3.42976E-02	1.43710E 00	3.49084E-02
24.80	8.18595E-04	1.39137E 00	3.75851E-02	-2.78230E 01	-3.47899E-02	1.44863E 00	3.49102E-02
24.90	8.25206E-04	1.40271E 00	3.81017E-02	-2.78248E 01	-3.52867E-02	1.46020E 00	3.49121E-02
25.00	8.31844E-04	1.41410E 00	3.86231E-02	-2.78265E 01	-3.57881E-02	1.47182E 00	3.49139E-02
25.10	8.38509E-04	1.42554E 00	3.91491E-02	-2.78283E 01	-3.62941E-02	1.48349E 00	3.49157E-02
25.20	8.45200E-04	1.43702E 00	3.96798E-02	-2.78300E 01	-3.68047E-02	1.49520E 00	3.49175E-02
25.30	8.51918E-04	1.44855E 00	4.02152E-02	-2.78317E 01	-3.73200E-02	1.50696E 00	3.49193E-02
25.40	8.58662E-04	1.46012E 00	4.07554E-02	-2.78334E 01	-3.78400E-02	1.51876E 00	3.49211E-02
25.50	8.65433E-04	1.47174E 00	4.13003E-02	-2.78351E 01	-3.83646E-02	1.53061E 00	3.49229E-02
25.60	8.72230E-04	1.48340E 00	4.18500E-02	-2.78368E 01	-3.88940E-02	1.54251E 00	3.49246E-02
25.70	8.79054E-04	1.49511E 00	4.24045E-02	-2.78385E 01	-3.94281E-02	1.55445E 00	3.49264E-02
25.80	8.85905E-04	1.50687E 00	4.29639E-02	-2.78401E 01	-3.99669E-02	1.56643E 00	3.49281E-02
25.90	8.92782E-04	1.51867E 00	4.35280E-02	-2.78417E 01	-4.05105E-02	1.57847E 00	3.49298E-02
26.00	8.99686E-04	1.53052E 00	4.40970E-02	-2.78434E 01	-4.10589E-02	1.59054E 00	3.49315E-02
26.10	9.06616E-04	1.54241E 00	4.46709E-02	-2.78450E 01	-4.16121E-02	1.60267E 00	3.49332E-02
26.20	9.13573E-04	1.55435E 00	4.52498E-02	-2.78466E 01	-4.21702E-02	1.61484E 00	3.49349E-02
26.30	9.20556E-04	1.56633E 00	4.58335E-02	-2.78482E 01	-4.27331E-02	1.62705E 00	3.49366E-02
26.40	9.27566E-04	1.57836E 00	4.64221E-02	-2.78497E 01	-4.33008E-02	1.63931E 00	3.49382E-02
26.50	9.34602E-04	1.59044E 00	4.70158E-02	-2.78513E 01	-4.38735E-02	1.65162E 00	3.49399E-02
26.60	9.41665E-04	1.60256E 00	4.76144E-02	-2.78528E 01	-4.44511E-02	1.66397E 00	3.49415E-02
26.70	9.48755E-04	1.61473E 00	4.82180E-02	-2.78544E 01	-4.50336E-02	1.67637E 00	3.49431E-02
26.80	9.55871E-04	1.62694E 00	4.88267E-02	-2.78559E 01	-4.56211E-02	1.68881E 00	3.49447E-02
26.90	9.63014E-04	1.63920E 00	4.94403E-02	-2.78574E 01	-4.62136E-02	1.70130E 00	3.49463E-02
27.00	9.70183E-04	1.65150E 00	5.00591E-02	-2.78589E 01	-4.68110E-02	1.71384E 00	3.49479E-02
27.10	9.77379E-04	1.66385E 00	5.06830E-02	-2.78604E 01	-4.74135E-02	1.72642E 00	3.49495E-02
27.20	9.84602E-04	1.67625E 00	5.13119E-02	-2.78619E 01	-4.80210E-02	1.73904E 00	3.49511E-02
27.30	9.91851E-04	1.68869E 00	5.19460E-02	-2.78633E 01	-4.86336E-02	1.75171E 00	3.49526E-02
27.40	9.99126E-04	1.70117E 00	5.25852E-02	-2.78648E 01	-4.92512E-02	1.76443E 00	3.49541E-02
27.50	1.00643E-03	1.71371E 00	5.32296E-02	-2.78662E 01	-4.98740E-02	1.77719E 00	3.49557E-02
27.60	1.01376E-03	1.72628E 00	5.38792E-02	-2.78677E 01	-5.05018E-02	1.79000E 00	3.49572E-02
27.70	1.02111E-03	1.73891E 00	5.45340E-02	-2.78691E 01	-5.11348E-02	1.80285E 00	3.49587E-02
27.80	1.02849E-03	1.75158E 00	5.51940E-02	-2.78705E 01	-5.17730E-02	1.81575E 00	3.49602E-02
27.90	1.03590E-03	1.76429E 00	5.58593E-02	-2.78719E 01	-5.24164E-02	1.82870E 00	3.49617E-02
28.00	1.04334E-03	1.77705E 00	5.65299E-02	-2.78733E 01	-5.30649E-02	1.84169E 00	3.49632E-02
28.10	1.05080E-03	1.78986E 00	5.72057E-02	-2.78747E 01	-5.37187E-02	1.85473E 00	3.49647E-02
28.20	1.05829E-03	1.80271E 00	5.78868E-02	-2.78761E 01	-5.43777E-02	1.86781E 00	3.49661E-02
28.30	1.06580E-03	1.81561E 00	5.85733E-02	-2.78774E 01	-5.50420E-02	1.88094E 00	3.49676E-02
28.40	1.07334E-03	1.82855E 00	5.92652E-02	-2.78788E 01	-5.57116E-02	1.89411E 00	3.49690E-02
28.50	1.08091E-03	1.84154E 00	5.99624E-02	-2.78801E 01	-5.63865E-02	1.90733E 00	3.49705E-02
28.60	1.08851E-03	1.85457E 00	6.06649E-02	-2.78814E 01	-5.70667E-02	1.92059E 00	3.49719E-02
28.70	1.09613E-03	1.86765E 00	6.13730E-02	-2.78828E 01	-5.77522E-02	1.93390E 00	3.49733E-02
28.80	1.10377E-03	1.88077E 00	6.20864E-02	-2.78841E 01	-5.84431E-02	1.94726E 00	3.49747E-02
28.90	1.11145E-03	1.89394E 00	6.28053E-02	-2.78854E 01	-5.91395E-02	1.96066E 00	3.49761E-02
29.00	1.11915E-03	1.90716E 00	6.35297E-02	-2.78867E 01	-5.98412E-02	1.97410E 00	3.49775E-02
29.10	1.12688E-03	1.92042E 00	6.42596E-02	-2.78880E 01	-6.05483E-02	1.98759E 00	3.49789E-02
29.20	1.13463E-03	1.93373E 00	6.49950E-02	-2.78892E 01	-6.12609E-02	2.00113E 00	3.49802E-02
29.30	1.14241E-03	1.94708E 00	6.57359E-02	-2.78905E 01	-6.19789E-02	2.01471E 00	3.49816E-02
29.40	1.15022E-03	1.96048E 00	6.64824E-02	-2.78918E 01	-6.27025E-02	2.02834E 00	3.49829E-02
29.50	1.15805E-03	1.97392E 00	6.72345E-02	-2.78930E 01	-6.34315E-02	2.04202E 00	3.49843E-02
29.60	1.16591E-03	1.98741E 00	6.79921E-02	-2.78943E 01	-6.41661E-02	2.05574E 00	3.49856E-02
29.70	1.17380E-03	2.00095E 00	6.87554E-02	-2.78955E 01	-6.49062E-02	2.06950E 00	3.49870E-02
29.80	1.18171E-03	2.01453E 00	6.95244E-02	-2.78967E 01	-6.56520E-02	2.08331E 00	3.49883E-02
29.90	1.18965E-03	2.02815E 00	7.02989E-02	-2.78979E 01	-6.64033E-02	2.09717E 00	3.49896E-02
30.00	1.19762E-03	2.04182E 00	7.10792E-02	-2.78991E 01	-6.71602E-02	2.11107E 00	3.49909E-02



ELECTRON RADIAL FUNCTIONS

Positron	$Z=7$		$A=14$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
30.10	8.55164E-01	2.79753E 01	1.60443E 00	-8.74314E-04	-1.51630E 00	2.89651E 01	3.91141E 02	
30.20	8.55157E-01	2.80730E 01	1.61707E 00	-8.75643E-04	-1.52872E 00	2.90632E 01	3.91806E 02	
30.30	8.55150E-01	2.81707E 01	1.62977E 00	-8.76946E-04	-1.54120E 00	2.91613E 01	3.92472E 02	
30.40	8.55144E-01	2.82685E 01	1.64252E 00	-8.78217E-04	-1.55373E 00	2.92595E 01	3.93139E 02	
30.50	8.55137E-01	2.83663E 01	1.65532E 00	-8.79482E-04	-1.56631E 00	2.93577E 01	3.93803E 02	
30.60	8.55130E-01	2.84641E 01	1.66817E 00	-8.80721E-04	-1.57894E 00	2.94560E 01	3.94469E 02	
30.70	8.55123E-01	2.85620E 01	1.68108E 00	-8.81932E-04	-1.59162E 00	2.95543E 01	3.95135E 02	
30.80	8.55116E-01	2.86599E 01	1.69403E 00	-8.83123E-04	-1.60435E 00	2.96526E 01	3.95802E 02	
30.90	8.55110E-01	2.87578E 01	1.70704E 00	-8.84290E-04	-1.61714E 00	2.97509E 01	3.96468E 02	
31.00	8.55103E-01	2.88558E 01	1.72009E 00	-8.85440E-04	-1.62997E 00	2.98493E 01	3.97135E 02	
31.10	8.55096E-01	2.89538E 01	1.73320E 00	-8.86562E-04	-1.64286E 00	2.99477E 01	3.97802E 02	
31.20	8.55090E-01	2.90518E 01	1.74636E 00	-8.87662E-04	-1.65580E 00	3.00461E 01	3.98470E 02	
31.30	8.55083E-01	2.91498E 01	1.75957E 00	-8.88741E-04	-1.66879E 00	3.01446E 01	3.99139E 02	
31.40	8.55076E-01	2.92479E 01	1.77283E 00	-8.89803E-04	-1.68184E 00	3.02431E 01	3.99807E 02	
31.50	8.55070E-01	2.93460E 01	1.78615E 00	-8.90839E-04	-1.69493E 00	3.03416E 01	4.00475E 02	
31.60	8.55063E-01	2.94441E 01	1.79952E 00	-8.91854E-04	-1.70808E 00	3.04402E 01	4.01145E 02	
31.70	8.55056E-01	2.95423E 01	1.81293E 00	-8.92854E-04	-1.72127E 00	3.05388E 01	4.01813E 02	
31.80	8.55050E-01	2.96405E 01	1.82640E 00	-8.93828E-04	-1.73452E 00	3.06374E 01	4.02483E 02	
31.90	8.55043E-01	2.97388E 01	1.83992E 00	-8.94785E-04	-1.74783E 00	3.07361E 01	4.03153E 02	
32.00	8.55037E-01	2.98370E 01	1.85350E 00	-8.95715E-04	-1.76118E 00	3.08348E 01	4.03825E 02	
32.10	8.55031E-01	2.99353E 01	1.86712E 00	-8.96629E-04	-1.77459E 00	3.09335E 01	4.04496E 02	
32.20	8.55024E-01	3.00337E 01	1.88080E 00	-8.97521E-04	-1.78804E 00	3.10323E 01	4.05167E 02	
32.30	8.55018E-01	3.01320E 01	1.89453E 00	-8.98392E-04	-1.80155E 00	3.11311E 01	4.05840E 02	
32.40	8.55011E-01	3.02304E 01	1.90831E 00	-8.99247E-04	-1.81511E 00	3.12299E 01	4.06512E 02	
32.50	8.55005E-01	3.03289E 01	1.92214E 00	-9.00075E-04	-1.82873E 00	3.13288E 01	4.07186E 02	
32.60	8.54998E-01	3.04273E 01	1.93602E 00	-9.00893E-04	-1.84239E 00	3.14277E 01	4.07859E 02	
32.70	8.54992E-01	3.05258E 01	1.94996E 00	-9.01687E-04	-1.85611E 00	3.15266E 01	4.08534E 02	
32.80	8.54985E-01	3.06244E 01	1.96395E 00	-9.02464E-04	-1.86988E 00	3.16256E 01	4.09208E 02	
32.90	8.54979E-01	3.07229E 01	1.97799E 00	-9.03217E-04	-1.88370E 00	3.17246E 01	4.09884E 02	
33.00	8.54973E-01	3.08215E 01	1.99208E 00	-9.03949E-04	-1.89758E 00	3.18237E 01	4.10561E 02	
33.10	8.54966E-01	3.09201E 01	2.00623E 00	-9.04664E-04	-1.91150E 00	3.19227E 01	4.11238E 02	
33.20	8.54960E-01	3.10188E 01	2.02042E 00	-9.05355E-04	-1.92548E 00	3.20218E 01	4.11917E 02	
33.30	8.54954E-01	3.11175E 01	2.03467E 00	-9.06037E-04	-1.93951E 00	3.21210E 01	4.12595E 02	
33.40	8.54947E-01	3.12162E 01	2.04897E 00	-9.06695E-04	-1.95360E 00	3.22202E 01	4.13274E 02	
33.50	8.54941E-01	3.13150E 01	2.06333E 00	-9.07342E-04	-1.96773E 00	3.23194E 01	4.13953E 02	
33.60	8.54935E-01	3.14138E 01	2.07773E 00	-9.07962E-04	-1.98192E 00	3.24186E 01	4.14634E 02	
33.70	8.54928E-01	3.15126E 01	2.09219E 00	-9.08569E-04	-1.99616E 00	3.25179E 01	4.15315E 02	
33.80	8.54922E-01	3.16115E 01	2.10670E 00	-9.09158E-04	-2.01046E 00	3.26172E 01	4.15996E 02	
33.90	8.54916E-01	3.17104E 01	2.12127E 00	-9.09722E-04	-2.02480E 00	3.27166E 01	4.16680E 02	
34.00	8.54910E-01	3.18093E 01	2.13588E 00	-9.10277E-04	-2.03920E 00	3.28160E 01	4.17364E 02	
34.10	8.54904E-01	3.19083E 01	2.15055E 00	-9.10806E-04	-2.05365E 00	3.29154E 01	4.18048E 02	
34.20	8.54897E-01	3.20073E 01	2.16527E 00	-9.11319E-04	-2.06816E 00	3.30149E 01	4.18733E 02	
34.30	8.54891E-01	3.21063E 01	2.18005E 00	-9.11818E-04	-2.08271E 00	3.31144E 01	4.19419E 02	
34.40	8.54885E-01	3.22054E 01	2.19487E 00	-9.12294E-04	-2.09732E 00	3.32139E 01	4.20107E 02	
34.50	8.54879E-01	3.23045E 01	2.20975E 00	-9.12757E-04	-2.11199E 00	3.33135E 01	4.20794E 02	
34.60	8.54873E-01	3.24036E 01	2.22468E 00	-9.13200E-04	-2.12670E 00	3.34131E 01	4.21483E 02	
34.70	8.54867E-01	3.25028E 01	2.23967E 00	-9.13625E-04	-2.14147E 00	3.35127E 01	4.22174E 02	
34.80	8.54861E-01	3.26020E 01	2.25470E 00	-9.14038E-04	-2.15629E 00	3.36124E 01	4.22864E 02	
34.90	8.54855E-01	3.27013E 01	2.26979E 00	-9.14434E-04	-2.17117E 00	3.37121E 01	4.23555E 02	
35.00	8.54849E-01	3.28005E 01	2.28494E 00	-9.14814E-04	-2.18609E 00	3.38119E 01	4.24248E 02	
35.10	8.54842E-01	3.28998E 01	2.30013E 00	-9.15166E-04	-2.20107E 00	3.39117E 01	4.24942E 02	
35.20	8.54836E-01	3.29992E 01	2.31538E 00	-9.15512E-04	-2.21611E 00	3.40115E 01	4.25637E 02	
35.30	8.54830E-01	3.30986E 01	2.33068E 00	-9.15838E-04	-2.23119E 00	3.41113E 01	4.26332E 02	
35.40	8.54824E-01	3.31980E 01	2.34604E 00	-9.16147E-04	-2.24633E 00	3.42112E 01	4.27029E 02	
35.50	8.54819E-01	3.32975E 01	2.36145E 00	-9.16436E-04	-2.26153E 00	3.43112E 01	4.27728E 02	
35.60	8.54813E-01	3.33970E 01	2.37691E 00	-9.16712E-04	-2.27677E 00	3.44112E 01	4.28427E 02	
35.70	8.54807E-01	3.34965E 01	2.39242E 00	-9.16974E-04	-2.29207E 00	3.45112E 01	4.29127E 02	
35.80	8.54801E-01	3.35960E 01	2.40799E 00	-9.17216E-04	-2.30743E 00	3.46112E 01	4.29829E 02	
35.90	8.54795E-01	3.36956E 01	2.42361E 00	-9.17446E-04	-2.32283E 00	3.47113E 01	4.30531E 02	
36.00	8.54789E-01	3.37953E 01	2.43929E 00	-9.17663E-04	-2.33829E 00	3.48114E 01	4.31233E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$        $A = 14$        $\rho = 1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
30.10	1.20561E-03	2.05554E 00	7.18652E-02	-2.79003E 01	-6.79227E-02	2.12502E 00	3.49922E-02
30.20	1.21363E-03	2.06930E 00	7.26569E-02	-2.79015E 01	-6.86909E-02	2.13901E 00	3.49935E-02
30.30	1.22168E-03	2.08311E 00	7.34543E-02	-2.79027E 01	-6.94648E-02	2.15304E 00	3.49947E-02
30.40	1.22975E-03	2.09696E 00	7.42575E-02	-2.79039E 01	-7.02444E-02	2.16713E 00	3.49960E-02
30.50	1.23785E-03	2.11086E 00	7.50665E-02	-2.79050E 01	-7.10296E-02	2.18126E 00	3.49973E-02
30.60	1.24597E-03	2.12480E 00	7.58812E-02	-2.79062E 01	-7.18206E-02	2.19543E 00	3.49985E-02
30.70	1.25413E-03	2.13879E 00	7.67018E-02	-2.79073E 01	-7.26174E-02	2.20965E 00	3.49998E-02
30.80	1.26231E-03	2.15283E 00	7.75283E-02	-2.79085E 01	-7.34199E-02	2.22391E 00	3.50010E-02
30.90	1.27051E-03	2.16691E 00	7.83606E-02	-2.79096E 01	-7.42283E-02	2.23822E 00	3.50022E-02
31.00	1.27874E-03	2.18103E 00	7.91988E-02	-2.79108E 01	-7.50424E-02	2.25258E 00	3.50035E-02
31.10	1.28700E-03	2.19520E 00	8.00429E-02	-2.79119E 01	-7.58624E-02	2.26698E 00	3.50047E-02
31.20	1.29529E-03	2.20942E 00	8.08929E-02	-2.79130E 01	-7.66883E-02	2.28143E 00	3.50059E-02
31.30	1.30360E-03	2.22368E 00	8.17488E-02	-2.79141E 01	-7.75200E-02	2.29592E 00	3.50071E-02
31.40	1.31194E-03	2.23799E 00	8.26108E-02	-2.79152E 01	-7.83576E-02	2.31045E 00	3.50083E-02
31.50	1.32030E-03	2.25234E 00	8.34787E-02	-2.79163E 01	-7.92011E-02	2.32504E 00	3.50095E-02
31.60	1.32869E-03	2.26674E 00	8.43526E-02	-2.79174E 01	-8.00506E-02	2.33966E 00	3.50106E-02
31.70	1.33711E-03	2.28118E 00	8.52325E-02	-2.79184E 01	-8.09060E-02	2.35434E 00	3.50118E-02
31.80	1.34556E-03	2.29567E 00	8.61185E-02	-2.79195E 01	-8.17674E-02	2.36905E 00	3.50130E-02
31.90	1.35403E-03	2.31020E 00	8.70106E-02	-2.79206E 01	-8.26348E-02	2.38382E 00	3.50141E-02
32.00	1.36252E-03	2.32478E 00	8.79087E-02	-2.79216E 01	-8.35083E-02	2.39863E 00	3.50153E-02
32.10	1.37105E-03	2.33941E 00	8.88130E-02	-2.79227E 01	-8.43877E-02	2.41348E 00	3.50164E-02
32.20	1.37960E-03	2.35408E 00	8.97233E-02	-2.79237E 01	-8.52733E-02	2.42838E 00	3.50176E-02
32.30	1.38818E-03	2.36879E 00	9.06399E-02	-2.79248E 01	-8.61649E-02	2.44333E 00	3.50187E-02
32.40	1.39678E-03	2.38355E 00	9.15626E-02	-2.79258E 01	-8.70626E-02	2.45832E 00	3.50198E-02
32.50	1.40541E-03	2.39836E 00	9.24915E-02	-2.79268E 01	-8.79664E-02	2.47335E 00	3.50209E-02
32.60	1.41407E-03	2.41321E 00	9.34265E-02	-2.79278E 01	-8.88764E-02	2.48843E 00	3.50220E-02
32.70	1.42275E-03	2.42810E 00	9.43679E-02	-2.79288E 01	-8.97925E-02	2.50356E 00	3.50232E-02
32.80	1.43146E-03	2.44304E 00	9.53154E-02	-2.79298E 01	-9.07148E-02	2.51873E 00	3.50243E-02
32.90	1.44020E-03	2.45803E 00	9.62693E-02	-2.79308E 01	-9.16434E-02	2.53395E 00	3.50253E-02
33.00	1.44896E-03	2.47306E 00	9.72294E-02	-2.79318E 01	-9.25781E-02	2.54921E 00	3.50264E-02
33.10	1.45775E-03	2.48814E 00	9.81959E-02	-2.79328E 01	-9.35191E-02	2.56451E 00	3.50275E-02
33.20	1.46657E-03	2.50326E 00	9.91687E-02	-2.79338E 01	-9.44663E-02	2.57987E 00	3.50286E-02
33.30	1.47541E-03	2.51843E 00	1.00148E-01	-2.79347E 01	-9.54199E-02	2.59526E 00	3.50297E-02
33.40	1.48428E-03	2.53364E 00	1.01133E-01	-2.79357E 01	-9.63797E-02	2.61071E 00	3.50307E-02
33.50	1.49318E-03	2.54890E 00	1.02125E-01	-2.79367E 01	-9.73459E-02	2.62619E 00	3.50318E-02
33.60	1.50210E-03	2.56420E 00	1.03124E-01	-2.79376E 01	-9.83184E-02	2.64173E 00	3.50328E-02
33.70	1.51105E-03	2.57955E 00	1.04128E-01	-2.79386E 01	-9.92973E-02	2.65731E 00	3.50339E-02
33.80	1.52002E-03	2.59495E 00	1.05139E-01	-2.79395E 01	-1.00283E-01	2.67293E 00	3.50349E-02
33.90	1.52903E-03	2.61039E 00	1.06157E-01	-2.79405E 01	-1.01274E-01	2.68860E 00	3.50359E-02
34.00	1.53805E-03	2.62587E 00	1.07181E-01	-2.79414E 01	-1.02272E-01	2.70431E 00	3.50370E-02
34.10	1.54711E-03	2.64140E 00	1.08212E-01	-2.79423E 01	-1.03277E-01	2.72007E 00	3.50380E-02
34.20	1.55619E-03	2.65697E 00	1.09249E-01	-2.79432E 01	-1.04288E-01	2.73587E 00	3.50390E-02
34.30	1.56530E-03	2.67259E 00	1.10293E-01	-2.79441E 01	-1.05305E-01	2.75172E 00	3.50400E-02
34.40	1.57444E-03	2.68826E 00	1.11343E-01	-2.79451E 01	-1.06329E-01	2.76762E 00	3.50410E-02
34.50	1.58360E-03	2.70397E 00	1.12400E-01	-2.79460E 01	-1.07360E-01	2.78356E 00	3.50420E-02
34.60	1.59278E-03	2.71972E 00	1.13464E-01	-2.79469E 01	-1.08397E-01	2.79954E 00	3.50430E-02
34.70	1.60200E-03	2.73552E 00	1.14534E-01	-2.79477E 01	-1.09441E-01	2.81557E 00	3.50440E-02
34.80	1.61124E-03	2.75137E 00	1.15611E-01	-2.79486E 01	-1.10491E-01	2.83165E 00	3.50450E-02
34.90	1.62051E-03	2.76726E 00	1.16694E-01	-2.79495E 01	-1.11548E-01	2.84777E 00	3.50460E-02
35.00	1.62980E-03	2.78319E 00	1.17785E-01	-2.79504E 01	-1.12611E-01	2.86393E 00	3.50469E-02
35.10	1.63912E-03	2.79918E 00	1.18882E-01	-2.79513E 01	-1.13681E-01	2.88014E 00	3.50479E-02
35.20	1.64847E-03	2.81520E 00	1.19985E-01	-2.79521E 01	-1.14758E-01	2.89640E 00	3.50489E-02
35.30	1.65785E-03	2.83127E 00	1.21096E-01	-2.79530E 01	-1.15841E-01	2.91270E 00	3.50498E-02
35.40	1.66725E-03	2.84739E 00	1.22213E-01	-2.79538E 01	-1.16932E-01	2.92904E 00	3.50508E-02
35.50	1.67667E-03	2.86355E 00	1.23337E-01	-2.79547E 01	-1.18029E-01	2.94543E 00	3.50517E-02
35.60	1.68613E-03	2.87976E 00	1.24468E-01	-2.79555E 01	-1.19132E-01	2.96187E 00	3.50527E-02
35.70	1.69561E-03	2.89601E 00	1.25605E-01	-2.79564E 01	-1.20243E-01	2.97835E 00	3.50536E-02
35.80	1.70511E-03	2.91230E 00	1.26750E-01	-2.79572E 01	-1.21360E-01	2.99488E 00	3.50545E-02
35.90	1.71465E-03	2.92864E 00	1.27901E-01	-2.79580E 01	-1.22484E-01	3.01145E 00	3.50554E-02
36.00	1.72421E-03	2.94503E 00	1.29060E-01	-2.79589E 01	-1.23615E-01	3.02806E 00	3.50564E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=7$		$A=14$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
36.10	8.54783E-01	3.38950E 01	2.45501E 00	-9.17858E-04	-2.35381E 00	3.49116E 01	4.31938E 02	
36.20	8.54777E-01	3.39947E 01	2.47080E 00	-9.18045E-04	-2.36938E 00	3.50118E 01	4.32643E 02	
36.30	8.54771E-01	3.40944E 01	2.48663E 00	-9.18205E-04	-2.38500E 00	3.51120E 01	4.33351E 02	
36.40	8.54765E-01	3.41942E 01	2.50252E 00	-9.18360E-04	-2.40067E 00	3.52123E 01	4.34058E 02	
36.50	8.54760E-01	3.42940E 01	2.51846E 00	-9.18494E-04	-2.41640E 00	3.53126E 01	4.34768E 02	
36.60	8.54754E-01	3.43939E 01	2.53445E 00	-9.18616E-04	-2.43218E 00	3.54130E 01	4.35478E 02	
36.70	8.54748E-01	3.44938E 01	2.55050E 00	-9.18710E-04	-2.44802E 00	3.55134E 01	4.36192E 02	
36.80	8.54742E-01	3.45937E 01	2.56661E 00	-9.18805E-04	-2.46390E 00	3.56138E 01	4.36904E 02	
36.90	8.54736E-01	3.46937E 01	2.58276E 00	-9.18871E-04	-2.47985E 00	3.57142E 01	4.37620E 02	
37.00	8.54731E-01	3.47937E 01	2.59897E 00	-9.18940E-04	-2.49584E 00	3.58148E 01	4.38334E 02	
37.10	8.54725E-01	3.48937E 01	2.61523E 00	-9.18979E-04	-2.51189E 00	3.59153E 01	4.39052E 02	
37.20	8.54719E-01	3.49938E 01	2.63155E 00	-9.19005E-04	-2.52800E 00	3.60159E 01	4.39771E 02	
37.30	8.54713E-01	3.50939E 01	2.64792E 00	-9.19020E-04	-2.54416E 00	3.61165E 01	4.40491E 02	
37.40	8.54707E-01	3.51940E 01	2.66435E 00	-9.19021E-04	-2.56037E 00	3.62172E 01	4.41212E 02	
37.50	8.54701E-01	3.52942E 01	2.68083E 00	-9.19005E-04	-2.57664E 00	3.63179E 01	4.41935E 02	
37.60	8.54696E-01	3.53944E 01	2.69736E 00	-9.18977E-04	-2.59296E 00	3.64186E 01	4.42659E 02	
37.70	8.54690E-01	3.54947E 01	2.71395E 00	-9.18931E-04	-2.60933E 00	3.65194E 01	4.43385E 02	
37.80	8.54684E-01	3.55950E 01	2.73059E 00	-9.18872E-04	-2.62576E 00	3.66202E 01	4.44112E 02	
37.90	8.54679E-01	3.56954E 01	2.74728E 00	-9.18799E-04	-2.64225E 00	3.67211E 01	4.44841E 02	
38.00	8.54673E-01	3.57957E 01	2.76403E 00	-9.18707E-04	-2.65879E 00	3.68220E 01	4.45572E 02	
38.10	8.54668E-01	3.58962E 01	2.78083E 00	-9.18610E-04	-2.67538E 00	3.69229E 01	4.46302E 02	
38.20	8.54662E-01	3.59966E 01	2.79769E 00	-9.18490E-04	-2.69202E 00	3.70239E 01	4.47036E 02	
38.30	8.54656E-01	3.60971E 01	2.81460E 00	-9.18361E-04	-2.70873E 00	3.71249E 01	4.47771E 02	
38.40	8.54651E-01	3.61977E 01	2.83157E 00	-9.18218E-04	-2.72548E 00	3.72259E 01	4.48507E 02	
38.50	8.54645E-01	3.62982E 01	2.84859E 00	-9.18051E-04	-2.74229E 00	3.73270E 01	4.49247E 02	
38.60	8.54640E-01	3.63988E 01	2.86567E 00	-9.17890E-04	-2.75916E 00	3.74282E 01	4.49984E 02	
38.70	8.54634E-01	3.64995E 01	2.88280E 00	-9.17699E-04	-2.77608E 00	3.75294E 01	4.50726E 02	
38.80	8.54629E-01	3.66002E 01	2.89998E 00	-9.17508E-04	-2.79305E 00	3.76306E 01	4.51467E 02	
38.90	8.54623E-01	3.67009E 01	2.91722E 00	-9.17289E-04	-2.81008E 00	3.77319E 01	4.52213E 02	
39.00	8.54618E-01	3.68017E 01	2.93451E 00	-9.17062E-04	-2.82716E 00	3.78332E 01	4.52959E 02	
39.10	8.54612E-01	3.69025E 01	2.95186E 00	-9.16823E-04	-2.84430E 00	3.79345E 01	4.53707E 02	
39.20	8.54607E-01	3.70034E 01	2.96927E 00	-9.16573E-04	-2.86150E 00	3.80359E 01	4.54456E 02	
39.30	8.54601E-01	3.71043E 01	2.98672E 00	-9.16302E-04	-2.87875E 00	3.81373E 01	4.55208E 02	
39.40	8.54596E-01	3.72052E 01	3.00424E 00	-9.16018E-04	-2.89605E 00	3.82388E 01	4.55962E 02	
39.50	8.54590E-01	3.73062E 01	3.02180E 00	-9.15726E-04	-2.91341E 00	3.83403E 01	4.56717E 02	
39.60	8.54585E-01	3.74072E 01	3.03943E 00	-9.15419E-04	-2.93082E 00	3.84418E 01	4.57473E 02	
39.70	8.54580E-01	3.75082E 01	3.05710E 00	-9.15103E-04	-2.94829E 00	3.85434E 01	4.58231E 02	
39.80	8.54574E-01	3.76093E 01	3.07483E 00	-9.14773E-04	-2.96581E 00	3.86451E 01	4.58991E 02	
39.90	8.54569E-01	3.77104E 01	3.09262E 00	-9.14415E-04	-2.98339E 00	3.87468E 01	4.59755E 02	
40.00	8.54564E-01	3.78116E 01	3.11046E 00	-9.14062E-04	-3.00103E 00	3.88485E 01	4.60518E 02	
40.10	8.54558E-01	3.79128E 01	3.12836E 00	-9.13691E-04	-3.01872E 00	3.89502E 01	4.61284E 02	
40.20	8.54553E-01	3.80141E 01	3.14631E 00	-9.13303E-04	-3.03646E 00	3.90520E 01	4.62053E 02	
40.30	8.54548E-01	3.81154E 01	3.16432E 00	-9.12904E-04	-3.05426E 00	3.91539E 01	4.62823E 02	
40.40	8.54542E-01	3.82167E 01	3.18239E 00	-9.12498E-04	-3.07212E 00	3.92558E 01	4.63594E 02	
40.50	8.54537E-01	3.83181E 01	3.20050E 00	-9.12075E-04	-3.09003E 00	3.93577E 01	4.64367E 02	
40.60	8.54532E-01	3.84195E 01	3.21868E 00	-9.11643E-04	-3.10800E 00	3.94597E 01	4.65142E 02	
40.70	8.54526E-01	3.85210E 01	3.23691E 00	-9.11199E-04	-3.12602E 00	3.95617E 01	4.65919E 02	
40.80	8.54521E-01	3.86225E 01	3.25519E 00	-9.10733E-04	-3.14410E 00	3.96638E 01	4.66700E 02	
40.90	8.54516E-01	3.87240E 01	3.27353E 00	-9.10262E-04	-3.16223E 00	3.97659E 01	4.67481E 02	
41.00	8.54511E-01	3.88256E 01	3.29193E 00	-9.09777E-04	-3.18042E 00	3.98680E 01	4.68265E 02	
41.10	8.54505E-01	3.89272E 01	3.31038E 00	-9.09276E-04	-3.19867E 00	3.99702E 01	4.69052E 02	
41.20	8.54500E-01	3.90289E 01	3.32889E 00	-9.08766E-04	-3.21697E 00	4.00724E 01	4.69840E 02	
41.30	8.54495E-01	3.91306E 01	3.34745E 00	-9.08245E-04	-3.23533E 00	4.01747E 01	4.70630E 02	
41.40	8.54490E-01	3.92324E 01	3.36607E 00	-9.07713E-04	-3.25374E 00	4.02770E 01	4.71421E 02	
41.50	8.54485E-01	3.93342E 01	3.38474E 00	-9.07165E-04	-3.27221E 00	4.03794E 01	4.72217E 02	
41.60	8.54479E-01	3.94360E 01	3.40348E 00	-9.06606E-04	-3.29073E 00	4.04818E 01	4.73013E 02	
41.70	8.54474E-01	3.95379E 01	3.42226E 00	-9.06037E-04	-3.30932E 00	4.05843E 01	4.73812E 02	
41.80	8.54469E-01	3.96398E 01	3.44110E 00	-9.05456E-04	-3.32795E 00	4.06868E 01	4.74612E 02	
41.90	8.54464E-01	3.97418E 01	3.46000E 00	-9.04856E-04	-3.34665E 00	4.07893E 01	4.75417E 02	
42.00	8.54459E-01	3.98438E 01	3.47896E 00	-9.04249E-04	-3.36540E 00	4.08919E 01	4.76223E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$  $A = 14$  $\rho = 1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
36.10	1.73380E-03	2.96146E 00	1.30225E-01	-2.79597E 01	-1.24753E-01	3.04472E 00	3.50573E-02
36.20	1.74341E-03	2.97794E 00	1.31397E-01	-2.79605E 01	-1.25897E-01	3.06143E 00	3.50582E-02
36.30	1.75305E-03	2.99446E 00	1.32576E-01	-2.79613E 01	-1.27049E-01	3.07818E 00	3.50591E-02
36.40	1.76271E-03	3.01103E 00	1.33762E-01	-2.79621E 01	-1.28207E-01	3.09498E 00	3.50600E-02
36.50	1.77241E-03	3.02764E 00	1.34955E-01	-2.79629E 01	-1.29372E-01	3.11182E 00	3.50609E-02
36.60	1.78213E-03	3.04430E 00	1.36155E-01	-2.79637E 01	-1.30545E-01	3.12870E 00	3.50618E-02
36.70	1.79187E-03	3.06100E 00	1.37363E-01	-2.79645E 01	-1.31724E-01	3.14563E 00	3.50627E-02
36.80	1.80164E-03	3.07774E 00	1.38577E-01	-2.79653E 01	-1.32910E-01	3.16261E 00	3.50636E-02
36.90	1.81144E-03	3.09453E 00	1.39798E-01	-2.79661E 01	-1.34103E-01	3.17963E 00	3.50644E-02
37.00	1.82127E-03	3.11137E 00	1.41027E-01	-2.79669E 01	-1.35304E-01	3.19669E 00	3.50653E-02
37.10	1.83112E-03	3.12825E 00	1.42262E-01	-2.79677E 01	-1.36511E-01	3.21380E 00	3.50662E-02
37.20	1.84100E-03	3.14518E 00	1.43505E-01	-2.79684E 01	-1.37726E-01	3.23096E 00	3.50671E-02
37.30	1.85091E-03	3.16215E 00	1.44755E-01	-2.79692E 01	-1.38947E-01	3.24816E 00	3.50679E-02
37.40	1.86084E-03	3.17917E 00	1.46012E-01	-2.79700E 01	-1.40176E-01	3.26541E 00	3.50688E-02
37.50	1.87080E-03	3.19623E 00	1.47276E-01	-2.79707E 01	-1.41411E-01	3.28270E 00	3.50696E-02
37.60	1.88078E-03	3.21333E 00	1.48547E-01	-2.79715E 01	-1.42654E-01	3.30003E 00	3.50705E-02
37.70	1.89079E-03	3.23048E 00	1.49826E-01	-2.79722E 01	-1.43905E-01	3.31741E 00	3.50713E-02
37.80	1.90083E-03	3.24768E 00	1.51112E-01	-2.79730E 01	-1.45162E-01	3.33484E 00	3.50722E-02
37.90	1.91089E-03	3.26492E 00	1.52405E-01	-2.79737E 01	-1.46426E-01	3.35230E 00	3.50730E-02
38.00	1.92099E-03	3.28220E 00	1.53706E-01	-2.79745E 01	-1.47698E-01	3.36982E 00	3.50738E-02
38.10	1.93110E-03	3.29953E 00	1.55013E-01	-2.79752E 01	-1.48977E-01	3.38738E 00	3.50747E-02
38.20	1.94125E-03	3.31691E 00	1.56329E-01	-2.79759E 01	-1.50263E-01	3.40498E 00	3.50755E-02
38.30	1.95142E-03	3.33433E 00	1.57651E-01	-2.79767E 01	-1.51557E-01	3.42263E 00	3.50763E-02
38.40	1.96162E-03	3.35179E 00	1.58981E-01	-2.79774E 01	-1.52858E-01	3.44032E 00	3.50771E-02
38.50	1.97184E-03	3.36930E 00	1.60318E-01	-2.79781E 01	-1.54166E-01	3.45806E 00	3.50779E-02
38.60	1.98209E-03	3.38686E 00	1.61663E-01	-2.79788E 01	-1.55482E-01	3.47585E 00	3.50787E-02
38.70	1.99237E-03	3.40446E 00	1.63015E-01	-2.79795E 01	-1.56805E-01	3.49368E 00	3.50795E-02
38.80	2.00267E-03	3.42210E 00	1.64375E-01	-2.79802E 01	-1.58135E-01	3.51155E 00	3.50803E-02
38.90	2.01300E-03	3.43979E 00	1.65742E-01	-2.79809E 01	-1.59473E-01	3.52947E 00	3.50811E-02
39.00	2.02336E-03	3.45752E 00	1.67117E-01	-2.79816E 01	-1.60818E-01	3.54743E 00	3.50819E-02
39.10	2.03374E-03	3.47530E 00	1.68499E-01	-2.79823E 01	-1.62170E-01	3.56544E 00	3.50827E-02
39.20	2.04415E-03	3.49312E 00	1.69889E-01	-2.79830E 01	-1.63531E-01	3.58349E 00	3.50835E-02
39.30	2.05459E-03	3.51099E 00	1.71286E-01	-2.79837E 01	-1.64898E-01	3.60158E 00	3.50843E-02
39.40	2.06505E-03	3.52891E 00	1.72691E-01	-2.79844E 01	-1.66273E-01	3.61973E 00	3.50851E-02
39.50	2.07554E-03	3.54686E 00	1.74103E-01	-2.79851E 01	-1.67656E-01	3.63791E 00	3.50858E-02
39.60	2.08606E-03	3.56487E 00	1.75523E-01	-2.79857E 01	-1.69046E-01	3.65614E 00	3.50866E-02
39.70	2.09660E-03	3.58291E 00	1.76951E-01	-2.79864E 01	-1.70444E-01	3.67442E 00	3.50874E-02
39.80	2.10717E-03	3.60100E 00	1.78386E-01	-2.79871E 01	-1.71850E-01	3.69274E 00	3.50881E-02
39.90	2.11776E-03	3.61914E 00	1.79830E-01	-2.79878E 01	-1.73263E-01	3.71110E 00	3.50889E-02
40.00	2.12839E-03	3.63732E 00	1.81280E-01	-2.79884E 01	-1.74683E-01	3.72951E 00	3.50897E-02
40.10	2.13903E-03	3.65555E 00	1.82739E-01	-2.79891E 01	-1.76112E-01	3.74797E 00	3.50904E-02
40.20	2.14971E-03	3.67382E 00	1.84205E-01	-2.79897E 01	-1.77548E-01	3.76647E 00	3.50912E-02
40.30	2.16041E-03	3.69213E 00	1.85679E-01	-2.79904E 01	-1.78991E-01	3.78501E 00	3.50919E-02
40.40	2.17114E-03	3.71049E 00	1.87161E-01	-2.79910E 01	-1.80443E-01	3.80360E 00	3.50926E-02
40.50	2.18189E-03	3.72890E 00	1.88651E-01	-2.79917E 01	-1.81902E-01	3.82223E 00	3.50934E-02
40.60	2.19268E-03	3.74734E 00	1.90148E-01	-2.79923E 01	-1.83369E-01	3.84091E 00	3.50941E-02
40.70	2.20348E-03	3.76584E 00	1.91653E-01	-2.79930E 01	-1.84843E-01	3.85963E 00	3.50949E-02
40.80	2.21432E-03	3.78438E 00	1.93166E-01	-2.79936E 01	-1.86326E-01	3.87840E 00	3.50956E-02
40.90	2.22518E-03	3.80296E 00	1.94687E-01	-2.79942E 01	-1.87816E-01	3.89721E 00	3.50963E-02
41.00	2.23607E-03	3.82159E 00	1.96216E-01	-2.79949E 01	-1.89314E-01	3.91607E 00	3.50970E-02
41.10	2.24698E-03	3.84026E 00	1.97753E-01	-2.79955E 01	-1.90820E-01	3.93497E 00	3.50977E-02
41.20	2.25792E-03	3.85898E 00	1.99298E-01	-2.79961E 01	-1.92334E-01	3.95391E 00	3.50985E-02
41.30	2.26889E-03	3.87774E 00	2.00851E-01	-2.79967E 01	-1.93856E-01	3.97290E 00	3.50992E-02
41.40	2.27988E-03	3.89654E 00	2.02412E-01	-2.79974E 01	-1.95386E-01	3.99194E 00	3.50999E-02
41.50	2.29091E-03	3.91539E 00	2.03980E-01	-2.79980E 01	-1.96923E-01	4.01102E 00	3.51006E-02
41.60	2.30195E-03	3.93429E 00	2.05557E-01	-2.79986E 01	-1.98469E-01	4.03014E 00	3.51013E-02
41.70	2.31303E-03	3.95323E 00	2.07142E-01	-2.79992E 01	-2.00022E-01	4.04931E 00	3.51020E-02
41.80	2.32413E-03	3.97221E 00	2.08735E-01	-2.79998E 01	-2.01584E-01	4.06852E 00	3.51027E-02
41.90	2.33525E-03	3.99124E 00	2.10336E-01	-2.80004E 01	-2.03154E-01	4.08778E 00	3.51034E-02
42.00	2.34641E-03	4.01031E 00	2.11945E-01	-2.80010E 01	-2.04731E-01	4.10708E 00	3.51041E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=8$	$A=17$	$\rho=1.2A^{1/3}F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
0.10	9.75707E-02	2.54533E-03	-4.58576E-05	2.67914E-01	1.02954E-03	4.41020E-02	3.66099E	00
0.20	3.50158E-01	1.71795E-02	-3.08834E-04	1.27763E-01	3.88003E-03	1.66489E-01	6.31998E	00
0.30	5.07156E-01	4.47000E-02	-8.00681E-04	8.48294E-02	6.94478E-03	2.98823E-01	9.26072E	00
0.40	6.01250E-01	8.38370E-02	-1.49434E-03	6.36857E-02	9.96866E-03	4.30566E-01	1.22695E	01
0.50	6.61460E-01	1.33045E-01	-2.35690E-03	5.10239E-02	1.28932E-02	5.59523E-01	1.53037E	01
0.60	7.02229E-01	1.90732E-01	-3.35434E-03	4.25602E-02	1.56979E-02	6.85056E-01	1.83448E	01
0.70	7.31062E-01	2.55398E-01	-4.45454E-03	3.64865E-02	1.83765E-02	8.07061E-01	2.13818E	01
0.80	7.52155E-01	3.25712E-01	-5.62886E-03	3.19057E-02	2.09295E-02	9.25688E-01	2.44072E	01
0.90	7.68010E-01	4.00544E-01	-6.85297E-03	2.83218E-02	2.33616E-02	1.04120E	2.74156E	01
1.00	7.80195E-01	4.78961E-01	-8.10672E-03	2.54377E-02	2.56789E-02	1.15392E	3.04031E	01
1.10	7.89736E-01	5.60209E-01	-9.37381E-03	2.30642E-02	2.78882E-02	1.26416E	3.33669E	01
1.20	7.97327E-01	6.43693E-01	-1.06413E-02	2.10755E-02	2.99966E-02	1.37224E	3.63051E	01
1.30	8.03452E-01	7.28939E-01	-1.18989E-02	1.93838E-02	3.20104E-02	1.47844E	3.92161E	01
1.40	8.08454E-01	8.15579E-01	-1.31385E-02	1.79267E-02	3.39354E-02	1.58301E	4.20989E	01
1.50	8.12583E-01	9.03322E-01	-1.43538E-02	1.66581E-02	3.57768E-02	1.68616E	4.49529E	01
1.60	8.16025E-01	9.91941E-01	-1.55399E-02	1.55434E-02	3.75392E-02	1.78809E	4.77777E	01
1.70	8.18919E-01	1.08126E	-1.66927E-02	1.45560E-02	3.92265E-02	1.88897E	5.05730E	01
1.80	8.21371E-01	1.17113E	-1.78093E-02	1.36750E-02	4.08420E-02	1.98893E	5.33388E	01
1.90	8.23463E-01	1.26146E	-1.88871E-02	1.28841E-02	4.23886E-02	2.08809E	5.60751E	01
2.00	8.25260E-01	1.35214E	-1.99243E-02	1.21700E-02	4.38688E-02	2.18655E	5.87822E	01
2.10	8.26812E-01	1.44312E	-2.09192E-02	1.15221E-02	4.52848E-02	2.28440E	6.14601E	01
2.20	8.28160E-01	1.53434E	-2.18707E-02	1.09314E-02	4.66384E-02	2.38171E	6.41092E	01
2.30	8.29337E-01	1.62574E	-2.27778E-02	1.03908E-02	4.79312E-02	2.47855E	6.67297E	01
2.40	8.30368E-01	1.71731E	-2.36396E-02	9.89398E-03	4.91645E-02	2.57498E	6.93219E	01
2.50	8.31276E-01	1.80900E	-2.44555E-02	9.43595E-03	5.03396E-02	2.67104E	7.18863E	01
2.60	8.32078E-01	1.90079E	-2.52249E-02	9.01227E-03	5.14574E-02	2.76677E	7.44231E	01
2.70	8.32789E-01	1.99268E	-2.59475E-02	8.61924E-03	5.25188E-02	2.86222E	7.69328E	01
2.80	8.33421E-01	2.08463E	-2.66228E-02	8.25360E-03	5.35247E-02	2.95740E	7.94157E	01
2.90	8.33985E-01	2.17664E	-2.72507E-02	7.91261E-03	5.44756E-02	3.05235E	8.18721E	01
3.00	8.34490E-01	2.26870E	-2.78307E-02	7.59385E-03	5.53722E-02	3.14709E	8.43025E	01
3.10	8.34943E-01	2.36080E	-2.83628E-02	7.29522E-03	5.62151E-02	3.24164E	8.67072E	01
3.20	8.35349E-01	2.45293E	-2.88467E-02	7.01485E-03	5.70045E-02	3.33602E	8.90867E	01
3.30	8.35716E-01	2.54509E	-2.92824E-02	6.75113E-03	5.77411E-02	3.43025E	9.14412E	01
3.40	8.36047E-01	2.63727E	-2.96697E-02	6.50263E-03	5.84251E-02	3.52435E	9.37714E	01
3.50	8.36346E-01	2.72947E	-3.00085E-02	6.26804E-03	5.90569E-02	3.61832E	9.60773E	01
3.60	8.36617E-01	2.82169E	-3.02987E-02	6.04626E-03	5.96367E-02	3.71217E	9.83596E	01
3.70	8.36862E-01	2.91391E	-3.05403E-02	5.83623E-03	6.01647E-02	3.80592E	1.00618E	02
3.80	8.37085E-01	3.00615E	-3.07332E-02	5.63708E-03	6.06414E-02	3.89958E	1.02854E	02
3.90	8.37287E-01	3.09840E	-3.08773E-02	5.44795E-03	6.10667E-02	3.99315E	1.05067E	02
4.00	8.37472E-01	3.19066E	-3.09726E-02	5.26813E-03	6.14410E-02	4.08664E	1.07258E	02
4.10	8.37641E-01	3.28292E	-3.10191E-02	5.09695E-03	6.17643E-02	4.18007E	1.09427E	02
4.20	8.37794E-01	3.37519E	-3.10167E-02	4.93378E-03	6.20368E-02	4.27342E	1.11574E	02
4.30	8.37934E-01	3.46747E	-3.09655E-02	4.77810E-03	6.22587E-02	4.36672E	1.13700E	02
4.40	8.38061E-01	3.55974E	-3.08653E-02	4.62939E-03	6.24301E-02	4.45997E	1.15805E	02
4.50	8.38178E-01	3.65203E	-3.07162E-02	4.48719E-03	6.25511E-02	4.55316E	1.17889E	02
4.60	8.38285E-01	3.74431E	-3.05182E-02	4.35109E-03	6.26217E-02	4.64631E	1.19953E	02
4.70	8.38382E-01	3.83660E	-3.02711E-02	4.22071E-03	6.26421E-02	4.73941E	1.21997E	02
4.80	8.38471E-01	3.92889E	-2.99751E-02	4.09571E-03	6.26124E-02	4.83248E	1.24022E	02
4.90	8.38552E-01	4.02119E	-2.96302E-02	3.97574E-03	6.25327E-02	4.92552E	1.26027E	02
5.00	8.38627E-01	4.11349E	-2.92362E-02	3.86051E-03	6.24029E-02	5.01852E	1.28013E	02
5.10	8.38695E-01	4.20579E	-2.87931E-02	3.74975E-03	6.22232E-02	5.11149E	1.29980E	02
5.20	8.38756E-01	4.29809E	-2.83011E-02	3.64322E-03	6.19935E-02	5.20443E	1.31928E	02
5.30	8.38813E-01	4.39040E	-2.77600E-02	3.54065E-03	6.17141E-02	5.29736E	1.33859E	02
5.40	8.38864E-01	4.48271E	-2.71699E-02	3.44185E-03	6.13849E-02	5.39025E	1.35771E	02
5.50	8.38911E-01	4.57503E	-2.65308E-02	3.34661E-03	6.10059E-02	5.48313E	1.37665E	02
5.60	8.38953E-01	4.66735E	-2.58425E-02	3.25475E-03	6.05772E-02	5.57599E	1.39543E	02
5.70	8.38992E-01	4.75967E	-2.51053E-02	3.16608E-03	6.00989E-02	5.66884E	1.41403E	02
5.80	8.39027E-01	4.85200E	-2.43189E-02	3.08045E-03	5.95709E-02	5.76167E	1.43246E	02
5.90	8.39058E-01	4.94433E	-2.34835E-02	2.99771E-03	5.89933E-02	5.85448E	1.45073E	02
6.00	8.39087E-01	5.03667E	-2.25990E-02	2.91770E-03	5.83661E-02	5.94729E	1.46883E	02

## ELECTRON RADIAL FUNCTIONS

 $Z=8$  $A=17$  $\rho=1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	2.29406E-09	6.99883E-07	-7.09727E-09	-1.64235E 00	1.80457E-07	1.35305E-05	2.69151E-01
0.20	2.66829E-08	9.19372E-06	-9.30126E-08	-3.54207E 00	1.22425E-06	9.19558E-05	1.30977E-01
0.30	8.32183E-08	3.57020E-05	-3.59813E-07	-5.29028E 00	3.21500E-06	2.42190E-04	9.00713E-02
0.40	1.72676E-07	8.91335E-05	-8.93607E-07	-6.91446E 00	6.10408E-06	4.61664E-04	7.09026E-02
0.50	2.94708E-07	1.76689E-04	-1.75982E-06	-8.40878E 00	9.83078E-06	7.47225E-04	6.01270E-02
0.60	4.48824E-07	3.03860E-04	-3.00304E-06	-9.76956E 00	1.43315E-05	1.09573E-03	5.34435E-02
0.70	6.34566E-07	4.74618E-04	-4.64931E-06	-1.09985E 01	1.95445E-05	1.50431E-03	4.90365E-02
0.80	8.51547E-07	6.91699E-04	-6.70951E-06	-1.21017E 01	2.54123E-05	1.97049E-03	4.60075E-02
0.90	1.09945E-06	9.56906E-04	-9.18301E-06	-1.30883E 01	3.18829E-05	2.49222E-03	4.38628E-02
1.00	1.37803E-06	1.27137E-03	-1.20608E-05	-1.39688E 01	3.89096E-05	3.06788E-03	4.23104E-02
1.10	1.68709E-06	1.63574E-03	-1.53282E-05	-1.47541E 01	4.64505E-05	3.69617E-03	4.11678E-02
1.20	2.02647E-06	2.05039E-03	-1.89665E-05	-1.54550E 01	5.44678E-05	4.37613E-03	4.03161E-02
1.30	2.39605E-06	2.51546E-03	-2.29546E-05	-1.60813E 01	6.29272E-05	5.10699E-03	3.96753E-02
1.40	2.79573E-06	3.03099E-03	-2.72697E-05	-1.66420E 01	7.17967E-05	5.88818E-03	3.91900E-02
1.50	3.22543E-06	3.59692E-03	-3.18881E-05	-1.71453E 01	8.10466E-05	6.71929E-03	3.88212E-02
1.60	3.68510E-06	4.21319E-03	-3.67857E-05	-1.75982E 01	9.06486E-05	7.59999E-03	3.85406E-02
1.70	4.17468E-06	4.87967E-03	-4.19378E-05	-1.80068E 01	1.00576E-04	8.53003E-03	3.83276E-02
1.80	4.69414E-06	5.59626E-03	-4.73199E-05	-1.83766E 01	1.10802E-04	9.50926E-03	3.81669E-02
1.90	5.24344E-06	6.36285E-03	-5.29072E-05	-1.87122E 01	1.21301E-04	1.05375E-02	3.80468E-02
2.00	5.82256E-06	7.17932E-03	-5.86752E-05	-1.90177E 01	1.32049E-04	1.16147E-02	3.79587E-02
2.10	6.43147E-06	8.04558E-03	-6.45992E-05	-1.92965E 01	1.43021E-04	1.27408E-02	3.78958E-02
2.20	7.07016E-06	8.96153E-03	-7.06547E-05	-1.95517E 01	1.54193E-04	1.39156E-02	3.78528E-02
2.30	7.73861E-06	9.92709E-03	-7.68175E-05	-1.97859E 01	1.65540E-04	1.51392E-02	3.78257E-02
2.40	8.43681E-06	1.09422E-02	-8.30632E-05	-2.00013E 01	1.77039E-04	1.64116E-02	3.78113E-02
2.50	9.16474E-06	1.20067E-02	-8.93676E-05	-2.02001E 01	1.88666E-04	1.77327E-02	3.78070E-02
2.60	9.92241E-06	1.31207E-02	-9.57066E-05	-2.03839E 01	2.00398E-04	1.91025E-02	3.78108E-02
2.70	1.07098E-05	1.42840E-02	-1.02056E-04	-2.05542E 01	2.12210E-04	2.05210E-02	3.78211E-02
2.80	1.15269E-05	1.54966E-02	-1.08392E-04	-2.07123E 01	2.24079E-04	2.19882E-02	3.78365E-02
2.90	1.23737E-05	1.67584E-02	-1.14691E-04	-2.08595E 01	2.35982E-04	2.35041E-02	3.78561E-02
3.00	1.32502E-05	1.80695E-02	-1.20928E-04	-2.09968E 01	2.47896E-04	2.50686E-02	3.78788E-02
3.10	1.41564E-05	1.94297E-02	-1.27081E-04	-2.11251E 01	2.59796E-04	2.66819E-02	3.79042E-02
3.20	1.50923E-05	2.08391E-02	-1.33124E-04	-2.12452E 01	2.71660E-04	2.83438E-02	3.79315E-02
3.30	1.60578E-05	2.22976E-02	-1.39035E-04	-2.13578E 01	2.83465E-04	3.00545E-02	3.79603E-02
3.40	1.70531E-05	2.38052E-02	-1.44790E-04	-2.14635E 01	2.95186E-04	3.18138E-02	3.79903E-02
3.50	1.80780E-05	2.53619E-02	-1.50364E-04	-2.15630E 01	3.06800E-04	3.36218E-02	3.80210E-02
3.60	1.91326E-05	2.69676E-02	-1.55736E-04	-2.16568E 01	3.18285E-04	3.54786E-02	3.80524E-02
3.70	2.02169E-05	2.86223E-02	-1.60879E-04	-2.17453E 01	3.29616E-04	3.73840E-02	3.80840E-02
3.80	2.13309E-05	3.03260E-02	-1.65773E-04	-2.18289E 01	3.40771E-04	3.93382E-02	3.81159E-02
3.90	2.24745E-05	3.20787E-02	-1.70391E-04	-2.19080E 01	3.51726E-04	4.13410E-02	3.81478E-02
4.00	2.36478E-05	3.38804E-02	-1.74712E-04	-2.19830E 01	3.62458E-04	4.33927E-02	3.81795E-02
4.10	2.48507E-05	3.57311E-02	-1.78711E-04	-2.20541E 01	3.72942E-04	4.54930E-02	3.82112E-02
4.20	2.60833E-05	3.76307E-02	-1.82365E-04	-2.21217E 01	3.83157E-04	4.76420E-02	3.82425E-02
4.30	2.73456E-05	3.95792E-02	-1.85651E-04	-2.21859E 01	3.93079E-04	4.98398E-02	3.82735E-02
4.40	2.86375E-05	4.15767E-02	-1.88545E-04	-2.22471E 01	4.02683E-04	5.20863E-02	3.83042E-02
4.50	2.99591E-05	4.36232E-02	-1.91023E-04	-2.23054E 01	4.11948E-04	5.43815E-02	3.83344E-02
4.60	3.13103E-05	4.57185E-02	-1.93061E-04	-2.23610E 01	4.20850E-04	5.67255E-02	3.83643E-02
4.70	3.26912E-05	4.78627E-02	-1.94638E-04	-2.24141E 01	4.29364E-04	5.91182E-02	3.83936E-02
4.80	3.41018E-05	5.00558E-02	-1.95728E-04	-2.24648E 01	4.37468E-04	6.15597E-02	3.84225E-02
4.90	3.55420E-05	5.22978E-02	-1.96309E-04	-2.25133E 01	4.45139E-04	6.40499E-02	3.84508E-02
5.00	3.70118E-05	5.45887E-02	-1.96356E-04	-2.25598E 01	4.52353E-04	6.65889E-02	3.84787E-02
5.10	3.85113E-05	5.69285E-02	-1.95848E-04	-2.26043E 01	4.59087E-04	6.91766E-02	3.85060E-02
5.20	4.00404E-05	5.93171E-02	-1.94759E-04	-2.26470E 01	4.65317E-04	7.18131E-02	3.85329E-02
5.30	4.15992E-05	6.17546E-02	-1.93068E-04	-2.26880E 01	4.71021E-04	7.44984E-02	3.85592E-02
5.40	4.31876E-05	6.42409E-02	-1.90749E-04	-2.27274E 01	4.76173E-04	7.72324E-02	3.85850E-02
5.50	4.48057E-05	6.67762E-02	-1.87780E-04	-2.27653E 01	4.80753E-04	8.00152E-02	3.86103E-02
5.60	4.64534E-05	6.93602E-02	-1.84137E-04	-2.28017E 01	4.84735E-04	8.28467E-02	3.86351E-02
5.70	4.81307E-05	7.19931E-02	-1.79798E-04	-2.28367E 01	4.88096E-04	8.57270E-02	3.86594E-02
5.80	4.98377E-05	7.46748E-02	-1.74738E-04	-2.28705E 01	4.90814E-04	8.86561E-02	3.86833E-02
5.90	5.15744E-05	7.74053E-02	-1.68934E-04	-2.29030E 01	4.92865E-04	9.16339E-02	3.87066E-02
6.00	5.33406E-05	8.01847E-02	-1.62362E-04	-2.29344E 01	4.94225E-04	9.46606E-02	3.87295E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=8$		$A=17$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	8.39113E-01	5.12901E 00	-2.16654E-02	2.84029E-03	5.76893E-02	6.04008E 00	1.48677E 02	
6.20	8.39136E-01	5.22136E 00	-2.06827E-02	2.76538E-03	5.69631E-02	6.13287E 00	1.50456E 02	
6.30	8.39156E-01	5.31371E 00	-1.96509E-02	2.69283E-03	5.61873E-02	6.22564E 00	1.52218E 02	
6.40	8.39174E-01	5.40606E 00	-1.85700E-02	2.62254E-03	5.53619E-02	6.31841E 00	1.53966E 02	
6.50	8.39190E-01	5.49843E 00	-1.74400E-02	2.55440E-03	5.44871E-02	6.41118E 00	1.55697E 02	
6.60	8.39203E-01	5.59079E 00	-1.62608E-02	2.48831E-03	5.35629E-02	6.50393E 00	1.57414E 02	
6.70	8.39215E-01	5.68317E 00	-1.50325E-02	2.42421E-03	5.25891E-02	6.59669E 00	1.59117E 02	
6.80	8.39226E-01	5.77555E 00	-1.37551E-02	2.36198E-03	5.15660E-02	6.68944E 00	1.60804E 02	
6.90	8.39234E-01	5.87793E 00	-1.24286E-02	2.30155E-03	5.04933E-02	6.78219E 00	1.62478E 02	
7.00	8.39241E-01	5.96032E 00	-1.10529E-02	2.24284E-03	4.93713E-02	6.87494E 00	1.64137E 02	
7.10	8.39247E-01	6.05272E 00	-9.62802E-03	2.18580E-03	4.81998E-02	6.96768E 00	1.65783E 02	
7.20	8.39251E-01	6.14513E 00	-8.15401E-03	2.13033E-03	4.69789E-02	7.06043E 00	1.67414E 02	
7.30	8.39253E-01	6.23754E 00	-6.63082E-03	2.07639E-03	4.57086E-02	7.15318E 00	1.69033E 02	
7.40	8.39255E-01	6.32996E 00	-5.05845E-03	2.02391E-03	4.43888E-02	7.24593E 00	1.70638E 02	
7.50	8.39256E-01	6.42239E 00	-3.43690E-03	1.97283E-03	4.30197E-02	7.33868E 00	1.72230E 02	
7.60	8.39256E-01	6.51482E 00	-1.76616E-03	1.92310E-03	4.16012E-02	7.43143E 00	1.73809E 02	
7.70	8.39255E-01	6.60727E 00	-4.62193E-05	1.87467E-03	4.01333E-02	7.52419E 00	1.75375E 02	
7.80	8.39253E-01	6.69972E 00	1.72293E-03	1.82748E-03	3.86159E-02	7.61695E 00	1.76929E 02	
7.90	8.39250E-01	6.79218E 00	3.54130E-03	1.78149E-03	3.70492E-02	7.70971E 00	1.78470E 02	
8.00	8.39246E-01	6.88464E 00	5.40888E-03	1.73666E-03	3.54330E-02	7.80248E 00	1.79999E 02	
8.10	8.39242E-01	6.97712E 00	7.32571E-03	1.69295E-03	3.37675E-02	7.89525E 00	1.81516E 02	
8.20	8.39236E-01	7.06960E 00	9.29177E-03	1.65030E-03	3.20525E-02	7.98803E 00	1.83021E 02	
8.30	8.39231E-01	7.16210E 00	1.13071E-02	1.60870E-03	3.02882E-02	8.08082E 00	1.84515E 02	
8.40	8.39224E-01	7.25459E 00	1.33716E-02	1.56809E-03	2.84744E-02	8.17360E 00	1.85997E 02	
8.50	8.39217E-01	7.34710E 00	1.54855E-02	1.52845E-03	2.66112E-02	8.26640E 00	1.87468E 02	
8.60	8.39210E-01	7.43961E 00	1.76486E-02	1.48974E-03	2.46986E-02	8.35921E 00	1.88927E 02	
8.70	8.39202E-01	7.53214E 00	1.98609E-02	1.45193E-03	2.27365E-02	8.45202E 00	1.90376E 02	
8.80	8.39193E-01	7.62466E 00	2.21226E-02	1.41499E-03	2.07251E-02	8.54484E 00	1.91814E 02	
8.90	8.39184E-01	7.71720E 00	2.44335E-02	1.37889E-03	1.86642E-02	8.63767E 00	1.93241E 02	
9.00	8.39175E-01	7.80974E 00	2.67938E-02	1.34360E-03	1.65538E-02	8.73050E 00	1.94657E 02	
9.10	8.39166E-01	7.90229E 00	2.92033E-02	1.30910E-03	1.43941E-02	8.82335E 00	1.96064E 02	
9.20	8.39155E-01	7.99482E 00	3.16621E-02	1.27536E-03	1.21848E-02	8.91620E 00	1.97459E 02	
9.30	8.39145E-01	8.08735E 00	3.41701E-02	1.24236E-03	9.92611E-03	9.00906E 00	1.98845E 02	
9.40	8.39134E-01	8.17987E 00	3.67273E-02	1.21007E-03	7.61794E-03	9.10194E 00	2.00220E 02	
9.50	8.39123E-01	8.27240E 00	3.93339E-02	1.17848E-03	5.26029E-03	9.19482E 00	2.01587E 02	
9.60	8.39112E-01	8.36479E 00	4.19891E-02	1.14755E-03	2.85316E-03	9.28771E 00	2.02942E 02	
9.70	8.39100E-01	8.45697E 00	4.46923E-02	1.11729E-03	3.96537E-04	9.38062E 00	2.04289E 02	
9.80	8.39088E-01	8.54832E 00	4.74400E-02	1.08765E-03	-2.10959E-03	9.47353E 00	2.05627E 02	
9.90	8.39076E-01	8.61239E 00	5.00777E-02	1.05862E-03	-4.66523E-03	9.56646E 00	2.06954E 02	
10.00	8.39064E-01	8.73977E 00	5.31346E-02	1.03018E-03	-7.27039E-03	9.65940E 00	2.08273E 02	
10.10	8.39051E-01	8.83072E 00	5.60281E-02	1.00232E-03	-9.92508E-03	9.75234E 00	2.09583E 02	
10.20	8.39039E-01	8.92287E 00	5.89780E-02	9.75019E-04	-1.26293E-02	9.84530E 00	2.10883E 02	
10.30	8.39026E-01	9.01531E 00	6.19789E-02	9.48266E-04	-1.53831E-02	9.93828E 00	2.12175E 02	
10.40	8.39013E-01	9.10790E 00	6.50301E-02	9.22047E-04	-1.81864E-02	1.00313E 01	2.13459E 02	
10.50	8.39000E-01	9.20056E 00	6.81312E-02	8.96325E-04	-2.10394E-02	1.01243E 01	2.14733E 02	
10.60	8.38987E-01	9.29324E 00	7.12819E-02	8.71114E-04	-2.39419E-02	1.02173E 01	2.16000E 02	
10.70	8.38973E-01	9.38597E 00	7.44822E-02	8.46385E-04	-2.68939E-02	1.03103E 01	2.17257E 02	
10.80	8.38960E-01	9.47872E 00	7.77322E-02	8.22140E-04	-2.98957E-02	1.04033E 01	2.18508E 02	
10.90	8.38946E-01	9.57149E 00	8.10316E-02	7.98343E-04	-3.29470E-02	1.04964E 01	2.19749E 02	
11.00	8.38932E-01	9.66428E 00	8.43807E-02	7.74993E-04	-3.60479E-02	1.05894E 01	2.20983E 02	
11.10	8.38918E-01	9.75708E 00	8.77794E-02	7.52088E-04	-3.91985E-02	1.06825E 01	2.22098E 02	
11.20	8.38904E-01	9.84992E 00	9.12278E-02	7.29601E-04	-4.23987E-02	1.07756E 01	2.23427E 02	
11.30	8.38890E-01	9.94276E 00	9.47257E-02	7.07525E-04	-4.56487E-02	1.08687E 01	2.24637E 02	
11.40	8.38876E-01	1.00356E 01	9.82732E-02	6.85855E-04	-4.89483E-02	1.09618E 01	2.25840E 02	
11.50	8.38862E-01	1.01285E 01	1.01871E-01	6.64575E-04	-5.22976E-02	1.10550E 01	2.27035E 02	
11.60	8.38848E-01	1.02214E 01	1.05517E-01	6.43679E-04	-5.56966E-02	1.11481E 01	2.28223E 02	
11.70	8.38834E-01	1.03143E 01	1.09214E-01	6.23163E-04	-5.91453E-02	1.12413E 01	2.29404E 02	
11.80	8.38819E-01	1.04072E 01	1.12960E-01	6.03003E-04	-6.26437E-02	1.13344E 01	2.30578E 02	
11.90	8.38805E-01	1.05001E 01	1.16756E-01	5.83200E-04	-6.61919E-02	1.14276E 01	2.31745E 02	
12.00	8.38791E-01	1.05931E 01	1.20602E-01	5.63739E-04	-6.97899E-02	1.15208E 01	2.32904E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z=8$  $A=17$  $\rho=1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	5.51365E-05	8.30128E-02	-1.55000E-04	-2.29646E 01	4.94872E-04	9.77360E-02	3.87519E-02
6.20	5.69620E-05	8.58897E-02	-1.46823E-04	-2.29939E 01	4.94780E-04	1.00860E-01	3.87738E-02
6.30	5.88172E-05	8.88155E-02	-1.37809E-04	-2.30221E 01	4.93929E-04	1.04033E-01	3.87953E-02
6.40	6.07020E-05	9.17899E-02	-1.27934E-04	-2.30494E 01	4.92293E-04	1.07255E-01	3.88164E-02
6.50	6.26164E-05	9.48131E-02	-1.17174E-04	-2.30758E 01	4.89849E-04	1.10525E-01	3.88371E-02
6.60	6.45605E-05	9.78852E-02	-1.05507E-04	-2.31014E 01	4.86575E-04	1.13845E-01	3.88573E-02
6.70	6.65342E-05	1.01006E-01	-9.29084E-05	-2.31261E 01	4.82447E-04	1.17213E-01	3.88771E-02
6.80	6.85376E-05	1.04175E-01	-7.93551E-05	-2.31501E 01	4.77441E-04	1.20630E-01	3.88965E-02
6.90	7.05705E-05	1.07393E-01	-6.48239E-05	-2.31733E 01	4.71534E-04	1.24095E-01	3.89156E-02
7.00	7.26330E-05	1.10659E-01	-4.92913E-05	-2.31958E 01	4.64702E-04	1.27610E-01	3.89342E-02
7.10	7.47253E-05	1.13974E-01	-3.27343E-05	-2.32176E 01	4.56923E-04	1.31173E-01	3.89525E-02
7.20	7.68471E-05	1.17337E-01	-1.51294E-05	-2.32388E 01	4.48172E-04	1.34785E-01	3.89705E-02
7.30	7.89986E-05	1.20749E-01	3.54647E-06	-2.32594E 01	4.38427E-04	1.38446E-01	3.89880E-02
7.40	8.11797E-05	1.24208E-01	2.33163E-05	-2.32794E 01	4.27664E-04	1.42155E-01	3.90053E-02
7.50	8.33904E-05	1.27714E-01	4.42029E-05	-2.32988E 01	4.15860E-04	1.45914E-01	3.90222E-02
7.60	8.56307E-05	1.31266E-01	6.62282E-05	-2.33176E 01	4.02991E-04	1.49721E-01	3.90388E-02
7.70	8.79007E-05	1.34862E-01	8.94129E-05	-2.33360E 01	3.89034E-04	1.53577E-01	3.90550E-02
7.80	9.02003E-05	1.38498E-01	1.13775E-04	-2.33538E 01	3.73965E-04	1.57481E-01	3.90710E-02
7.90	9.25295E-05	1.42154E-01	1.39313E-04	-2.33712E 01	3.57762E-04	1.61435E-01	3.90866E-02
8.00	9.48883E-05	1.45710E-01	1.65902E-04	-2.33881E 01	3.40400E-04	1.65437E-01	3.91020E-02
8.10	9.72768E-05	1.50696E-01	1.95477E-04	-2.34045E 01	3.21856E-04	1.69488E-01	3.91171E-02
8.20	9.96949E-05	1.53899E-01	2.24043E-04	-2.34205E 01	3.02108E-04	1.73588E-01	3.91319E-02
8.30	1.02143E-04	1.57720E-01	2.54627E-04	-2.34361E 01	2.81131E-04	1.77737E-01	3.91464E-02
8.40	1.04620E-04	1.61639E-01	2.86603E-04	-2.34513E 01	2.58902E-04	1.81934E-01	3.91606E-02
8.50	1.07127E-04	1.65623E-01	3.19950E-04	-2.34662E 01	2.35397E-04	1.86180E-01	3.91746E-02
8.60	1.09663E-04	1.69662E-01	3.54684E-04	-2.34806E 01	2.10594E-04	1.90475E-01	3.91884E-02
8.70	1.12229E-04	1.73753E-01	3.90819E-04	-2.34948E 01	1.84470E-04	1.94819E-01	3.92019E-02
8.80	1.14825E-04	1.77895E-01	4.28381E-04	-2.35085E 01	1.56999E-04	1.99212E-01	3.92151E-02
8.90	1.17451E-04	1.82087E-01	4.67391E-04	-2.35220E 01	1.28160E-04	2.03653E-01	3.92282E-02
9.00	1.20106E-04	1.86329E-01	5.07871E-04	-2.35351E 01	9.79286E-05	2.08143E-01	3.92410E-02
9.10	1.22790E-04	1.90620E-01	5.49846E-04	-2.35479E 01	6.62815E-05	2.12682E-01	3.92535E-02
9.20	1.25504E-04	1.94961E-01	5.93339E-04	-2.35604E 01	3.31955E-05	2.17270E-01	3.92659E-02
9.30	1.28248E-04	1.99350E-01	6.38370E-04	-2.35727E 01	-1.35298E-06	2.21907E-01	3.92780E-02
9.40	1.31022E-04	2.03789E-01	6.84967E-04	-2.35846E 01	-3.73873E-05	2.26592E-01	3.92900E-02
9.50	1.33825E-04	2.08276E-01	7.33149E-04	-2.35963E 01	-7.49308E-05	2.31326E-01	3.93017E-02
9.60	1.36658E-04	2.12813E-01	7.82943E-04	-2.36078E 01	-1.14007E-04	2.36109E-01	3.93132E-02
9.70	1.39520E-04	2.17398E-01	8.34370E-04	-2.36189E 01	-1.54639E-04	2.40941E-01	3.93246E-02
9.80	1.42412E-04	2.22033E-01	8.87456E-04	-2.36299E 01	-1.96850E-04	2.45821E-01	3.93357E-02
9.90	1.45333E-04	2.26716E-01	9.42220E-04	-2.36406E 01	-2.40665E-04	2.50750E-01	3.93467E-02
10.00	1.48284E-04	2.31449E-01	9.98691E-04	-2.36511E 01	-2.86105E-04	2.55728E-01	3.93575E-02
10.10	1.51265E-04	2.36230E-01	1.05689E-03	-2.36613E 01	-3.33195E-04	2.60755E-01	3.93681E-02
10.20	1.54276E-04	2.41060E-01	1.11684E-03	-2.36714E 01	-3.81958E-04	2.65831E-01	3.93786E-02
10.30	1.57316E-04	2.45938E-01	1.17856E-03	-2.36812E 01	-4.32418E-04	2.70955E-01	3.93888E-02
10.40	1.60385E-04	2.50866E-01	1.24208E-03	-2.36909E 01	-4.84597E-04	2.76128E-01	3.93989E-02
10.50	1.63484E-04	2.55842E-01	1.30741E-03	-2.37003E 01	-5.38519E-04	2.81350E-01	3.94089E-02
10.60	1.66613E-04	2.60868E-01	1.37460E-03	-2.37096E 01	-5.94207E-04	2.86621E-01	3.94187E-02
10.70	1.69771E-04	2.65942E-01	1.44365E-03	-2.37186E 01	-6.51686E-04	2.91940E-01	3.94283E-02
10.80	1.72959E-04	2.71065E-01	1.51460E-03	-2.37275E 01	-7.10978E-04	2.97309E-01	3.94378E-02
10.90	1.76177E-04	2.76236E-01	1.58745E-03	-2.37362E 01	-7.72107E-04	3.02726E-01	3.94472E-02
11.00	1.79424E-04	2.81457E-01	1.66225E-03	-2.37448E 01	-8.35096E-04	3.08192E-01	3.94564E-02
11.10	1.82701E-04	2.86726E-01	1.73900E-03	-2.37532E 01	-8.99968E-04	3.13706E-01	3.94655E-02
11.20	1.86007E-04	2.92045E-01	1.81775E-03	-2.37614E 01	-9.66747E-04	3.19270E-01	3.94744E-02
11.30	1.89343E-04	2.97412E-01	1.89850E-03	-2.37695E 01	-1.03546E-03	3.24882E-01	3.94832E-02
11.40	1.92709E-04	3.02827E-01	1.98128E-03	-2.37774E 01	-1.10612E-03	3.30542E-01	3.94919E-02
11.50	1.96104E-04	3.08292E-01	2.06611E-03	-2.37852E 01	-1.17876E-03	3.36252E-01	3.95004E-02
11.60	1.99529E-04	3.13805E-01	2.15302E-03	-2.37929E 01	-1.25340E-03	3.42010E-01	3.95088E-02
11.70	2.02983E-04	3.19367E-01	2.24204E-03	-2.38004E 01	-1.33006E-03	3.47818E-01	3.95171E-02
11.80	2.06467E-04	3.24978E-01	2.33318E-03	-2.38077E 01	-1.40878E-03	3.53674E-01	3.95253E-02
11.90	2.09981E-04	3.30638E-01	2.42647E-03	-2.38150E 01	-1.48956E-03	3.59578E-01	3.95333E-02
12.00	2.13524E-04	3.36346E-01	2.52193E-03	-2.38221E 01	-1.57244E-03	3.65532E-01	3.95413E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=8$		$A=17$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	8.38776E-01	1.06861E 01	1.24497E-01	5.44616E-04	-7.34378E-02	1.16141E 01	2.34057E 02	
12.20	8.38762E-01	1.07791E 01	1.28442E-01	5.25825E-04	-7.71354E-02	1.17073E 01	2.35203E 02	
12.30	8.38747E-01	1.08721E 01	1.32437E-01	5.07357E-04	-8.08827E-02	1.18006E 01	2.36342E 02	
12.40	8.38733E-01	1.09651E 01	1.36481E-01	4.89199E-04	-8.46799E-02	1.18938E 01	2.37475E 02	
12.50	8.38719E-01	1.10581E 01	1.40576E-01	4.71357E-04	-8.85269E-02	1.19871E 01	2.38602E 02	
12.60	8.38704E-01	1.11512E 01	1.44720E-01	4.53809E-04	-9.24237E-02	1.20804E 01	2.39722E 02	
12.70	8.38689E-01	1.12442E 01	1.48914E-01	4.36558E-04	-9.63705E-02	1.21737E 01	2.40836E 02	
12.80	8.38675E-01	1.13373E 01	1.53158E-01	4.19586E-04	-1.00367E-01	1.22671E 01	2.41943E 02	
12.90	8.38660E-01	1.14304E 01	1.57452E-01	4.02902E-04	-1.04414E-01	1.23604E 01	2.43044E 02	
13.00	8.38646E-01	1.15235E 01	1.61795E-01	3.86483E-04	-1.08510E-01	1.24538E 01	2.44139E 02	
13.10	8.38631E-01	1.16167E 01	1.66188E-01	3.70335E-04	-1.12656E-01	1.25472E 01	2.45229E 02	
13.20	8.38616E-01	1.17098E 01	1.70632E-01	3.54445E-04	-1.16853E-01	1.26406E 01	2.46312E 02	
13.30	8.38601E-01	1.18030E 01	1.75125E-01	3.38818E-04	-1.21099E-01	1.27340E 01	2.47390E 02	
13.40	8.38587E-01	1.18962E 01	1.79668E-01	3.23432E-04	-1.25395E-01	1.28274E 01	2.48461E 02	
13.50	8.38572E-01	1.19894E 01	1.84261E-01	3.08292E-04	-1.29741E-01	1.29209E 01	2.49527E 02	
13.60	8.38558E-01	1.20826E 01	1.88904E-01	2.93408E-04	-1.34138E-01	1.30144E 01	2.50589E 02	
13.70	8.38543E-01	1.21758E 01	1.93597E-01	2.78745E-04	-1.38584E-01	1.31079E 01	2.51644E 02	
13.80	8.38528E-01	1.22691E 01	1.98340E-01	2.64308E-04	-1.43080E-01	1.32014E 01	2.52693E 02	
13.90	8.38514E-01	1.23623E 01	2.03133E-01	2.50102E-04	-1.47627E-01	1.32949E 01	2.53738E 02	
14.00	8.38499E-01	1.24556E 01	2.07976E-01	2.36115E-04	-1.52223E-01	1.33884E 01	2.54777E 02	
14.10	8.38485E-01	1.25489E 01	2.12869E-01	2.22340E-04	-1.56870E-01	1.34820E 01	2.55811E 02	
14.20	8.38470E-01	1.26422E 01	2.17812E-01	2.08783E-04	-1.61566E-01	1.35756E 01	2.56840E 02	
14.30	8.38456E-01	1.27356E 01	2.22806E-01	1.95423E-04	-1.66313E-01	1.36692E 01	2.57863E 02	
14.40	8.38442E-01	1.28289E 01	2.27849E-01	1.82271E-04	-1.71110E-01	1.37628E 01	2.58882E 02	
14.50	8.38427E-01	1.29223E 01	2.32943E-01	1.69329E-04	-1.75957E-01	1.38564E 01	2.59897E 02	
14.60	8.38413E-01	1.30157E 01	2.38086E-01	1.56561E-04	-1.80855E-01	1.39501E 01	2.60905E 02	
14.70	8.38399E-01	1.31091E 01	2.43280E-01	1.43994E-04	-1.85802E-01	1.40438E 01	2.61909E 02	
14.80	8.38384E-01	1.32026E 01	2.48524E-01	1.31620E-04	-1.90800E-01	1.41375E 01	2.62909E 02	
14.90	8.38370E-01	1.32960E 01	2.53818E-01	1.19425E-04	-1.95848E-01	1.42312E 01	2.63904E 02	
15.00	8.38356E-01	1.33895E 01	2.59162E-01	1.07406E-04	-2.00947E-01	1.43249E 01	2.64895E 02	
15.10	8.38341E-01	1.34830E 01	2.64557E-01	9.55737E-05	-2.06095E-01	1.44187E 01	2.65881E 02	
15.20	8.38327E-01	1.35765E 01	2.70002E-01	8.39055E-05	-2.11294E-01	1.45124E 01	2.66862E 02	
15.30	8.38313E-01	1.36700E 01	2.75497E-01	7.24046E-05	-2.16543E-01	1.46062E 01	2.67839E 02	
15.40	8.38299E-01	1.37635E 01	2.81042E-01	6.10745E-05	-2.21843E-01	1.47000E 01	2.68812E 02	
15.50	8.38285E-01	1.38571E 01	2.86638E-01	4.99157E-05	-2.27193E-01	1.47939E 01	2.69781E 02	
15.60	8.38271E-01	1.39507E 01	2.92284E-01	3.89082E-05	-2.32593E-01	1.48877E 01	2.70745E 02	
15.70	8.38257E-01	1.40443E 01	2.97981E-01	2.80629E-05	-2.38044E-01	1.49816E 01	2.71705E 02	
15.80	8.38243E-01	1.41379E 01	3.03727E-01	1.73645E-05	-2.43545E-01	1.50755E 01	2.72660E 02	
15.90	8.38229E-01	1.42315E 01	3.09524E-01	6.82891E-06	-2.49097E-01	1.51694E 01	2.73613E 02	
16.00	8.38215E-01	1.43252E 01	3.15372E-01	-3.55979E-06	-2.54699E-01	1.52633E 01	2.74561E 02	
16.10	8.38201E-01	1.44189E 01	3.21270E-01	-1.38029E-05	-2.60351E-01	1.53573E 01	2.75505E 02	
16.20	8.38187E-01	1.45126E 01	3.27219E-01	-2.39005E-05	-2.66055E-01	1.54513E 01	2.76446E 02	
16.30	8.38173E-01	1.46063E 01	3.33217E-01	-3.38567E-05	-2.71808E-01	1.55453E 01	2.77382E 02	
16.40	8.38160E-01	1.47000E 01	3.39267E-01	-4.36840E-05	-2.77612E-01	1.56393E 01	2.78314E 02	
16.50	8.38146E-01	1.47938E 01	3.45367E-01	-5.33585E-05	-2.83467E-01	1.57333E 01	2.79244E 02	
16.60	8.38132E-01	1.48876E 01	3.51517E-01	-6.29054E-05	-2.89372E-01	1.58274E 01	2.80170E 02	
16.70	8.38118E-01	1.49814E 01	3.57718E-01	-7.23256E-05	-2.95328E-01	1.59215E 01	2.81091E 02	
16.80	8.38105E-01	1.50752E 01	3.63970E-01	-8.16066E-05	-3.01335E-01	1.60156E 01	2.82010E 02	
16.90	8.38091E-01	1.51690E 01	3.70272E-01	-9.07729E-05	-3.07392E-01	1.61097E 01	2.82924E 02	
17.00	8.38078E-01	1.52629E 01	3.76625E-01	-9.97920E-05	-3.13500E-01	1.62039E 01	2.83837E 02	
17.10	8.38064E-01	1.53568E 01	3.83029E-01	-1.08701E-04	-3.19659E-01	1.62980E 01	2.84745E 02	
17.20	8.38051E-01	1.54507E 01	3.89483E-01	-1.17482E-04	-3.25868E-01	1.63922E 01	2.85650E 02	
17.30	8.38037E-01	1.55446E 01	3.95988E-01	-1.26157E-04	-3.32128E-01	1.64864E 01	2.86551E 02	
17.40	8.38024E-01	1.56386E 01	4.02544E-01	-1.34710E-04	-3.38440E-01	1.65807E 01	2.87449E 02	
17.50	8.38011E-01	1.57325E 01	4.09150E-01	-1.43138E-04	-3.44801E-01	1.66749E 01	2.88345E 02	
17.60	8.37998E-01	1.58265E 01	4.15807E-01	-1.51457E-04	-3.51214E-01	1.67692E 01	2.89237E 02	
17.70	8.37985E-01	1.59205E 01	4.22515E-01	-1.59657E-04	-3.57677E-01	1.68635E 01	2.90127E 02	
17.80	8.37971E-01	1.60146E 01	4.29274E-01	-1.67767E-04	-3.64191E-01	1.69579E 01	2.91012E 02	
17.90	8.37958E-01	1.61086E 01	4.36083E-01	-1.75752E-04	-3.70757E-01	1.70522E 01	2.91895E 02	
18.00	8.37945E-01	1.62027E 01	4.42943E-01	-1.83632E-04	-3.77373E-01	1.71466E 01	2.92776E 02	

## ELECTRON RADIAL FUNCTIONS

	$Z=8$	$A=17$	$\rho=1.2A^{1/3}F$				Positron
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	2.17097E-04	3.42104E-01	2.61959E-03	-2.38291E 01	-1.65743E-03	3.71534E-01	3.95491E-02
12.20	2.20699E-04	3.47910E-01	2.71946E-03	-2.38359E 01	-1.74457E-03	3.77585E-01	3.95568E-02
12.30	2.24331E-04	3.53765E-01	2.82158E-03	-2.38427E 01	-1.83387E-03	3.83685E-01	3.95644E-02
12.40	2.27993E-04	3.59668E-01	2.92596E-03	-2.38493E 01	-1.92535E-03	3.89833E-01	3.95719E-02
12.50	2.31684E-04	3.65621E-01	3.03263E-03	-2.38558E 01	-2.01905E-03	3.96031E-01	3.95793E-02
12.60	2.35405E-04	3.71622E-01	3.14162E-03	-2.38623E 01	-2.11498E-03	4.02277E-01	3.95866E-02
12.70	2.39156E-04	3.77671E-01	3.25293E-03	-2.38686E 01	-2.21317E-03	4.08571E-01	3.95938E-02
12.80	2.42936E-04	3.83770E-01	3.36661E-03	-2.38748E 01	-2.31364E-03	4.14915E-01	3.96009E-02
12.90	2.46745E-04	3.89971E-01	3.48267E-03	-2.38809E 01	-2.41641E-03	4.21307E-01	3.96079E-02
13.00	2.50584E-04	3.96114E-01	3.60113E-03	-2.38869E 01	-2.52152E-03	4.27748E-01	3.96148E-02
13.10	2.54453E-04	4.02358E-01	3.72202E-03	-2.38928E 01	-2.62897E-03	4.34238E-01	3.96216E-02
13.20	2.58352E-04	4.08652E-01	3.84537E-03	-2.38986E 01	-2.73880E-03	4.40776E-01	3.96284E-02
13.30	2.62280E-04	4.14994E-01	3.97119E-03	-2.39043E 01	-2.85103E-03	4.47363E-01	3.96350E-02
13.40	2.66237E-04	4.21385E-01	4.09951E-03	-2.39099E 01	-2.96567E-03	4.53999E-01	3.96416E-02
13.50	2.70224E-04	4.27825E-01	4.23036E-03	-2.39155E 01	-3.08277E-03	4.60684E-01	3.96480E-02
13.60	2.74241E-04	4.34314E-01	4.36374E-03	-2.39209E 01	-3.20233E-03	4.67417E-01	3.96544E-02
13.70	2.78287E-04	4.40851E-01	4.49970E-03	-2.39263E 01	-3.32438E-03	4.74199E-01	3.96607E-02
13.80	2.82363E-04	4.47437E-01	4.63825E-03	-2.39316E 01	-3.44895E-03	4.81030E-01	3.96669E-02
13.90	2.86469E-04	4.54072E-01	4.77941E-03	-2.39368E 01	-3.57605E-03	4.87909E-01	3.96731E-02
14.00	2.90604E-04	4.60756E-01	4.92322E-03	-2.39420E 01	-3.70572E-03	4.94838E-01	3.96792E-02
14.10	2.94769E-04	4.67488E-01	5.06969E-03	-2.39470E 01	-3.83797E-03	5.01815E-01	3.96852E-02
14.20	2.98963E-04	4.74269E-01	5.21884E-03	-2.39520E 01	-3.97283E-03	5.08840E-01	3.96911E-02
14.30	3.03187E-04	4.81099E-01	5.37071E-03	-2.39569E 01	-4.11032E-03	5.15915E-01	3.96969E-02
14.40	3.07441E-04	4.87977E-01	5.52531E-03	-2.39617E 01	-4.25047E-03	5.23038E-01	3.97027E-02
14.50	3.11724E-04	4.94904E-01	5.68266E-03	-2.39665E 01	-4.39329E-03	5.30210E-01	3.97084E-02
14.60	3.16036E-04	5.01881E-01	5.84280E-03	-2.39712E 01	-4.53882E-03	5.37430E-01	3.97140E-02
14.70	3.20379E-04	5.08905E-01	6.00573E-03	-2.39758E 01	-4.68707E-03	5.44700E-01	3.97196E-02
14.80	3.24750E-04	5.15978E-01	6.17149E-03	-2.39804E 01	-4.83807E-03	5.52017E-01	3.97251E-02
14.90	3.29152E-04	5.23100E-01	6.34010E-03	-2.39849E 01	-4.99184E-03	5.59384E-01	3.97305E-02
15.00	3.33583E-04	5.30271E-01	6.51158E-03	-2.39894E 01	-5.14841E-03	5.66799E-01	3.97359E-02
15.10	3.38043E-04	5.37490E-01	6.68597E-03	-2.39937E 01	-5.30779E-03	5.74263E-01	3.97412E-02
15.20	3.42534E-04	5.44758E-01	6.86326E-03	-2.39980E 01	-5.47002E-03	5.81776E-01	3.97464E-02
15.30	3.47053E-04	5.52076E-01	7.04351E-03	-2.40023E 01	-5.63512E-03	5.89337E-01	3.97516E-02
15.40	3.51603E-04	5.59441E-01	7.22672E-03	-2.40065E 01	-5.80310E-03	5.96948E-01	3.97567E-02
15.50	3.56182E-04	5.66855E-01	7.41292E-03	-2.40107E 01	-5.97399E-03	6.04606E-01	3.97618E-02
15.60	3.60790E-04	5.74318E-01	7.60213E-03	-2.40147E 01	-6.14782E-03	6.12314E-01	3.97668E-02
15.70	3.65429E-04	5.81830E-01	7.79438E-03	-2.40188E 01	-6.32461E-03	6.20070E-01	3.97717E-02
15.80	3.70096E-04	5.89390E-01	7.98969E-03	-2.40228E 01	-6.50438E-03	6.27875E-01	3.97766E-02
15.90	3.74794E-04	5.96999E-01	8.18807E-03	-2.40267E 01	-6.68716E-03	6.35728E-01	3.97814E-02
16.00	3.79521E-04	6.04656E-01	8.38957E-03	-2.40306E 01	-6.87296E-03	6.43630E-01	3.97862E-02
16.10	3.84277E-04	6.12363E-01	8.59420E-03	-2.40344E 01	-7.06182E-03	6.51581E-01	3.97909E-02
16.20	3.89063E-04	6.20118E-01	8.80199E-03	-2.40382E 01	-7.25375E-03	6.59581E-01	3.97956E-02
16.30	3.93879E-04	6.27922E-01	9.01294E-03	-2.40419E 01	-7.44878E-03	6.67629E-01	3.98002E-02
16.40	3.98724E-04	6.35774E-01	9.22710E-03	-2.40456E 01	-7.64693E-03	6.75725E-01	3.98048E-02
16.50	4.03599E-04	6.43675E-01	9.44448E-03	-2.40492E 01	-7.84823E-03	6.83871E-01	3.98093E-02
16.60	4.08503E-04	6.51624E-01	9.66511E-03	-2.40528E 01	-8.05270E-03	6.92065E-01	3.98138E-02
16.70	4.13437E-04	6.59623E-01	9.88900E-03	-2.40563E 01	-8.26036E-03	7.00308E-01	3.98182E-02
16.80	4.18401E-04	6.67669E-01	1.01162E-02	-2.40598E 01	-8.47123E-03	7.08599E-01	3.98226E-02
16.90	4.23394E-04	6.75765E-01	1.03467E-02	-2.40633E 01	-8.68535E-03	7.16939E-01	3.98269E-02
17.00	4.28417E-04	6.83909E-01	1.05805E-02	-2.40667E 01	-8.90272E-03	7.25328E-01	3.98312E-02
17.10	4.33469E-04	6.92102E-01	1.08178E-02	-2.40701E 01	-9.12338E-03	7.33765E-01	3.98354E-02
17.20	4.38551E-04	7.00344E-01	1.10584E-02	-2.40734E 01	-9.34735E-03	7.42251E-01	3.98396E-02
17.30	4.43663E-04	7.08634E-01	1.13024E-02	-2.40767E 01	-9.57466E-03	7.50786E-01	3.98438E-02
17.40	4.48804E-04	7.16973E-01	1.15498E-02	-2.40799E 01	-9.80532E-03	7.59369E-01	3.98479E-02
17.50	4.53974E-04	7.25360E-01	1.18007E-02	-2.40832E 01	-1.00394E-02	7.68000E-01	3.98520E-02
17.60	4.59175E-04	7.33796E-01	1.20551E-02	-2.40863E 01	-1.02768E-02	7.76681E-01	3.98560E-02
17.70	4.64404E-04	7.42281E-01	1.23129E-02	-2.40895E 01	-1.05177E-02	7.85410E-01	3.98600E-02
17.80	4.69664E-04	7.50814E-01	1.25743E-02	-2.40926E 01	-1.07620E-02	7.94187E-01	3.98639E-02
17.90	4.74953E-04	7.59396E-01	1.28393E-02	-2.40956E 01	-1.10098E-02	8.03014E-01	3.98678E-02
18.00	4.80271E-04	7.68026E-01	1.31078E-02	-2.40987E 01	-1.12610E-02	8.11888E-01	3.98717E-02



ELECTRON RADIAL FUNCTIONS

Positron	$Z=8$	$A=17$	$\rho=1.2 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	8.37932E-01	1.62968E 01	4.49855E-01	-1.91418E-04	-3.84040E-01	1.72410E 01	2.93652E 02	
18.20	8.37919E-01	1.63909E 01	4.56817E-01	-1.99085E-04	-3.90758E-01	1.73354E 01	2.94528E 02	
18.30	8.37906E-01	1.64851E 01	4.63830E-01	-2.06661E-04	-3.97527E-01	1.74298E 01	2.95399E 02	
18.40	8.37893E-01	1.65792E 01	4.70894E-01	-2.14117E-04	-4.04347E-01	1.75243E 01	2.96269E 02	
18.50	8.37880E-01	1.66734E 01	4.78009E-01	-2.21496E-04	-4.11218E-01	1.76188E 01	2.97135E 02	
18.60	8.37867E-01	1.67676E 01	4.85175E-01	-2.28781E-04	-4.18140E-01	1.77133E 01	2.97998E 02	
18.70	8.37854E-01	1.68619E 01	4.92392E-01	-2.35955E-04	-4.25113E-01	1.78079E 01	2.98859E 02	
18.80	8.37842E-01	1.69561E 01	4.99660E-01	-2.43034E-04	-4.32137E-01	1.79024E 01	2.99718E 02	
18.90	8.37829E-01	1.70504E 01	5.06979E-01	-2.50024E-04	-4.39212E-01	1.79970E 01	3.00574E 02	
19.00	8.37816E-01	1.71447E 01	5.14349E-01	-2.56924E-04	-4.46339E-01	1.80916E 01	3.01428E 02	
19.10	8.37804E-01	1.72390E 01	5.21771E-01	-2.63736E-04	-4.53517E-01	1.81863E 01	3.02279E 02	
19.20	8.37791E-01	1.73334E 01	5.29243E-01	-2.70468E-04	-4.60746E-01	1.82809E 01	3.03126E 02	
19.30	8.37778E-01	1.74277E 01	5.36767E-01	-2.77090E-04	-4.68026E-01	1.83756E 01	3.03973E 02	
19.40	8.37766E-01	1.75221E 01	5.44342E-01	-2.83635E-04	-4.75357E-01	1.84703E 01	3.04818E 02	
19.50	8.37753E-01	1.76165E 01	5.51968E-01	-2.90103E-04	-4.82740E-01	1.85650E 01	3.05659E 02	
19.60	8.37741E-01	1.77110E 01	5.59645E-01	-2.96473E-04	-4.90174E-01	1.86598E 01	3.06499E 02	
19.70	8.37729E-01	1.78054E 01	5.67373E-01	-3.02773E-04	-4.97659E-01	1.87546E 01	3.07335E 02	
19.80	8.37717E-01	1.78999E 01	5.75153E-01	-3.08983E-04	-5.05196E-01	1.88494E 01	3.08171E 02	
19.90	8.37704E-01	1.79944E 01	5.82984E-01	-3.15112E-04	-5.12784E-01	1.89442E 01	3.09004E 02	
20.00	8.37692E-01	1.80890E 01	5.90867E-01	-3.21170E-04	-5.20424E-01	1.90391E 01	3.09834E 02	
20.10	8.37680E-01	1.81835E 01	5.98801E-01	-3.27139E-04	-5.28114E-01	1.91340E 01	3.10664E 02	
20.20	8.37668E-01	1.82781E 01	6.06786E-01	-3.33033E-04	-5.35857E-01	1.92289E 01	3.11491E 02	
20.30	8.37655E-01	1.83727E 01	6.14823E-01	-3.38850E-04	-5.43651E-01	1.93238E 01	3.12316E 02	
20.40	8.37643E-01	1.84674E 01	6.22911E-01	-3.44593E-04	-5.51496E-01	1.94188E 01	3.13139E 02	
20.50	8.37631E-01	1.85620E 01	6.31050E-01	-3.50259E-04	-5.59393E-01	1.95138E 01	3.13961E 02	
20.60	8.37619E-01	1.86567E 01	6.39242E-01	-3.55865E-04	-5.67342E-01	1.96088E 01	3.14779E 02	
20.70	8.37607E-01	1.87514E 01	6.47484E-01	-3.61391E-04	-5.75342E-01	1.97038E 01	3.15597E 02	
20.80	8.37595E-01	1.88461E 01	6.55778E-01	-3.66826E-04	-5.83394E-01	1.97989E 01	3.16414E 02	
20.90	8.37583E-01	1.89409E 01	6.64124E-01	-3.72219E-04	-5.91497E-01	1.98940E 01	3.17227E 02	
21.00	8.37571E-01	1.90357E 01	6.72522E-01	-3.77530E-04	-5.99652E-01	1.99891E 01	3.18040E 02	
21.10	8.37560E-01	1.91305E 01	6.80971E-01	-3.82769E-04	-6.07859E-01	2.00842E 01	3.18851E 02	
21.20	8.37548E-01	1.92253E 01	6.89471E-01	-3.87951E-04	-6.16118E-01	2.01794E 01	3.19659E 02	
21.30	8.37536E-01	1.93202E 01	6.98024E-01	-3.93056E-04	-6.24428E-01	2.02746E 01	3.20467E 02	
21.40	8.37524E-01	1.94151E 01	7.06628E-01	-3.98099E-04	-6.32790E-01	2.03698E 01	3.21273E 02	
21.50	8.37513E-01	1.95100E 01	7.15284E-01	-4.03076E-04	-6.41204E-01	2.04651E 01	3.22077E 02	
21.60	8.37501E-01	1.96049E 01	7.23991E-01	-4.07994E-04	-6.49670E-01	2.05603E 01	3.22880E 02	
21.70	8.37489E-01	1.96999E 01	7.32751E-01	-4.12841E-04	-6.58188E-01	2.06557E 01	3.23682E 02	
21.80	8.37478E-01	1.97949E 01	7.41562E-01	-4.17629E-04	-6.66757E-01	2.07510E 01	3.24482E 02	
21.90	8.37466E-01	1.98899E 01	7.50425E-01	-4.22351E-04	-6.75379E-01	2.08463E 01	3.25280E 02	
22.00	8.37455E-01	1.99849E 01	7.59340E-01	-4.27019E-04	-6.84053E-01	2.09417E 01	3.26077E 02	
22.10	8.37444E-01	2.00800E 01	7.68307E-01	-4.31626E-04	-6.92778E-01	2.10371E 01	3.26873E 02	
22.20	8.37432E-01	2.01751E 01	7.77326E-01	-4.36157E-04	-7.01556E-01	2.11326E 01	3.27669E 02	
22.30	8.37421E-01	2.02702E 01	7.86397E-01	-4.40643E-04	-7.10385E-01	2.12281E 01	3.28462E 02	
22.40	8.37409E-01	2.03653E 01	7.95520E-01	-4.45074E-04	-7.19267E-01	2.13236E 01	3.29253E 02	
22.50	8.37398E-01	2.04605E 01	8.04695E-01	-4.49438E-04	-7.28201E-01	2.14191E 01	3.30045E 02	
22.60	8.37387E-01	2.05557E 01	8.13922E-01	-4.53752E-04	-7.37187E-01	2.15146E 01	3.30834E 02	
22.70	8.37376E-01	2.06509E 01	8.23201E-01	-4.57993E-04	-7.46225E-01	2.16102E 01	3.31624E 02	
22.80	8.37365E-01	2.07462E 01	8.32533E-01	-4.62208E-04	-7.55316E-01	2.17058E 01	3.32410E 02	
22.90	8.37353E-01	2.08414E 01	8.41916E-01	-4.66344E-04	-7.64459E-01	2.18015E 01	3.33197E 02	
23.00	8.37342E-01	2.09367E 01	8.51352E-01	-4.70433E-04	-7.73654E-01	2.18971E 01	3.33983E 02	
23.10	8.37331E-01	2.10321E 01	8.60839E-01	-4.74465E-04	-7.82901E-01	2.19928E 01	3.34767E 02	
23.20	8.37320E-01	2.11274E 01	8.70380E-01	-4.78449E-04	-7.92200E-01	2.20886E 01	3.35551E 02	
23.30	8.37309E-01	2.12228E 01	8.79972E-01	-4.82383E-04	-8.01552E-01	2.21843E 01	3.36333E 02	
23.40	8.37298E-01	2.13182E 01	8.89616E-01	-4.86259E-04	-8.10957E-01	2.22801E 01	3.37114E 02	
23.50	8.37287E-01	2.14137E 01	8.99314E-01	-4.90075E-04	-8.20414E-01	2.23759E 01	3.37896E 02	
23.60	8.37276E-01	2.15091E 01	9.09063E-01	-4.93859E-04	-8.29923E-01	2.24718E 01	3.38675E 02	
23.70	8.37266E-01	2.16046E 01	9.18865E-01	-4.97580E-04	-8.39485E-01	2.25676E 01	3.39454E 02	
23.80	8.37255E-01	2.17002E 01	9.28719E-01	-5.01252E-04	-8.49099E-01	2.26635E 01	3.40233E 02	
23.90	8.37244E-01	2.17957E 01	9.38626E-01	-5.04884E-04	-8.58766E-01	2.27595E 01	3.41010E 02	
24.00	8.37234E-01	2.18913E 01	9.48585E-01	-5.08460E-04	-8.68485E-01	2.28554E 01	3.41786E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z = 8$  $A = 17$  $\rho = 1.2 A^{1/3} F$ 

Positron

$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	4.85620E-04	7.76706E-01	1.33800E-02	-2.41017E 01	-1.15158E-02	8.20812E-01	3.98755E-02
18.20	4.90997E-04	7.85434E-01	1.36557E-02	-2.41046E 01	-1.17742E-02	8.29784E-01	3.98793E-02
18.30	4.96404E-04	7.94210E-01	1.39351E-02	-2.41075E 01	-1.20361E-02	8.38805E-01	3.98830E-02
18.40	5.01841E-04	8.03035E-01	1.42182E-02	-2.41104E 01	-1.23016E-02	8.47874E-01	3.98867E-02
18.50	5.07308E-04	8.11908E-01	1.45049E-02	-2.41133E 01	-1.25707E-02	8.56992E-01	3.98904E-02
18.60	5.12804E-04	8.20831E-01	1.47953E-02	-2.41161E 01	-1.28434E-02	8.66158E-01	3.98940E-02
18.70	5.18329E-04	8.29801E-01	1.50895E-02	-2.41189E 01	-1.31198E-02	8.75373E-01	3.98976E-02
18.80	5.23885E-04	8.38820E-01	1.53875E-02	-2.41217E 01	-1.33999E-02	8.84636E-01	3.99012E-02
18.90	5.29469E-04	8.47888E-01	1.56892E-02	-2.41244E 01	-1.36837E-02	8.93949E-01	3.99047E-02
19.00	5.35084E-04	8.57004E-01	1.59948E-02	-2.41271E 01	-1.39712E-02	9.03309E-01	3.99082E-02
19.10	5.40727E-04	8.66169E-01	1.63041E-02	-2.41298E 01	-1.42625E-02	9.12718E-01	3.99117E-02
19.20	5.46401E-04	8.75383E-01	1.66173E-02	-2.41324E 01	-1.45575E-02	9.22176E-01	3.99151E-02
19.30	5.52104E-04	8.84645E-01	1.69344E-02	-2.41351E 01	-1.48564E-02	9.31682E-01	3.99185E-02
19.40	5.57837E-04	8.93956E-01	1.72554E-02	-2.41377E 01	-1.51590E-02	9.41237E-01	3.99218E-02
19.50	5.63599E-04	9.03315E-01	1.75804E-02	-2.41402E 01	-1.54656E-02	9.50841E-01	3.99252E-02
19.60	5.69391E-04	9.12723E-01	1.79092E-02	-2.41428E 01	-1.57759E-02	9.60493E-01	3.99285E-02
19.70	5.75212E-04	9.22179E-01	1.82421E-02	-2.41453E 01	-1.60902E-02	9.70193E-01	3.99317E-02
19.80	5.81063E-04	9.31683E-01	1.85789E-02	-2.41477E 01	-1.64084E-02	9.79942E-01	3.99350E-02
19.90	5.86944E-04	9.41237E-01	1.89197E-02	-2.41502E 01	-1.67305E-02	9.89739E-01	3.99382E-02
20.00	5.92854E-04	9.50839E-01	1.92646E-02	-2.41526E 01	-1.70566E-02	9.99585E-01	3.99414E-02
20.10	5.98793E-04	9.60489E-01	1.96135E-02	-2.41550E 01	-1.73867E-02	1.00948E 00	3.99445E-02
20.20	6.04763E-04	9.70188E-01	1.99666E-02	-2.41574E 01	-1.77207E-02	1.01942E 00	3.99476E-02
20.30	6.10761E-04	9.79936E-01	2.03237E-02	-2.41598E 01	-1.80588E-02	1.02941E 00	3.99507E-02
20.40	6.16790E-04	9.89732E-01	2.06850E-02	-2.41621E 01	-1.84010E-02	1.03945E 00	3.99538E-02
20.50	6.22848E-04	9.99576E-01	2.10504E-02	-2.41644E 01	-1.87472E-02	1.04954E 00	3.99568E-02
20.60	6.28935E-04	1.00947E 00	2.14200E-02	-2.41667E 01	-1.90976E-02	1.05968E 00	3.99598E-02
20.70	6.35052E-04	1.01941E 00	2.17938E-02	-2.41690E 01	-1.94520E-02	1.06987E 00	3.99628E-02
20.80	6.41199E-04	1.02940E 00	2.21718E-02	-2.41712E 01	-1.98107E-02	1.08010E 00	3.99658E-02
20.90	6.47375E-04	1.03944E 00	2.25541E-02	-2.41734E 01	-2.01734E-02	1.09038E 00	3.99687E-02
21.00	6.53581E-04	1.04953E 00	2.29407E-02	-2.41756E 01	-2.05404E-02	1.10071E 00	3.99716E-02
21.10	6.59816E-04	1.05966E 00	2.33315E-02	-2.41778E 01	-2.09116E-02	1.11109E 00	3.99745E-02
21.20	6.66081E-04	1.06985E 00	2.37267E-02	-2.41799E 01	-2.12870E-02	1.12152E 00	3.99774E-02
21.30	6.72376E-04	1.08008E 00	2.41262E-02	-2.41821E 01	-2.16667E-02	1.13200E 00	3.99802E-02
21.40	6.78700E-04	1.09036E 00	2.45300E-02	-2.41842E 01	-2.20507E-02	1.14252E 00	3.99830E-02
21.50	6.85054E-04	1.10069E 00	2.49383E-02	-2.41863E 01	-2.24390E-02	1.15310E 00	3.99858E-02
21.60	6.91437E-04	1.11107E 00	2.53510E-02	-2.41883E 01	-2.28316E-02	1.16372E 00	3.99885E-02
21.70	6.97850E-04	1.12149E 00	2.57680E-02	-2.41904E 01	-2.32286E-02	1.17439E 00	3.99913E-02
21.80	7.04292E-04	1.13197E 00	2.61896E-02	-2.41924E 01	-2.36300E-02	1.18511E 00	3.99940E-02
21.90	7.10764E-04	1.14249E 00	2.66156E-02	-2.41944E 01	-2.40358E-02	1.19587E 00	3.99967E-02
22.00	7.17266E-04	1.15306E 00	2.70462E-02	-2.41964E 01	-2.44460E-02	1.20669E 00	3.99993E-02
22.10	7.23797E-04	1.16368E 00	2.74813E-02	-2.41984E 01	-2.48606E-02	1.21755E 00	4.00020E-02
22.20	7.30357E-04	1.17435E 00	2.79209E-02	-2.42004E 01	-2.52797E-02	1.22846E 00	4.00046E-02
22.30	7.36947E-04	1.18507E 00	2.83651E-02	-2.42023E 01	-2.57033E-02	1.23943E 00	4.00072E-02
22.40	7.43567E-04	1.19583E 00	2.88138E-02	-2.42042E 01	-2.61315E-02	1.25043E 00	4.00098E-02
22.50	7.50217E-04	1.20664E 00	2.92673E-02	-2.42061E 01	-2.65641E-02	1.26149E 00	4.00123E-02
22.60	7.56895E-04	1.21751E 00	2.97253E-02	-2.42080E 01	-2.70014E-02	1.27260E 00	4.00149E-02
22.70	7.63604E-04	1.22842E 00	3.01880E-02	-2.42099E 01	-2.74432E-02	1.28375E 00	4.00174E-02
22.80	7.70342E-04	1.23938E 00	3.06554E-02	-2.42117E 01	-2.78897E-02	1.29495E 00	4.00199E-02
22.90	7.77110E-04	1.25038E 00	3.11275E-02	-2.42136E 01	-2.83407E-02	1.30621E 00	4.00223E-02
23.00	7.83907E-04	1.26144E 00	3.16044E-02	-2.42154E 01	-2.87965E-02	1.31751E 00	4.00248E-02
23.10	7.90734E-04	1.27254E 00	3.20860E-02	-2.42172E 01	-2.92569E-02	1.32885E 00	4.00272E-02
23.20	7.97590E-04	1.28369E 00	3.25724E-02	-2.42190E 01	-2.97220E-02	1.34025E 00	4.00296E-02
23.30	8.04476E-04	1.29490E 00	3.30636E-02	-2.42207E 01	-3.01919E-02	1.35169E 00	4.00320E-02
23.40	8.11392E-04	1.30614E 00	3.35597E-02	-2.42225E 01	-3.06665E-02	1.36319E 00	4.00344E-02
23.50	8.18337E-04	1.31744E 00	3.40605E-02	-2.42242E 01	-3.11458E-02	1.37473E 00	4.00368E-02
23.60	8.25311E-04	1.32879E 00	3.45663E-02	-2.42259E 01	-3.16300E-02	1.38632E 00	4.00391E-02
23.70	8.32315E-04	1.34018E 00	3.50770E-02	-2.42276E 01	-3.21190E-02	1.39796E 00	4.00414E-02
23.80	8.39349E-04	1.35162E 00	3.55925E-02	-2.42293E 01	-3.26129E-02	1.40964E 00	4.00437E-02
23.90	8.46412E-04	1.36311E 00	3.61131E-02	-2.42310E 01	-3.31116E-02	1.42138E 00	4.00460E-02
24.00	8.53505E-04	1.37465E 00	3.66385E-02	-2.42327E 01	-3.36152E-02	1.43316E 00	4.00483E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=8$		$A=17$		$\rho=1.2 A^{1/3} F$		
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
24.10	8.37223E-01	2.19869E 01	9.58597E-01	-5.11985E-04	-8.78258E-01	2.29514E 01	3.42563E 02
24.20	8.37212E-01	2.20826E 01	9.68661E-01	-5.15461E-04	-8.88083E-01	2.30474E 01	3.43339E 02
24.30	8.37202E-01	2.21782E 01	9.78778E-01	-5.18900E-04	-8.97960E-01	2.31435E 01	3.44113E 02
24.40	8.37191E-01	2.22739E 01	9.88948E-01	-5.22280E-04	-9.07890E-01	2.32396E 01	3.44888E 02
24.50	8.37180E-01	2.23697E 01	9.99170E-01	-5.25627E-04	-9.17873E-01	2.33357E 01	3.45661E 02
24.60	8.37170E-01	2.24654E 01	1.00945E 00	-5.28919E-04	-9.27909E-01	2.34318E 01	3.46434E 02
24.70	8.37159E-01	2.25612E 01	1.01977E 00	-5.32175E-04	-9.37997E-01	2.35280E 01	3.47205E 02
24.80	8.37149E-01	2.26570E 01	1.03015E 00	-5.35381E-04	-9.48139E-01	2.36242E 01	3.47977E 02
24.90	8.37138E-01	2.27528E 01	1.04059E 00	-5.38540E-04	-9.58333E-01	2.37204E 01	3.48749E 02
25.00	8.37128E-01	2.28487E 01	1.05107E 00	-5.41659E-04	-9.68580E-01	2.38167E 01	3.49519E 02
25.10	8.37118E-01	2.29446E 01	1.06161E 00	-5.44731E-04	-9.78880E-01	2.39130E 01	3.50290E 02
25.20	8.37107E-01	2.30406E 01	1.07220E 00	-5.47765E-04	-9.89234E-01	2.40093E 01	3.51060E 02
25.30	8.37097E-01	2.31365E 01	1.08285E 00	-5.50753E-04	-9.99640E-01	2.41057E 01	3.51829E 02
25.40	8.37087E-01	2.32325E 01	1.09355E 00	-5.53705E-04	-1.01010E 00	2.42020E 01	3.52598E 02
25.50	8.37076E-01	2.33285E 01	1.10430E 00	-5.56609E-04	-1.02061E 00	2.42985E 01	3.53367E 02
25.60	8.37066E-01	2.34246E 01	1.11510E 00	-5.59464E-04	-1.03118E 00	2.43949E 01	3.54137E 02
25.70	8.37056E-01	2.35207E 01	1.12596E 00	-5.62288E-04	-1.04180E 00	2.44914E 01	3.54905E 02
25.80	8.37046E-01	2.36168E 01	1.13687E 00	-5.65074E-04	-1.05247E 00	2.45879E 01	3.55673E 02
25.90	8.37036E-01	2.37129E 01	1.14783E 00	-5.67814E-04	-1.06319E 00	2.46844E 01	3.56441E 02
26.00	8.37026E-01	2.38091E 01	1.15885E 00	-5.70524E-04	-1.07397E 00	2.47810E 01	3.57208E 02
26.10	8.37016E-01	2.39053E 01	1.16991E 00	-5.73186E-04	-1.08480E 00	2.48776E 01	3.57976E 02
26.20	8.37006E-01	2.40015E 01	1.18104E 00	-5.75809E-04	-1.09569E 00	2.49743E 01	3.58743E 02
26.30	8.36996E-01	2.40978E 01	1.19221E 00	-5.78399E-04	-1.10663E 00	2.50709E 01	3.59510E 02
26.40	8.36986E-01	2.41941E 01	1.20344E 00	-5.80947E-04	-1.11762E 00	2.51677E 01	3.60277E 02
26.50	8.36976E-01	2.42904E 01	1.21472E 00	-5.83450E-04	-1.12866E 00	2.52644E 01	3.61045E 02
26.60	8.36966E-01	2.43868E 01	1.22606E 00	-5.85930E-04	-1.13976E 00	2.53612E 01	3.61811E 02
26.70	8.36956E-01	2.44831E 01	1.23745E 00	-5.88363E-04	-1.15091E 00	2.54580E 01	3.62579E 02
26.80	8.36946E-01	2.45796E 01	1.24889E 00	-5.90762E-04	-1.16212E 00	2.55548E 01	3.63346E 02
26.90	8.36937E-01	2.46760E 01	1.26039E 00	-5.93125E-04	-1.17338E 00	2.56517E 01	3.64113E 02
27.00	8.36927E-01	2.47725E 01	1.27194E 00	-5.95452E-04	-1.18469E 00	2.57486E 01	3.64880E 02
27.10	8.36917E-01	2.48690E 01	1.28354E 00	-5.97741E-04	-1.19606E 00	2.58455E 01	3.65648E 02
27.20	8.36907E-01	2.49655E 01	1.29520E 00	-5.99994E-04	-1.20748E 00	2.59425E 01	3.66415E 02
27.30	8.36898E-01	2.50621E 01	1.30691E 00	-6.02224E-04	-1.21895E 00	2.60395E 01	3.67182E 02
27.40	8.36888E-01	2.51587E 01	1.31867E 00	-6.04402E-04	-1.23048E 00	2.61365E 01	3.67950E 02
27.50	8.36878E-01	2.52554E 01	1.33049E 00	-6.06562E-04	-1.24206E 00	2.62336E 01	3.68717E 02
27.60	8.36869E-01	2.53520E 01	1.34236E 00	-6.08671E-04	-1.25370E 00	2.63307E 01	3.69486E 02
27.70	8.36859E-01	2.54488E 01	1.35429E 00	-6.10753E-04	-1.26539E 00	2.64278E 01	3.70255E 02
27.80	8.36850E-01	2.55455E 01	1.36627E 00	-6.12808E-04	-1.27713E 00	2.65250E 01	3.71022E 02
27.90	8.36840E-01	2.56423E 01	1.37830E 00	-6.14822E-04	-1.28893E 00	2.66222E 01	3.71792E 02
28.00	8.36831E-01	2.57391E 01	1.39039E 00	-6.16804E-04	-1.30078E 00	2.67194E 01	3.72561E 02
28.10	8.36821E-01	2.58359E 01	1.40253E 00	-6.18759E-04	-1.31268E 00	2.68167E 01	3.73330E 02
28.20	8.36812E-01	2.59328E 01	1.41472E 00	-6.20676E-04	-1.32464E 00	2.69140E 01	3.74100E 02
28.30	8.36802E-01	2.60297E 01	1.42697E 00	-6.22559E-04	-1.33666E 00	2.70114E 01	3.74871E 02
28.40	8.36793E-01	2.61266E 01	1.43928E 00	-6.24411E-04	-1.34873E 00	2.71087E 01	3.75642E 02
28.50	8.36784E-01	2.62236E 01	1.45163E 00	-6.26240E-04	-1.36085E 00	2.72061E 01	3.76412E 02
28.60	8.36774E-01	2.63206E 01	1.46404E 00	-6.28029E-04	-1.37302E 00	2.73036E 01	3.77183E 02
28.70	8.36765E-01	2.64176E 01	1.47651E 00	-6.29788E-04	-1.38525E 00	2.74011E 01	3.77956E 02
28.80	8.36756E-01	2.65147E 01	1.48903E 00	-6.31523E-04	-1.39754E 00	2.74986E 01	3.78727E 02
28.90	8.36746E-01	2.66118E 01	1.50160E 00	-6.33220E-04	-1.40988E 00	2.75961E 01	3.79501E 02
29.00	8.36737E-01	2.67089E 01	1.51423E 00	-6.34887E-04	-1.42227E 00	2.76937E 01	3.80274E 02
29.10	8.36728E-01	2.68061E 01	1.52691E 00	-6.36526E-04	-1.43472E 00	2.77913E 01	3.81049E 02
29.20	8.36719E-01	2.69033E 01	1.53965E 00	-6.38130E-04	-1.44722E 00	2.78890E 01	3.81824E 02
29.30	8.36710E-01	2.70005E 01	1.55244E 00	-6.39712E-04	-1.45978E 00	2.79867E 01	3.82599E 02
29.40	8.36701E-01	2.70978E 01	1.56529E 00	-6.41264E-04	-1.47239E 00	2.80844E 01	3.83375E 02
29.50	8.36692E-01	2.71951E 01	1.57819E 00	-6.42786E-04	-1.48506E 00	2.81822E 01	3.84151E 02
29.60	8.36683E-01	2.72925E 01	1.59114E 00	-6.44270E-04	-1.49778E 00	2.82800E 01	3.84930E 02
29.70	8.36674E-01	2.73898E 01	1.60415E 00	-6.45734E-04	-1.51055E 00	2.83778E 01	3.85708E 02
29.80	8.36665E-01	2.74872E 01	1.61721E 00	-6.47166E-04	-1.52338E 00	2.84757E 01	3.86487E 02
29.90	8.36656E-01	2.75847E 01	1.63033E 00	-6.48583E-04	-1.53627E 00	2.85736E 01	3.87265E 02
30.00	8.36647E-01	2.76822E 01	1.64350E 00	-6.49955E-04	-1.54921E 00	2.86716E 01	3.88046E 02

ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=8$			$A=17$			$\rho=1.2A^{1/3}F$			Positron
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$				
24.10	8.60628E-04	1.38624E 00	3.71691E-02	-2.42343E 01	-3.41237E-02	1.44499E 00	1.00505E-02				
24.20	8.67780E-04	1.39788E 00	3.77046E-02	-2.42360E 01	-3.46372E-02	1.45687E 00	4.00527E-02				
24.30	8.74961E-04	1.40956E 00	3.82451E-02	-2.42376E 01	-3.51556E-02	1.46880E 00	4.00550E-02				
24.40	8.82172E-04	1.42129E 00	3.87907E-02	-2.42392E 01	-3.56790E-02	1.48077E 00	4.00571E-02				
24.50	8.89413E-04	1.43308E 00	3.93413E-02	-2.42408E 01	-3.62074E-02	1.49280E 00	4.00593E-02				
24.60	8.96683E-04	1.44490E 00	3.98971E-02	-2.42424E 01	-3.67408E-02	1.50487E 00	4.00615E-02				
24.70	9.03983E-04	1.45678E 00	4.04580E-02	-2.42439E 01	-3.72793E-02	1.51699E 00	4.00636E-02				
24.80	9.11312E-04	1.46871E 00	4.10241E-02	-2.42455E 01	-3.78228E-02	1.52916E 00	4.00658E-02				
24.90	9.18671E-04	1.48068E 00	4.15954E-02	-2.42470E 01	-3.83715E-02	1.54138E 00	4.00679E-02				
25.00	9.26060E-04	1.49270E 00	4.21718E-02	-2.42485E 01	-3.89253E-02	1.55365E 00	4.00700E-02				
25.10	9.33478E-04	1.50477E 00	4.27535E-02	-2.42501E 01	-3.94842E-02	1.56596E 00	4.00721E-02				
25.20	9.40925E-04	1.51689E 00	4.33404E-02	-2.42516E 01	-4.00483E-02	1.57832E 00	4.00741E-02				
25.30	9.48403E-04	1.52906E 00	4.39326E-02	-2.42531E 01	-4.06176E-02	1.59073E 00	4.00762E-02				
25.40	9.55909E-04	1.54127E 00	4.45300E-02	-2.42545E 01	-4.11921E-02	1.60319E 00	4.00782E-02				
25.50	9.63446E-04	1.55354E 00	4.51328E-02	-2.42560E 01	-4.17718E-02	1.61570E 00	4.00802E-02				
25.60	9.71011E-04	1.56585E 00	4.57409E-02	-2.42575E 01	-4.23568E-02	1.62825E 00	4.00822E-02				
25.70	9.78607E-04	1.57821E 00	4.63544E-02	-2.42589E 01	-4.29471E-02	1.64086E 00	4.00842E-02				
25.80	9.86232E-04	1.59062E 00	4.69733E-02	-2.42603E 01	-4.35427E-02	1.65351E 00	4.00862E-02				
25.90	9.93886E-04	1.60307E 00	4.75976E-02	-2.42618E 01	-4.41436E-02	1.66621E 00	4.00882E-02				
26.00	1.00157E-03	1.61558E 00	4.82273E-02	-2.42632E 01	-4.47499E-02	1.67896E 00	4.00901E-02				
26.10	1.00928E-03	1.62813E 00	4.88624E-02	-2.42646E 01	-4.53615E-02	1.69175E 00	4.00921E-02				
26.20	1.01703E-03	1.64073E 00	4.95031E-02	-2.42659E 01	-4.59786E-02	1.70460E 00	4.00940E-02				
26.30	1.02480E-03	1.65338E 00	5.01492E-02	-2.42673E 01	-4.66010E-02	1.71749E 00	4.00959E-02				
26.40	1.03260E-03	1.66608E 00	5.08008E-02	-2.42687E 01	-4.72290E-02	1.73043E 00	4.00978E-02				
26.50	1.04043E-03	1.67882E 00	5.14580E-02	-2.42700E 01	-4.78623E-02	1.74342E 00	4.00997E-02				
26.60	1.04830E-03	1.69162E 00	5.21208E-02	-2.42714E 01	-4.85012E-02	1.75646E 00	4.01015E-02				
26.70	1.05619E-03	1.70446E 00	5.27892E-02	-2.42727E 01	-4.91456E-02	1.76954E 00	4.01034E-02				
26.80	1.06411E-03	1.71735E 00	5.34632E-02	-2.42740E 01	-4.97956E-02	1.78267E 00	4.01052E-02				
26.90	1.07206E-03	1.73029E 00	5.41428E-02	-2.42753E 01	-5.04510E-02	1.79586E 00	4.01071E-02				
27.00	1.08004E-03	1.74327E 00	5.48281E-02	-2.42767E 01	-5.11121E-02	1.80909E 00	4.01089E-02				
27.10	1.08805E-03	1.75631E 00	5.55191E-02	-2.42779E 01	-5.17788E-02	1.82236E 00	4.01107E-02				
27.20	1.09609E-03	1.76939E 00	5.62157E-02	-2.42792E 01	-5.24511E-02	1.83569E 00	4.01125E-02				
27.30	1.10415E-03	1.78252E 00	5.69181E-02	-2.42805E 01	-5.31291E-02	1.84906E 00	4.01142E-02				
27.40	1.11225E-03	1.79570E 00	5.76263E-02	-2.42818E 01	-5.38128E-02	1.86249E 00	4.01160E-02				
27.50	1.12038E-03	1.80893E 00	5.83402E-02	-2.42830E 01	-5.45021E-02	1.87596E 00	4.01178E-02				
27.60	1.12854E-03	1.82220E 00	5.90600E-02	-2.42843E 01	-5.51972E-02	1.88947E 00	4.01195E-02				
27.70	1.13672E-03	1.83552E 00	5.97855E-02	-2.42855E 01	-5.58980E-02	1.90304E 00	4.01212E-02				
27.80	1.14494E-03	1.84889E 00	6.05169E-02	-2.42867E 01	-5.66046E-02	1.91666E 00	4.01230E-02				
27.90	1.15318E-03	1.86231E 00	6.12542E-02	-2.42879E 01	-5.73170E-02	1.93032E 00	4.01247E-02				
28.00	1.16146E-03	1.87578E 00	6.19974E-02	-2.42891E 01	-5.80352E-02	1.94403E 00	4.01264E-02				
28.10	1.16976E-03	1.88930E 00	6.27465E-02	-2.42903E 01	-5.87592E-02	1.95779E 00	4.01280E-02				
28.20	1.17810E-03	1.90286E 00	6.35015E-02	-2.42915E 01	-5.94891E-02	1.97159E 00	4.01297E-02				
28.30	1.18646E-03	1.91647E 00	6.42625E-02	-2.42927E 01	-6.02249E-02	1.98545E 00	4.01314E-02				
28.40	1.19486E-03	1.93013E 00	6.50294E-02	-2.42939E 01	-6.09666E-02	1.99935E 00	4.01330E-02				
28.50	1.20328E-03	1.94384E 00	6.58024E-02	-2.42951E 01	-6.17142E-02	2.01330E 00	4.01347E-02				
28.60	1.21173E-03	1.95760E 00	6.65814E-02	-2.42962E 01	-6.24678E-02	2.02730E 00	4.01363E-02				
28.70	1.22021E-03	1.97140E 00	6.73665E-02	-2.42974E 01	-6.32273E-02	2.04135E 00	4.01379E-02				
28.80	1.22873E-03	1.98525E 00	6.81576E-02	-2.42985E 01	-6.39928E-02	2.05544E 00	4.01395E-02				
28.90	1.23727E-03	1.99915E 00	6.89549E-02	-2.42996E 01	-6.47644E-02	2.06959E 00	4.01411E-02				
29.00	1.24584E-03	2.01310E 00	6.97582E-02	-2.43008E 01	-6.55420E-02	2.08378E 00	4.01427E-02				
29.10	1.25444E-03	2.02709E 00	7.05677E-02	-2.43019E 01	-6.63257E-02	2.09802E 00	4.01443E-02				
29.20	1.26307E-03	2.04114E 00	7.13834E-02	-2.43030E 01	-6.71155E-02	2.11230E 00	4.01459E-02				
29.30	1.27173E-03	2.05523E 00	7.22052E-02	-2.43041E 01	-6.79114E-02	2.12664E 00	4.01474E-02				
29.40	1.28042E-03	2.06937E 00	7.30333E-02	-2.43052E 01	-6.87134E-02	2.14102E 00	4.01489E-02				
29.50	1.28914E-03	2.08356E 00	7.38676E-02	-2.43063E 01	-6.95216E-02	2.15545E 00	4.01505E-02				
29.60	1.29788E-03	2.09779E 00	7.47082E-02	-2.43073E 01	-7.03360E-02	2.16993E 00	4.01520E-02				
29.70	1.30666E-03	2.11208E 00	7.55551E-02	-2.43084E 01	-7.11566E-02	2.18446E 00	4.01535E-02				
29.80	1.31547E-03	2.12641E 00	7.64082E-02	-2.43095E 01	-7.19834E-02	2.19903E 00	4.01550E-02				
29.90	1.32431E-03	2.14079E 00	7.72677E-02	-2.43105E 01	-7.28164E-02	2.21366E 00	4.01565E-02				
30.00	1.33317E-03	2.15521E 00	7.81335E-02	-2.43116E 01	-7.36558E-02	2.22833E 00	4.01580E-02				



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=8 \quad A=17 \quad \rho=1.2 A^{1/3} F$							
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
30.10	8.36638E-01	2.77797E 01	1.65673E 00	-6.51308E-04	-1.56220E 00	2.87696E 01	3.88827E 02	02
30.20	8.36629E-01	2.78772E 01	1.67002E 00	-6.52630E-04	-1.57525E 00	2.88676E 01	3.89609E 02	02
30.30	8.36620E-01	2.79748E 01	1.68335E 00	-6.53919E-04	-1.58836E 00	2.89656E 01	3.90393E 02	02
30.40	8.36611E-01	2.80725E 01	1.69675E 00	-6.55195E-04	-1.60152E 00	2.90637E 01	3.91176E 02	02
30.50	8.36603E-01	2.81701E 01	1.71019E 00	-6.56441E-04	-1.61473E 00	2.91619E 01	3.91960E 02	02
30.60	8.36594E-01	2.82678E 01	1.72369E 00	-6.57652E-04	-1.62800E 00	2.92600E 01	3.92746E 02	02
30.70	8.36585E-01	2.83655E 01	1.73725E 00	-6.58837E-04	-1.64133E 00	2.93582E 01	3.93533E 02	02
30.80	8.36576E-01	2.84633E 01	1.75086E 00	-6.60002E-04	-1.65471E 00	2.94565E 01	3.94320E 02	02
30.90	8.36568E-01	2.85611E 01	1.76453E 00	-6.61138E-04	-1.66814E 00	2.95548E 01	3.95109E 02	02
31.00	8.36559E-01	2.86589E 01	1.77825E 00	-6.62242E-04	-1.68163E 00	2.96531E 01	3.95899E 02	02
31.10	8.36550E-01	2.87568E 01	1.79203E 00	-6.63322E-04	-1.69518E 00	2.97514E 01	3.96691E 02	02
31.20	8.36542E-01	2.88547E 01	1.80586E 00	-6.64386E-04	-1.70878E 00	2.98498E 01	3.97482E 02	02
31.30	8.36533E-01	2.89527E 01	1.81975E 00	-6.65413E-04	-1.72244E 00	2.99483E 01	3.98275E 02	02
31.40	8.36525E-01	2.90506E 01	1.83369E 00	-6.66417E-04	-1.73615E 00	3.00467E 01	3.99070E 02	02
31.50	8.36516E-01	2.91487E 01	1.84769E 00	-6.67399E-04	-1.74992E 00	3.01453E 01	3.99865E 02	02
31.60	8.36508E-01	2.92467E 01	1.86175E 00	-6.68359E-04	-1.76374E 00	3.02438E 01	4.00661E 02	02
31.70	8.36499E-01	2.93448E 01	1.87585E 00	-6.69298E-04	-1.77762E 00	3.03424E 01	4.01458E 02	02
31.80	8.36491E-01	2.94429E 01	1.89002E 00	-6.70207E-04	-1.79155E 00	3.04410E 01	4.02256E 02	02
31.90	8.36482E-01	2.95411E 01	1.90424E 00	-6.71093E-04	-1.80554E 00	3.05397E 01	4.03056E 02	02
32.00	8.36474E-01	2.96393E 01	1.91851E 00	-6.71954E-04	-1.81958E 00	3.06384E 01	4.03857E 02	02
32.10	8.36466E-01	2.97376E 01	1.93285E 00	-6.72784E-04	-1.83369E 00	3.07371E 01	4.04660E 02	02
32.20	8.36457E-01	2.98358E 01	1.94723E 00	-6.73598E-04	-1.84784E 00	3.08359E 01	4.05464E 02	02
32.30	8.36449E-01	2.99342E 01	1.96168E 00	-6.74390E-04	-1.86205E 00	3.09347E 01	4.06269E 02	02
32.40	8.36441E-01	3.00325E 01	1.97617E 00	-6.75147E-04	-1.87632E 00	3.10336E 01	4.07076E 02	02
32.50	8.36432E-01	3.01309E 01	1.99073E 00	-6.75887E-04	-1.89065E 00	3.11325E 01	4.07885E 02	02
32.60	8.36424E-01	3.02293E 01	2.00534E 00	-6.76606E-04	-1.90503E 00	3.12314E 01	4.08694E 02	02
32.70	8.36416E-01	3.03278E 01	2.02000E 00	-6.77301E-04	-1.91946E 00	3.13304E 01	4.09505E 02	02
32.80	8.36407E-01	3.04263E 01	2.03472E 00	-6.77971E-04	-1.93396E 00	3.14294E 01	4.10317E 02	02
32.90	8.36399E-01	3.05249E 01	2.04950E 00	-6.78627E-04	-1.94850E 00	3.15285E 01	4.11130E 02	02
33.00	8.36391E-01	3.06234E 01	2.06434E 00	-6.79251E-04	-1.96311E 00	3.16276E 01	4.11946E 02	02
33.10	8.36383E-01	3.07221E 01	2.07922E 00	-6.79854E-04	-1.97777E 00	3.17267E 01	4.12762E 02	02
33.20	8.36375E-01	3.08207E 01	2.09417E 00	-6.80436E-04	-1.99249E 00	3.18259E 01	4.13581E 02	02
33.30	8.36366E-01	3.09194E 01	2.10917E 00	-6.80994E-04	-2.00726E 00	3.19251E 01	4.14401E 02	02
33.40	8.36358E-01	3.10182E 01	2.12423E 00	-6.81542E-04	-2.02209E 00	3.20244E 01	4.15221E 02	02
33.50	8.36350E-01	3.11170E 01	2.13934E 00	-6.82048E-04	-2.03698E 00	3.21237E 01	4.16046E 02	02
33.60	8.36342E-01	3.12158E 01	2.15451E 00	-6.82542E-04	-2.05192E 00	3.22230E 01	4.16870E 02	02
33.70	8.36334E-01	3.13146E 01	2.16974E 00	-6.83014E-04	-2.06692E 00	3.23224E 01	4.17697E 02	02
33.80	8.36326E-01	3.14135E 01	2.18502E 00	-6.83470E-04	-2.08197E 00	3.24218E 01	4.18524E 02	02
33.90	8.36318E-01	3.15125E 01	2.20036E 00	-6.83902E-04	-2.09708E 00	3.25213E 01	4.19354E 02	02
34.00	8.36310E-01	3.16114E 01	2.21576E 00	-6.84300E-04	-2.11225E 00	3.26208E 01	4.20187E 02	02
34.10	8.36302E-01	3.17105E 01	2.23121E 00	-6.84685E-04	-2.12748E 00	3.27203E 01	4.21021E 02	02
34.20	8.36294E-01	3.18095E 01	2.24672E 00	-6.85054E-04	-2.14276E 00	3.28199E 01	4.21856E 02	02
34.30	8.36286E-01	3.19086E 01	2.26229E 00	-6.85400E-04	-2.15810E 00	3.29196E 01	4.22693E 02	02
34.40	8.36278E-01	3.20077E 01	2.27791E 00	-6.85728E-04	-2.17349E 00	3.30192E 01	4.23531E 02	02
34.50	8.36270E-01	3.21069E 01	2.29359E 00	-6.86032E-04	-2.18895E 00	3.31190E 01	4.24372E 02	02
34.60	8.36263E-01	3.22061E 01	2.30932E 00	-6.86322E-04	-2.20446E 00	3.32187E 01	4.25214E 02	02
34.70	8.36255E-01	3.23054E 01	2.32512E 00	-6.86576E-04	-2.22002E 00	3.33185E 01	4.26060E 02	02
34.80	8.36247E-01	3.24047E 01	2.34097E 00	-6.86826E-04	-2.23565E 00	3.34184E 01	4.26905E 02	02
34.90	8.36239E-01	3.25040E 01	2.35687E 00	-6.87048E-04	-2.25133E 00	3.35182E 01	4.27754E 02	02
35.00	8.36231E-01	3.26034E 01	2.37283E 00	-6.87254E-04	-2.26706E 00	3.36182E 01	4.28604E 02	02
35.10	8.36224E-01	3.27028E 01	2.38886E 00	-6.87426E-04	-2.28286E 00	3.37181E 01	4.29459E 02	02
35.20	8.36216E-01	3.28023E 01	2.40493E 00	-6.87604E-04	-2.29871E 00	3.38182E 01	4.30311E 02	02
35.30	8.36208E-01	3.29018E 01	2.42107E 00	-6.87740E-04	-2.31462E 00	3.39182E 01	4.31169E 02	02
35.40	8.36200E-01	3.30013E 01	2.43726E 00	-6.87863E-04	-2.33059E 00	3.40183E 01	4.32028E 02	02
35.50	8.36193E-01	3.31009E 01	2.45351E 00	-6.87971E-04	-2.34661E 00	3.41185E 01	4.32889E 02	02
35.60	8.36185E-01	3.32006E 01	2.46981E 00	-6.88051E-04	-2.36269E 00	3.42186E 01	4.33753E 02	02
35.70	8.36177E-01	3.33002E 01	2.48618E 00	-6.88120E-04	-2.37883E 00	3.43189E 01	4.34617E 02	02
35.80	8.36170E-01	3.33999E 01	2.50260E 00	-6.88168E-04	-2.39503E 00	3.44191E 01	4.35485E 02	02
35.90	8.36162E-01	3.34997E 01	2.51908E 00	-6.88194E-04	-2.41128E 00	3.45195E 01	4.36355E 02	02
36.00	8.36155E-01	3.35995E 01	2.53561E 00	-6.88208E-04	-2.42759E 00	3.46198E 01	4.37226E 02	02

## ELECTRON RADIAL FUNCTIONS

 $Z=8$  $A=17$  $\rho=1.2A^{1/3}F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
30.10	1.34207E-03	2.16969E 00	7.90058E-02	-2.43126E 01	-7.45014E-02	2.24305E 00	4.01595E-02
30.20	1.35099E-03	2.18421E 00	7.98845E-02	-2.43136E 01	-7.53534E-02	2.25781E 00	4.01610E-02
30.30	1.35995E-03	2.19879E 00	8.07695E-02	-2.43147E 01	-7.62117E-02	2.27263E 00	4.01624E-02
30.40	1.36893E-03	2.21340E 00	8.16610E-02	-2.43157E 01	-7.70764E-02	2.28749E 00	4.01639E-02
30.50	1.37795E-03	2.22807E 00	8.25589E-02	-2.43167E 01	-7.79475E-02	2.30240E 00	4.01653E-02
30.60	1.38699E-03	2.24279E 00	8.34634E-02	-2.43177E 01	-7.88249E-02	2.31736E 00	4.01668E-02
30.70	1.39607E-03	2.25755E 00	8.43743E-02	-2.43187E 01	-7.97088E-02	2.33236E 00	4.01682E-02
30.80	1.40517E-03	2.27236E 00	8.52918E-02	-2.43197E 01	-8.05992E-02	2.34742E 00	4.01696E-02
30.90	1.41430E-03	2.28722E 00	8.62159E-02	-2.43207E 01	-8.14961E-02	2.36252E 00	4.01710E-02
31.00	1.42346E-03	2.30212E 00	8.71465E-02	-2.43216E 01	-8.23994E-02	2.37767E 00	4.01724E-02
31.10	1.43265E-03	2.31708E 00	8.80837E-02	-2.43226E 01	-8.33093E-02	2.39286E 00	4.01738E-02
31.20	1.44188E-03	2.33208E 00	8.90276E-02	-2.43236E 01	-8.42257E-02	2.40811E 00	4.01752E-02
31.30	1.45113E-03	2.34713E 00	8.99781E-02	-2.43245E 01	-8.51488E-02	2.42340E 00	4.01766E-02
31.40	1.46041E-03	2.36223E 00	9.09353E-02	-2.43255E 01	-8.60784E-02	2.43874E 00	4.01779E-02
31.50	1.46972E-03	2.37737E 00	9.18992E-02	-2.43264E 01	-8.70146E-02	2.45413E 00	4.01793E-02
31.60	1.47905E-03	2.39257E 00	9.28698E-02	-2.43274E 01	-8.79575E-02	2.46957E 00	4.01806E-02
31.70	1.48842E-03	2.40781E 00	9.38471E-02	-2.43283E 01	-8.89070E-02	2.48505E 00	4.01820E-02
31.80	1.49782E-03	2.42310E 00	9.48312E-02	-2.43292E 01	-8.98632E-02	2.50058E 00	4.01833E-02
31.90	1.50725E-03	2.43843E 00	9.58221E-02	-2.43302E 01	-9.08262E-02	2.51616E 00	4.01846E-02
32.00	1.51671E-03	2.45382E 00	9.68198E-02	-2.43311E 01	-9.17958E-02	2.53179E 00	4.01860E-02
32.10	1.52619E-03	2.46925E 00	9.78244E-02	-2.43320E 01	-9.27723E-02	2.54746E 00	4.01873E-02
32.20	1.53571E-03	2.48473E 00	9.88358E-02	-2.43329E 01	-9.37555E-02	2.56319E 00	4.01886E-02
32.30	1.54526E-03	2.50026E 00	9.98541E-02	-2.43338E 01	-9.47455E-02	2.57896E 00	4.01899E-02
32.40	1.55483E-03	2.51584E 00	1.00879E-01	-2.43347E 01	-9.57423E-02	2.59478E 00	4.01911E-02
32.50	1.56444E-03	2.53146E 00	1.01911E-01	-2.43356E 01	-9.67460E-02	2.61064E 00	4.01924E-02
32.60	1.57407E-03	2.54713E 00	1.02950E-01	-2.43364E 01	-9.77566E-02	2.62656E 00	4.01937E-02
32.70	1.58374E-03	2.56285E 00	1.03996E-01	-2.43373E 01	-9.87740E-02	2.64252E 00	4.01950E-02
32.80	1.59343E-03	2.57862E 00	1.05049E-01	-2.43382E 01	-9.97984E-02	2.65853E 00	4.01962E-02
32.90	1.60315E-03	2.59443E 00	1.06109E-01	-2.43391E 01	-1.00830E-01	2.67458E 00	4.01975E-02
33.00	1.61291E-03	2.61029E 00	1.07177E-01	-2.43399E 01	-1.01868E-01	2.69069E 00	4.01987E-02
33.10	1.62269E-03	2.62620E 00	1.08251E-01	-2.43408E 01	-1.02913E-01	2.70684E 00	4.01999E-02
33.20	1.63250E-03	2.64216E 00	1.09332E-01	-2.43416E 01	-1.03966E-01	2.72304E 00	4.02012E-02
33.30	1.64234E-03	2.65816E 00	1.10420E-01	-2.43425E 01	-1.05025E-01	2.73929E 00	4.02024E-02
33.40	1.65221E-03	2.67422E 00	1.11516E-01	-2.43433E 01	-1.06091E-01	2.75558E 00	4.02036E-02
33.50	1.66211E-03	2.69031E 00	1.12618E-01	-2.43441E 01	-1.07165E-01	2.77192E 00	4.02048E-02
33.60	1.67204E-03	2.70646E 00	1.13728E-01	-2.43450E 01	-1.08245E-01	2.78832E 00	4.02060E-02
33.70	1.68200E-03	2.72266E 00	1.14845E-01	-2.43458E 01	-1.09333E-01	2.80475E 00	4.02072E-02
33.80	1.69199E-03	2.73890E 00	1.15969E-01	-2.43466E 01	-1.10428E-01	2.82124E 00	4.02084E-02
33.90	1.70201E-03	2.75519E 00	1.17101E-01	-2.43474E 01	-1.11530E-01	2.83777E 00	4.02096E-02
34.00	1.71206E-03	2.77153E 00	1.18240E-01	-2.43482E 01	-1.12639E-01	2.85435E 00	4.02108E-02
34.10	1.72214E-03	2.78792E 00	1.19386E-01	-2.43490E 01	-1.13755E-01	2.87098E 00	4.02119E-02
34.20	1.73225E-03	2.80435E 00	1.20539E-01	-2.43498E 01	-1.14879E-01	2.88766E 00	4.02131E-02
34.30	1.74238E-03	2.82083E 00	1.21700E-01	-2.43506E 01	-1.16010E-01	2.90438E 00	4.02143E-02
34.40	1.75255E-03	2.83736E 00	1.22868E-01	-2.43514E 01	-1.17148E-01	2.92115E 00	4.02154E-02
34.50	1.76275E-03	2.85394E 00	1.24043E-01	-2.43522E 01	-1.18293E-01	2.93797E 00	4.02166E-02
34.60	1.77297E-03	2.87056E 00	1.25226E-01	-2.43530E 01	-1.19446E-01	2.95484E 00	4.02177E-02
34.70	1.78323E-03	2.88723E 00	1.26416E-01	-2.43537E 01	-1.20606E-01	2.97175E 00	4.02188E-02
34.80	1.79351E-03	2.90395E 00	1.27614E-01	-2.43545E 01	-1.21774E-01	2.98871E 00	4.02199E-02
34.90	1.80383E-03	2.92072E 00	1.28819E-01	-2.43553E 01	-1.22949E-01	3.00572E 00	4.02211E-02
35.00	1.81417E-03	2.93753E 00	1.30032E-01	-2.43560E 01	-1.24131E-01	3.02278E 00	4.02222E-02
35.10	1.82454E-03	2.95439E 00	1.31252E-01	-2.43568E 01	-1.25321E-01	3.03988E 00	4.02233E-02
35.20	1.83495E-03	2.97130E 00	1.32479E-01	-2.43575E 01	-1.26518E-01	3.05703E 00	4.02244E-02
35.30	1.84538E-03	2.98826E 00	1.33715E-01	-2.43583E 01	-1.27723E-01	3.07423E 00	4.02255E-02
35.40	1.85584E-03	3.00526E 00	1.34958E-01	-2.43590E 01	-1.28935E-01	3.09148E 00	4.02266E-02
35.50	1.86633E-03	3.02231E 00	1.36208E-01	-2.43598E 01	-1.30155E-01	3.10877E 00	4.02277E-02
35.60	1.87685E-03	3.03941E 00	1.37466E-01	-2.43605E 01	-1.31382E-01	3.12611E 00	4.02287E-02
35.70	1.88740E-03	3.05656E 00	1.38732E-01	-2.43612E 01	-1.32617E-01	3.14350E 00	4.02298E-02
35.80	1.89798E-03	3.07375E 00	1.40005E-01	-2.43619E 01	-1.33860E-01	3.16094E 00	4.02309E-02
35.90	1.90859E-03	3.09099E 00	1.41287E-01	-2.43627E 01	-1.35110E-01	3.17842E 00	4.02319E-02
36.00	1.91923E-03	3.10828E 00	1.42575E-01	-2.43634E 01	-1.36367E-01	3.19595E 00	4.02330E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=8$		$A=17$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
36.10	8.36147E-01	3.36993E 01	2.55220E 00	-6.88199E-04	-2.44396E 00	3.47202E 01	4.38101E 02	
36.20	8.36139E-01	3.37992E 01	2.56886E 00	-6.88167E-04	-2.46039E 00	3.48207E 01	4.38978E 02	
36.30	8.36132E-01	3.38991E 01	2.58556E 00	-6.88130E-04	-2.47687E 00	3.49212E 01	4.39855E 02	
36.40	8.36124E-01	3.39991E 01	2.60233E 00	-6.88066E-04	-2.49342E 00	3.50217E 01	4.40736E 02	
36.50	8.36117E-01	3.40991E 01	2.61915E 00	-6.87979E-04	-2.51002E 00	3.51223E 01	4.41621E 02	
36.60	8.36109E-01	3.41992E 01	2.63603E 00	-6.87871E-04	-2.52667E 00	3.52229E 01	4.42508E 02	
36.70	8.36102E-01	3.42993E 01	2.65297E 00	-6.87754E-04	-2.54339E 00	3.53236E 01	4.43396E 02	
36.80	8.36095E-01	3.43994E 01	2.66997E 00	-6.87623E-04	-2.56017E 00	3.54243E 01	4.44286E 02	
36.90	8.36087E-01	3.44996E 01	2.68703E 00	-6.87463E-04	-2.57700E 00	3.55251E 01	4.45181E 02	
37.00	8.36080E-01	3.45998E 01	2.70414E 00	-6.87289E-04	-2.59389E 00	3.56259E 01	4.46077E 02	
37.10	8.36072E-01	3.47001E 01	2.72131E 00	-6.87096E-04	-2.61084E 00	3.57267E 01	4.46976E 02	
37.20	8.36065E-01	3.48004E 01	2.73854E 00	-6.86888E-04	-2.62785E 00	3.58276E 01	4.47877E 02	
37.30	8.36058E-01	3.49008E 01	2.75583E 00	-6.86661E-04	-2.64491E 00	3.59286E 01	4.48781E 02	
37.40	8.36050E-01	3.50012E 01	2.77317E 00	-6.86421E-04	-2.66203E 00	3.60296E 01	4.49687E 02	
37.50	8.36043E-01	3.51016E 01	2.79058E 00	-6.86157E-04	-2.67922E 00	3.61306E 01	4.50596E 02	
37.60	8.36036E-01	3.52021E 01	2.80804E 00	-6.85876E-04	-2.69646E 00	3.62317E 01	4.51509E 02	
37.70	8.36028E-01	3.53026E 01	2.82556E 00	-6.85581E-04	-2.71376E 00	3.63328E 01	4.52423E 02	
37.80	8.36021E-01	3.54032E 01	2.84314E 00	-6.85267E-04	-2.73112E 00	3.64340E 01	4.53341E 02	
37.90	8.36014E-01	3.55038E 01	2.86077E 00	-6.84939E-04	-2.74853E 00	3.65352E 01	4.54260E 02	
38.00	8.36007E-01	3.56045E 01	2.87847E 00	-6.84587E-04	-2.76601E 00	3.66365E 01	4.55185E 02	
38.10	8.36000E-01	3.57052E 01	2.89622E 00	-6.84222E-04	-2.78354E 00	3.67378E 01	4.56111E 02	
38.20	8.35992E-01	3.58060E 01	2.91404E 00	-6.83841E-04	-2.80114E 00	3.68392E 01	4.57039E 02	
38.30	8.35985E-01	3.59068E 01	2.93191E 00	-6.83444E-04	-2.81879E 00	3.69406E 01	4.57971E 02	
38.40	8.35978E-01	3.60076E 01	2.94984E 00	-6.83033E-04	-2.83650E 00	3.70420E 01	4.58905E 02	
38.50	8.35971E-01	3.61085E 01	2.96783E 00	-6.82610E-04	-2.85427E 00	3.71435E 01	4.59841E 02	
38.60	8.35964E-01	3.62095E 01	2.98588E 00	-6.82159E-04	-2.87210E 00	3.72451E 01	4.60782E 02	
38.70	8.35957E-01	3.63104E 01	3.00398E 00	-6.81691E-04	-2.88999E 00	3.73467E 01	4.61726E 02	
38.80	8.35950E-01	3.64115E 01	3.02215E 00	-6.81204E-04	-2.90793E 00	3.74483E 01	4.62674E 02	
38.90	8.35943E-01	3.65126E 01	3.04038E 00	-6.80715E-04	-2.92594E 00	3.75500E 01	4.63623E 02	
39.00	8.35936E-01	3.66137E 01	3.05866E 00	-6.80199E-04	-2.94401E 00	3.76518E 01	4.64576E 02	
39.10	8.35929E-01	3.67148E 01	3.07700E 00	-6.79669E-04	-2.96213E 00	3.77535E 01	4.65532E 02	
39.20	8.35922E-01	3.68161E 01	3.09540E 00	-6.79125E-04	-2.98031E 00	3.78554E 01	4.66491E 02	
39.30	8.35915E-01	3.69173E 01	3.11387E 00	-6.78571E-04	-2.99856E 00	3.79573E 01	4.67453E 02	
39.40	8.35908E-01	3.70186E 01	3.13239E 00	-6.77995E-04	-3.01686E 00	3.80592E 01	4.68418E 02	
39.50	8.35901E-01	3.71200E 01	3.15097E 00	-6.77404E-04	-3.03523E 00	3.81612E 01	4.69386E 02	
39.60	8.35894E-01	3.72214E 01	3.16961E 00	-6.76789E-04	-3.05365E 00	3.82632E 01	4.70360E 02	
39.70	8.35887E-01	3.73228E 01	3.18831E 00	-6.76155E-04	-3.07213E 00	3.83653E 01	4.71338E 02	
39.80	8.35880E-01	3.74243E 01	3.20707E 00	-6.75526E-04	-3.09067E 00	3.84674E 01	4.72314E 02	
39.90	8.35873E-01	3.75259E 01	3.22589E 00	-6.74872E-04	-3.10928E 00	3.85696E 01	4.73296E 02	
40.00	8.35866E-01	3.76275E 01	3.24476E 00	-6.74199E-04	-3.12794E 00	3.86718E 01	4.74283E 02	
40.10	8.35859E-01	3.77291E 01	3.26370E 00	-6.73515E-04	-3.14666E 00	3.87741E 01	4.75272E 02	
40.20	8.35852E-01	3.78308E 01	3.28270E 00	-6.72808E-04	-3.16544E 00	3.88764E 01	4.76266E 02	
40.30	8.35845E-01	3.79325E 01	3.30176E 00	-6.72096E-04	-3.18428E 00	3.89788E 01	4.77261E 02	
40.40	8.35839E-01	3.80343E 01	3.32087E 00	-6.71373E-04	-3.20319E 00	3.90812E 01	4.78259E 02	
40.50	8.35832E-01	3.81362E 01	3.34005E 00	-6.70616E-04	-3.22215E 00	3.91837E 01	4.79265E 02	
40.60	8.35825E-01	3.82380E 01	3.35929E 00	-6.69854E-04	-3.24117E 00	3.92862E 01	4.80272E 02	
40.70	8.35818E-01	3.83400E 01	3.37859E 00	-6.69084E-04	-3.26025E 00	3.93888E 01	4.81281E 02	
40.80	8.35812E-01	3.84419E 01	3.39794E 00	-6.68294E-04	-3.27940E 00	3.94914E 01	4.82295E 02	
40.90	8.35805E-01	3.85440E 01	3.41736E 00	-6.67483E-04	-3.29860E 00	3.95941E 01	4.83314E 02	
41.00	8.35798E-01	3.86460E 01	3.43684E 00	-6.66666E-04	-3.31786E 00	3.96969E 01	4.84335E 02	
41.10	8.35791E-01	3.87482E 01	3.45638E 00	-6.65828E-04	-3.33719E 00	3.97996E 01	4.85362E 02	
41.20	8.35785E-01	3.88503E 01	3.47598E 00	-6.64971E-04	-3.35657E 00	3.99025E 01	4.86393E 02	
41.30	8.35778E-01	3.89525E 01	3.49564E 00	-6.64110E-04	-3.37602E 00	4.00053E 01	4.87425E 02	
41.40	8.35771E-01	3.90548E 01	3.51536E 00	-6.63227E-04	-3.39553E 00	4.01083E 01	4.88463E 02	
41.50	8.35765E-01	3.91571E 01	3.53514E 00	-6.62335E-04	-3.41510E 00	4.02113E 01	4.89504E 02	
41.60	8.35758E-01	3.92595E 01	3.55498E 00	-6.61430E-04	-3.43472E 00	4.03143E 01	4.90549E 02	
41.70	8.35751E-01	3.93619E 01	3.57488E 00	-6.60502E-04	-3.45441E 00	4.04174E 01	4.91599E 02	
41.80	8.35745E-01	3.94644E 01	3.59484E 00	-6.59560E-04	-3.47416E 00	4.05205E 01	4.92654E 02	
41.90	8.35738E-01	3.95669E 01	3.61487E 00	-6.58612E-04	-3.49398E 00	4.06237E 01	4.93710E 02	
42.00	8.35732E-01	3.96695E 01	3.63495E 00	-6.57651E-04	-3.51385E 00	4.07270E 01	4.94771E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z=8$  $A=17$  $\rho=1.2A^{1/3}F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
36.10	1.92990E-03	3.12562E 00	1.43872E-01	-2.43641E 01	-1.37633E-01	3.21353E 00	4.02340E-02
36.20	1.94060E-03	3.14300E 00	1.45177E-01	-2.43648E 01	-1.38906E-01	3.23116E 00	4.02351E-02
36.30	1.95133E-03	3.16043E 00	1.46489E-01	-2.43655E 01	-1.40187E-01	3.24883E 00	4.02361E-02
36.40	1.96209E-03	3.17791E 00	1.47809E-01	-2.43662E 01	-1.41476E-01	3.26655E 00	4.02372E-02
36.50	1.97287E-03	3.19544E 00	1.49137E-01	-2.43669E 01	-1.42772E-01	3.28432E 00	4.02382E-02
36.60	1.98369E-03	3.21301E 00	1.50472E-01	-2.43676E 01	-1.44076E-01	3.30213E 00	4.02392E-02
36.70	1.99454E-03	3.23063E 00	1.51816E-01	-2.43683E 01	-1.45388E-01	3.31999E 00	4.02402E-02
36.80	2.00541E-03	3.24830E 00	1.53167E-01	-2.43690E 01	-1.46708E-01	3.33790E 00	4.02412E-02
36.90	2.01632E-03	3.26602E 00	1.54527E-01	-2.43696E 01	-1.48036E-01	3.35586E 00	4.02422E-02
37.00	2.02725E-03	3.28378E 00	1.55894E-01	-2.43703E 01	-1.49371E-01	3.37387E 00	4.02432E-02
37.10	2.03822E-03	3.30159E 00	1.57269E-01	-2.43710E 01	-1.50714E-01	3.39192E 00	4.02442E-02
37.20	2.04921E-03	3.31944E 00	1.58653E-01	-2.43717E 01	-1.52066E-01	3.41002E 00	4.02452E-02
37.30	2.06023E-03	3.33735E 00	1.60044E-01	-2.43723E 01	-1.53425E-01	3.42816E 00	4.02462E-02
37.40	2.07129E-03	3.35530E 00	1.61443E-01	-2.43730E 01	-1.54792E-01	3.44636E 00	4.02472E-02
37.50	2.08237E-03	3.37330E 00	1.62851E-01	-2.43736E 01	-1.56167E-01	3.46460E 00	4.02482E-02
37.60	2.09348E-03	3.39135E 00	1.64266E-01	-2.43743E 01	-1.57551E-01	3.48289E 00	4.02492E-02
37.70	2.10462E-03	3.40944E 00	1.65690E-01	-2.43750E 01	-1.58942E-01	3.50122E 00	4.02501E-02
37.80	2.11579E-03	3.42758E 00	1.67122E-01	-2.43756E 01	-1.60341E-01	3.51960E 00	4.02511E-02
37.90	2.12699E-03	3.44577E 00	1.68562E-01	-2.43762E 01	-1.61749E-01	3.53803E 00	4.02520E-02
38.00	2.13822E-03	3.46400E 00	1.70010E-01	-2.43769E 01	-1.63164E-01	3.55651E 00	4.02530E-02
38.10	2.14948E-03	3.48229E 00	1.71466E-01	-2.43775E 01	-1.64588E-01	3.57504E 00	4.02540E-02
38.20	2.16077E-03	3.50062E 00	1.72931E-01	-2.43782E 01	-1.66020E-01	3.59361E 00	4.02549E-02
38.30	2.17209E-03	3.51899E 00	1.74403E-01	-2.43788E 01	-1.67460E-01	3.61223E 00	4.02558E-02
38.40	2.18344E-03	3.53742E 00	1.75884E-01	-2.43794E 01	-1.68908E-01	3.63089E 00	4.02568E-02
38.50	2.19482E-03	3.55589E 00	1.77374E-01	-2.43800E 01	-1.70364E-01	3.64961E 00	4.02577E-02
38.60	2.20623E-03	3.57441E 00	1.78871E-01	-2.43806E 01	-1.71829E-01	3.66837E 00	4.02586E-02
38.70	2.21766E-03	3.59297E 00	1.80377E-01	-2.43813E 01	-1.73301E-01	3.68717E 00	4.02595E-02
38.80	2.22913E-03	3.61159E 00	1.81892E-01	-2.43819E 01	-1.74783E-01	3.70603E 00	4.02605E-02
38.90	2.24063E-03	3.63025E 00	1.83414E-01	-2.43825E 01	-1.76272E-01	3.72493E 00	4.02614E-02
39.00	2.25215E-03	3.64895E 00	1.84945E-01	-2.43831E 01	-1.77770E-01	3.74388E 00	4.02623E-02
39.10	2.26371E-03	3.66771E 00	1.86485E-01	-2.43837E 01	-1.79276E-01	3.76287E 00	4.02632E-02
39.20	2.27529E-03	3.68651E 00	1.88033E-01	-2.43843E 01	-1.80790E-01	3.78192E 00	4.02641E-02
39.30	2.28690E-03	3.70536E 00	1.89589E-01	-2.43849E 01	-1.82313E-01	3.80101E 00	4.02650E-02
39.40	2.29855E-03	3.72425E 00	1.91154E-01	-2.43855E 01	-1.83844E-01	3.82014E 00	4.02659E-02
39.50	2.31022E-03	3.74320E 00	1.92728E-01	-2.43861E 01	-1.85384E-01	3.83933E 00	4.02668E-02
39.60	2.32192E-03	3.76219E 00	1.94310E-01	-2.43867E 01	-1.86932E-01	3.85856E 00	4.02676E-02
39.70	2.33366E-03	3.78122E 00	1.95900E-01	-2.43872E 01	-1.88489E-01	3.87784E 00	4.02685E-02
39.80	2.34542E-03	3.80031E 00	1.97499E-01	-2.43878E 01	-1.90054E-01	3.89716E 00	4.02694E-02
39.90	2.35721E-03	3.81944E 00	1.99107E-01	-2.43884E 01	-1.91628E-01	3.91654E 00	4.02703E-02
40.00	2.36903E-03	3.83862E 00	2.00724E-01	-2.43890E 01	-1.93210E-01	3.93596E 00	4.02711E-02
40.10	2.38088E-03	3.85784E 00	2.02349E-01	-2.43895E 01	-1.94801E-01	3.95542E 00	4.02720E-02
40.20	2.39276E-03	3.87711E 00	2.03982E-01	-2.43901E 01	-1.96401E-01	3.97494E 00	4.02729E-02
40.30	2.40467E-03	3.89643E 00	2.05625E-01	-2.43907E 01	-1.98009E-01	3.99450E 00	4.02737E-02
40.40	2.41661E-03	3.91580E 00	2.07276E-01	-2.43913E 01	-1.99625E-01	4.01410E 00	4.02746E-02
40.50	2.42858E-03	3.93521E 00	2.08936E-01	-2.43918E 01	-2.01251E-01	4.03376E 00	4.02754E-02
40.60	2.44058E-03	3.95467E 00	2.10604E-01	-2.43924E 01	-2.02885E-01	4.05346E 00	4.02762E-02
40.70	2.45261E-03	3.97418E 00	2.12282E-01	-2.43929E 01	-2.04528E-01	4.07321E 00	4.02771E-02
40.80	2.46466E-03	3.99373E 00	2.13968E-01	-2.43935E 01	-2.06179E-01	4.09300E 00	4.02779E-02
40.90	2.47675E-03	4.01333E 00	2.15663E-01	-2.43940E 01	-2.07839E-01	4.11285E 00	4.02788E-02
41.00	2.48887E-03	4.03298E 00	2.17367E-01	-2.43946E 01	-2.09508E-01	4.13273E 00	4.02796E-02
41.10	2.50101E-03	4.05268E 00	2.19080E-01	-2.43951E 01	-2.11186E-01	4.15267E 00	4.02804E-02
41.20	2.51319E-03	4.07242E 00	2.20801E-01	-2.43956E 01	-2.12873E-01	4.17265E 00	4.02812E-02
41.30	2.52539E-03	4.09221E 00	2.22532E-01	-2.43962E 01	-2.14568E-01	4.19268E 00	4.02821E-02
41.40	2.53763E-03	4.11204E 00	2.24271E-01	-2.43967E 01	-2.16273E-01	4.21276E 00	4.02829E-02
41.50	2.54989E-03	4.13192E 00	2.26020E-01	-2.43972E 01	-2.17986E-01	4.23288E 00	4.02837E-02
41.60	2.56218E-03	4.15185E 00	2.27777E-01	-2.43978E 01	-2.19708E-01	4.25305E 00	4.02845E-02
41.70	2.57451E-03	4.17183E 00	2.29544E-01	-2.43983E 01	-2.21439E-01	4.27327E 00	4.02853E-02
41.80	2.58686E-03	4.19185E 00	2.31319E-01	-2.43988E 01	-2.23179E-01	4.29353E 00	4.02861E-02
41.90	2.59924E-03	4.21192E 00	2.33104E-01	-2.43993E 01	-2.24928E-01	4.31385E 00	4.02869E-02
42.00	2.61165E-03	4.23204E 00	2.34898E-01	-2.43999E 01	-2.26686E-01	4.33420E 00	4.02877E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=9$	$A=18$	$\rho=1.2 A^{1/3} F$				
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
0.10	6.90970E-02	2.21242E-03	-4.60963E-05	3.07623E-01	9.74640E-04	3.71063E-02	3.44287E 00
0.20	3.02548E-01	1.61325E-02	-3.35475E-04	1.44759E-01	4.05790E-03	1.54729E-01	5.70489E 00
0.30	4.63310E-01	4.29280E-02	-8.89859E-04	9.59756E-02	7.47031E-03	2.85562E-01	8.30469E 00
0.40	5.63023E-01	8.13495E-02	-1.67901E-03	7.20766E-02	1.08604E-02	4.16579E-01	1.09847E 01
0.50	6.27843E-01	1.29848E-01	-2.66552E-03	5.77939E-02	1.41483E-02	5.45025E-01	1.36980E 01
0.60	6.72114E-01	1.86826E-01	-3.81072E-03	4.82563E-02	1.73072E-02	6.70093E-01	1.64253E 01
0.70	7.03589E-01	2.50780E-01	-5.07808E-03	4.14156E-02	2.03289E-02	7.91624E-01	1.91557E 01
0.80	7.26691E-01	3.20374E-01	-6.43510E-03	3.62583E-02	2.32140E-02	9.09742E-01	2.18818E 01
0.90	7.44095E-01	3.94476E-01	-7.85413E-03	3.22241E-02	2.59673E-02	1.02471E 00	2.45984E 01
1.00	7.57489E-01	4.72152E-01	-9.31235E-03	2.89780E-02	2.85962E-02	1.13684E 00	2.73019E 01
1.10	7.67988E-01	5.52648E-01	-1.07913E-02	2.63070E-02	3.11085E-02	1.24647E 00	2.99893E 01
1.20	7.76346E-01	6.35369E-01	-1.22763E-02	2.40690E-02	3.35120E-02	1.35390E 00	3.26586E 01
1.30	7.83091E-01	7.19842E-01	-1.37557E-02	2.21655E-02	3.58142E-02	1.45941E 00	3.53085E 01
1.40	7.88601E-01	8.05697E-01	-1.52205E-02	2.05260E-02	3.80217E-02	1.56328E 00	3.79377E 01
1.50	7.93147E-01	8.92645E-01	-1.66634E-02	1.90987E-02	4.01404E-02	1.66571E 00	4.05455E 01
1.60	7.96938E-01	9.80461E-01	-1.80789E-02	1.78445E-02	4.21755E-02	1.76689E 00	4.31315E 01
1.70	8.00122E-01	1.06897E 00	-1.94625E-02	1.67334E-02	4.41314E-02	1.86701E 00	4.56952E 01
1.80	8.02819E-01	1.15802E 00	-2.08108E-02	1.57423E-02	4.60119E-02	1.96619E 00	4.82364E 01
1.90	8.05120E-01	1.24752E 00	-2.21211E-02	1.48524E-02	4.78204E-02	2.06456E 00	5.07552E 01
2.00	8.07094E-01	1.33737E 00	-2.33911E-02	1.40490E-02	4.95597E-02	2.16221E 00	5.32513E 01
2.10	8.08798E-01	1.42751E 00	-2.46191E-02	1.33200E-02	5.12323E-02	2.25925E 00	5.57249E 01
2.20	8.10276E-01	1.51788E 00	-2.58038E-02	1.26555E-02	5.28402E-02	2.35575E 00	5.81762E 01
2.30	8.11565E-01	1.60844E 00	-2.69439E-02	1.20472E-02	5.43851E-02	2.45176E 00	6.06051E 01
2.40	8.12694E-01	1.69915E 00	-2.80388E-02	1.14883E-02	5.58688E-02	2.54736E 00	6.30121E 01
2.50	8.13686E-01	1.78998E 00	-2.90875E-02	1.09730E-02	5.72924E-02	2.64258E 00	6.53970E 01
2.60	8.14562E-01	1.88092E 00	-3.00895E-02	1.04963E-02	5.86573E-02	2.73746E 00	6.77603E 01
2.70	8.15337E-01	1.97193E 00	-3.10444E-02	1.00542E-02	5.99643E-02	2.83205E 00	7.01022E 01
2.80	8.16025E-01	2.06302E 00	-3.19517E-02	9.64280E-03	6.12144E-02	2.92638E 00	7.24228E 01
2.90	8.16639E-01	2.15416E 00	-3.28112E-02	9.25918E-03	6.24083E-02	3.02047E 00	7.47224E 01
3.00	8.17186E-01	2.24535E 00	-3.36225E-02	8.90057E-03	6.35468E-02	3.11435E 00	7.70014E 01
3.10	8.17677E-01	2.33657E 00	-3.43854E-02	8.56460E-03	6.46303E-02	3.20803E 00	7.92598E 01
3.20	8.18117E-01	2.42782E 00	-3.50998E-02	8.24918E-03	6.56595E-02	3.30155E 00	8.14980E 01
3.30	8.18512E-01	2.51910E 00	-3.57655E-02	7.95248E-03	6.66348E-02	3.39491E 00	8.37162E 01
3.40	8.18868E-01	2.61040E 00	-3.63824E-02	7.67290E-03	6.75566E-02	3.48813E 00	8.59148E 01
3.50	8.19189E-01	2.70172E 00	-3.69503E-02	7.40899E-03	6.84252E-02	3.58122E 00	8.80939E 01
3.60	8.19480E-01	2.79305E 00	-3.74692E-02	7.15948E-03	6.92412E-02	3.67420E 00	9.02538E 01
3.70	8.19742E-01	2.88439E 00	-3.79391E-02	6.92320E-03	7.00045E-02	3.76707E 00	9.23947E 01
3.80	8.19980E-01	2.97574E 00	-3.83598E-02	6.69914E-03	7.07156E-02	3.85984E 00	9.45170E 01
3.90	8.20195E-01	3.06710E 00	-3.87312E-02	6.48637E-03	7.13747E-02	3.95253E 00	9.66208E 01
4.00	8.20391E-01	3.15847E 00	-3.90534E-02	6.28407E-03	7.19819E-02	4.04514E 00	9.87064E 01
4.10	8.20568E-01	3.24984E 00	-3.93264E-02	6.09149E-03	7.25376E-02	4.13768E 00	1.00774E 02
4.20	8.20729E-01	3.34122E 00	-3.95500E-02	5.90794E-03	7.30418E-02	4.23015E 00	1.02824E 02
4.30	8.20877E-01	3.43260E 00	-3.97243E-02	5.73278E-03	7.34947E-02	4.32257E 00	1.04857E 02
4.40	8.21009E-01	3.52398E 00	-3.98491E-02	5.56547E-03	7.38964E-02	4.41492E 00	1.06872E 02
4.50	8.21131E-01	3.61537E 00	-3.99247E-02	5.40552E-03	7.42471E-02	4.50723E 00	1.08870E 02
4.60	8.21240E-01	3.70676E 00	-3.99507E-02	5.25241E-03	7.45469E-02	4.59949E 00	1.10852E 02
4.70	8.21341E-01	3.79816E 00	-3.99274E-02	5.10573E-03	7.47958E-02	4.69171E 00	1.12817E 02
4.80	8.21432E-01	3.88955E 00	-3.98546E-02	4.96510E-03	7.49940E-02	4.78388E 00	1.14766E 02
4.90	8.21514E-01	3.98095E 00	-3.97324E-02	4.83013E-03	7.51416E-02	4.87603E 00	1.16698E 02
5.00	8.21590E-01	4.07236E 00	-3.95607E-02	4.70051E-03	7.52386E-02	4.96814E 00	1.18615E 02
5.10	8.21657E-01	4.16376E 00	-3.93396E-02	4.57591E-03	7.52851E-02	5.06022E 00	1.20516E 02
5.20	8.21719E-01	4.25517E 00	-3.90690E-02	4.45605E-03	7.52812E-02	5.15228E 00	1.22402E 02
5.30	8.21774E-01	4.34658E 00	-3.87489E-02	4.34067E-03	7.52269E-02	5.24431E 00	1.24272E 02
5.40	8.21824E-01	4.43800E 00	-3.83793E-02	4.22953E-03	7.51223E-02	5.33632E 00	1.26128E 02
5.50	8.21869E-01	4.52942E 00	-3.79602E-02	4.12238E-03	7.49675E-02	5.42830E 00	1.27969E 02
5.60	8.21910E-01	4.62084E 00	-3.74915E-02	4.01905E-03	7.47624E-02	5.52028E 00	1.29795E 02
5.70	8.21946E-01	4.71227E 00	-3.69734E-02	3.91930E-03	7.45071E-02	5.61223E 00	1.31606E 02
5.80	8.21979E-01	4.80370E 00	-3.64058E-02	3.82297E-03	7.42017E-02	5.70417E 00	1.33404E 02
5.90	8.22007E-01	4.89514E 00	-3.57886E-02	3.72988E-03	7.38462E-02	5.79610E 00	1.35187E 02
6.00	8.22033E-01	4.98658E 00	-3.51220E-02	3.63987E-03	7.34406E-02	5.88801E 00	1.36957E 02

## ELECTRON RADIAL FUNCTIONS

 $Z = 9$  $A = 18$  $\rho = 1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	1.79636E-09	6.26647E-07	-7.36158E-09	-1.40990E 00	1.79659E-07	1.19728E-05	3.08934E-01
0.20	2.43848E-08	8.81659E-06	-1.03361E-07	-3.12274E 00	1.31693E-06	8.79044E-05	1.48247E-01
0.30	7.95434E-08	3.49549E-05	-4.08411E-07	-4.68238E 00	3.53790E-06	2.36776E-04	1.01728E-01
0.40	1.68509E-07	8.81243E-05	-1.02490E-06	-6.12707E 00	6.78974E-06	4.56049E-04	8.00427E-02
0.50	2.90973E-07	1.75662E-04	-2.03124E-06	-7.45429E 00	1.10043E-05	7.42460E-04	6.78769E-02
0.60	4.46397E-07	3.03155E-04	-3.48170E-06	-8.66175E 00	1.61102E-05	1.09275E-03	6.03388E-02
0.70	6.34261E-07	4.74645E-04	-5.40912E-06	-9.75143E 00	2.20387E-05	1.50393E-03	5.53712E-02
0.80	8.54120E-07	6.92908E-04	-7.82876E-06	-1.07291E 01	2.87262E-05	1.97344E-03	5.19580E-02
0.90	1.10561E-06	9.59770E-04	-1.07427E-05	-1.16030E 01	3.61152E-05	2.49916E-03	4.95419E-02
1.00	1.38844E-06	1.27637E-03	-1.41432E-05	-1.23827E 01	4.41548E-05	3.07941E-03	4.77933E-02
1.10	1.70238E-06	1.64338E-03	-1.80160E-05	-1.30778E 01	5.27997E-05	3.71285E-03	4.65064E-02
1.20	2.04724E-06	2.06114E-03	-2.23425E-05	-1.36980E 01	6.20091E-05	4.39848E-03	4.55472E-02
1.30	2.42288E-06	2.52982E-03	-2.71011E-05	-1.42521E 01	7.17462E-05	5.13551E-03	4.48256E-02
1.40	2.82920E-06	3.04942E-03	-3.22683E-05	-1.47481E 01	8.19775E-05	5.92335E-03	4.42792E-02
1.50	3.26610E-06	3.61991E-03	-3.78196E-05	-1.51931E 01	9.26713E-05	6.76156E-03	4.38639E-02
1.60	3.73350E-06	4.24120E-03	-4.37299E-05	-1.55935E 01	1.03798E-04	7.64982E-03	4.35480E-02
1.70	4.23136E-06	4.91317E-03	-4.99739E-05	-1.59548E 01	1.15329E-04	8.58786E-03	4.33081E-02
1.80	4.75962E-06	5.63570E-03	-5.65259E-05	-1.62817E 01	1.27238E-04	9.57551E-03	4.31271E-02
1.90	5.31825E-06	6.40868E-03	-6.33604E-05	-1.65783E 01	1.39498E-04	1.06126E-02	4.29919E-02
2.00	5.90722E-06	7.23199E-03	-7.04518E-05	-1.68482E 01	1.52083E-04	1.16991E-02	4.28927E-02
2.10	6.52649E-06	8.10554E-03	-7.77747E-05	-1.70945E 01	1.64968E-04	1.28348E-02	4.28218E-02
2.20	7.17605E-06	9.02922E-03	-8.53039E-05	-1.73200E 01	1.78128E-04	1.40198E-02	4.27734E-02
2.30	7.85588E-06	1.00029E-02	-9.30140E-05	-1.75269E 01	1.91538E-04	1.52540E-02	4.27429E-02
2.40	8.56596E-06	1.10266E-02	-1.00880E-04	-1.77172E 01	2.05173E-04	1.65373E-02	4.27267E-02
2.50	9.30629E-06	1.21002E-02	-1.08877E-04	-1.78928E 01	2.19008E-04	1.78698E-02	4.27218E-02
2.60	1.00768E-05	1.32237E-02	-1.16980E-04	-1.80551E 01	2.33021E-04	1.92514E-02	4.27261E-02
2.70	1.08776E-05	1.43969E-02	-1.25164E-04	-1.82055E 01	2.47186E-04	2.06821E-02	4.27376E-02
2.80	1.17086E-05	1.56198E-02	-1.33404E-04	-1.83452E 01	2.61478E-04	2.21619E-02	4.27550E-02
2.90	1.25698E-05	1.68924E-02	-1.41676E-04	-1.84752E 01	2.75875E-04	2.36908E-02	4.27770E-02
3.00	1.34612E-05	1.82146E-02	-1.49955E-04	-1.85964E 01	2.90352E-04	2.52688E-02	4.28026E-02
3.10	1.43827E-05	1.95865E-02	-1.58217E-04	-1.87097E 01	3.04884E-04	2.68959E-02	4.28311E-02
3.20	1.53345E-05	2.10079E-02	-1.66437E-04	-1.88157E 01	3.19449E-04	2.85721E-02	4.28618E-02
3.30	1.63164E-05	2.24789E-02	-1.74591E-04	-1.89151E 01	3.34021E-04	3.02974E-02	4.28943E-02
3.40	1.73285E-05	2.39993E-02	-1.82654E-04	-1.90085E 01	3.48576E-04	3.20719E-02	4.29280E-02
3.50	1.83708E-05	2.55693E-02	-1.90602E-04	-1.90963E 01	3.63092E-04	3.38954E-02	4.29626E-02
3.60	1.94433E-05	2.71887E-02	-1.98410E-04	-1.91791E 01	3.77543E-04	3.57681E-02	4.29978E-02
3.70	2.05459E-05	2.88576E-02	-2.06055E-04	-1.92572E 01	3.91906E-04	3.76899E-02	4.30335E-02
3.80	2.16787E-05	3.05759E-02	-2.13511E-04	-1.93311E 01	4.06157E-04	3.96607E-02	4.30693E-02
3.90	2.28416E-05	3.23436E-02	-2.20755E-04	-1.94009E 01	4.20271E-04	4.16808E-02	4.31052E-02
4.00	2.40347E-05	3.41607E-02	-2.27763E-04	-1.94671E 01	4.34226E-04	4.37499E-02	4.31410E-02
4.10	2.52579E-05	3.60272E-02	-2.34510E-04	-1.95299E 01	4.47995E-04	4.58682E-02	4.31765E-02
4.20	2.65113E-05	3.79431E-02	-2.40972E-04	-1.95895E 01	4.61557E-04	4.80357E-02	4.32118E-02
4.30	2.77949E-05	3.99084E-02	-2.47124E-04	-1.96462E 01	4.74887E-04	5.02523E-02	4.32467E-02
4.40	2.91085E-05	4.19229E-02	-2.52943E-04	-1.97002E 01	4.87960E-04	5.25180E-02	4.32812E-02
4.50	3.04524E-05	4.39869E-02	-2.58405E-04	-1.97516E 01	5.00752E-04	5.48329E-02	4.33153E-02
4.60	3.18263E-05	4.61002E-02	-2.63485E-04	-1.98007E 01	5.13241E-04	5.71969E-02	4.33488E-02
4.70	3.32305E-05	4.82628E-02	-2.68159E-04	-1.98476E 01	5.25402E-04	5.96101E-02	4.33819E-02
4.80	3.46647E-05	5.04747E-02	-2.72403E-04	-1.98923E 01	5.37210E-04	6.20725E-02	4.34143E-02
4.90	3.61291E-05	5.27360E-02	-2.76193E-04	-1.99352E 01	5.48642E-04	6.45840E-02	4.34462E-02
5.00	3.76236E-05	5.50465E-02	-2.79505E-04	-1.99762E 01	5.59673E-04	6.71447E-02	4.34776E-02
5.10	3.91482E-05	5.74064E-02	-2.82314E-04	-2.00155E 01	5.70281E-04	6.97546E-02	4.35084E-02
5.20	4.07030E-05	5.98155E-02	-2.84597E-04	-2.00532E 01	5.80440E-04	7.24136E-02	4.35386E-02
5.30	4.22879E-05	6.22740E-02	-2.86329E-04	-2.00894E 01	5.90127E-04	7.51218E-02	4.35682E-02
5.40	4.39029E-05	6.47817E-02	-2.87486E-04	-2.01241E 01	5.99317E-04	7.78792E-02	4.35973E-02
5.50	4.55480E-05	6.73388E-02	-2.88045E-04	-2.01575E 01	6.07987E-04	8.06858E-02	4.36257E-02
5.60	4.72233E-05	6.99451E-02	-2.87980E-04	-2.01896E 01	6.16113E-04	8.35415E-02	4.36537E-02
5.70	4.89288E-05	7.26006E-02	-2.87269E-04	-2.02206E 01	6.23671E-04	8.64465E-02	4.36810E-02
5.80	5.06643E-05	7.53055E-02	-2.85886E-04	-2.02504E 01	6.30635E-04	8.94006E-02	4.37078E-02
5.90	5.24299E-05	7.80596E-02	-2.83808E-04	-2.02791E 01	6.36984E-04	9.24039E-02	4.37341E-02
6.00	5.42257E-05	8.08630E-02	-2.81011E-04	-2.03068E 01	6.42692E-04	9.54564E-02	4.37598E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=9$	$A=18$	$\rho=1.2 A^{1/3} F$				
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
6.10	8.22055E-01	5.07802E 00	-3.44057E-02	3.55280E-03	7.29848E-02	5.97992E 00	1.38713E 02
6.20	8.22074E-01	5.16947E 00	-3.36399E-02	3.46853E-03	7.24791E-02	6.07181E 00	1.40455E 02
6.30	8.22091E-01	5.26093E 00	-3.28246E-02	3.38691E-03	7.19234E-02	6.16370E 00	1.42184E 02
6.40	8.22104E-01	5.35239E 00	-3.19598E-02	3.30784E-03	7.13177E-02	6.25558E 00	1.43900E 02
6.50	8.22117E-01	5.44386E 00	-3.10453E-02	3.23119E-03	7.06621E-02	6.34746E 00	1.45604E 02
6.60	8.22127E-01	5.53533E 00	-3.00813E-02	3.15686E-03	6.99565E-02	6.43933E 00	1.47294E 02
6.70	8.22134E-01	5.62681E 00	-2.90678E-02	3.08475E-03	6.92009E-02	6.53120E 00	1.48972E 02
6.80	8.22139E-01	5.71829E 00	-2.80046E-02	3.01474E-03	6.83954E-02	6.62306E 00	1.50637E 02
6.90	8.22143E-01	5.80979E 00	-2.68919E-02	2.94677E-03	6.75401E-02	6.71493E 00	1.52291E 02
7.00	8.22146E-01	5.90129E 00	-2.57296E-02	2.88072E-03	6.66348E-02	6.80679E 00	1.53931E 02
7.10	8.22147E-01	5.99280E 00	-2.45177E-02	2.81656E-03	6.56796E-02	6.89865E 00	1.55561E 02
7.20	8.22147E-01	6.08431E 00	-2.32562E-02	2.75416E-03	6.46746E-02	6.99052E 00	1.57178E 02
7.30	8.22145E-01	6.17583E 00	-2.19450E-02	2.69349E-03	6.36197E-02	7.08238E 00	1.58784E 02
7.40	8.22142E-01	6.26736E 00	-2.05843E-02	2.63445E-03	6.25149E-02	7.17424E 00	1.60378E 02
7.50	8.22137E-01	6.35890E 00	-1.91739E-02	2.57700E-03	6.13602E-02	7.26611E 00	1.61961E 02
7.60	8.22132E-01	6.45045E 00	-1.77139E-02	2.52106E-03	6.01557E-02	7.35798E 00	1.63533E 02
7.70	8.22126E-01	6.54200E 00	-1.62043E-02	2.46657E-03	5.89013E-02	7.44986E 00	1.65094E 02
7.80	8.22119E-01	6.63357E 00	-1.46450E-02	2.41351E-03	5.75971E-02	7.54174E 00	1.66644E 02
7.90	8.22111E-01	6.72513E 00	-1.30360E-02	2.36178E-03	5.62430E-02	7.63362E 00	1.68183E 02
8.00	8.22102E-01	6.81671E 00	-1.13774E-02	2.31135E-03	5.48390E-02	7.72551E 00	1.69712E 02
8.10	8.22092E-01	6.90831E 00	-9.66912E-03	2.26218E-03	5.33852E-02	7.81740E 00	1.71230E 02
8.20	8.22082E-01	6.99990E 00	-7.91115E-03	2.21422E-03	5.18815E-02	7.90931E 00	1.72738E 02
8.30	8.22071E-01	7.09151E 00	-6.10349E-03	2.16742E-03	5.03280E-02	8.00121E 00	1.74236E 02
8.40	8.22059E-01	7.18313E 00	-4.24613E-03	2.12175E-03	4.87246E-02	8.09313E 00	1.75724E 02
8.50	8.22047E-01	7.27476E 00	-2.33906E-03	2.07716E-03	4.70714E-02	8.18505E 00	1.77202E 02
8.60	8.22035E-01	7.36640E 00	-3.82275E-04	2.03362E-03	4.53683E-02	8.27698E 00	1.78670E 02
8.70	8.22022E-01	7.45804E 00	1.62424E-03	1.99110E-03	4.36153E-02	8.36892E 00	1.80129E 02
8.80	8.22008E-01	7.54970E 00	3.68048E-03	1.94954E-03	4.18124E-02	8.46086E 00	1.81578E 02
8.90	8.21994E-01	7.64137E 00	5.78648E-03	1.90895E-03	3.99596E-02	8.55282E 00	1.83018E 02
9.00	8.21980E-01	7.73305E 00	7.94223E-03	1.86926E-03	3.80570E-02	8.64479E 00	1.84448E 02
9.10	8.21965E-01	7.82474E 00	1.01477E-02	1.83045E-03	3.61045E-02	8.73676E 00	1.85869E 02
9.20	8.21949E-01	7.91643E 00	1.24030E-02	1.79251E-03	3.41020E-02	8.82874E 00	1.87281E 02
9.30	8.21934E-01	8.00815E 00	1.47081E-02	1.75540E-03	3.20497E-02	8.92074E 00	1.88685E 02
9.40	8.21918E-01	8.09986E 00	1.70630E-02	1.71908E-03	2.99474E-02	9.01274E 00	1.90079E 02
9.50	8.21901E-01	8.19159E 00	1.94676E-02	1.68355E-03	2.77952E-02	9.10475E 00	1.91465E 02
9.60	8.21885E-01	8.28332E 00	2.19221E-02	1.64877E-03	2.55931E-02	9.19678E 00	1.92843E 02
9.70	8.21868E-01	8.37506E 00	2.44264E-02	1.61473E-03	2.33410E-02	9.28882E 00	1.94212E 02
9.80	8.21851E-01	8.46681E 00	2.69804E-02	1.58140E-03	2.10390E-02	9.38087E 00	1.95573E 02
9.90	8.21834E-01	8.55857E 00	2.95844E-02	1.54874E-03	1.86870E-02	9.47293E 00	1.96925E 02
10.00	8.21816E-01	8.65033E 00	3.22381E-02	1.51677E-03	1.62851E-02	9.56501E 00	1.98269E 02
10.10	8.21799E-01	8.74208E 00	3.49416E-02	1.48544E-03	1.38332E-02	9.65709E 00	1.99606E 02
10.20	8.21781E-01	8.83385E 00	3.76950E-02	1.45474E-03	1.13313E-02	9.74920E 00	2.00934E 02
10.30	8.21763E-01	8.92560E 00	4.04981E-02	1.42465E-03	8.77936E-03	9.84131E 00	2.02255E 02
10.40	8.21745E-01	9.01734E 00	4.33509E-02	1.39516E-03	6.17745E-03	9.93343E 00	2.03568E 02
10.50	8.21728E-01	9.10902E 00	4.62533E-02	1.36625E-03	3.52551E-03	1.00256E 01	2.04873E 02
10.60	8.21709E-01	9.20067E 00	4.92053E-02	1.33789E-03	8.23541E-04	1.01177E 01	2.06171E 02
10.70	8.21691E-01	9.29213E 00	5.22060E-02	1.31009E-03	-1.92847E-03	1.02099E 01	2.07461E 02
10.80	8.21672E-01	9.38328E 00	5.52544E-02	1.28282E-03	-4.73055E-03	1.03021E 01	2.08745E 02
10.90	8.21654E-01	9.47348E 00	5.83465E-02	1.25606E-03	-7.58269E-03	1.03943E 01	2.10021E 02
11.00	8.21635E-01	9.55686E 00	6.14438E-02	1.22981E-03	-1.04849E-02	1.04865E 01	2.11289E 02
11.10	8.21617E-01	9.67602E 00	6.48260E-02	1.20405E-03	-1.34372E-02	1.05787E 01	2.12552E 02
11.20	8.21598E-01	9.75844E 00	6.80169E-02	1.17877E-03	-1.64396E-02	1.06709E 01	2.13807E 02
11.30	8.21579E-01	9.84857E 00	7.13082E-02	1.15395E-03	-1.94922E-02	1.07632E 01	2.15055E 02
11.40	8.21560E-01	9.93978E 00	7.46567E-02	1.12958E-03	-2.25949E-02	1.08555E 01	2.16296E 02
11.50	8.21541E-01	1.00314E 01	7.80579E-02	1.10566E-03	-2.57477E-02	1.09478E 01	2.17531E 02
11.60	8.21522E-01	1.01231E 01	8.15098E-02	1.08216E-03	-2.89507E-02	1.10401E 01	2.18759E 02
11.70	8.21503E-01	1.02150E 01	8.50124E-02	1.05909E-03	-3.22038E-02	1.11324E 01	2.19981E 02
11.80	8.21484E-01	1.03070E 01	8.85659E-02	1.03642E-03	-3.55072E-02	1.12247E 01	2.21196E 02
11.90	8.21465E-01	1.03989E 01	9.21696E-02	1.01415E-03	-3.88607E-02	1.13171E 01	2.22405E 02
12.00	8.21446E-01	1.04910E 01	9.58234E-02	9.92283E-04	-4.22645E-02	1.14094E 01	2.23608E 02

## ELECTRON RADIAL FUNCTIONS

$\rho$	$\bar{F}$	$Z=9$			$A=18$			$\rho = 1.2 A^{1/3} F$			Positron
		$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$	
6.10	5.60516E-05	8.37156E-02	-2.77470E-04	-2.03335E 01	6.47736E-04	9.85582E-02	4.37851E-02				
6.20	5.79076E-05	8.66175E-02	-2.73162E-04	-2.03593E 01	6.52091E-04	1.01709E-01	4.38098E-02				
6.30	5.97936E-05	8.95686E-02	-2.68062E-04	-2.03842E 01	6.55733E-04	1.04909E-01	4.38340E-02				
6.40	6.17099E-05	9.25691E-02	-2.62147E-04	-2.04083E 01	6.58639E-04	1.08158E-01	4.38577E-02				
6.50	6.36563E-05	9.56188E-02	-2.55393E-04	-2.04316E 01	6.60785E-04	1.11457E-01	4.38809E-02				
6.60	6.56327E-05	9.87176E-02	-2.47773E-04	-2.04541E 01	6.62145E-04	1.14805E-01	4.39037E-02				
6.70	6.76393E-05	1.01866E-01	-2.39267E-04	-2.04760E 01	6.62697E-04	1.18201E-01	4.39260E-02				
6.80	6.96759E-05	1.05063E-01	-2.29848E-04	-2.04971E 01	6.62416E-04	1.21648E-01	4.39479E-02				
6.90	7.17427E-05	1.08310E-01	-2.19494E-04	-2.05176E 01	6.61279E-04	1.25143E-01	4.39693E-02				
7.00	7.38396E-05	1.11605E-01	-2.08179E-04	-2.05374E 01	6.59261E-04	1.28687E-01	4.39903E-02				
7.10	7.59666E-05	1.14950E-01	-1.95880E-04	-2.05567E 01	6.56338E-04	1.32281E-01	4.40109E-02				
7.20	7.81237E-05	1.18345E-01	-1.82573E-04	-2.05754E 01	6.52486E-04	1.35924E-01	4.40311E-02				
7.30	8.03110E-05	1.21788E-01	-1.68234E-04	-2.05935E 01	6.47681E-04	1.39616E-01	4.40508E-02				
7.40	8.25282E-05	1.25280E-01	-1.52838E-04	-2.06112E 01	6.41899E-04	1.43357E-01	4.40702E-02				
7.50	8.47756E-05	1.28822E-01	-1.36362E-04	-2.06283E 01	6.35116E-04	1.47148E-01	4.40893E-02				
7.60	8.70531E-05	1.32413E-01	-1.18782E-04	-2.06449E 01	6.27308E-04	1.50988E-01	4.41079E-02				
7.70	8.93608E-05	1.36053E-01	-1.00073E-04	-2.06611E 01	6.18451E-04	1.54877E-01	4.41262E-02				
7.80	9.16985E-05	1.39742E-01	-8.02122E-05	-2.06769E 01	6.08521E-04	1.58815E-01	4.41442E-02				
7.90	9.40663E-05	1.43479E-01	-5.91746E-05	-2.06922E 01	5.97494E-04	1.62802E-01	4.41618E-02				
8.00	9.64642E-05	1.47266E-01	-3.69367E-05	-2.07071E 01	5.85345E-04	1.66839E-01	4.41791E-02				
8.10	9.88923E-05	1.51102E-01	-1.34745E-05	-2.07216E 01	5.72052E-04	1.70925E-01	4.41961E-02				
8.20	1.01350E-04	1.54987E-01	1.12359E-05	-2.07357E 01	5.57589E-04	1.75060E-01	4.42127E-02				
8.30	1.03839E-04	1.58919E-01	3.72181E-05	-2.07495E 01	5.41932E-04	1.79244E-01	4.42291E-02				
8.40	1.06357E-04	1.62901E-01	6.44959E-05	-2.07629E 01	5.25058E-04	1.83477E-01	4.42451E-02				
8.50	1.08905E-04	1.66928E-01	9.30919E-05	-2.07760E 01	5.06943E-04	1.87760E-01	4.42609E-02				
8.60	1.11484E-04	1.71003E-01	1.23029E-04	-2.07888E 01	4.87562E-04	1.92092E-01	4.42763E-02				
8.70	1.14092E-04	1.75120E-01	1.54326E-04	-2.08012E 01	4.66892E-04	1.96473E-01	4.42915E-02				
8.80	1.16731E-04	1.79272E-01	1.86997E-04	-2.08134E 01	4.44908E-04	2.00903E-01	4.43064E-02				
8.90	1.19400E-04	1.83425E-01	2.21016E-04	-2.08252E 01	4.21587E-04	2.05382E-01	4.43211E-02				
9.00	1.22099E-04	1.87004E-01	2.55599E-04	-2.08368E 01	3.96903E-04	2.09911E-01	4.43355E-02				
9.10	1.24828E-04	1.92513E-01	2.94296E-04	-2.08481E 01	3.70834E-04	2.14489E-01	4.43496E-02				
9.20	1.27587E-04	1.96723E-01	3.32585E-04	-2.08592E 01	3.43355E-04	2.19116E-01	4.43636E-02				
9.30	1.30376E-04	2.01104E-01	3.72559E-04	-2.08700E 01	3.14443E-04	2.23793E-01	4.43772E-02				
9.40	1.33195E-04	2.05561E-01	4.14108E-04	-2.08805E 01	2.84072E-04	2.28518E-01	4.43906E-02				
9.50	1.36044E-04	2.10077E-01	4.57233E-04	-2.08908E 01	2.52220E-04	2.33293E-01	4.44039E-02				
9.60	1.38924E-04	2.14645E-01	5.01947E-04	-2.09009E 01	2.18861E-04	2.38117E-01	4.44168E-02				
9.70	1.41833E-04	2.19265E-01	5.48275E-04	-2.09108E 01	1.83973E-04	2.42990E-01	4.44296E-02				
9.80	1.44773E-04	2.23935E-01	5.96238E-04	-2.09204E 01	1.47530E-04	2.47912E-01	4.44422E-02				
9.90	1.47742E-04	2.28656E-01	6.45862E-04	-2.09299E 01	1.09509E-04	2.52884E-01	4.44545E-02				
10.00	1.50742E-04	2.33427E-01	6.97168E-04	-2.09391E 01	6.98859E-05	2.57905E-01	4.44666E-02				
10.10	1.53772E-04	2.38248E-01	7.50182E-04	-2.09482E 01	2.86366E-05	2.62975E-01	4.44786E-02				
10.20	1.56832E-04	2.43118E-01	8.04925E-04	-2.09570E 01	-1.42630E-05	2.68094E-01	4.44903E-02				
10.30	1.59922E-04	2.48038E-01	8.61424E-04	-2.09657E 01	-5.88370E-05	2.73262E-01	4.45019E-02				
10.40	1.63042E-04	2.53007E-01	9.19703E-04	-2.09742E 01	-1.05109E-04	2.78480E-01	4.45133E-02				
10.50	1.66192E-04	2.58026E-01	9.79782E-04	-2.09826E 01	-1.53104E-04	2.83747E-01	4.45245E-02				
10.60	1.69372E-04	2.63093E-01	1.04169E-03	-2.09907E 01	-2.02846E-04	2.89063E-01	4.45355E-02				
10.70	1.72582E-04	2.68211E-01	1.10544E-03	-2.09987E 01	-2.54358E-04	2.94428E-01	4.45464E-02				
10.80	1.75823E-04	2.73377E-01	1.17108E-03	-2.10066E 01	-3.07664E-04	2.99843E-01	4.45571E-02				
10.90	1.79093E-04	2.78593E-01	1.23861E-03	-2.10143E 01	-3.62789E-04	3.05306E-01	4.45676E-02				
11.00	1.82394E-04	2.83858E-01	1.30806E-03	-2.10218E 01	-4.19757E-04	3.10819E-01	4.45780E-02				
11.10	1.85724E-04	2.89173E-01	1.37946E-03	-2.10292E 01	-4.78592E-04	3.16381E-01	4.45882E-02				
11.20	1.89085E-04	2.94536E-01	1.45283E-03	-2.10365E 01	-5.39317E-04	3.21992E-01	4.45982E-02				
11.30	1.92476E-04	2.99949E-01	1.52820E-03	-2.10436E 01	-6.01958E-04	3.27653E-01	4.46081E-02				
11.40	1.95897E-04	3.05411E-01	1.60558E-03	-2.10506E 01	-6.66537E-04	3.33362E-01	4.46179E-02				
11.50	1.99347E-04	3.10923E-01	1.68501E-03	-2.10575E 01	-7.33079E-04	3.39121E-01	4.46275E-02				
11.60	2.02828E-04	3.16483E-01	1.76650E-03	-2.10642E 01	-8.01608E-04	3.44929E-01	4.46370E-02				
11.70	2.06340E-04	3.22093E-01	1.85009E-03	-2.10708E 01	-8.72149E-04	3.50787E-01	4.46463E-02				
11.80	2.09881E-04	3.27752E-01	1.93579E-03	-2.10773E 01	-9.44724E-04	3.56693E-01	4.46555E-02				
11.90	2.13452E-04	3.33461E-01	2.02363E-03	-2.10837E 01	-1.01936E-03	3.62648E-01	4.46645E-02				
12.00	2.17053E-04	3.39218E-01	2.11363E-03	-2.10900E 01	-1.09608E-03	3.68653E-01	4.46735E-02				



ELECTRON RADIAL FUNCTIONS

Positron	$Z=9$	$A=18$	$\rho=1.2A^{1/3}F$				
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
12.10	8.21427E-01	1.05830E 01	9.95279E-02	9.70796E-04	-4.57187E-02	1.15018E 01	2.24805E 02
12.20	8.21407E-01	1.06751E 01	1.03283E-01	9.49663E-04	-4.92229E-02	1.15942E 01	2.25996E 02
12.30	8.21388E-01	1.07672E 01	1.07087E-01	9.28908E-04	-5.27775E-02	1.16866E 01	2.27181E 02
12.40	8.21369E-01	1.08594E 01	1.10942E-01	9.08494E-04	-5.63823E-02	1.17790E 01	2.28359E 02
12.50	8.21350E-01	1.09515E 01	1.14848E-01	8.88432E-04	-6.00374E-02	1.18715E 01	2.29532E 02
12.60	8.21330E-01	1.10437E 01	1.18803E-01	8.68715E-04	-6.37428E-02	1.19640E 01	2.30700E 02
12.70	8.21311E-01	1.11359E 01	1.22809E-01	8.49308E-04	-6.74985E-02	1.20565E 01	2.31861E 02
12.80	8.21292E-01	1.12281E 01	1.26865E-01	8.30232E-04	-7.13046E-02	1.21490E 01	2.33017E 02
12.90	8.21274E-01	1.13204E 01	1.30972E-01	8.11480E-04	-7.51611E-02	1.22415E 01	2.34168E 02
13.00	8.21254E-01	1.14126E 01	1.35129E-01	7.93033E-04	-7.90679E-02	1.23340E 01	2.35314E 02
13.10	8.21235E-01	1.15049E 01	1.39336E-01	7.74880E-04	-8.30251E-02	1.24266E 01	2.36453E 02
13.20	8.21216E-01	1.15972E 01	1.43593E-01	7.57018E-04	-8.70327E-02	1.25191E 01	2.37588E 02
13.30	8.21197E-01	1.16895E 01	1.47901E-01	7.39460E-04	-9.10908E-02	1.26117E 01	2.38718E 02
13.40	8.21178E-01	1.17819E 01	1.52260E-01	7.22165E-04	-9.51993E-02	1.27043E 01	2.39841E 02
13.50	8.21160E-01	1.18742E 01	1.56668E-01	7.05148E-04	-9.93583E-02	1.27970E 01	2.40960E 02
13.60	8.21141E-01	1.19666E 01	1.61128E-01	6.88412E-04	-1.03568E-01	1.28896E 01	2.42075E 02
13.70	8.21122E-01	1.20590E 01	1.65637E-01	6.71932E-04	-1.07828E-01	1.29823E 01	2.43184E 02
13.80	8.21103E-01	1.21514E 01	1.70198E-01	6.55711E-04	-1.12138E-01	1.30750E 01	2.44288E 02
13.90	8.21084E-01	1.22438E 01	1.74808E-01	6.39744E-04	-1.16499E-01	1.31677E 01	2.45388E 02
14.00	8.21065E-01	1.23363E 01	1.79469E-01	6.24032E-04	-1.20911E-01	1.32604E 01	2.46483E 02
14.10	8.21047E-01	1.24287E 01	1.84181E-01	6.08552E-04	-1.25373E-01	1.33532E 01	2.47573E 02
14.20	8.21028E-01	1.25212E 01	1.88943E-01	5.93315E-04	-1.29886E-01	1.34459E 01	2.48659E 02
14.30	8.21009E-01	1.26137E 01	1.93756E-01	5.78309E-04	-1.34449E-01	1.35387E 01	2.49740E 02
14.40	8.20991E-01	1.27063E 01	1.98619E-01	5.63532E-04	-1.39063E-01	1.36315E 01	2.50817E 02
14.50	8.20972E-01	1.27988E 01	2.03533E-01	5.48977E-04	-1.43728E-01	1.37244E 01	2.51889E 02
14.60	8.20954E-01	1.28914E 01	2.08498E-01	5.34642E-04	-1.48443E-01	1.38172E 01	2.52957E 02
14.70	8.20935E-01	1.29840E 01	2.13513E-01	5.20528E-04	-1.53209E-01	1.39101E 01	2.54021E 02
14.80	8.20917E-01	1.30766E 01	2.18579E-01	5.06619E-04	-1.58026E-01	1.40029E 01	2.55080E 02
14.90	8.20899E-01	1.31692E 01	2.23696E-01	4.92911E-04	-1.62893E-01	1.40959E 01	2.56135E 02
15.00	8.20880E-01	1.32619E 01	2.28863E-01	4.79419E-04	-1.67811E-01	1.41888E 01	2.57187E 02
15.10	8.20862E-01	1.33545E 01	2.34081E-01	4.66115E-04	-1.72780E-01	1.42817E 01	2.58234E 02
15.20	8.20844E-01	1.34472E 01	2.39349E-01	4.53015E-04	-1.77800E-01	1.43747E 01	2.59277E 02
15.30	8.20826E-01	1.35399E 01	2.44669E-01	4.40100E-04	-1.82871E-01	1.44677E 01	2.60317E 02
15.40	8.20808E-01	1.36326E 01	2.50039E-01	4.27372E-04	-1.87992E-01	1.45607E 01	2.61352E 02
15.50	8.20789E-01	1.37254E 01	2.55460E-01	4.14827E-04	-1.93164E-01	1.46537E 01	2.62383E 02
15.60	8.20771E-01	1.38182E 01	2.60932E-01	4.02473E-04	-1.98388E-01	1.47468E 01	2.63412E 02
15.70	8.20753E-01	1.39110E 01	2.66455E-01	3.90282E-04	-2.03662E-01	1.48399E 01	2.64435E 02
15.80	8.20736E-01	1.40038E 01	2.72028E-01	3.78282E-04	-2.08987E-01	1.49330E 01	2.65457E 02
15.90	8.20718E-01	1.40966E 01	2.77653E-01	3.66442E-04	-2.14362E-01	1.50261E 01	2.66473E 02
16.00	8.20700E-01	1.41894E 01	2.83328E-01	3.54777E-04	-2.19789E-01	1.51192E 01	2.67487E 02
16.10	8.20682E-01	1.42823E 01	2.89055E-01	3.43269E-04	-2.25267E-01	1.52124E 01	2.68497E 02
16.20	8.20665E-01	1.43752E 01	2.94832E-01	3.31926E-04	-2.30796E-01	1.53056E 01	2.69504E 02
16.30	8.20647E-01	1.44681E 01	3.00660E-01	3.20747E-04	-2.36376E-01	1.53988E 01	2.70507E 02
16.40	8.20629E-01	1.45611E 01	3.06539E-01	3.09732E-04	-2.42007E-01	1.54920E 01	2.71508E 02
16.50	8.20612E-01	1.46540E 01	3.12469E-01	2.98849E-04	-2.47689E-01	1.55853E 01	2.72504E 02
16.60	8.20595E-01	1.47470E 01	3.18451E-01	2.88130E-04	-2.53422E-01	1.56786E 01	2.73497E 02
16.70	8.20577E-01	1.48400E 01	3.24483E-01	2.77558E-04	-2.59206E-01	1.57719E 01	2.74487E 02
16.80	8.20560E-01	1.49330E 01	3.30567E-01	2.67136E-04	-2.65042E-01	1.58652E 01	2.75475E 02
16.90	8.20543E-01	1.50261E 01	3.36701E-01	2.56857E-04	-2.70928E-01	1.59586E 01	2.76459E 02
17.00	8.20526E-01	1.51192E 01	3.42887E-01	2.46719E-04	-2.76866E-01	1.60519E 01	2.77441E 02
17.10	8.20508E-01	1.52123E 01	3.49124E-01	2.36701E-04	-2.82855E-01	1.61453E 01	2.78417E 02
17.20	8.20491E-01	1.53054E 01	3.55412E-01	2.26854E-04	-2.88895E-01	1.62387E 01	2.79394E 02
17.30	8.20474E-01	1.53985E 01	3.61751E-01	2.17125E-04	-2.94986E-01	1.63322E 01	2.80367E 02
17.40	8.20457E-01	1.54917E 01	3.68142E-01	2.07538E-04	-3.01129E-01	1.64256E 01	2.81337E 02
17.50	8.20440E-01	1.55848E 01	3.74583E-01	1.98055E-04	-3.07323E-01	1.65191E 01	2.82303E 02
17.60	8.20424E-01	1.56781E 01	3.81076E-01	1.88722E-04	-3.13569E-01	1.66126E 01	2.83267E 02
17.70	8.20407E-01	1.57713E 01	3.87621E-01	1.79515E-04	-3.19865E-01	1.67062E 01	2.84229E 02
17.80	8.20390E-01	1.58645E 01	3.94216E-01	1.70426E-04	-3.26213E-01	1.67998E 01	2.85188E 02
17.90	8.20373E-01	1.59578E 01	4.00863E-01	1.61471E-04	-3.32613E-01	1.68933E 01	2.86145E 02
18.00	8.20356E-01	1.60511E 01	4.07561E-01	1.52620E-04	-3.39064E-01	1.69869E 01	2.87099E 02

## ELECTRON RADIAL FUNCTIONS

 $Z=9$  $A=18$  $\rho=1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	2.20684E-04	3.45025E-01	2.20582E-03	-2.10962E 01	-1.17490E-03	3.74707E-01	4.46823E-02
12.20	2.24346E-04	3.50881E-01	2.30022E-03	-2.11022E 01	-1.25586E-03	3.80811E-01	4.46910E-02
12.30	2.28037E-04	3.56787E-01	2.39686E-03	-2.11082E 01	-1.33897E-03	3.86963E-01	4.46995E-02
12.40	2.31759E-04	3.62741E-01	2.49576E-03	-2.11140E 01	-1.42426E-03	3.93165E-01	4.47080E-02
12.50	2.35511E-04	3.68744E-01	2.59693E-03	-2.11198E 01	-1.51176E-03	3.99415E-01	4.47163E-02
12.60	2.39292E-04	3.74797E-01	2.70042E-03	-2.11254E 01	-1.60148E-03	4.05715E-01	4.47245E-02
12.70	2.43104E-04	3.80899E-01	2.80624E-03	-2.11310E 01	-1.69345E-03	4.12064E-01	4.47326E-02
12.80	2.46946E-04	3.87050E-01	2.91441E-03	-2.11365E 01	-1.78770E-03	4.18463E-01	4.47406E-02
12.90	2.50818E-04	3.93251E-01	3.02496E-03	-2.11418E 01	-1.88425E-03	4.24910E-01	4.47485E-02
13.00	2.54720E-04	3.99500E-01	3.13792E-03	-2.11471E 01	-1.98312E-03	4.31407E-01	4.47563E-02
13.10	2.58652E-04	4.05799E-01	3.25330E-03	-2.11524E 01	-2.08434E-03	4.37952E-01	4.47640E-02
13.20	2.62614E-04	4.12147E-01	3.37114E-03	-2.11575E 01	-2.18794E-03	4.44547E-01	4.47715E-02
13.30	2.66606E-04	4.18544E-01	3.49145E-03	-2.11625E 01	-2.29392E-03	4.51191E-01	4.47790E-02
13.40	2.70628E-04	4.24990E-01	3.61426E-03	-2.11675E 01	-2.40233E-03	4.57885E-01	4.47864E-02
13.50	2.74680E-04	4.31485E-01	3.73959E-03	-2.11724E 01	-2.51318E-03	4.64627E-01	4.47936E-02
13.60	2.78763E-04	4.38030E-01	3.86748E-03	-2.11772E 01	-2.62650E-03	4.71419E-01	4.48008E-02
13.70	2.82875E-04	4.44624E-01	3.99793E-03	-2.11819E 01	-2.74231E-03	4.78259E-01	4.48079E-02
13.80	2.87018E-04	4.51267E-01	4.13098E-03	-2.11866E 01	-2.86064E-03	4.85149E-01	4.48149E-02
13.90	2.91190E-04	4.57959E-01	4.26665E-03	-2.11912E 01	-2.98151E-03	4.92088E-01	4.48219E-02
14.00	2.95393E-04	4.64700E-01	4.40496E-03	-2.11957E 01	-3.10494E-03	4.99077E-01	4.48287E-02
14.10	2.99625E-04	4.71491E-01	4.54595E-03	-2.12002E 01	-3.23095E-03	5.06114E-01	4.48354E-02
14.20	3.03888E-04	4.78331E-01	4.68962E-03	-2.12046E 01	-3.35959E-03	5.13201E-01	4.48421E-02
14.30	3.08181E-04	4.85220E-01	4.83601E-03	-2.12089E 01	-3.49085E-03	5.20336E-01	4.48487E-02
14.40	3.12504E-04	4.92158E-01	4.98515E-03	-2.12132E 01	-3.62478E-03	5.27521E-01	4.48552E-02
14.50	3.16857E-04	4.99145E-01	5.13704E-03	-2.12174E 01	-3.76139E-03	5.34755E-01	4.48616E-02
14.60	3.21240E-04	5.06181E-01	5.29172E-03	-2.12215E 01	-3.90071E-03	5.42038E-01	4.48679E-02
14.70	3.25653E-04	5.13266E-01	5.44921E-03	-2.12256E 01	-4.04276E-03	5.49370E-01	4.48742E-02
14.80	3.30096E-04	5.20401E-01	5.60955E-03	-2.12297E 01	-4.18757E-03	5.56752E-01	4.48804E-02
14.90	3.34569E-04	5.27585E-01	5.77273E-03	-2.12336E 01	-4.33516E-03	5.64182E-01	4.48865E-02
15.00	3.39072E-04	5.34818E-01	5.93881E-03	-2.12375E 01	-4.48555E-03	5.71662E-01	4.48925E-02
15.10	3.43605E-04	5.42099E-01	6.10779E-03	-2.12414E 01	-4.63877E-03	5.79191E-01	4.48985E-02
15.20	3.48169E-04	5.49431E-01	6.27971E-03	-2.12452E 01	-4.79484E-03	5.86769E-01	4.49044E-02
15.30	3.52762E-04	5.56811E-01	6.45458E-03	-2.12490E 01	-4.95379E-03	5.94396E-01	4.49102E-02
15.40	3.57385E-04	5.64240E-01	6.63243E-03	-2.12527E 01	-5.11564E-03	6.02072E-01	4.49160E-02
15.50	3.62039E-04	5.71719E-01	6.81329E-03	-2.12563E 01	-5.28042E-03	6.09797E-01	4.49217E-02
15.60	3.66722E-04	5.79247E-01	6.99717E-03	-2.12599E 01	-5.44814E-03	6.17572E-01	4.49273E-02
15.70	3.71436E-04	5.86823E-01	7.18411E-03	-2.12635E 01	-5.61884E-03	6.25395E-01	4.49328E-02
15.80	3.76179E-04	5.94449E-01	7.37412E-03	-2.12670E 01	-5.79253E-03	6.33268E-01	4.49384E-02
15.90	3.80953E-04	6.02124E-01	7.56724E-03	-2.12705E 01	-5.96924E-03	6.41189E-01	4.49438E-02
16.00	3.85757E-04	6.09848E-01	7.76347E-03	-2.12739E 01	-6.14900E-03	6.49160E-01	4.49492E-02
16.10	3.90590E-04	6.17622E-01	7.96286E-03	-2.12773E 01	-6.33182E-03	6.57180E-01	4.49545E-02
16.20	3.95454E-04	6.25444E-01	8.16541E-03	-2.12806E 01	-6.51774E-03	6.65249E-01	4.49597E-02
16.30	4.00348E-04	6.33315E-01	8.37117E-03	-2.12839E 01	-6.70677E-03	6.73367E-01	4.49650E-02
16.40	4.05272E-04	6.41236E-01	8.58015E-03	-2.12871E 01	-6.89895E-03	6.81535E-01	4.49701E-02
16.50	4.10226E-04	6.49206E-01	8.79237E-03	-2.12903E 01	-7.09429E-03	6.89751E-01	4.49752E-02
16.60	4.15210E-04	6.57224E-01	9.00786E-03	-2.12935E 01	-7.29281E-03	6.98016E-01	4.49802E-02
16.70	4.20224E-04	6.65292E-01	9.22664E-03	-2.12966E 01	-7.49455E-03	7.06331E-01	4.49852E-02
16.80	4.25268E-04	6.73409E-01	9.44873E-03	-2.12997E 01	-7.69953E-03	7.14694E-01	4.49901E-02
16.90	4.30342E-04	6.81575E-01	9.67417E-03	-2.13028E 01	-7.90776E-03	7.23107E-01	4.49950E-02
17.00	4.35446E-04	6.89790E-01	9.90297E-03	-2.13058E 01	-8.11929E-03	7.31568E-01	4.49998E-02
17.10	4.40581E-04	6.98054E-01	1.01352E-02	-2.13088E 01	-8.33412E-03	7.40079E-01	4.50046E-02
17.20	4.45745E-04	7.06367E-01	1.03708E-02	-2.13117E 01	-8.55228E-03	7.48639E-01	4.50093E-02
17.30	4.50939E-04	7.14729E-01	1.06098E-02	-2.13146E 01	-8.77380E-03	7.57248E-01	4.50140E-02
17.40	4.56164E-04	7.23141E-01	1.08523E-02	-2.13175E 01	-8.99870E-03	7.65906E-01	4.50186E-02
17.50	4.61418E-04	7.31601E-01	1.10983E-02	-2.13203E 01	-9.22700E-03	7.74613E-01	4.50232E-02
17.60	4.66703E-04	7.40111E-01	1.13478E-02	-2.13231E 01	-9.45873E-03	7.83369E-01	4.50277E-02
17.70	4.72017E-04	7.48669E-01	1.16008E-02	-2.13259E 01	-9.69392E-03	7.92174E-01	4.50322E-02
17.80	4.77362E-04	7.57277E-01	1.18574E-02	-2.13286E 01	-9.93258E-03	8.01028E-01	4.50366E-02
17.90	4.82737E-04	7.65934E-01	1.21175E-02	-2.13313E 01	-1.01747E-02	8.09932E-01	4.50410E-02
18.00	4.88141E-04	7.74639E-01	1.23813E-02	-2.13340E 01	-1.04204E-02	8.18884E-01	4.50453E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=9 \quad A=18 \quad \rho=1.2 A^{1/3} F$							
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	8.20340E-01	1.61444E 01	4.14312E-01	1.43889E-04	-3.45567E-01	1.70806E 01	2.88050E 02	
18.20	8.20324E-01	1.62378E 01	4.21113E-01	1.35287E-04	-3.52121E-01	1.71743E 01	2.88999E 02	
18.30	8.20307E-01	1.63312E 01	4.27965E-01	1.26790E-04	-3.58726E-01	1.72679E 01	2.89946E 02	
18.40	8.20291E-01	1.64245E 01	4.34869E-01	1.18403E-04	-3.65383E-01	1.73616E 01	2.90889E 02	
18.50	8.20275E-01	1.65180E 01	4.41825E-01	1.10136E-04	-3.72092E-01	1.74554E 01	2.91832E 02	
18.60	8.20258E-01	1.66114E 01	4.48832E-01	1.01979E-04	-3.78852E-01	1.75491E 01	2.92772E 02	
18.70	8.20242E-01	1.67049E 01	4.55891E-01	9.39314E-05	-3.85663E-01	1.76429E 01	2.93709E 02	
18.80	8.20226E-01	1.67984E 01	4.63001E-01	8.59817E-05	-3.92527E-01	1.77367E 01	2.94644E 02	
18.90	8.20210E-01	1.68919E 01	4.70163E-01	7.81298E-05	-3.99442E-01	1.78306E 01	2.95577E 02	
19.00	8.20194E-01	1.69854E 01	4.77376E-01	7.04000E-05	-4.06408E-01	1.79244E 01	2.96508E 02	
19.10	8.20178E-01	1.70790E 01	4.84641E-01	6.27703E-05	-4.13427E-01	1.80183E 01	2.97438E 02	
19.20	8.20162E-01	1.71726E 01	4.91958E-01	5.52202E-05	-4.20497E-01	1.81122E 01	2.98364E 02	
19.30	8.20146E-01	1.72662E 01	4.99326E-01	4.77955E-05	-4.27619E-01	1.82062E 01	2.99290E 02	
19.40	8.20130E-01	1.73598E 01	5.06747E-01	4.04513E-05	-4.34793E-01	1.83002E 01	3.00212E 02	
19.50	8.20114E-01	1.74535E 01	5.14219E-01	3.32082E-05	-4.42018E-01	1.83942E 01	3.01134E 02	
19.60	8.20099E-01	1.75471E 01	5.21742E-01	2.60618E-05	-4.49296E-01	1.84882E 01	3.02053E 02	
19.70	8.20083E-01	1.76409E 01	5.29318E-01	1.90078E-05	-4.56625E-01	1.85822E 01	3.02971E 02	
19.80	8.20067E-01	1.77346E 01	5.36945E-01	1.20393E-05	-4.64006E-01	1.86763E 01	3.03886E 02	
19.90	8.20052E-01	1.78284E 01	5.44625E-01	5.17868E-06	-4.71439E-01	1.87704E 01	3.04801E 02	
20.00	8.20036E-01	1.79221E 01	5.52356E-01	-1.60771E-06	-4.78924E-01	1.88645E 01	3.05713E 02	
20.10	8.20021E-01	1.80160E 01	5.60139E-01	-8.29928E-06	-4.86462E-01	1.89587E 01	3.06624E 02	
20.20	8.20006E-01	1.81098E 01	5.67974E-01	-1.49089E-05	-4.94051E-01	1.90529E 01	3.07533E 02	
20.30	8.19991E-01	1.82037E 01	5.75861E-01	-2.14362E-05	-5.01692E-01	1.91471E 01	3.08440E 02	
20.40	8.19975E-01	1.82976E 01	5.83800E-01	-2.78662E-05	-5.09385E-01	1.92413E 01	3.09347E 02	
20.50	8.19960E-01	1.83915E 01	5.91791E-01	-3.42138E-05	-5.17131E-01	1.93356E 01	3.10252E 02	
20.60	8.19945E-01	1.84854E 01	5.99834E-01	-4.04894E-05	-5.24928E-01	1.94299E 01	3.11154E 02	
20.70	8.19930E-01	1.85794E 01	6.07930E-01	-4.66713E-05	-5.32778E-01	1.95242E 01	3.12056E 02	
20.80	8.19915E-01	1.86734E 01	6.16077E-01	-5.27907E-05	-5.40680E-01	1.96185E 01	3.12956E 02	
20.90	8.19900E-01	1.87674E 01	6.24276E-01	-5.88060E-05	-5.48634E-01	1.97129E 01	3.13856E 02	
21.00	8.19885E-01	1.88615E 01	6.32528E-01	-6.47575E-05	-5.56640E-01	1.98073E 01	3.14753E 02	
21.10	8.19870E-01	1.89555E 01	6.40832E-01	-7.06298E-05	-5.64699E-01	1.99017E 01	3.15650E 02	
21.20	8.19855E-01	1.90496E 01	6.49188E-01	-7.64264E-05	-5.72810E-01	1.99962E 01	3.16545E 02	
21.30	8.19841E-01	1.91438E 01	6.57596E-01	-8.21429E-05	-5.80973E-01	2.00907E 01	3.17439E 02	
21.40	8.19826E-01	1.92379E 01	6.66057E-01	-8.77969E-05	-5.89189E-01	2.01852E 01	3.18331E 02	
21.50	8.19811E-01	1.93321E 01	6.74570E-01	-9.33642E-05	-5.97457E-01	2.02797E 01	3.19223E 02	
21.60	8.19796E-01	1.94263E 01	6.83135E-01	-9.88632E-05	-6.05777E-01	2.03743E 01	3.20114E 02	
21.70	8.19782E-01	1.95206E 01	6.91753E-01	-1.04287E-04	-6.14150E-01	2.04689E 01	3.21004E 02	
21.80	8.19767E-01	1.96148E 01	7.00423E-01	-1.09650E-04	-6.22576E-01	2.05635E 01	3.21891E 02	
21.90	8.19753E-01	1.97091E 01	7.09146E-01	-1.14939E-04	-6.31054E-01	2.06582E 01	3.22779E 02	
22.00	8.19738E-01	1.98034E 01	7.17921E-01	-1.20150E-04	-6.39584E-01	2.07529E 01	3.23666E 02	
22.10	8.19724E-01	1.98978E 01	7.26749E-01	-1.25302E-04	-6.48167E-01	2.08476E 01	3.24551E 02	
22.20	8.19710E-01	1.99922E 01	7.35629E-01	-1.30389E-04	-6.56803E-01	2.09424E 01	3.25436E 02	
22.30	8.19695E-01	2.00866E 01	7.44561E-01	-1.35403E-04	-6.65491E-01	2.10371E 01	3.26320E 02	
22.40	8.19681E-01	2.01810E 01	7.53547E-01	-1.40344E-04	-6.74232E-01	2.11319E 01	3.27204E 02	
22.50	8.19667E-01	2.02755E 01	7.62585E-01	-1.45233E-04	-6.83026E-01	2.12268E 01	3.28085E 02	
22.60	8.19653E-01	2.03700E 01	7.71676E-01	-1.50049E-04	-6.91873E-01	2.13216E 01	3.28967E 02	
22.70	8.19639E-01	2.04645E 01	7.80819E-01	-1.54805E-04	-7.00772E-01	2.14165E 01	3.29848E 02	
22.80	8.19625E-01	2.05590E 01	7.90015E-01	-1.59499E-04	-7.09724E-01	2.15115E 01	3.30729E 02	
22.90	8.19611E-01	2.06536E 01	7.99264E-01	-1.64134E-04	-7.18729E-01	2.16064E 01	3.31608E 02	
23.00	8.19597E-01	2.07482E 01	8.08565E-01	-1.68709E-04	-7.27787E-01	2.17014E 01	3.32486E 02	
23.10	8.19583E-01	2.08429E 01	8.17920E-01	-1.73223E-04	-7.36898E-01	2.17964E 01	3.33364E 02	
23.20	8.19569E-01	2.09375E 01	8.27327E-01	-1.77666E-04	-7.46062E-01	2.18915E 01	3.34242E 02	
23.30	8.19556E-01	2.10322E 01	8.36787E-01	-1.82057E-04	-7.55279E-01	2.19866E 01	3.35120E 02	
23.40	8.19542E-01	2.11269E 01	8.46300E-01	-1.86382E-04	-7.64548E-01	2.20817E 01	3.35997E 02	
23.50	8.19528E-01	2.12217E 01	8.55866E-01	-1.90663E-04	-7.73871E-01	2.21768E 01	3.36872E 02	
23.60	8.19515E-01	2.13165E 01	8.65485E-01	-1.94872E-04	-7.83247E-01	2.22720E 01	3.37749E 02	
23.70	8.19501E-01	2.14113E 01	8.75157E-01	-1.99031E-04	-7.92676E-01	2.23672E 01	3.38625E 02	
23.80	8.19488E-01	2.15061E 01	8.84882E-01	-2.03142E-04	-8.02158E-01	2.24624E 01	3.39499E 02	
23.90	8.19474E-01	2.16010E 01	8.94661E-01	-2.07180E-04	-8.11693E-01	2.25577E 01	3.40375E 02	
24.00	8.19461E-01	2.16959E 01	9.04492E-01	-2.11186E-04	-8.21282E-01	2.26530E 01	3.41248E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z=9$  $A=18$  $\rho=1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	4.93576E-04	7.83395E-01	1.26487E-02	-2.13366E 01	-1.06697E-02	8.27886E-01	4.50496E-02
18.20	4.99041E-04	7.92198E-01	1.29197E-02	-2.13392E 01	-1.09225E-02	8.36936E-01	4.50539E-02
18.30	5.04536E-04	8.01051E-01	1.31945E-02	-2.13418E 01	-1.11789E-02	8.46035E-01	4.50581E-02
18.40	5.10061E-04	8.09953E-01	1.34729E-02	-2.13444E 01	-1.14389E-02	8.55184E-01	4.50623E-02
18.50	5.15616E-04	8.18904E-01	1.37550E-02	-2.13469E 01	-1.17026E-02	8.64381E-01	4.50664E-02
18.60	5.21201E-04	8.27904E-01	1.40409E-02	-2.13494E 01	-1.19699E-02	8.73627E-01	4.50705E-02
18.70	5.26816E-04	8.36953E-01	1.43306E-02	-2.13518E 01	-1.22409E-02	8.82923E-01	4.50745E-02
18.80	5.32461E-04	8.46051E-01	1.46241E-02	-2.13543E 01	-1.25157E-02	8.92267E-01	4.50786E-02
18.90	5.38136E-04	8.55198E-01	1.49213E-02	-2.13567E 01	-1.27942E-02	9.01661E-01	4.50825E-02
19.00	5.43841E-04	8.64393E-01	1.52224E-02	-2.13591E 01	-1.30764E-02	9.11103E-01	4.50865E-02
19.10	5.49576E-04	8.73639E-01	1.55274E-02	-2.13614E 01	-1.33625E-02	9.20595E-01	4.50903E-02
19.20	5.55341E-04	8.82933E-01	1.58363E-02	-2.13638E 01	-1.36523E-02	9.30135E-01	4.50942E-02
19.30	5.61136E-04	8.92276E-01	1.61491E-02	-2.13661E 01	-1.39460E-02	9.39725E-01	4.50980E-02
19.40	5.66962E-04	9.01668E-01	1.64659E-02	-2.13684E 01	-1.42435E-02	9.49363E-01	4.51018E-02
19.50	5.72817E-04	9.11109E-01	1.67866E-02	-2.13706E 01	-1.45450E-02	9.59050E-01	4.51056E-02
19.60	5.78702E-04	9.20599E-01	1.71113E-02	-2.13729E 01	-1.48503E-02	9.68787E-01	4.51093E-02
19.70	5.84618E-04	9.30138E-01	1.74400E-02	-2.13751E 01	-1.51596E-02	9.78572E-01	4.51130E-02
19.80	5.90563E-04	9.39726E-01	1.77727E-02	-2.13773E 01	-1.54728E-02	9.88407E-01	4.51166E-02
19.90	5.96539E-04	9.49363E-01	1.81095E-02	-2.13794E 01	-1.57900E-02	9.98290E-01	4.51202E-02
20.00	6.02544E-04	9.59049E-01	1.84504E-02	-2.13816E 01	-1.61112E-02	1.00822E 00	4.51238E-02
20.10	6.08580E-04	9.68783E-01	1.87954E-02	-2.13837E 01	-1.64365E-02	1.01820E 00	4.51273E-02
20.20	6.14646E-04	9.78567E-01	1.91445E-02	-2.13858E 01	-1.67657E-02	1.02823E 00	4.51309E-02
20.30	6.20741E-04	9.88400E-01	1.94978E-02	-2.13879E 01	-1.70991E-02	1.03831E 00	4.51343E-02
20.40	6.26867E-04	9.98282E-01	1.98552E-02	-2.13899E 01	-1.74366E-02	1.04844E 00	4.51378E-02
20.50	6.33023E-04	1.00821E 00	2.02169E-02	-2.13920E 01	-1.77782E-02	1.05862E 00	4.51412E-02
20.60	6.39208E-04	1.01819E 00	2.05828E-02	-2.13940E 01	-1.81239E-02	1.06884E 00	4.51446E-02
20.70	6.45424E-04	1.02822E 00	2.09529E-02	-2.13960E 01	-1.84738E-02	1.07912E 00	4.51480E-02
20.80	6.51670E-04	1.03830E 00	2.13273E-02	-2.13980E 01	-1.88279E-02	1.08944E 00	4.51513E-02
20.90	6.57946E-04	1.04842E 00	2.17060E-02	-2.13999E 01	-1.91862E-02	1.09982E 00	4.51546E-02
21.00	6.64252E-04	1.05860E 00	2.20890E-02	-2.14018E 01	-1.95488E-02	1.11024E 00	4.51579E-02
21.10	6.70588E-04	1.06882E 00	2.24764E-02	-2.14038E 01	-1.99156E-02	1.12071E 00	4.51611E-02
21.20	6.76953E-04	1.07910E 00	2.28682E-02	-2.14057E 01	-2.02867E-02	1.13123E 00	4.51643E-02
21.30	6.83349E-04	1.08942E 00	2.32643E-02	-2.14075E 01	-2.06622E-02	1.14180E 00	4.51675E-02
21.40	6.89775E-04	1.09979E 00	2.36649E-02	-2.14094E 01	-2.10419E-02	1.15241E 00	4.51707E-02
21.50	6.96231E-04	1.11021E 00	2.40699E-02	-2.14113E 01	-2.14261E-02	1.16308E 00	4.51738E-02
21.60	7.02717E-04	1.12068E 00	2.44793E-02	-2.14131E 01	-2.18146E-02	1.17379E 00	4.51769E-02
21.70	7.09234E-04	1.13120E 00	2.48933E-02	-2.14149E 01	-2.22075E-02	1.18456E 00	4.51800E-02
21.80	7.15780E-04	1.14176E 00	2.53118E-02	-2.14167E 01	-2.26049E-02	1.19537E 00	4.51830E-02
21.90	7.22356E-04	1.15238E 00	2.57348E-02	-2.14185E 01	-2.30067E-02	1.20623E 00	4.51860E-02
22.00	7.28962E-04	1.16304E 00	2.61624E-02	-2.14202E 01	-2.34130E-02	1.21714E 00	4.51890E-02
22.10	7.35598E-04	1.17376E 00	2.65945E-02	-2.14219E 01	-2.38239E-02	1.22810E 00	4.51920E-02
22.20	7.42265E-04	1.18452E 00	2.70313E-02	-2.14237E 01	-2.42392E-02	1.23911E 00	4.51950E-02
22.30	7.48961E-04	1.19533E 00	2.74727E-02	-2.14254E 01	-2.46591E-02	1.25017E 00	4.51979E-02
22.40	7.55687E-04	1.20619E 00	2.79187E-02	-2.14271E 01	-2.50836E-02	1.26127E 00	4.52008E-02
22.50	7.62444E-04	1.21710E 00	2.83695E-02	-2.14288E 01	-2.55126E-02	1.27243E 00	4.52037E-02
22.60	7.69230E-04	1.22806E 00	2.88249E-02	-2.14304E 01	-2.59464E-02	1.28363E 00	4.52065E-02
22.70	7.76047E-04	1.23906E 00	2.92851E-02	-2.14321E 01	-2.63847E-02	1.29489E 00	4.52093E-02
22.80	7.82893E-04	1.25012E 00	2.97500E-02	-2.14337E 01	-2.68277E-02	1.30619E 00	4.52121E-02
22.90	7.89770E-04	1.26122E 00	3.02197E-02	-2.14353E 01	-2.72755E-02	1.31754E 00	4.52149E-02
23.00	7.96676E-04	1.27237E 00	3.06942E-02	-2.14369E 01	-2.77279E-02	1.32894E 00	4.52177E-02
23.10	8.03613E-04	1.28358E 00	3.11736E-02	-2.14385E 01	-2.81851E-02	1.34038E 00	4.52204E-02
23.20	8.10579E-04	1.29483E 00	3.16577E-02	-2.14401E 01	-2.86471E-02	1.35188E 00	4.52231E-02
23.30	8.17576E-04	1.30613E 00	3.21468E-02	-2.14416E 01	-2.91138E-02	1.36343E 00	4.52258E-02
23.40	8.24603E-04	1.31747E 00	3.26407E-02	-2.14432E 01	-2.95854E-02	1.37502E 00	4.52285E-02
23.50	8.31659E-04	1.32887E 00	3.31396E-02	-2.14447E 01	-3.00618E-02	1.38666E 00	4.52312E-02
23.60	8.38746E-04	1.34032E 00	3.36434E-02	-2.14462E 01	-3.05431E-02	1.39835E 00	4.52338E-02
23.70	8.45863E-04	1.35181E 00	3.41522E-02	-2.14477E 01	-3.10292E-02	1.41010E 00	4.52364E-02
23.80	8.53009E-04	1.36335E 00	3.46659E-02	-2.14492E 01	-3.15203E-02	1.42188E 00	4.52390E-02
23.90	8.60186E-04	1.37495E 00	3.51847E-02	-2.14507E 01	-3.20163E-02	1.43372E 00	4.52416E-02
24.00	8.67393E-04	1.38659E 00	3.57085E-02	-2.14522E 01	-3.25173E-02	1.44561E 00	4.52441E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=9$		$A=18$		$\rho=1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
24.10	8.19447E-01	2.17908E 01	9.14377E-01	-2.15116E-04	-8.30924E-01	2.27483 E 01	3.42124 E 02	02
24.20	8.19434E-01	2.18858E 01	9.24314E-01	-2.19003E-04	-8.40619E-01	2.28437 E 01	3.42997 E 02	02
24.30	8.19420E-01	2.19808E 01	9.34306E-01	-2.22839E-04	-8.50368E-01	2.29391 E 01	3.43871 E 02	02
24.40	8.19407E-01	2.20758E 01	9.44350E-01	-2.26615E-04	-8.60169E-01	2.30345 E 01	3.44745 E 02	02
24.50	8.19394E-01	2.21709E 01	9.54447E-01	-2.30333E-04	-8.70024E-01	2.31300 E 01	3.45620 E 02	02
24.60	8.19381E-01	2.22660E 01	9.64598E-01	-2.34014E-04	-8.79933E-01	2.32254 E 01	3.46492 E 02	02
24.70	8.19368E-01	2.23611 E 01	9.74802E-01	-2.37645E-04	-8.89895E-01	2.33210 E 01	3.47365 E 02	02
24.80	8.19354E-01	2.24562 E 01	9.85060E-01	-2.41211E-04	-8.99910E-01	2.34165 E 01	3.48239 E 02	02
24.90	8.19341E-01	2.25514 E 01	9.95371E-01	-2.44739E-04	-9.09979E-01	2.35121 E 01	3.49112 E 02	02
25.00	8.19328E-01	2.26466 E 01	1.00573 E 00	-2.48208E-04	-9.20102E-01	2.36077 E 01	3.49986 E 02	02
25.10	8.19315E-01	2.27419 E 01	1.01615 E 00	-2.51641E-04	-9.30278E-01	2.37034 E 01	3.50859 E 02	02
25.20	8.19302E-01	2.28371 E 01	1.02662 E 00	-2.55022E-04	-9.40508E-01	2.37991 E 01	3.51732 E 02	02
25.30	8.19290E-01	2.29324 E 01	1.03715 E 00	-2.58342E-04	-9.50791E-01	2.38948 E 01	3.52607 E 02	02
25.40	8.19277E-01	2.30278 E 01	1.04773 E 00	-2.61626E-04	-9.61129E-01	2.39905 E 01	3.53480 E 02	02
25.50	8.19264E-01	2.31231 E 01	1.05836 E 00	-2.64868E-04	-9.71520E-01	2.40863 E 01	3.54354 E 02	02
25.60	8.19251E-01	2.32185 E 01	1.06905 E 00	-2.68044E-04	-9.81964E-01	2.41821 E 01	3.55229 E 02	02
25.70	8.19238E-01	2.33139 E 01	1.07979 E 00	-2.71185E-04	-9.92463E-01	2.42780 E 01	3.56104 E 02	02
25.80	8.19226E-01	2.34094 E 01	1.09058 E 00	-2.74285E-04	-1.00302 E 00	2.43739 E 01	3.56978 E 02	02
25.90	8.19213E-01	2.35049 E 01	1.10143 E 00	-2.77333E-04	-1.01362 E 00	2.44698 E 01	3.57854 E 02	02
26.00	8.19200E-01	2.36004 E 01	1.11233 E 00	-2.80350E-04	-1.02428 E 00	2.45657 E 01	3.58728 E 02	02
26.10	8.19188E-01	2.36960 E 01	1.12328 E 00	-2.83304E-04	-1.03500 E 00	2.46617 E 01	3.59604 E 02	02
26.20	8.19175E-01	2.37916 E 01	1.13429 E 00	-2.86221E-04	-1.04576 E 00	2.47578 E 01	3.60481 E 02	02
26.30	8.19163E-01	2.38872 E 01	1.14535 E 00	-2.89096E-04	-1.05659 E 00	2.48538 E 01	3.61357 E 02	02
26.40	8.19151E-01	2.39829 E 01	1.15647 E 00	-2.91930E-04	-1.06746 E 00	2.49499 E 01	3.62234 E 02	02
26.50	8.19138E-01	2.40786 E 01	1.16764 E 00	-2.94724E-04	-1.07839 E 00	2.50460 E 01	3.63111 E 02	02
26.60	8.19126E-01	2.41743 E 01	1.17887 E 00	-2.97472E-04	-1.08938 E 00	2.51422 E 01	3.63988 E 02	02
26.70	8.19113E-01	2.42700 E 01	1.19015 E 00	-3.00176E-04	-1.10042 E 00	2.52384 E 01	3.64867 E 02	02
26.80	8.19101E-01	2.43658 E 01	1.20148 E 00	-3.02846E-04	-1.11151 E 00	2.53346 E 01	3.65745 E 02	02
26.90	8.19089E-01	2.44617 E 01	1.21287 E 00	-3.05463E-04	-1.12266 E 00	2.54309 E 01	3.66626 E 02	02
27.00	8.19077E-01	2.45575 E 01	1.22431 E 00	-3.08046E-04	-1.13386 E 00	2.55272 E 01	3.67506 E 02	02
27.10	8.19065E-01	2.46534 E 01	1.23580 E 00	-3.10580E-04	-1.14512 E 00	2.56235 E 01	3.68388 E 02	02
27.20	8.19052E-01	2.47493 E 01	1.24735 E 00	-3.13089E-04	-1.15643 E 00	2.57199 E 01	3.69268 E 02	02
27.30	8.19040E-01	2.48453 E 01	1.25896 E 00	-3.15542E-04	-1.16779 E 00	2.58163 E 01	3.70152 E 02	02
27.40	8.19028E-01	2.49413 E 01	1.27062 E 00	-3.17966E-04	-1.17921 E 00	2.59127 E 01	3.71035 E 02	02
27.50	8.19016E-01	2.50373 E 01	1.28233 E 00	-3.20352E-04	-1.19068 E 00	2.60092 E 01	3.71918 E 02	02
27.60	8.19004E-01	2.51334 E 01	1.29410 E 00	-3.22697E-04	-1.20221 E 00	2.61057 E 01	3.72803 E 02	02
27.70	8.18992E-01	2.52295 E 01	1.30592 E 00	-3.25005E-04	-1.21380 E 00	2.62023 E 01	3.73688 E 02	02
27.80	8.18980E-01	2.53256 E 01	1.31780 E 00	-3.27283E-04	-1.22543 E 00	2.62988 E 01	3.74574 E 02	02
27.90	8.18969E-01	2.54218 E 01	1.32973 E 00	-3.29512E-04	-1.23713 E 00	2.63955 E 01	3.75461 E 02	02
28.00	8.18957E-01	2.55180 E 01	1.34171 E 00	-3.31703E-04	-1.24887 E 00	2.64921 E 01	3.76350 E 02	02
28.10	8.18945E-01	2.56142 E 01	1.35375 E 00	-3.33864E-04	-1.26067 E 00	2.65888 E 01	3.77238 E 02	02
28.20	8.18933E-01	2.57105 E 01	1.36585 E 00	-3.35974E-04	-1.27253 E 00	2.66855 E 01	3.78130 E 02	02
28.30	8.18922E-01	2.58068 E 01	1.37800 E 00	-3.38068E-04	-1.28444 E 00	2.67823 E 01	3.79020 E 02	02
28.40	8.18910E-01	2.59031 E 01	1.39020 E 00	-3.40113E-04	-1.29641 E 00	2.68791 E 01	3.79912 E 02	02
28.50	8.18898E-01	2.59995 E 01	1.40246 E 00	-3.42126E-04	-1.30843 E 00	2.69759 E 01	3.80805 E 02	02
28.60	8.18887E-01	2.60959 E 01	1.41478 E 00	-3.44103E-04	-1.32051 E 00	2.70728 E 01	3.81700 E 02	02
28.70	8.18875E-01	2.61923 E 01	1.42715 E 00	-3.46047E-04	-1.33264 E 00	2.71697 E 01	3.82595 E 02	02
28.80	8.18864E-01	2.62888 E 01	1.43957 E 00	-3.47958E-04	-1.34482 E 00	2.72667 E 01	3.83491 E 02	02
28.90	8.18852E-01	2.63853 E 01	1.45205 E 00	-3.49827E-04	-1.35707 E 00	2.73637 E 01	3.84389 E 02	02
29.00	8.18841E-01	2.64819 E 01	1.46458 E 00	-3.51662E-04	-1.36936 E 00	2.74607 E 01	3.85289 E 02	02
29.10	8.18829E-01	2.65785 E 01	1.47717 E 00	-3.53472E-04	-1.38171 E 00	2.75578 E 01	3.86189 E 02	02
29.20	8.18818E-01	2.66751 E 01	1.48982 E 00	-3.55236E-04	-1.39412 E 00	2.76549 E 01	3.87091 E 02	02
29.30	8.18807E-01	2.67718 E 01	1.50251 E 00	-3.56979E-04	-1.40658 E 00	2.77520 E 01	3.87993 E 02	02
29.40	8.18795E-01	2.68685 E 01	1.51527 E 00	-3.58678E-04	-1.41910 E 00	2.78492 E 01	3.88898 E 02	02
29.50	8.18784E-01	2.69652 E 01	1.52808 E 00	-3.60346E-04	-1.43167 E 00	2.79464 E 01	3.89804 E 02	02
29.60	8.18773E-01	2.70620 E 01	1.54094 E 00	-3.61988E-04	-1.44430 E 00	2.80437 E 01	3.90711 E 02	02
29.70	8.18761E-01	2.71588 E 01	1.55386 E 00	-3.63594E-04	-1.45699 E 00	2.81409 E 01	3.91619 E 02	02
29.80	8.18750E-01	2.72556 E 01	1.56684 E 00	-3.65182E-04	-1.46973 E 00	2.82383 E 01	3.92527 E 02	02
29.90	8.18739E-01	2.73525 E 01	1.57987 E 00	-3.66718E-04	-1.48252 E 00	2.83356 E 01	3.93439 E 02	02
30.00	8.18728E-01	2.74494 E 01	1.59296 E 00	-3.68221E-04	-1.49537 E 00	2.84331 E 01	3.94353 E 02	02

## ELECTRON RADIAL FUNCTIONS

 $Z=9$  $A=18$  $\rho=1.2A^{1/3}F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
24.10	8.74630E-04	1.39828E 00	3.62375E-02	-2.14536E 01	-3.30232E-02	1.45755 E 00	4.52466E-02
24.20	8.81897E-04	1.41002E 00	3.67714E-02	-2.14551E 01	-3.35342E-02	1.46953 E 00	4.52492E-02
24.30	8.89194E-04	1.42180E 00	3.73105E-02	-2.14565E 01	-3.40502E-02	1.48156 E 00	4.52516E-02
24.40	8.96521E-04	1.43364E 00	3.78547E-02	-2.14579E 01	-3.45712E-02	1.49365 E 00	4.52541E-02
24.50	9.03878E-04	1.44552E 00	3.84041E-02	-2.14593E 01	-3.50974E-02	1.50578 E 00	4.52566E-02
24.60	9.11265E-04	1.45746E 00	3.89586E-02	-2.14607E 01	-3.56286E-02	1.51796 E 00	4.52590E-02
24.70	9.18681E-04	1.46944E 00	3.95184E-02	-2.14621E 01	-3.61649E-02	1.53018 E 00	4.52614E-02
24.80	9.26128E-04	1.48147E 00	4.00834E-02	-2.14635E 01	-3.67064E-02	1.54246 E 00	4.52638E-02
24.90	9.33605E-04	1.49355E 00	4.06537E-02	-2.14648E 01	-3.72531E-02	1.55479 E 00	4.52662E-02
25.00	9.41112E-04	1.50568E 00	4.12292E-02	-2.14662E 01	-3.78050E-02	1.56716 E 00	4.52686E-02
25.10	9.48650E-04	1.51785E 00	4.18100E-02	-2.14675E 01	-3.83621E-02	1.57958 E 00	4.52709E-02
25.20	9.56217E-04	1.53008E 00	4.23961E-02	-2.14688E 01	-3.89244E-02	1.59205 E 00	4.52732E-02
25.30	9.63814E-04	1.54235E 00	4.29876E-02	-2.14702E 01	-3.94920E-02	1.60457 E 00	4.52755E-02
25.40	9.71441E-04	1.55468E 00	4.35845E-02	-2.14715E 01	-4.00649E-02	1.61714 E 00	4.52778E-02
25.50	9.79098E-04	1.56705E 00	4.41868E-02	-2.14728E 01	-4.06432E-02	1.62976 E 00	4.52801E-02
25.60	9.86785E-04	1.57947E 00	4.47945E-02	-2.14740E 01	-4.12267E-02	1.64243 E 00	4.52824E-02
25.70	9.94502E-04	1.59194E 00	4.54076E-02	-2.14753E 01	-4.18157E-02	1.65514 E 00	4.52846E-02
25.80	1.00225E-03	1.60446E 00	4.60262E-02	-2.14766E 01	-4.24100E-02	1.66791 E 00	4.52868E-02
25.90	1.01003E-03	1.61702E 00	4.66502E-02	-2.14778E 01	-4.30097E-02	1.68072 E 00	4.52890E-02
26.00	1.01783E-03	1.62964E 00	4.72798E-02	-2.14791E 01	-4.36149E-02	1.69358 E 00	4.52912E-02
26.10	1.02567E-03	1.64230E 00	4.79150E-02	-2.14803E 01	-4.42255E-02	1.70649 E 00	4.52934E-02
26.20	1.03354E-03	1.65501E 00	4.85557E-02	-2.14815E 01	-4.48416E-02	1.71945 E 00	4.52956E-02
26.30	1.04144E-03	1.66777E 00	4.92020E-02	-2.14827E 01	-4.54632E-02	1.73245 E 00	4.52977E-02
26.40	1.04936E-03	1.68058E 00	4.98539E-02	-2.14839E 01	-4.60904E-02	1.74551 E 00	4.52999E-02
26.50	1.05732E-03	1.69344E 00	5.05114E-02	-2.14851E 01	-4.67231E-02	1.75861 E 00	4.53020E-02
26.60	1.06531E-03	1.70635E 00	5.11746E-02	-2.14863E 01	-4.73614E-02	1.77177 E 00	4.53041E-02
26.70	1.07333E-03	1.71930E 00	5.18435E-02	-2.14875E 01	-4.80052E-02	1.78497 E 00	4.53062E-02
26.80	1.08137E-03	1.73231E 00	5.25181E-02	-2.14887E 01	-4.86547E-02	1.79822 E 00	4.53082E-02
26.90	1.08945E-03	1.74536E 00	5.31984E-02	-2.14898E 01	-4.93099E-02	1.81152 E 00	4.53103E-02
27.00	1.09756E-03	1.75846E 00	5.38844E-02	-2.14910E 01	-4.99707E-02	1.82486 E 00	4.53123E-02
27.10	1.10570E-03	1.77161E 00	5.45763E-02	-2.14921E 01	-5.06373E-02	1.83826 E 00	4.53144E-02
27.20	1.11386E-03	1.78481E 00	5.52739E-02	-2.14932E 01	-5.13095E-02	1.85170 E 00	4.53164E-02
27.30	1.12206E-03	1.79806E 00	5.59774E-02	-2.14944E 01	-5.19875E-02	1.86519 E 00	4.53184E-02
27.40	1.13029E-03	1.81135E 00	5.66867E-02	-2.14955E 01	-5.26713E-02	1.87874 E 00	4.53204E-02
27.50	1.13855E-03	1.82470E 00	5.74019E-02	-2.14966E 01	-5.33609E-02	1.89233 E 00	4.53223E-02
27.60	1.14683E-03	1.83809E 00	5.81230E-02	-2.14977E 01	-5.40562E-02	1.90596 E 00	4.53243E-02
27.70	1.15515E-03	1.85153E 00	5.88500E-02	-2.14988E 01	-5.47575E-02	1.91965 E 00	4.53263E-02
27.80	1.16350E-03	1.86502E 00	5.95829E-02	-2.14998E 01	-5.54645E-02	1.93339 E 00	4.53282E-02
27.90	1.17188E-03	1.87856E 00	6.03218E-02	-2.15009E 01	-5.61775E-02	1.94717 E 00	4.53301E-02
28.00	1.18028E-03	1.89215E 00	6.10667E-02	-2.15020E 01	-5.68964E-02	1.96100 E 00	4.53320E-02
28.10	1.18872E-03	1.90578E 00	6.18176E-02	-2.15030E 01	-5.76212E-02	1.97488 E 00	4.53339E-02
28.20	1.19719E-03	1.91947E 00	6.25746E-02	-2.15041E 01	-5.83520E-02	1.98881 E 00	4.53358E-02
28.30	1.20569E-03	1.93320E 00	6.33376E-02	-2.15051E 01	-5.90887E-02	2.00279 E 00	4.53377E-02
28.40	1.21421E-03	1.94698E 00	6.41067E-02	-2.15062E 01	-5.98315E-02	2.01682 E 00	4.53395E-02
28.50	1.22277E-03	1.96081E 00	6.48819E-02	-2.15072E 01	-6.05803E-02	2.03089 E 00	4.53414E-02
28.60	1.23136E-03	1.97469E 00	6.56632E-02	-2.15082E 01	-6.13351E-02	2.04502 E 00	4.53432E-02
28.70	1.23998E-03	1.98861E 00	6.64507E-02	-2.15092E 01	-6.20960E-02	2.05919 E 00	4.53450E-02
28.80	1.24863E-03	2.00259E 00	6.72444E-02	-2.15102E 01	-6.28631E-02	2.07341 E 00	4.53468E-02
28.90	1.25730E-03	2.01661E 00	6.80443E-02	-2.15112E 01	-6.36362E-02	2.08768 E 00	4.53486E-02
29.00	1.26601E-03	2.03068E 00	6.88504E-02	-2.15122E 01	-6.44155E-02	2.10199 E 00	4.53504E-02
29.10	1.27475E-03	2.04480E 00	6.96627E-02	-2.15132E 01	-6.52010E-02	2.11636 E 00	4.53522E-02
29.20	1.28352E-03	2.05897E 00	7.04814E-02	-2.15142E 01	-6.59926E-02	2.13077 E 00	4.53540E-02
29.30	1.29231E-03	2.07319E 00	7.13063E-02	-2.15151E 01	-6.67905E-02	2.14524 E 00	4.53557E-02
29.40	1.30114E-03	2.08745E 00	7.21375E-02	-2.15161E 01	-6.75946E-02	2.15975 E 00	4.53574E-02
29.50	1.31000E-03	2.10177E 00	7.29751E-02	-2.15171E 01	-6.84050E-02	2.17431 E 00	4.53592E-02
29.60	1.31889E-03	2.11613E 00	7.38191E-02	-2.15180E 01	-6.92217E-02	2.18891 E 00	4.53609E-02
29.70	1.32780E-03	2.13054E 00	7.46694E-02	-2.15190E 01	-7.00447E-02	2.20357 E 00	4.53626E-02
29.80	1.33675E-03	2.14500E 00	7.55262E-02	-2.15199E 01	-7.08740E-02	2.21827 E 00	4.53643E-02
29.90	1.34573E-03	2.15951E 00	7.63894E-02	-2.15208E 01	-7.17097E-02	2.23303 E 00	4.53660E-02
30.00	1.35474E-03	2.17406E 00	7.72591E-02	-2.15217E 01	-7.25518E-02	2.24783 E 00	4.53677E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=9$		$A=18$		$\rho=1.2A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
30.10	8.18717E-01	2.75464E 01	1.60610E 00	-3.69706E-04	-1.50828E 00	2.85305E 01	3.95267E 02	
30.20	8.18706E-01	2.76434E 01	1.61930E 00	-3.71150E-04	-1.52124E 00	2.86280E 01	3.96183E 02	
30.30	8.18695E-01	2.77404E 01	1.63255E 00	-3.72572E-04	-1.53426E 00	2.87255E 01	3.97100E 02	
30.40	8.18684E-01	2.78375E 01	1.64586E 00	-3.73961E-04	-1.54733E 00	2.88231E 01	3.98019E 02	
30.50	8.18673E-01	2.79346E 01	1.65922E 00	-3.75305E-04	-1.56046E 00	2.89207E 01	3.98942E 02	
30.60	8.18662E-01	2.80317E 01	1.67264E 00	-3.76638E-04	-1.57364E 00	2.90183E 01	3.99863E 02	
30.70	8.18651E-01	2.81289E 01	1.68612E 00	-3.77938E-04	-1.58688E 00	2.91160E 01	4.00787E 02	
30.80	8.18640E-01	2.82261E 01	1.69965E 00	-3.79195E-04	-1.60018E 00	2.92137E 01	4.01715E 02	
30.90	8.18629E-01	2.83234E 01	1.71324E 00	-3.80438E-04	-1.61353E 00	2.93115E 01	4.02642E 02	
31.00	8.18618E-01	2.84207E 01	1.72688E 00	-3.81638E-04	-1.62694E 00	2.94093E 01	4.03572E 02	
31.10	8.18608E-01	2.85180E 01	1.74058E 00	-3.82809E-04	-1.64041E 00	2.95071E 01	4.04505E 02	
31.20	8.18597E-01	2.86154E 01	1.75434E 00	-3.83969E-04	-1.65393E 00	2.96050E 01	4.05437E 02	
31.30	8.18586E-01	2.87128E 01	1.76815E 00	-3.85088E-04	-1.66751E 00	2.97030E 01	4.06373E 02	
31.40	8.18575E-01	2.88102E 01	1.78202E 00	-3.86176E-04	-1.68114E 00	2.98009E 01	4.07311E 02	
31.50	8.18565E-01	2.89077E 01	1.79594E 00	-3.87241E-04	-1.69483E 00	2.98989E 01	4.08250E 02	
31.60	8.18554E-01	2.90053E 01	1.80992E 00	-3.88273E-04	-1.70857E 00	2.99970E 01	4.09191E 02	
31.70	8.18544E-01	2.91028E 01	1.82395E 00	-3.89289E-04	-1.72238E 00	3.00951E 01	4.10134E 02	
31.80	8.18533E-01	2.92004E 01	1.83805E 00	-3.90266E-04	-1.73623E 00	3.01932E 01	4.11079E 02	
31.90	8.18522E-01	2.92981E 01	1.85219E 00	-3.91215E-04	-1.75015E 00	3.02913E 01	4.12028E 02	
32.00	8.18512E-01	2.93958E 01	1.86640E 00	-3.92137E-04	-1.76412E 00	3.03896E 01	4.12978E 02	
32.10	8.18501E-01	2.94935E 01	1.88066E 00	-3.93038E-04	-1.77815E 00	3.04878E 01	4.13929E 02	
32.20	8.18491E-01	2.95913E 01	1.89498E 00	-3.93910E-04	-1.79223E 00	3.05861E 01	4.14883E 02	
32.30	8.18481E-01	2.96891E 01	1.90935E 00	-3.94755E-04	-1.80638E 00	3.06844E 01	4.15839E 02	
32.40	8.18470E-01	2.97869E 01	1.92378E 00	-3.95565E-04	-1.82057E 00	3.07828E 01	4.16799E 02	
32.50	8.18460E-01	2.98848E 01	1.93827E 00	-3.96358E-04	-1.83483E 00	3.08812E 01	4.17760E 02	
32.60	8.18449E-01	2.99827E 01	1.95281E 00	-3.97129E-04	-1.84914E 00	3.09797E 01	4.18722E 02	
32.70	8.18439E-01	3.00807E 01	1.96742E 00	-3.97865E-04	-1.86351E 00	3.10782E 01	4.19688E 02	
32.80	8.18429E-01	3.01787E 01	1.98207E 00	-3.98574E-04	-1.87793E 00	3.11767E 01	4.20657E 02	
32.90	8.18419E-01	3.02768E 01	1.99679E 00	-3.99256E-04	-1.89242E 00	3.12753E 01	4.21628E 02	
33.00	8.18408E-01	3.03748E 01	2.01156E 00	-3.99919E-04	-1.90695E 00	3.13740E 01	4.22601E 02	
33.10	8.18398E-01	3.04730E 01	2.02639E 00	-4.00550E-04	-1.92155E 00	3.14726E 01	4.23577E 02	
33.20	8.18388E-01	3.05712E 01	2.04127E 00	-4.01161E-04	-1.93620E 00	3.15713E 01	4.24555E 02	
33.30	8.18378E-01	3.06694E 01	2.05621E 00	-4.01748E-04	-1.95092E 00	3.16701E 01	4.25535E 02	
33.40	8.18368E-01	3.07676E 01	2.07121E 00	-4.02308E-04	-1.96568E 00	3.17689E 01	4.26519E 02	
33.50	8.18358E-01	3.08659E 01	2.08627E 00	-4.02841E-04	-1.98051E 00	3.18678E 01	4.27505E 02	
33.60	8.18348E-01	3.09643E 01	2.10138E 00	-4.03355E-04	-1.99539E 00	3.19666E 01	4.28493E 02	
33.70	8.18338E-01	3.10626E 01	2.11655E 00	-4.03842E-04	-2.01033E 00	3.20656E 01	4.29484E 02	
33.80	8.18328E-01	3.11611E 01	2.13178E 00	-4.04298E-04	-2.02533E 00	3.21646E 01	4.30479E 02	
33.90	8.18318E-01	3.12595E 01	2.14706E 00	-4.04741E-04	-2.04038E 00	3.22636E 01	4.31475E 02	
34.00	8.18308E-01	3.13580E 01	2.16240E 00	-4.05157E-04	-2.05549E 00	3.23626E 01	4.32474E 02	
34.10	8.18298E-01	3.14566E 01	2.17780E 00	-4.05551E-04	-2.07066E 00	3.24617E 01	4.33476E 02	
34.20	8.18288E-01	3.15552E 01	2.19326E 00	-4.05909E-04	-2.08589E 00	3.25609E 01	4.34483E 02	
34.30	8.18278E-01	3.16538E 01	2.20878E 00	-4.06246E-04	-2.10117E 00	3.26601E 01	4.35492E 02	
34.40	8.18268E-01	3.17525E 01	2.22435E 00	-4.06571E-04	-2.11652E 00	3.27593E 01	4.36502E 02	
34.50	8.18258E-01	3.18512E 01	2.23998E 00	-4.06862E-04	-2.13192E 00	3.28586E 01	4.37517E 02	
34.60	8.18249E-01	3.19500E 01	2.25566E 00	-4.07137E-04	-2.14738E 00	3.29579E 01	4.38534E 02	
34.70	8.18239E-01	3.20488E 01	2.27141E 00	-4.07388E-04	-2.16289E 00	3.30573E 01	4.39554E 02	
34.80	8.18229E-01	3.21476E 01	2.28721E 00	-4.07621E-04	-2.17847E 00	3.31567E 01	4.40576E 02	
34.90	8.18219E-01	3.22465E 01	2.30307E 00	-4.07827E-04	-2.19410E 00	3.32562E 01	4.41602E 02	
35.00	8.18210E-01	3.23454E 01	2.31899E 00	-4.08004E-04	-2.20979E 00	3.33557E 01	4.42633E 02	
35.10	8.18200E-01	3.24444E 01	2.33497E 00	-4.08161E-04	-2.22554E 00	3.34553E 01	4.43666E 02	
35.20	8.18190E-01	3.25434E 01	2.35100E 00	-4.08294E-04	-2.24134E 00	3.35549E 01	4.44703E 02	
35.30	8.18181E-01	3.26425E 01	2.36709E 00	-4.08408E-04	-2.25721E 00	3.36545E 01	4.45743E 02	
35.40	8.18171E-01	3.27416E 01	2.38324E 00	-4.08509E-04	-2.27313E 00	3.37542E 01	4.46783E 02	
35.50	8.18162E-01	3.28408E 01	2.39945E 00	-4.08578E-04	-2.28911E 00	3.38540E 01	4.47830E 02	
35.60	8.18152E-01	3.29400E 01	2.41572E 00	-4.08620E-04	-2.30515E 00	3.39537E 01	4.48881E 02	
35.70	8.18143E-01	3.30392E 01	2.43204E 00	-4.08650E-04	-2.32125E 00	3.40536E 01	4.49933E 02	
35.80	8.18133E-01	3.31385E 01	2.44843E 00	-4.08659E-04	-2.33740E 00	3.41534E 01	4.50989E 02	
35.90	8.18124E-01	3.32378E 01	2.46487E 00	-4.08637E-04	-2.35362E 00	3.42534E 01	4.52049E 02	
36.00	8.18114E-01	3.33372E 01	2.48137E 00	-4.08600E-04	-2.36989E 00	3.43533E 01	4.53113E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z=9$  $A=18$  $\rho=1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
30.10	1.36378E-03	2.18867E 00	7.81353E-02	-2.15227E 01	-7.34003E-02	2.26268E 00	4.53693E-02
30.20	1.37284E-03	2.20332E 00	7.90180E-02	-2.15236E 01	-7.42552E-02	2.27758E 00	4.53710E-02
30.30	1.38194E-03	2.21802E 00	7.99072E-02	-2.15245E 01	-7.51166E-02	2.29252E 00	4.53726E-02
30.40	1.39107E-03	2.23277E 00	8.08029E-02	-2.15254E 01	-7.59845E-02	2.30752E 00	4.53743E-02
30.50	1.40023E-03	2.24757E 00	8.17053E-02	-2.15263E 01	-7.68588E-02	2.32256E 00	4.53759E-02
30.60	1.40942E-03	2.26241E 00	8.26143E-02	-2.15272E 01	-7.77397E-02	2.33765E 00	4.53775E-02
30.70	1.41863E-03	2.27731E 00	8.35298E-02	-2.15280E 01	-7.86271E-02	2.35279E 00	4.53791E-02
30.80	1.42788E-03	2.29225E 00	8.44521E-02	-2.15289E 01	-7.95211E-02	2.36798E 00	4.53807E-02
30.90	1.43716E-03	2.30724E 00	8.53810E-02	-2.15298E 01	-8.04218E-02	2.38321E 00	4.53823E-02
31.00	1.44647E-03	2.32228E 00	8.63166E-02	-2.15306E 01	-8.13290E-02	2.39850E 00	4.53839E-02
31.10	1.45581E-03	2.33737E 00	8.72590E-02	-2.15315E 01	-8.22429E-02	2.41383E 00	4.53854E-02
31.20	1.46517E-03	2.35250E 00	8.82080E-02	-2.15323E 01	-8.31634E-02	2.42921E 00	4.53870E-02
31.30	1.47457E-03	2.36769E 00	8.91639E-02	-2.15332E 01	-8.40906E-02	2.44464E 00	4.53885E-02
31.40	1.48400E-03	2.38292E 00	9.01265E-02	-2.15340E 01	-8.50246E-02	2.46012E 00	4.53901E-02
31.50	1.49346E-03	2.39820E 00	9.10960E-02	-2.15349E 01	-8.59653E-02	2.47565E 00	4.53916E-02
31.60	1.50295E-03	2.41353E 00	9.20723E-02	-2.15357E 01	-8.69127E-02	2.49122E 00	4.53931E-02
31.70	1.51246E-03	2.42891E 00	9.30555E-02	-2.15365E 01	-8.78669E-02	2.50684E 00	4.53946E-02
31.80	1.52201E-03	2.44433E 00	9.40455E-02	-2.15373E 01	-8.88280E-02	2.52251E 00	4.53961E-02
31.90	1.53159E-03	2.45980E 00	9.50425E-02	-2.15382E 01	-8.97959E-02	2.53823E 00	4.53976E-02
32.00	1.54120E-03	2.47532E 00	9.60464E-02	-2.15390E 01	-9.07706E-02	2.55400E 00	4.53991E-02
32.10	1.55084E-03	2.49090E 00	9.70573E-02	-2.15398E 01	-9.17522E-02	2.56981E 00	4.54006E-02
32.20	1.56051E-03	2.50651E 00	9.80751E-02	-2.15406E 01	-9.27408E-02	2.58568E 00	4.54020E-02
32.30	1.57020E-03	2.52218E 00	9.91000E-02	-2.15413E 01	-9.37362E-02	2.60159E 00	4.54035E-02
32.40	1.57993E-03	2.53789E 00	1.00132E-01	-2.15421E 01	-9.47386E-02	2.61755E 00	4.54050E-02
32.50	1.58969E-03	2.55366E 00	1.01171E-01	-2.15429E 01	-9.57480E-02	2.63355E 00	4.54064E-02
32.60	1.59948E-03	2.56947E 00	1.02217E-01	-2.15437E 01	-9.67644E-02	2.64961E 00	4.54078E-02
32.70	1.60930E-03	2.58533E 00	1.03270E-01	-2.15445E 01	-9.77878E-02	2.66571E 00	4.54092E-02
32.80	1.61914E-03	2.60123E 00	1.04330E-01	-2.15452E 01	-9.88182E-02	2.68187E 00	4.54107E-02
32.90	1.62902E-03	2.61719E 00	1.05398E-01	-2.15460E 01	-9.98557E-02	2.69807E 00	4.54121E-02
33.00	1.63893E-03	2.63319E 00	1.06472E-01	-2.15468E 01	-1.00900E-01	2.71432E 00	4.54135E-02
33.10	1.64887E-03	2.64924E 00	1.07554E-01	-2.15475E 01	-1.01952E-01	2.73061E 00	4.54149E-02
33.20	1.65884E-03	2.66534E 00	1.08643E-01	-2.15483E 01	-1.03011E-01	2.74696E 00	4.54163E-02
33.30	1.66883E-03	2.68149E 00	1.09739E-01	-2.15490E 01	-1.04077E-01	2.76335E 00	4.54176E-02
33.40	1.67886E-03	2.69769E 00	1.10843E-01	-2.15497E 01	-1.05150E-01	2.77979E 00	4.54190E-02
33.50	1.68892E-03	2.71393E 00	1.11953E-01	-2.15505E 01	-1.06231E-01	2.79628E 00	4.54204E-02
33.60	1.69901E-03	2.73022E 00	1.13071E-01	-2.15512E 01	-1.07318E-01	2.81282E 00	4.54217E-02
33.70	1.70913E-03	2.74656E 00	1.14197E-01	-2.15519E 01	-1.08413E-01	2.82940E 00	4.54231E-02
33.80	1.71928E-03	2.76295E 00	1.15330E-01	-2.15526E 01	-1.09515E-01	2.84603E 00	4.54244E-02
33.90	1.72945E-03	2.77939E 00	1.16470E-01	-2.15534E 01	-1.10625E-01	2.86272E 00	4.54257E-02
34.00	1.73966E-03	2.79587E 00	1.17617E-01	-2.15541E 01	-1.11742E-01	2.87945E 00	4.54270E-02
34.10	1.74990E-03	2.81241E 00	1.18772E-01	-2.15548E 01	-1.12866E-01	2.89622E 00	4.54284E-02
34.20	1.76017E-03	2.82899E 00	1.19935E-01	-2.15555E 01	-1.13997E-01	2.91305E 00	4.54297E-02
34.30	1.77047E-03	2.84561E 00	1.21105E-01	-2.15562E 01	-1.15136E-01	2.92992E 00	4.54310E-02
34.40	1.78079E-03	2.86229E 00	1.22282E-01	-2.15569E 01	-1.16283E-01	2.94684E 00	4.54323E-02
34.50	1.79115E-03	2.87902E 00	1.23467E-01	-2.15576E 01	-1.17437E-01	2.96381E 00	4.54336E-02
34.60	1.80154E-03	2.89579E 00	1.24660E-01	-2.15583E 01	-1.18598E-01	2.98083E 00	4.54348E-02
34.70	1.81196E-03	2.91261E 00	1.25860E-01	-2.15589E 01	-1.19767E-01	2.99789E 00	4.54361E-02
34.80	1.82241E-03	2.92948E 00	1.27067E-01	-2.15596E 01	-1.20943E-01	3.01501E 00	4.54374E-02
34.90	1.83289E-03	2.94639E 00	1.28283E-01	-2.15603E 01	-1.22127E-01	3.03217E 00	4.54386E-02
35.00	1.84339E-03	2.96336E 00	1.29505E-01	-2.15610E 01	-1.23318E-01	3.04938E 00	4.54399E-02
35.10	1.85393E-03	2.98037E 00	1.30736E-01	-2.15616E 01	-1.24517E-01	3.06663E 00	4.54411E-02
35.20	1.86450E-03	2.99743E 00	1.31974E-01	-2.15623E 01	-1.25724E-01	3.08394E 00	4.54424E-02
35.30	1.87510E-03	3.01454E 00	1.33220E-01	-2.15629E 01	-1.26938E-01	3.10129E 00	4.54436E-02
35.40	1.88573E-03	3.03170E 00	1.34474E-01	-2.15636E 01	-1.28160E-01	3.11869E 00	4.54448E-02
35.50	1.89639E-03	3.04890E 00	1.35735E-01	-2.15642E 01	-1.29389E-01	3.13614E 00	4.54461E-02
35.60	1.90707E-03	3.06615E 00	1.37005E-01	-2.15649E 01	-1.30627E-01	3.15364E 00	4.54473E-02
35.70	1.91779E-03	3.08345E 00	1.38282E-01	-2.15655E 01	-1.31872E-01	3.17118E 00	4.54485E-02
35.80	1.92854E-03	3.10080E 00	1.39567E-01	-2.15662E 01	-1.33124E-01	3.18878E 00	4.54497E-02
35.90	1.93932E-03	3.11820E 00	1.40859E-01	-2.15668E 01	-1.34385E-01	3.20642E 00	4.54509E-02
36.00	1.95013E-03	3.13564E 00	1.42160E-01	-2.15674E 01	-1.35653E-01	3.22410E 00	4.54521E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=9$		$A=18$		$\rho=1.2A^{1/3}F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
36.10	8.18105E-01	3.34366E 01	2.49793E 00	-4.08539E-04	-2.38622E 00	3.44534E 01	4.54181E 02			
36.20	8.18095E-01	3.35361E 01	2.51455E 00	-4.08457E-04	-2.40261E 00	3.45534E 01	4.55251E 02			
36.30	8.18086E-01	3.36356E 01	2.53122E 00	-4.08361E-04	-2.41906E 00	3.46535E 01	4.56325E 02			
36.40	8.18077E-01	3.37352E 01	2.54795E 00	-4.08237E-04	-2.43557E 00	3.47537E 01	4.57403E 02			
36.50	8.18067E-01	3.38348E 01	2.56475E 00	-4.08099E-04	-2.45214E 00	3.48539E 01	4.58484E 02			
36.60	8.18058E-01	3.39344E 01	2.58160E 00	-4.07932E-04	-2.46876E 00	3.49542E 01	4.59570E 02			
36.70	8.18049E-01	3.40341E 01	2.59851E 00	-4.07752E-04	-2.48545E 00	3.50545E 01	4.60659E 02			
36.80	8.18040E-01	3.41339E 01	2.61548E 00	-4.07541E-04	-2.50219E 00	3.51548E 01	4.61754E 02			
36.90	8.18030E-01	3.42336E 01	2.63251E 00	-4.07318E-04	-2.51900E 00	3.52552E 01	4.62850E 02			
37.00	8.18021E-01	3.43335E 01	2.64959E 00	-4.07068E-04	-2.53586E 00	3.53556E 01	4.63953E 02			
37.10	8.18012E-01	3.44334E 01	2.66674E 00	-4.06804E-04	-2.55278E 00	3.54561E 01	4.65058E 02			
37.20	8.18003E-01	3.45333E 01	2.68394E 00	-4.06523E-04	-2.56976E 00	3.55567E 01	4.66166E 02			
37.30	8.17994E-01	3.46333E 01	2.70121E 00	-4.06221E-04	-2.58680E 00	3.56573E 01	4.67279E 02			
37.40	8.17984E-01	3.47333E 01	2.71853E 00	-4.05899E-04	-2.60390E 00	3.57579E 01	4.68396E 02			
37.50	8.17975E-01	3.48333E 01	2.73591E 00	-4.05540E-04	-2.62106E 00	3.58586E 01	4.69520E 02			
37.60	8.17966E-01	3.49335E 01	2.75336E 00	-4.05178E-04	-2.63828E 00	3.59593E 01	4.70645E 02			
37.70	8.17957E-01	3.50336E 01	2.77086E 00	-4.04798E-04	-2.65556E 00	3.60601E 01	4.71775E 02			
37.80	8.17948E-01	3.51338E 01	2.78842E 00	-4.04393E-04	-2.67289E 00	3.61609E 01	4.72909E 02			
37.90	8.17938E-01	3.52341E 01	2.80604E 00	-4.03983E-04	-2.69029E 00	3.62618E 01	4.74045E 02			
38.00	8.17930E-01	3.53344E 01	2.82372E 00	-4.03529E-04	-2.70775E 00	3.63628E 01	4.75191E 02			
38.10	8.17921E-01	3.54347E 01	2.84146E 00	-4.03069E-04	-2.72526E 00	3.64637E 01	4.76339E 02			
38.20	8.17912E-01	3.55351E 01	2.85926E 00	-4.02586E-04	-2.74284E 00	3.65648E 01	4.77491E 02			
38.30	8.17903E-01	3.56356E 01	2.87712E 00	-4.02092E-04	-2.76048E 00	3.66658E 01	4.78646E 02			
38.40	8.17894E-01	3.57361E 01	2.89503E 00	-4.01576E-04	-2.77817E 00	3.67670E 01	4.79807E 02			
38.50	8.17885E-01	3.58366E 01	2.91301E 00	-4.01032E-04	-2.79593E 00	3.68682E 01	4.80975E 02			
38.60	8.17876E-01	3.59372E 01	2.93105E 00	-4.00473E-04	-2.81375E 00	3.69694E 01	4.82146E 02			
38.70	8.17867E-01	3.60378E 01	2.94915E 00	-3.99907E-04	-2.83162E 00	3.70707E 01	4.83319E 02			
38.80	8.17858E-01	3.61385E 01	2.96731E 00	-3.99307E-04	-2.84956E 00	3.71720E 01	4.84501E 02			
38.90	8.17850E-01	3.62393E 01	2.98553E 00	-3.98701E-04	-2.86756E 00	3.72734E 01	4.85685E 02			
39.00	8.17841E-01	3.63400E 01	3.00380E 00	-3.98068E-04	-2.88562E 00	3.73748E 01	4.86875E 02			
39.10	8.17832E-01	3.64409E 01	3.02214E 00	-3.97421E-04	-2.90373E 00	3.74763E 01	4.88069E 02			
39.20	8.17823E-01	3.65418E 01	3.04054E 00	-3.96749E-04	-2.92191E 00	3.75779E 01	4.89270E 02			
39.30	8.17815E-01	3.66427E 01	3.05900E 00	-3.96070E-04	-2.94015E 00	3.76794E 01	4.90474E 02			
39.40	8.17806E-01	3.67437E 01	3.07752E 00	-3.95373E-04	-2.95845E 00	3.77811E 01	4.91682E 02			
39.50	8.17797E-01	3.68447E 01	3.09610E 00	-3.94640E-04	-2.97681E 00	3.78828E 01	4.92900E 02			
39.60	8.17789E-01	3.69458E 01	3.11474E 00	-3.93910E-04	-2.99523E 00	3.79845E 01	4.94118E 02			
39.70	8.17780E-01	3.70469E 01	3.13344E 00	-3.93155E-04	-3.01372E 00	3.80863E 01	4.95343E 02			
39.80	8.17772E-01	3.71481E 01	3.15220E 00	-3.92379E-04	-3.03226E 00	3.81882E 01	4.96574E 02			
39.90	8.17763E-01	3.72493E 01	3.17103E 00	-3.91586E-04	-3.05086E 00	3.82901E 01	4.97811E 02			
40.00	8.17755E-01	3.73506E 01	3.18991E 00	-3.90782E-04	-3.06953E 00	3.83920E 01	4.99051E 02			
40.10	8.17746E-01	3.74520E 01	3.20886E 00	-3.89951E-04	-3.08825E 00	3.84940E 01	5.00298E 02			
40.20	8.17738E-01	3.75534E 01	3.22786E 00	-3.89115E-04	-3.10704E 00	3.85961E 01	5.01549E 02			
40.30	8.17729E-01	3.76548E 01	3.24693E 00	-3.88256E-04	-3.12589E 00	3.86982E 01	5.02806E 02			
40.40	8.17721E-01	3.77563E 01	3.26605E 00	-3.87370E-04	-3.14480E 00	3.88004E 01	5.04071E 02			
40.50	8.17712E-01	3.78578E 01	3.28524E 00	-3.86474E-04	-3.16377E 00	3.89026E 01	5.05341E 02			
40.60	8.17704E-01	3.79594E 01	3.30449E 00	-3.85556E-04	-3.18280E 00	3.90049E 01	5.06616E 02			
40.70	8.17695E-01	3.80611E 01	3.32380E 00	-3.84631E-04	-3.20189E 00	3.91072E 01	5.07896E 02			
40.80	8.17687E-01	3.81627E 01	3.34317E 00	-3.83686E-04	-3.22105E 00	3.92096E 01	5.09182E 02			
40.90	8.17679E-01	3.82645E 01	3.36261E 00	-3.82726E-04	-3.24027E 00	3.93120E 01	5.10473E 02			
41.00	8.17670E-01	3.83663E 01	3.38210E 00	-3.81744E-04	-3.25954E 00	3.94145E 01	5.11772E 02			
41.10	8.17662E-01	3.84681E 01	3.40166E 00	-3.80741E-04	-3.27888E 00	3.95170E 01	5.13078E 02			
41.20	8.17654E-01	3.85700E 01	3.42128E 00	-3.79734E-04	-3.29829E 00	3.96196E 01	5.14386E 02			
41.30	8.17645E-01	3.86720E 01	3.44096E 00	-3.78706E-04	-3.31775E 00	3.97222E 01	5.15702E 02			
41.40	8.17637E-01	3.87740E 01	3.46070E 00	-3.77659E-04	-3.33728E 00	3.98249E 01	5.17025E 02			
41.50	8.17629E-01	3.88760E 01	3.48050E 00	-3.76596E-04	-3.35686E 00	3.99277E 01	5.18353E 02			
41.60	8.17621E-01	3.89782E 01	3.50036E 00	-3.75512E-04	-3.37651E 00	4.00305E 01	5.19690E 02			
41.70	8.17612E-01	3.90803E 01	3.52029E 00	-3.74418E-04	-3.39623E 00	4.01334E 01	5.21031E 02			
41.80	8.17604E-01	3.91825E 01	3.54028E 00	-3.73312E-04	-3.41600E 00	4.02363E 01	5.22376E 02			
41.90	8.17596E-01	3.92848E 01	3.56033E 00	-3.72177E-04	-3.43584E 00	4.03393E 01	5.23733E 02			
42.00	8.17588E-01	3.93871E 01	3.58044E 00	-3.71035E-04	-3.45573E 00	4.04423E 01	5.25093E 02			

## ELECTRON RADIAL FUNCTIONS

 $Z=9$  $A=18$  $\rho=1.2A^{1/3}F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
36.10	1.96097E-03	3.15313E 00	1.43469E-01	-2.15681E 01	-1.36929E-01	3.24184E 00	4.54532E-02
36.20	1.97183E-03	3.17067E 00	1.44785E-01	-2.15687E 01	-1.38213E-01	3.25962E 00	4.54544E-02
36.30	1.98273E-03	3.18826E 00	1.46109E-01	-2.15693E 01	-1.39505E-01	3.27746E 00	4.54556E-02
36.40	1.99366E-03	3.20589E 00	1.47442E-01	-2.15699E 01	-1.40805E-01	3.29534E 00	4.54568E-02
36.50	2.00462E-03	3.22358E 00	1.48782E-01	-2.15706E 01	-1.42113E-01	3.31326E 00	4.54579E-02
36.60	2.01561E-03	3.24131E 00	1.50130E-01	-2.15712E 01	-1.43428E-01	3.33124E 00	4.54591E-02
36.70	2.02662E-03	3.25909E 00	1.51487E-01	-2.15718E 01	-1.44752E-01	3.34926E 00	4.54602E-02
36.80	2.03767E-03	3.27691E 00	1.52851E-01	-2.15724E 01	-1.46083E-01	3.36733E 00	4.54614E-02
36.90	2.04875E-03	3.29478E 00	1.54224E-01	-2.15730E 01	-1.47423E-01	3.38545E 00	4.54625E-02
37.00	2.05986E-03	3.31271E 00	1.55604E-01	-2.15736E 01	-1.48770E-01	3.40362E 00	4.54636E-02
37.10	2.07100E-03	3.33068E 00	1.56993E-01	-2.15742E 01	-1.50126E-01	3.42183E 00	4.54647E-02
37.20	2.08217E-03	3.34869E 00	1.58390E-01	-2.15747E 01	-1.51490E-01	3.44009E 00	4.54659E-02
37.30	2.09336E-03	3.36676E 00	1.59795E-01	-2.15753E 01	-1.52861E-01	3.45840E 00	4.54670E-02
37.40	2.10459E-03	3.38487E 00	1.61209E-01	-2.15759E 01	-1.54241E-01	3.47676E 00	4.54681E-02
37.50	2.11585E-03	3.40303E 00	1.62630E-01	-2.15765E 01	-1.55629E-01	3.49516E 00	4.54692E-02
37.60	2.12714E-03	3.42124E 00	1.64060E-01	-2.15771E 01	-1.57026E-01	3.51362E 00	4.54703E-02
37.70	2.13846E-03	3.43950E 00	1.65498E-01	-2.15776E 01	-1.58430E-01	3.53212E 00	4.54714E-02
37.80	2.14981E-03	3.45780E 00	1.66944E-01	-2.15782E 01	-1.59843E-01	3.55066E 00	4.54724E-02
37.90	2.16118E-03	3.47615E 00	1.68399E-01	-2.15788E 01	-1.61264E-01	3.56926E 00	4.54735E-02
38.00	2.17259E-03	3.49455E 00	1.69862E-01	-2.15793E 01	-1.62693E-01	3.58790E 00	4.54746E-02
38.10	2.18403E-03	3.51300E 00	1.71333E-01	-2.15799E 01	-1.64130E-01	3.60659E 00	4.54757E-02
38.20	2.19550E-03	3.53149E 00	1.72813E-01	-2.15805E 01	-1.65576E-01	3.62533E 00	4.54767E-02
38.30	2.20700E-03	3.55003E 00	1.74301E-01	-2.15810E 01	-1.67030E-01	3.64412E 00	4.54778E-02
38.40	2.21852E-03	3.56862E 00	1.75798E-01	-2.15816E 01	-1.68492E-01	3.66295E 00	4.54788E-02
38.50	2.23008E-03	3.58726E 00	1.77303E-01	-2.15821E 01	-1.69963E-01	3.68183E 00	4.54799E-02
38.60	2.24167E-03	3.60594E 00	1.78816E-01	-2.15827E 01	-1.71442E-01	3.70076E 00	4.54809E-02
38.70	2.25329E-03	3.62468E 00	1.80338E-01	-2.15832E 01	-1.72930E-01	3.71974E 00	4.54820E-02
38.80	2.26494E-03	3.64346E 00	1.81869E-01	-2.15838E 01	-1.74426E-01	3.73876E 00	4.54830E-02
38.90	2.27662E-03	3.66228E 00	1.83408E-01	-2.15843E 01	-1.75931E-01	3.75783E 00	4.54840E-02
39.00	2.28832E-03	3.68116E 00	1.84956E-01	-2.15848E 01	-1.77444E-01	3.77695E 00	4.54851E-02
39.10	2.30006E-03	3.70008E 00	1.86512E-01	-2.15854E 01	-1.78965E-01	3.79612E 00	4.54861E-02
39.20	2.31183E-03	3.71905E 00	1.88077E-01	-2.15859E 01	-1.80496E-01	3.81533E 00	4.54871E-02
39.30	2.32363E-03	3.73807E 00	1.89651E-01	-2.15864E 01	-1.82034E-01	3.83460E 00	4.54881E-02
39.40	2.33546E-03	3.75714E 00	1.91233E-01	-2.15869E 01	-1.83582E-01	3.85391E 00	4.54891E-02
39.50	2.34731E-03	3.77625E 00	1.92824E-01	-2.15875E 01	-1.85137E-01	3.87326E 00	4.54901E-02
39.60	2.35920E-03	3.79541E 00	1.94423E-01	-2.15880E 01	-1.86702E-01	3.89267E 00	4.54911E-02
39.70	2.37112E-03	3.81462E 00	1.96032E-01	-2.15885E 01	-1.88275E-01	3.91212E 00	4.54921E-02
39.80	2.38307E-03	3.83387E 00	1.97649E-01	-2.15890E 01	-1.89857E-01	3.93162E 00	4.54931E-02
39.90	2.39505E-03	3.85318E 00	1.99275E-01	-2.15895E 01	-1.91448E-01	3.95116E 00	4.54941E-02
40.00	2.40705E-03	3.87253E 00	2.00910E-01	-2.15900E 01	-1.93047E-01	3.97076E 00	4.54950E-02
40.10	2.41909E-03	3.89192E 00	2.02553E-01	-2.15905E 01	-1.94655E-01	3.99040E 00	4.54960E-02
40.20	2.43116E-03	3.91137E 00	2.04205E-01	-2.15910E 01	-1.96272E-01	4.01009E 00	4.54970E-02
40.30	2.44326E-03	3.93086E 00	2.05867E-01	-2.15915E 01	-1.97897E-01	4.02983E 00	4.54979E-02
40.40	2.45539E-03	3.95040E 00	2.07537E-01	-2.15920E 01	-1.99532E-01	4.04961E 00	4.54989E-02
40.50	2.46755E-03	3.96999E 00	2.09216E-01	-2.15925E 01	-2.01175E-01	4.06944E 00	4.54998E-02
40.60	2.47973E-03	3.98963E 00	2.10904E-01	-2.15930E 01	-2.02827E-01	4.08932E 00	4.55008E-02
40.70	2.49195E-03	4.00931E 00	2.12601E-01	-2.15935E 01	-2.04488E-01	4.10925E 00	4.55017E-02
40.80	2.50420E-03	4.02904E 00	2.14307E-01	-2.15940E 01	-2.06158E-01	4.12922E 00	4.55027E-02
40.90	2.51648E-03	4.04881E 00	2.16022E-01	-2.15944E 01	-2.07837E-01	4.14924E 00	4.55036E-02
41.00	2.52878E-03	4.06864E 00	2.17746E-01	-2.15949E 01	-2.09525E-01	4.16931E 00	4.55045E-02
41.10	2.54112E-03	4.08851E 00	2.19479E-01	-2.15954E 01	-2.11222E-01	4.18943E 00	4.55055E-02
41.20	2.55349E-03	4.10843E 00	2.21221E-01	-2.15959E 01	-2.12928E-01	4.20959E 00	4.55064E-02
41.30	2.56589E-03	4.12840E 00	2.22973E-01	-2.15964E 01	-2.14643E-01	4.22980E 00	4.55073E-02
41.40	2.57832E-03	4.14841E 00	2.24733E-01	-2.15968E 01	-2.16367E-01	4.25006E 00	4.55082E-02
41.50	2.59078E-03	4.16847E 00	2.26503E-01	-2.15973E 01	-2.18100E-01	4.27036E 00	4.55091E-02
41.60	2.60326E-03	4.18858E 00	2.28281E-01	-2.15978E 01	-2.19842E-01	4.29071E 00	4.55101E-02
41.70	2.61578E-03	4.20874E 00	2.30069E-01	-2.15982E 01	-2.21593E-01	4.31111E 00	4.55110E-02
41.80	2.62833E-03	4.22894E 00	2.31867E-01	-2.15987E 01	-2.23354E-01	4.33156E 00	4.55119E-02
41.90	2.64091E-03	4.24919E 00	2.33673E-01	-2.15991E 01	-2.25123E-01	4.35205E 00	4.55128E-02
42.00	2.65351E-03	4.26949E 00	2.35489E-01	-2.15996E 01	-2.26902E-01	4.37259E 00	4.55136E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 10 \quad A = 20 \quad \rho = 1.2 A^{1/3} F$							
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
0.10	4.85317E-02	1.91966E-03	-4.52327E-05	3.49651E-01	9.07512E-04	3.10916E-02	3.30233E 00	
0.20	2.60625E-01	1.51456E-02	-3.56243E-04	1.62072E-01	4.18488E-03	1.43580E-01	5.22273E 00	
0.30	4.22727E-01	4.12275E-02	-9.66906E-04	1.07265E-01	7.93011E-03	2.72715E-01	7.54600E 00	
0.40	5.26941E-01	7.89456E-02	-1.84417E-03	8.05706E-02	1.16792E-02	4.02932E-01	9.96151E 00	
0.50	5.95814E-01	1.26749E-01	-2.94622E-03	6.46534E-02	1.53254E-02	5.30842E-01	1.24173E 01	
0.60	6.43278E-01	1.83033E-01	-4.22972E-03	5.40361E-02	1.88338E-02	6.55442E-01	1.48933E 01	
0.70	6.77207E-01	2.46291E-01	-5.65379E-03	4.64258E-02	2.21934E-02	7.76506E-01	1.73784E 01	
0.80	7.02198E-01	3.15184E-01	-7.18205E-03	4.06903E-02	2.54043E-02	8.94132E-01	1.98654E 01	
0.90	7.21067E-01	3.88574E-01	-8.78358E-03	3.62049E-02	2.84720E-02	1.00857E 00	2.23492E 01	
1.00	7.35613E-01	4.65529E-01	-1.04329E-02	3.25965E-02	3.14045E-02	1.12014E 00	2.48262E 01	
1.10	7.47024E-01	5.45294E-01	-1.21094E-02	2.96276E-02	3.42106E-02	1.22917E 00	2.72935E 01	
1.20	7.56114E-01	6.27272E-01	-1.37967E-02	2.71402E-02	3.68993E-02	1.33597E 00	2.97493E 01	
1.30	7.63453E-01	7.10992E-01	-1.54818E-02	2.50247E-02	3.94788E-02	1.44083E 00	3.21919E 01	
1.40	7.69447E-01	7.96084E-01	-1.71546E-02	2.32027E-02	4.19567E-02	1.54400E 00	3.46202E 01	
1.50	7.74395E-01	8.82259E-01	-1.88072E-02	2.16165E-02	4.43396E-02	1.64573E 00	3.70334E 01	
1.60	7.78516E-01	9.69293E-01	-2.04333E-02	2.02227E-02	4.66334E-02	1.74619E 00	3.94310E 01	
1.70	7.81980E-01	1.05701E 00	-2.20280E-02	1.89881E-02	4.88429E-02	1.84557E 00	4.18124E 01	
1.80	7.84911E-01	1.14527E 00	-2.35874E-02	1.78867E-02	5.09727E-02	1.94399E 00	4.41774E 01	
1.90	7.87409E-01	1.23396E 00	-2.51086E-02	1.68979E-02	5.30263E-02	2.04159E 00	4.65257E 01	
2.00	7.89551E-01	1.32300E 00	-2.65891E-02	1.60052E-02	5.50070E-02	2.13847E 00	4.88573E 01	
2.10	7.91399E-01	1.41232E 00	-2.80271E-02	1.51951E-02	5.69175E-02	2.23472E 00	5.11720E 01	
2.20	7.93001E-01	1.50187E 00	-2.94209E-02	1.44567E-02	5.87601E-02	2.33042E 00	5.34699E 01	
2.30	7.94396E-01	1.59160E 00	-3.07693E-02	1.37808E-02	6.05369E-02	2.42563E 00	5.57511E 01	
2.40	7.95616E-01	1.68148E 00	-3.20715E-02	1.31598E-02	6.22496E-02	2.52041E 00	5.80154E 01	
2.50	7.96688E-01	1.77148E 00	-3.33265E-02	1.25872E-02	6.38998E-02	2.61481E 00	6.02631E 01	
2.60	7.97632E-01	1.86157E 00	-3.45337E-02	1.20575E-02	6.54887E-02	2.70888E 00	6.24942E 01	
2.70	7.98467E-01	1.95175E 00	-3.56927E-02	1.15662E-02	6.70175E-02	2.80264E 00	6.47089E 01	
2.80	7.99208E-01	2.04199E 00	-3.68030E-02	1.11091E-02	6.84872E-02	2.89613E 00	6.69073E 01	
2.90	7.99866E-01	2.13228E 00	-3.78642E-02	1.06829E-02	6.98986E-02	2.98939E 00	6.90895E 01	
3.00	8.00453E-01	2.22262E 00	-3.88760E-02	1.02844E-02	7.12525E-02	3.08243E 00	7.12557E 01	
3.10	8.00977E-01	2.31299E 00	-3.98382E-02	9.91110E-03	7.25496E-02	3.17527E 00	7.34059E 01	
3.20	8.01447E-01	2.40338E 00	-4.07507E-02	9.56063E-03	7.37904E-02	3.26794E 00	7.55405E 01	
3.30	8.01869E-01	2.49381E 00	-4.16132E-02	9.23097E-03	7.49756E-02	3.36045E 00	7.76595E 01	
3.40	8.02247E-01	2.58425E 00	-4.24256E-02	8.92033E-03	7.61054E-02	3.45282E 00	7.97631E 01	
3.50	8.02588E-01	2.67470E 00	-4.31879E-02	8.62709E-03	7.71805E-02	3.54506E 00	8.18513E 01	
3.60	8.02895E-01	2.76517E 00	-4.38998E-02	8.34985E-03	7.82010E-02	3.63719E 00	8.39246E 01	
3.70	8.03171E-01	2.85565E 00	-4.45614E-02	8.08731E-03	7.91674E-02	3.72921E 00	8.59829E 01	
3.80	8.03421E-01	2.94614E 00	-4.51725E-02	7.83837E-03	8.00799E-02	3.82113E 00	8.80265E 01	
3.90	8.03647E-01	3.03664E 00	-4.57332E-02	7.60198E-03	8.09388E-02	3.91296E 00	9.00555E 01	
4.00	8.03852E-01	3.12714E 00	-4.62433E-02	7.37720E-03	8.17444E-02	4.00471E 00	9.20701E 01	
4.10	8.04037E-01	3.21764E 00	-4.67029E-02	7.16322E-03	8.24969E-02	4.09639E 00	9.40704E 01	
4.20	8.04204E-01	3.30815E 00	-4.71118E-02	6.95928E-03	8.31963E-02	4.18801E 00	9.60567E 01	
4.30	8.04355E-01	3.39867E 00	-4.74702E-02	6.76469E-03	8.38430E-02	4.27956E 00	9.80290E 01	
4.40	8.04492E-01	3.48918E 00	-4.77779E-02	6.57880E-03	8.44371E-02	4.37106E 00	9.99875E 01	
4.50	8.04616E-01	3.57971E 00	-4.80349E-02	6.40107E-03	8.49786E-02	4.46250E 00	1.01932E 02	
4.60	8.04728E-01	3.67023E 00	-4.82412E-02	6.23097E-03	8.54678E-02	4.55390E 00	1.03864E 02	
4.70	8.04830E-01	3.76076E 00	-4.83968E-02	6.06801E-03	8.59048E-02	4.64526E 00	1.05782E 02	
4.80	8.04920E-01	3.85128E 00	-4.85017E-02	5.91176E-03	8.62896E-02	4.73657E 00	1.07687E 02	
4.90	8.05003E-01	3.94181E 00	-4.85558E-02	5.76181E-03	8.66224E-02	4.82786E 00	1.09580E 02	
5.00	8.05077E-01	4.03235E 00	-4.85593E-02	5.61779E-03	8.69032E-02	4.91911E 00	1.11459E 02	
5.10	8.05143E-01	4.12289E 00	-4.85119E-02	5.47937E-03	8.71322E-02	5.01033E 00	1.13326E 02	
5.20	8.05203E-01	4.21343E 00	-4.84139E-02	5.34621E-03	8.73093E-02	5.10153E 00	1.15180E 02	
5.30	8.05256E-01	4.30397E 00	-4.82650E-02	5.21802E-03	8.74347E-02	5.19269E 00	1.17021E 02	
5.40	8.05304E-01	4.39452E 00	-4.80654E-02	5.09454E-03	8.75085E-02	5.28384E 00	1.18851E 02	
5.50	8.05346E-01	4.48507E 00	-4.78150E-02	4.97552E-03	8.75306E-02	5.37497E 00	1.20668E 02	
5.60	8.05383E-01	4.57563E 00	-4.75139E-02	4.86071E-03	8.75012E-02	5.46608E 00	1.22474E 02	
5.70	8.05416E-01	4.66619E 00	-4.71620E-02	4.74990E-03	8.74202E-02	5.55718E 00	1.24268E 02	
5.80	8.05444E-01	4.75675E 00	-4.67592E-02	4.64287E-03	8.72878E-02	5.64826E 00	1.26049E 02	
5.90	8.05469E-01	4.84732E 00	-4.63057E-02	4.53947E-03	8.71039E-02	5.73933E 00	1.27820E 02	
6.00	8.05490E-01	4.93790E 00	-4.58014E-02	4.43948E-03	8.68686E-02	5.83039E 00	1.29579E 02	

## ELECTRON RADIAL FUNCTIONS

$p$	$Z = 10$			$A = 20$			$\rho = 1.2 A^{1/3} F$			Positron		
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$					
0.10	1.44456E-09	5.68008E-07	-7.55422E-09	-1.21794E 00	1.79018E-07	1.07363E-05	3.51031E-01					
0.20	2.29816E-08	8.58414E-06	-1.13950E-07	-2.78465E 00	1.42076E-06	8.53356E-05	1.65815E-01					
0.30	7.84778E-08	3.47662E-05	-4.60081E-07	-4.19433E 00	3.90590E-06	2.35179E-04	1.13503E-01					
0.40	1.69788E-07	8.85254E-05	-1.16658E-06	-5.49586E 00	7.57716E-06	4.57766E-04	8.92567E-02					
0.50	2.96665E-07	1.77460E-04	-2.32626E-06	-6.68966E 00	1.23570E-05	7.49671E-04	7.56854E-02					
0.60	4.58512E-07	3.07350E-04	-4.00398E-06	-7.77463E 00	1.81644E-05	1.10745E-03	6.72859E-02					
0.70	6.54730E-07	4.82372E-04	-6.23972E-06	-8.75306E 00	2.49213E-05	1.52798E-03	6.17540E-02					
0.80	8.84796E-07	7.05391E-04	-9.05318E-06	-9.63042E 00	3.25560E-05	2.00853E-03	5.79547E-02					
0.90	1.14828E-06	9.78287E-04	-1.24487E-05	-1.04143E 01	4.10040E-05	2.54690E-03	5.52660E-02					
1.00	1.44483E-06	1.30223E-03	-1.64196E-05	-1.11133E 01	5.02085E-05	3.14130E-03	5.33204E-02					
1.10	1.77419E-06	1.67790E-03	-2.09513E-05	-1.17364E 01	6.01192E-05	3.79034E-03	5.18887E-02					
1.20	2.13613E-06	2.10566E-03	-2.60245E-05	-1.22921E 01	7.06912E-05	4.49295E-03	5.08217E-02					
1.30	2.53047E-06	2.58565E-03	-3.16161E-05	-1.27884E 01	8.18842E-05	5.24830E-03	5.00191E-02					
1.40	2.95710E-06	3.11790E-03	-3.77014E-05	-1.32327E 01	9.36614E-05	6.05579E-03	4.94113E-02					
1.50	3.41589E-06	3.70234E-03	-4.42541E-05	-1.36312E 01	1.05989E-04	6.91494E-03	4.89494E-02					
1.60	3.90676E-06	4.33888E-03	-5.12474E-05	-1.39896E 01	1.18834E-04	7.82541E-03	4.85980E-02					
1.70	4.42965E-06	5.02741E-03	-5.86541E-05	-1.43130E 01	1.32167E-04	8.78693E-03	4.83312E-02					
1.80	4.98450E-06	5.76779E-03	-6.64470E-05	-1.46055E 01	1.45959E-04	9.79931E-03	4.81299E-02					
1.90	5.57125E-06	6.55990E-03	-7.45985E-05	-1.48710E 01	1.60181E-04	1.08624E-02	4.79795E-02					
2.00	6.18989E-06	7.40362E-03	-8.30816E-05	-1.51125E 01	1.74805E-04	1.19761E-02	4.78691E-02					
2.10	6.84037E-06	8.29885E-03	-9.18689E-05	-1.53329E 01	1.89805E-04	1.31403E-02	4.77903E-02					
2.20	7.52267E-06	9.24548E-03	-1.00933E-04	-1.55346E 01	2.05154E-04	1.43550E-02	4.77365E-02					
2.30	8.23676E-06	1.02434E-02	-1.10248E-04	-1.57197E 01	2.20825E-04	1.56200E-02	4.77025E-02					
2.40	8.98263E-06	1.12926E-02	-1.19787E-04	-1.58899E 01	2.36792E-04	1.69355E-02	4.76844E-02					
2.50	9.76026E-06	1.23929E-02	-1.29522E-04	-1.60469E 01	2.53029E-04	1.83013E-02	4.76790E-02					
2.60	1.05696E-05	1.35443E-02	-1.39428E-04	-1.61921E 01	2.69511E-04	1.97175E-02	4.76837E-02					
2.70	1.14107E-05	1.47468E-02	-1.49478E-04	-1.63266E 01	2.86211E-04	2.11840E-02	4.76965E-02					
2.80	1.22836E-05	1.60002E-02	-1.59646E-04	-1.64515E 01	3.03104E-04	2.27008E-02	4.77158E-02					
2.90	1.31881E-05	1.73045E-02	-1.69904E-04	-1.65678E 01	3.20165E-04	2.42680E-02	4.77402E-02					
3.00	1.41244E-05	1.86597E-02	-1.80228E-04	-1.66762E 01	3.37367E-04	2.58855E-02	4.77687E-02					
3.10	1.50924E-05	2.00658E-02	-1.90592E-04	-1.67774E 01	3.54685E-04	2.75533E-02	4.78004E-02					
3.20	1.60920E-05	2.15226E-02	-2.00968E-04	-1.68722E 01	3.72094E-04	2.92714E-02	4.78345E-02					
3.30	1.71233E-05	2.30303E-02	-2.11331E-04	-1.69611E 01	3.89568E-04	3.10399E-02	4.78705E-02					
3.40	1.81864E-05	2.45887E-02	-2.21655E-04	-1.70446E 01	4.07081E-04	3.28587E-02	4.79080E-02					
3.50	1.92810E-05	2.61978E-02	-2.31915E-04	-1.71231E 01	4.24609E-04	3.47278E-02	4.79465E-02					
3.60	2.04074E-05	2.78576E-02	-2.42084E-04	-1.71971E 01	4.42125E-04	3.66473E-02	4.79856E-02					
3.70	2.15655E-05	2.95682E-02	-2.52136E-04	-1.72670E 01	4.59605E-04	3.86171E-02	4.80253E-02					
3.80	2.27551E-05	3.13293E-02	-2.62046E-04	-1.73329E 01	4.77022E-04	4.06373E-02	4.80651E-02					
3.90	2.39765E-05	3.31411E-02	-2.71788E-04	-1.73954E 01	4.94351E-04	4.27078E-02	4.81050E-02					
4.00	2.52295E-05	3.50036E-02	-2.81336E-04	-1.74545E 01	5.11568E-04	4.48287E-02	4.81447E-02					
4.10	2.65141E-05	3.69167E-02	-2.90664E-04	-1.75107E 01	5.28645E-04	4.69999E-02	4.81843E-02					
4.20	2.78305E-05	3.88804E-02	-2.99748E-04	-1.75640E 01	5.45558E-04	4.92215E-02	4.82235E-02					
4.30	2.91784E-05	4.08947E-02	-3.08560E-04	-1.76146E 01	5.62282E-04	5.14934E-02	4.82623E-02					
4.40	3.05580E-05	4.29596E-02	-3.17075E-04	-1.76629E 01	5.78791E-04	5.38158E-02	4.83007E-02					
4.50	3.19693E-05	4.50750E-02	-3.25268E-04	-1.77089E 01	5.95059E-04	5.61885E-02	4.83385E-02					
4.60	3.34121E-05	4.72410E-02	-3.33113E-04	-1.77527E 01	6.11061E-04	5.86116E-02	4.83758E-02					
4.70	3.48866E-05	4.94576E-02	-3.40585E-04	-1.77946E 01	6.26771E-04	6.10851E-02	4.84125E-02					
4.80	3.63928E-05	5.17247E-02	-3.47657E-04	-1.78346E 01	6.42165E-04	6.36089E-02	4.84486E-02					
4.90	3.79305E-05	5.40424E-02	-3.54304E-04	-1.78729E 01	6.57216E-04	6.61832E-02	4.84841E-02					
5.00	3.95000E-05	5.64106E-02	-3.60501E-04	-1.79095E 01	6.71899E-04	6.88078E-02	4.85189E-02					
5.10	4.11010E-05	5.88294E-02	-3.66221E-04	-1.79447E 01	6.86188E-04	7.14829E-02	4.85531E-02					
5.20	4.27336E-05	6.12986E-02	-3.71439E-04	-1.79783E 01	7.00059E-04	7.42083E-02	4.85867E-02					
5.30	4.43979E-05	6.38185E-02	-3.76131E-04	-1.80107E 01	7.13486E-04	7.69842E-02	4.86197E-02					
5.40	4.60938E-05	6.63888E-02	-3.80269E-04	-1.80417E 01	7.26442E-04	7.98104E-02	4.86519E-02					
5.50	4.78213E-05	6.90096E-02	-3.83828E-04	-1.80716E 01	7.38903E-04	8.26871E-02	4.86836E-02					
5.60	4.95804E-05	7.16810E-02	-3.86784E-04	-1.81003E 01	7.50843E-04	8.56142E-02	4.87146E-02					
5.70	5.13712E-05	7.44029E-02	-3.89109E-04	-1.81279E 01	7.62237E-04	8.85917E-02	4.87450E-02					
5.80	5.31935E-05	7.71752E-02	-3.90779E-04	-1.81545E 01	7.73059E-04	9.16196E-02	4.87749E-02					
5.90	5.50475E-05	7.99981E-02	-3.91769E-04	-1.81802E 01	7.83283E-04	9.46979E-02	4.88041E-02					
6.00	5.69331E-05	8.28714E-02	-3.92052E-04	-1.82049E 01	7.92885E-04	9.78266E-02	4.88327E-02					



## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 10 \quad A = 20 \quad \rho = 1.2 A^{1/3} F$							
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	8.05508E-01	5.02848E 00	-4.52462E-02	4.34277E-03	8.65820E-02	5.92144E 00	1.31328E 02	
6.20	8.05522E-01	5.11906E 00	-4.46403E-02	4.24914E-03	8.62439E-02	6.01248E 00	1.33064E 02	
6.30	8.05534E-01	5.20966E 00	-4.39835E-02	4.15847E-03	8.58546E-02	6.10351E 00	1.34790E 02	
6.40	8.05543E-01	5.30025E 00	-4.32759E-02	4.07064E-03	8.54140E-02	6.19453E 00	1.36505E 02	
6.50	8.05550E-01	5.39086E 00	-4.25175E-02	3.98550E-03	8.49221E-02	6.28556E 00	1.38210E 02	
6.60	8.05554E-01	5.48147E 00	-4.17083E-02	3.90293E-03	8.43790E-02	6.37658E 00	1.39904E 02	
6.70	8.05556E-01	5.57209E 00	-4.08482E-02	3.82282E-03	8.37846E-02	6.46759E 00	1.41587E 02	
6.80	8.05557E-01	5.66272E 00	-3.99372E-02	3.74508E-03	8.31390E-02	6.55860E 00	1.43260E 02	
6.90	8.05555E-01	5.75335E 00	-3.89754E-02	3.66957E-03	8.24422E-02	6.64962E 00	1.44923E 02	
7.00	8.05552E-01	5.84399E 00	-3.79628E-02	3.59623E-03	8.16942E-02	6.74063E 00	1.46576E 02	
7.10	8.05547E-01	5.93464E 00	-3.68993E-02	3.52495E-03	8.08950E-02	6.83164E 00	1.48219E 02	
7.20	8.05541E-01	6.02530E 00	-3.57849E-02	3.45565E-03	8.00446E-02	6.92266E 00	1.49852E 02	
7.30	8.05534E-01	6.11596E 00	-3.46196E-02	3.38826E-03	7.91431E-02	7.01367E 00	1.51476E 02	
7.40	8.05525E-01	6.20664E 00	-3.34035E-02	3.32269E-03	7.81905E-02	7.10469E 00	1.53089E 02	
7.50	8.05514E-01	6.29732E 00	-3.21364E-02	3.25887E-03	7.71866E-02	7.19571E 00	1.54694E 02	
7.60	8.05504E-01	6.38802E 00	-3.08184E-02	3.19675E-03	7.61316E-02	7.28674E 00	1.56288E 02	
7.70	8.05491E-01	6.47872E 00	-2.94495E-02	3.13624E-03	7.50254E-02	7.37777E 00	1.57874E 02	
7.80	8.05478E-01	6.56943E 00	-2.80297E-02	3.07730E-03	7.38682E-02	7.46881E 00	1.59451E 02	
7.90	8.05465E-01	6.66016E 00	-2.65590E-02	3.01986E-03	7.26597E-02	7.55985E 00	1.61019E 02	
8.00	8.05450E-01	6.75089E 00	-2.50373E-02	2.96386E-03	7.14002E-02	7.65090E 00	1.62577E 02	
8.10	8.05435E-01	6.84163E 00	-2.34647E-02	2.90925E-03	7.00895E-02	7.74196E 00	1.64127E 02	
8.20	8.05418E-01	6.93239E 00	-2.18412E-02	2.85600E-03	6.87276E-02	7.83302E 00	1.65669E 02	
8.30	8.05402E-01	7.02316E 00	-2.01666E-02	2.80403E-03	6.73146E-02	7.92409E 00	1.67201E 02	
8.40	8.05384E-01	7.11393E 00	-1.84411E-02	2.75332E-03	6.58505E-02	8.01517E 00	1.68726E 02	
8.50	8.05365E-01	7.20472E 00	-1.66646E-02	2.70380E-03	6.43351E-02	8.10626E 00	1.70241E 02	
8.60	8.05347E-01	7.29552E 00	-1.48371E-02	2.65547E-03	6.27687E-02	8.19736E 00	1.71749E 02	
8.70	8.05328E-01	7.38633E 00	-1.29586E-02	2.60824E-03	6.11511E-02	8.28846E 00	1.73248E 02	
8.80	8.05308E-01	7.47715E 00	-1.10291E-02	2.56211E-03	5.94823E-02	8.37958E 00	1.74740E 02	
8.90	8.05289E-01	7.56799E 00	-9.04855E-03	2.51703E-03	5.77624E-02	8.47071E 00	1.76223E 02	
9.00	8.05268E-01	7.65884E 00	-7.01696E-03	2.47296E-03	5.59913E-02	8.56184E 00	1.77699E 02	
9.10	8.05247E-01	7.74970E 00	-4.93432E-03	2.42989E-03	5.41690E-02	8.65299E 00	1.79166E 02	
9.20	8.05226E-01	7.84057E 00	-2.80062E-03	2.38776E-03	5.22955E-02	8.74415E 00	1.80626E 02	
9.30	8.05205E-01	7.93146E 00	-6.15840E-04	2.34656E-03	5.03708E-02	8.83532E 00	1.82079E 02	
9.40	8.05183E-01	8.02236E 00	1.62002E-03	2.30625E-03	4.83949E-02	8.92650E 00	1.83524E 02	
9.50	8.05161E-01	8.11327E 00	3.90699E-03	2.26681E-03	4.63678E-02	9.01770E 00	1.84962E 02	
9.60	8.05139E-01	8.20419E 00	6.24506E-03	2.22820E-03	4.42895E-02	9.10891E 00	1.86392E 02	
9.70	8.05116E-01	8.29513E 00	8.63424E-03	2.19041E-03	4.21599E-02	9.20013E 00	1.87816E 02	
9.80	8.05093E-01	8.38608E 00	1.10746E-02	2.15340E-03	3.99791E-02	9.29136E 00	1.89231E 02	
9.90	8.05070E-01	8.47705E 00	1.35661E-02	2.11717E-03	3.77471E-02	9.38260E 00	1.90641E 02	
10.00	8.05047E-01	8.56802E 00	1.61087E-02	2.08168E-03	3.54638E-02	9.47386E 00	1.92043E 02	
10.10	8.05024E-01	8.65901E 00	1.87025E-02	2.04692E-03	3.31292E-02	9.56514E 00	1.93438E 02	
10.20	8.05001E-01	8.75002E 00	2.13475E-02	2.01284E-03	3.07433E-02	9.65643E 00	1.94827E 02	
10.30	8.04977E-01	8.84104E 00	2.40437E-02	1.97945E-03	2.83062E-02	9.74773E 00	1.96209E 02	
10.40	8.04954E-01	8.93207E 00	2.67911E-02	1.94672E-03	2.58177E-02	9.83905E 00	1.97584E 02	
10.50	8.04930E-01	9.02311E 00	2.95897E-02	1.91463E-03	2.32779E-02	9.93038E 00	1.98953E 02	
10.60	8.04906E-01	9.11418E 00	3.24395E-02	1.88318E-03	2.06868E-02	1.00217E 01	2.00315E 02	
10.70	8.04882E-01	9.20525E 00	3.53406E-02	1.85232E-03	1.80443E-02	1.01131E 01	2.01672E 02	
10.80	8.04858E-01	9.29632E 00	3.82930E-02	1.82205E-03	1.53505E-02	1.02045E 01	2.03021E 02	
10.90	8.04834E-01	9.38743E 00	4.12966E-02	1.79237E-03	1.26053E-02	1.02959E 01	2.04365E 02	
11.00	8.04810E-01	9.47853E 00	4.43515E-02	1.76324E-03	9.80875E-03	1.03873E 01	2.05702E 02	
11.10	8.04786E-01	9.56963E 00	4.74575E-02	1.73467E-03	6.96078E-03	1.04787E 01	2.07034E 02	
11.20	8.04761E-01	9.66078E 00	5.06151E-02	1.70660E-03	4.06140E-03	1.05701E 01	2.08359E 02	
11.30	8.04738E-01	9.75189E 00	5.38237E-02	1.67909E-03	1.11058E-03	1.06616E 01	2.09680E 02	
11.40	8.04713E-01	9.84302E 00	5.70836E-02	1.65206E-03	-1.89168E-03	1.07531E 01	2.10994E 02	
11.50	8.04689E-01	9.93409E 00	6.03945E-02	1.62552E-03	-4.94539E-03	1.08446E 01	2.12302E 02	
11.60	8.04664E-01	1.00251E 01	6.37560E-02	1.59947E-03	-8.05058E-03	1.09361E 01	2.13605E 02	
11.70	8.04640E-01	1.01160E 01	6.71681E-02	1.57387E-03	-1.12073E-02	1.10276E 01	2.14902E 02	
11.80	8.04616E-01	1.02061E 01	7.06261E-02	1.54874E-03	-1.44154E-02	1.11192E 01	2.16194E 02	
11.90	8.04591E-01	1.02908E 01	7.40955E-02	1.52404E-03	-1.76751E-02	1.12107E 01	2.17480E 02	
12.00	8.04567E-01	1.03963E 01	7.77683E-02	1.49979E-03	-2.09864E-02	1.13023E 01	2.18761E 02	

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z = 10$			$A = 20$			$\rho = 1.2 A^{1/3} F$			Positron
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$				
6.10	5.88503E-05	8.57953E-02	-3.91603E-04	-1.82288E 01	8.01838E-04	1.01006E-01	4.88607E-02				
6.20	6.07991E-05	8.87697E-02	-3.90396E-04	-1.82518E 01	8.10117E-04	1.04235E-01	4.88882E-02				
6.30	6.27795E-05	9.17945E-02	-3.88406E-04	-1.82741E 01	8.17697E-04	1.07515E-01	4.89151E-02				
6.40	6.47915E-05	9.48699E-02	-3.85607E-04	-1.82956E 01	8.24552E-04	1.10846E-01	4.89414E-02				
6.50	6.68351E-05	9.79956E-02	-3.81974E-04	-1.83165E 01	8.30656E-04	1.14227E-01	4.89673E-02				
6.60	6.89102E-05	1.01172E-01	-3.77481E-04	-1.83366E 01	8.35985E-04	1.17658E-01	4.89926E-02				
6.70	7.10171E-05	1.04399E-01	-3.72102E-04	-1.83561E 01	8.40512E-04	1.21140E-01	4.90174E-02				
6.80	7.31555E-05	1.07676E-01	-3.65813E-04	-1.83750E 01	8.44212E-04	1.24672E-01	4.90417E-02				
6.90	7.53255E-05	1.11003E-01	-3.58587E-04	-1.83933E 01	8.47060E-04	1.28254E-01	4.90655E-02				
7.00	7.75271E-05	1.14382E-01	-3.50398E-04	-1.84110E 01	8.49029E-04	1.31887E-01	4.90888E-02				
7.10	7.97603E-05	1.17810E-01	-3.41223E-04	-1.84283E 01	8.50096E-04	1.35571E-01	4.91117E-02				
7.20	8.20251E-05	1.21289E-01	-3.31033E-04	-1.84450E 01	8.50233E-04	1.39305E-01	4.91342E-02				
7.30	8.43215E-05	1.24819E-01	-3.19806E-04	-1.84612E 01	8.49416E-04	1.43089E-01	4.91562E-02				
7.40	8.66494E-05	1.28399E-01	-3.07513E-04	-1.84769E 01	8.47618E-04	1.46924E-01	4.91777E-02				
7.50	8.90090E-05	1.32029E-01	-2.94131E-04	-1.84922E 01	8.44815E-04	1.50809E-01	4.91989E-02				
7.60	9.14001E-05	1.35710E-01	-2.79634E-04	-1.85071E 01	8.40980E-04	1.54745E-01	4.92196E-02				
7.70	9.38228E-05	1.39441E-01	-2.63996E-04	-1.85215E 01	8.36089E-04	1.58731E-01	4.92400E-02				
7.80	9.62771E-05	1.43222E-01	-2.47191E-04	-1.85356E 01	8.30116E-04	1.62767E-01	4.92599E-02				
7.90	9.87630E-05	1.47054E-01	-2.29194E-04	-1.85493E 01	8.23035E-04	1.66854E-01	4.92795E-02				
8.00	1.01281E-04	1.50937E-01	-2.09980E-04	-1.85626E 01	8.14821E-04	1.70992E-01	4.92987E-02				
8.10	1.03830E-04	1.54869E-01	-1.89523E-04	-1.85756E 01	8.05449E-04	1.75180E-01	4.93176E-02				
8.20	1.06410E-04	1.58852E-01	-1.67797E-04	-1.85882E 01	7.94892E-04	1.79418E-01	4.93361E-02				
8.30	1.09022E-04	1.62886E-01	-1.44777E-04	-1.86005E 01	7.83125E-04	1.83707E-01	4.93543E-02				
8.40	1.11666E-04	1.66969E-01	-1.20437E-04	-1.86125E 01	7.70123E-04	1.88046E-01	4.93721E-02				
8.50	1.14342E-04	1.71103E-01	-9.47530E-05	-1.86242E 01	7.55860E-04	1.92436E-01	4.93896E-02				
8.60	1.17049E-04	1.75286E-01	-6.76982E-05	-1.86356E 01	7.40310E-04	1.96876E-01	4.94068E-02				
8.70	1.19787E-04	1.79520E-01	-3.92477E-05	-1.86467E 01	7.23449E-04	2.01366E-01	4.94237E-02				
8.80	1.22557E-04	1.83804E-01	-9.37610E-06	-1.86576E 01	7.05250E-04	2.05907E-01	4.94403E-02				
8.90	1.25359E-04	1.88137E-01	-2.19418E-05	-1.86681E 01	6.85688E-04	2.10499E-01	4.94566E-02				
9.00	1.28192E-04	1.92519E-01	5.47310E-05	-1.86785E 01	6.64738E-04	2.15141E-01	4.94726E-02				
9.10	1.31057E-04	1.96951E-01	8.90165E-05	-1.86886E 01	6.42374E-04	2.19833E-01	4.94883E-02				
9.20	1.33954E-04	2.01430E-01	1.24822E-04	-1.86985E 01	6.18570E-04	2.24576E-01	4.95038E-02				
9.30	1.36881E-04	2.05955E-01	1.62170E-04	-1.87081E 01	5.93300E-04	2.29369E-01	4.95190E-02				
9.40	1.39841E-04	2.10522E-01	2.01081E-04	-1.87175E 01	5.66541E-04	2.34213E-01	4.95339E-02				
9.50	1.42832E-04	2.15124E-01	2.41567E-04	-1.87268E 01	5.38265E-04	2.39107E-01	4.95486E-02				
9.60	1.45855E-04	2.19729E-01	2.83606E-04	-1.87358E 01	5.08447E-04	2.44051E-01	4.95630E-02				
9.70	1.48909E-04	2.24102E-01	3.26856E-04	-1.87446E 01	4.77062E-04	2.49046E-01	4.95772E-02				
9.80	1.51995E-04	2.30489E-01	3.74852E-04	-1.87532E 01	4.44085E-04	2.54092E-01	4.95911E-02				
9.90	1.55112E-04	2.34609E-01	4.20930E-04	-1.87616E 01	4.09489E-04	2.59188E-01	4.96049E-02				
10.00	1.58261E-04	2.39382E-01	4.69677E-04	-1.87699E 01	3.73249E-04	2.64334E-01	4.96184E-02				
10.10	1.61442E-04	2.44281E-01	5.20296E-04	-1.87780E 01	3.35340E-04	2.69531E-01	4.96317E-02				
10.20	1.64654E-04	2.49249E-01	5.72724E-04	-1.87859E 01	2.95735E-04	2.74778E-01	4.96447E-02				
10.30	1.67897E-04	2.54277E-01	6.26972E-04	-1.87937E 01	2.54411E-04	2.80076E-01	4.96576E-02				
10.40	1.71173E-04	2.59361E-01	6.83062E-04	-1.88012E 01	2.11340E-04	2.85424E-01	4.96702E-02				
10.50	1.74479E-04	2.64498E-01	7.41011E-04	-1.88087E 01	1.66498E-04	2.90822E-01	4.96827E-02				
10.60	1.77818E-04	2.69688E-01	8.00844E-04	-1.88160E 01	1.19858E-04	2.96271E-01	4.96949E-02				
10.70	1.81187E-04	2.74929E-01	8.62587E-04	-1.88231E 01	7.13964E-05	3.01771E-01	4.97070E-02				
10.80	1.84589E-04	2.80222E-01	9.26265E-04	-1.88302E 01	2.10863E-05	3.07321E-01	4.97189E-02				
10.90	1.88022E-04	2.85565E-01	9.91900E-04	-1.88370E 01	-3.10974E-05	3.12921E-01	4.97306E-02				
11.00	1.91486E-04	2.90961E-01	1.05952E-03	-1.88438E 01	-8.51803E-05	3.18572E-01	4.97421E-02				
11.10	1.94983E-04	2.96406E-01	1.12916E-03	-1.88504E 01	-1.41188E-04	3.24273E-01	4.97535E-02				
11.20	1.98510E-04	3.01903E-01	1.20082E-03	-1.88569E 01	-1.99146E-04	3.30024E-01	4.97646E-02				
11.30	2.02069E-04	3.07450E-01	1.27455E-03	-1.88632E 01	-2.59080E-04	3.35826E-01	4.97756E-02				
11.40	2.05660E-04	3.13047E-01	1.35037E-03	-1.88695E 01	-3.21015E-04	3.41679E-01	4.97865E-02				
11.50	2.09282E-04	3.18695E-01	1.42829E-03	-1.88756E 01	-3.84977E-04	3.47582E-01	4.97972E-02				
11.60	2.12936E-04	3.24394E-01	1.50836E-03	-1.88816E 01	-4.50991E-04	3.53535E-01	4.98077E-02				
11.70	2.16622E-04	3.30144E-01	1.59059E-03	-1.88876E 01	-5.19084E-04	3.59539E-01	4.98181E-02				
11.80	2.20339E-04	3.35944E-01	1.67500E-03	-1.88934E 01	-5.89280E-04	3.65933E-01	4.98283E-02				
11.90	2.24087E-04	3.41795E-01	1.76163E-03	-1.88991E 01	-6.61605E-04	3.71698E-01	4.98384E-02				
12.00	2.27867E-04	3.47696E-01	1.85050E-03	-1.89047E 01	-7.36084E-04	3.77853E-01	4.98483E-02				



## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 10$		$A = 20$		$\rho = 1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	8.04543E-01	1.04847E 01	8.13674E-02	1.47595E-03	-2.43493E-02	1.13939E 01	2.20037E 02	02
12.20	8.04519E-01	1.05752E 01	8.50333E-02	1.45253E-03	-2.77637E-02	1.14855E 01	2.21308E 02	02
12.30	8.04494E-01	1.06662E 01	8.87545E-02	1.42951E-03	-3.12296E-02	1.15772E 01	2.22574E 02	02
12.40	8.04470E-01	1.07574E 01	9.25280E-02	1.40688E-03	-3.47472E-02	1.16688E 01	2.23834E 02	02
12.50	8.04446E-01	1.08486E 01	9.63539E-02	1.38464E-03	-3.83164E-02	1.17605E 01	2.25090E 02	02
12.60	8.04422E-01	1.09400E 01	1.00232E-01	1.36277E-03	-4.19372E-02	1.18522E 01	2.26340E 02	02
12.70	8.04398E-01	1.10314E 01	1.04161E-01	1.34128E-03	-4.56097E-02	1.19439E 01	2.27586E 02	02
12.80	8.04374E-01	1.11227E 01	1.08142E-01	1.32012E-03	-4.93338E-02	1.20357E 01	2.28827E 02	02
12.90	8.04350E-01	1.12142E 01	1.12175E-01	1.29934E-03	-5.31097E-02	1.21274E 01	2.30064E 02	02
13.00	8.04326E-01	1.13057E 01	1.16260E-01	1.27889E-03	-5.69372E-02	1.22192E 01	2.31295E 02	02
13.10	8.04302E-01	1.13971E 01	1.20396E-01	1.25878E-03	-6.08165E-02	1.23110E 01	2.32523E 02	02
13.20	8.04278E-01	1.14887E 01	1.24584E-01	1.23898E-03	-6.47475E-02	1.24028E 01	2.33745E 02	02
13.30	8.04254E-01	1.15802E 01	1.28824E-01	1.21952E-03	-6.87304E-02	1.24946E 01	2.34963E 02	02
13.40	8.04230E-01	1.16717E 01	1.33116E-01	1.20036E-03	-7.27649E-02	1.25865E 01	2.36177E 02	02
13.50	8.04206E-01	1.17633E 01	1.37459E-01	1.18151E-03	-7.68514E-02	1.26783E 01	2.37387E 02	02
13.60	8.04183E-01	1.18549E 01	1.41854E-01	1.16297E-03	-8.09896E-02	1.27702E 01	2.38592E 02	02
13.70	8.04159E-01	1.19465E 01	1.46301E-01	1.14472E-03	-8.51797E-02	1.28622E 01	2.39794E 02	02
13.80	8.04136E-01	1.20382E 01	1.50800E-01	1.12674E-03	-8.94216E-02	1.29541E 01	2.40990E 02	02
13.90	8.04112E-01	1.21298E 01	1.55350E-01	1.10907E-03	-9.37155E-02	1.30461E 01	2.42184E 02	02
14.00	8.04089E-01	1.22215E 01	1.59953E-01	1.09165E-03	-9.80612E-02	1.31380E 01	2.43372E 02	02
14.10	8.04065E-01	1.23132E 01	1.64607E-01	1.07451E-03	-1.02459E-01	1.32300E 01	2.44557E 02	02
14.20	8.04042E-01	1.24049E 01	1.69313E-01	1.05763E-03	-1.06909E-01	1.33221E 01	2.45739E 02	02
14.30	8.04019E-01	1.24967E 01	1.74072E-01	1.04102E-03	-1.11410E-01	1.34141E 01	2.46916E 02	02
14.40	8.03995E-01	1.25885E 01	1.78882E-01	1.02466E-03	-1.15964E-01	1.35062E 01	2.48090E 02	02
14.50	8.03972E-01	1.26803E 01	1.83744E-01	1.00855E-03	-1.20569E-01	1.35983E 01	2.49260E 02	02
14.60	8.03949E-01	1.27721E 01	1.88658E-01	9.92676E-04	-1.25227E-01	1.36904E 01	2.50426E 02	02
14.70	8.03926E-01	1.28639E 01	1.93624E-01	9.77056E-04	-1.29937E-01	1.37825E 01	2.51590E 02	02
14.80	8.03903E-01	1.29558E 01	1.98642E-01	9.61658E-04	-1.34699E-01	1.38747E 01	2.52749E 02	02
14.90	8.03880E-01	1.30476E 01	2.03712E-01	9.46478E-04	-1.39512E-01	1.39668E 01	2.53904E 02	02
15.00	8.03858E-01	1.31395E 01	2.08834E-01	9.31553E-04	-1.44378E-01	1.40590E 01	2.55057E 02	02
15.10	8.03835E-01	1.32315E 01	2.14008E-01	9.16829E-04	-1.49297E-01	1.41513E 01	2.56206E 02	02
15.20	8.03812E-01	1.33234E 01	2.19235E-01	9.02329E-04	-1.54267E-01	1.42435E 01	2.57351E 02	02
15.30	8.03790E-01	1.34154E 01	2.24513E-01	8.88045E-04	-1.59290E-01	1.43358E 01	2.58494E 02	02
15.40	8.03767E-01	1.35073E 01	2.29844E-01	8.73969E-04	-1.64364E-01	1.44281E 01	2.59634E 02	02
15.50	8.03745E-01	1.35994E 01	2.35227E-01	8.60092E-04	-1.69491E-01	1.45204E 01	2.60770E 02	02
15.60	8.03723E-01	1.36914E 01	2.40662E-01	8.46421E-04	-1.74671E-01	1.46127E 01	2.61903E 02	02
15.70	8.03700E-01	1.37835E 01	2.46149E-01	8.32955E-04	-1.79902E-01	1.47051E 01	2.63034E 02	02
15.80	8.03678E-01	1.38755E 01	2.51689E-01	8.19663E-04	-1.85186E-01	1.47975E 01	2.64160E 02	02
15.90	8.03657E-01	1.39676E 01	2.57281E-01	8.06590E-04	-1.90522E-01	1.48899E 01	2.65285E 02	02
16.00	8.03635E-01	1.40598E 01	2.62925E-01	7.93678E-04	-1.95911E-01	1.49823E 01	2.66406E 02	02
16.10	8.03613E-01	1.41519E 01	2.68622E-01	7.80973E-04	-2.01352E-01	1.50748E 01	2.67525E 02	02
16.20	8.03591E-01	1.42441E 01	2.74370E-01	7.68423E-04	-2.06845E-01	1.51673E 01	2.68640E 02	02
16.30	8.03569E-01	1.43363E 01	2.80172E-01	7.56068E-04	-2.12391E-01	1.52598E 01	2.69754E 02	02
16.40	8.03547E-01	1.44285E 01	2.86025E-01	7.43890E-04	-2.17989E-01	1.53523E 01	2.70865E 02	02
16.50	8.03526E-01	1.45207E 01	2.91931E-01	7.31879E-04	-2.23640E-01	1.54449E 01	2.71973E 02	02
16.60	8.03504E-01	1.46130E 01	2.97890E-01	7.20030E-04	-2.29343E-01	1.55375E 01	2.73078E 02	02
16.70	8.03483E-01	1.47053E 01	3.03901E-01	7.08351E-04	-2.35099E-01	1.56301E 01	2.74180E 02	02
16.80	8.03461E-01	1.47976E 01	3.09964E-01	6.96845E-04	-2.40907E-01	1.57227E 01	2.75281E 02	02
16.90	8.03440E-01	1.48899E 01	3.16080E-01	6.85479E-04	-2.46768E-01	1.58154E 01	2.76379E 02	02
17.00	8.03419E-01	1.49823E 01	3.22249E-01	6.74287E-04	-2.52682E-01	1.59081E 01	2.77475E 02	02
17.10	8.03398E-01	1.50747E 01	3.28470E-01	6.63244E-04	-2.58648E-01	1.60008E 01	2.78568E 02	02
17.20	8.03377E-01	1.51671E 01	3.34744E-01	6.52356E-04	-2.64667E-01	1.60935E 01	2.79659E 02	02
17.30	8.03356E-01	1.52595E 01	3.41070E-01	6.41622E-04	-2.70738E-01	1.61863E 01	2.80748E 02	02
17.40	8.03335E-01	1.53520E 01	3.47449E-01	6.31029E-04	-2.76863E-01	1.62791E 01	2.81835E 02	02
17.50	8.03314E-01	1.54445E 01	3.53881E-01	6.20593E-04	-2.83040E-01	1.63719E 01	2.82920E 02	02
17.60	8.03293E-01	1.55370E 01	3.60366E-01	6.10285E-04	-2.89269E-01	1.64647E 01	2.84003E 02	02
17.70	8.03273E-01	1.56295E 01	3.66903E-01	6.00110E-04	-2.95552E-01	1.65576E 01	2.85082E 02	02
17.80	8.03252E-01	1.57221E 01	3.73493E-01	5.90089E-04	-3.01887E-01	1.66505E 01	2.86161E 02	02
17.90	8.03232E-01	1.58147E 01	3.80136E-01	5.80200E-04	-3.08276E-01	1.67434E 01	2.87238E 02	02
18.00	8.03211E-01	1.59073E 01	3.86831E-01	5.70450E-04	-3.14717E-01	1.68364E 01	2.88313E 02	02

## ELECTRON RADIAL FUNCTIONS

$$Z = 10 \quad A = 20 \quad \rho = 1.2 A^{1/3} F$$

Positron

$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	2.31679E-04	3.53648E-01	1.94164E-03	-1.89102E 01	-8.12747E-04	3.84059E-01	4.98581E-02
12.20	2.35522E-04	3.59649E-01	2.03506E-03	-1.89156E 01	-8.91613E-04	3.90315E-01	4.98677E-02
12.30	2.39397E-04	3.65702E-01	2.13081E-03	-1.89209E 01	-9.72709E-04	3.96621E-01	4.98773E-02
12.40	2.43303E-04	3.71805E-01	2.22889E-03	-1.89261E 01	-1.05606E-03	4.02978E-01	4.98867E-02
12.50	2.47241E-04	3.77959E-01	2.32934E-03	-1.89313E 01	-1.14170E-03	4.09385E-01	4.98959E-02
12.60	2.51210E-04	3.84163E-01	2.43218E-03	-1.89363E 01	-1.22964E-03	4.15843E-01	4.99050E-02
12.70	2.55211E-04	3.90417E-01	2.53744E-03	-1.89413E 01	-1.31992E-03	4.22351E-01	4.99140E-02
12.80	2.59244E-04	3.96722E-01	2.64514E-03	-1.89462E 01	-1.41255E-03	4.28909E-01	4.99229E-02
12.90	2.63308E-04	4.03077E-01	2.75532E-03	-1.89510E 01	-1.50757E-03	4.35518E-01	4.99317E-02
13.00	2.67403E-04	4.09483E-01	2.86799E-03	-1.89557E 01	-1.60500E-03	4.42177E-01	4.99403E-02
13.10	2.71530E-04	4.15939E-01	2.98318E-03	-1.89604E 01	-1.70487E-03	4.48887E-01	4.99489E-02
13.20	2.75689E-04	4.22446E-01	3.10091E-03	-1.89650E 01	-1.80719E-03	4.55647E-01	4.99573E-02
13.30	2.79879E-04	4.29003E-01	3.22122E-03	-1.89695E 01	-1.91200E-03	4.62457E-01	4.99656E-02
13.40	2.84101E-04	4.35611E-01	3.34412E-03	-1.89739E 01	-2.01933E-03	4.69318E-01	4.99738E-02
13.50	2.88354E-04	4.42269E-01	3.46965E-03	-1.89783E 01	-2.12919E-03	4.76230E-01	4.99819E-02
13.60	2.92639E-04	4.48977E-01	3.59782E-03	-1.89826E 01	-2.24161E-03	4.83191E-01	4.99899E-02
13.70	2.96955E-04	4.55736E-01	3.72866E-03	-1.89868E 01	-2.35663E-03	4.90204E-01	4.99978E-02
13.80	3.01303E-04	4.62545E-01	3.86221E-03	-1.89910E 01	-2.47425E-03	4.97266E-01	5.00056E-02
13.90	3.05682E-04	4.69405E-01	3.99848E-03	-1.89951E 01	-2.59452E-03	5.04379E-01	5.00132E-02
14.00	3.10093E-04	4.76315E-01	4.13750E-03	-1.89991E 01	-2.71745E-03	5.11542E-01	5.00208E-02
14.10	3.14535E-04	4.83275E-01	4.27929E-03	-1.90031E 01	-2.84308E-03	5.18756E-01	5.00283E-02
14.20	3.19009E-04	4.90286E-01	4.42389E-03	-1.90070E 01	-2.97141E-03	5.26020E-01	5.00357E-02
14.30	3.23514E-04	4.97347E-01	4.57131E-03	-1.90109E 01	-3.10249E-03	5.33334E-01	5.00430E-02
14.40	3.28052E-04	5.04459E-01	4.72159E-03	-1.90147E 01	-3.23634E-03	5.40699E-01	5.00503E-02
14.50	3.32620E-04	5.11621E-01	4.87474E-03	-1.90185E 01	-3.37298E-03	5.48114E-01	5.00574E-02
14.60	3.37220E-04	5.18833E-01	5.03080E-03	-1.90222E 01	-3.51244E-03	5.55580E-01	5.00644E-02
14.70	3.41852E-04	5.26096E-01	5.18978E-03	-1.90258E 01	-3.65474E-03	5.63096E-01	5.00714E-02
14.80	3.46515E-04	5.33410E-01	5.35172E-03	-1.90294E 01	-3.79991E-03	5.70662E-01	5.00783E-02
14.90	3.51210E-04	5.40773E-01	5.51664E-03	-1.90330E 01	-3.94798E-03	5.78279E-01	5.00851E-02
15.00	3.55936E-04	5.48187E-01	5.68456E-03	-1.90365E 01	-4.09897E-03	5.85946E-01	5.00918E-02
15.10	3.60694E-04	5.55652E-01	5.85551E-03	-1.90399E 01	-4.25290E-03	5.93664E-01	5.00984E-02
15.20	3.65483E-04	5.63166E-01	6.02952E-03	-1.90433E 01	-4.40980E-03	6.01431E-01	5.01050E-02
15.30	3.70304E-04	5.70732E-01	6.20661E-03	-1.90467E 01	-4.56970E-03	6.09250E-01	5.01115E-02
15.40	3.75156E-04	5.78347E-01	6.38681E-03	-1.90500E 01	-4.73262E-03	6.17118E-01	5.01178E-02
15.50	3.80040E-04	5.86013E-01	6.57014E-03	-1.90533E 01	-4.89859E-03	6.25037E-01	5.01242E-02
15.60	3.84955E-04	5.93729E-01	6.75663E-03	-1.90565E 01	-5.06764E-03	6.33006E-01	5.01305E-02
15.70	3.89902E-04	6.01496E-01	6.94630E-03	-1.90597E 01	-5.23978E-03	6.41026E-01	5.01366E-02
15.80	3.94880E-04	6.09313E-01	7.13918E-03	-1.90628E 01	-5.41505E-03	6.49096E-01	5.01427E-02
15.90	3.99890E-04	6.17180E-01	7.33530E-03	-1.90659E 01	-5.59346E-03	6.57216E-01	5.01488E-02
16.00	4.04932E-04	6.25098E-01	7.53468E-03	-1.90689E 01	-5.77506E-03	6.65387E-01	5.01548E-02
16.10	4.10005E-04	6.33066E-01	7.73734E-03	-1.90720E 01	-5.95985E-03	6.73608E-01	5.01607E-02
16.20	4.15109E-04	6.41084E-01	7.94331E-03	-1.90749E 01	-6.14787E-03	6.81879E-01	5.01665E-02
16.30	4.20245E-04	6.49153E-01	8.15262E-03	-1.90779E 01	-6.33914E-03	6.90201E-01	5.01723E-02
16.40	4.25413E-04	6.57272E-01	8.36530E-03	-1.90808E 01	-6.53369E-03	6.98573E-01	5.01780E-02
16.50	4.30612E-04	6.65441E-01	8.58135E-03	-1.90836E 01	-6.73154E-03	7.06995E-01	5.01837E-02
16.60	4.35843E-04	6.73661E-01	8.80083E-03	-1.90865E 01	-6.93272E-03	7.15468E-01	5.01893E-02
16.70	4.41105E-04	6.81931E-01	9.02374E-03	-1.90892E 01	-7.13725E-03	7.23991E-01	5.01948E-02
16.80	4.46399E-04	6.90251E-01	9.25011E-03	-1.90920E 01	-7.34516E-03	7.32564E-01	5.02003E-02
16.90	4.51724E-04	6.98622E-01	9.47998E-03	-1.90947E 01	-7.55648E-03	7.41188E-01	5.02057E-02
17.00	4.57080E-04	7.07043E-01	9.71336E-03	-1.90974E 01	-7.77123E-03	7.49862E-01	5.02111E-02
17.10	4.62469E-04	7.15514E-01	9.95028E-03	-1.91001E 01	-7.98943E-03	7.58586E-01	5.02164E-02
17.20	4.67888E-04	7.24036E-01	1.01908E-02	-1.91027E 01	-8.21111E-03	7.67360E-01	5.02216E-02
17.30	4.73340E-04	7.32608E-01	1.04348E-02	-1.91053E 01	-8.43631E-03	7.76185E-01	5.02268E-02
17.40	4.78822E-04	7.41230E-01	1.06825E-02	-1.91079E 01	-8.66503E-03	7.85060E-01	5.02319E-02
17.50	4.84337E-04	7.49903E-01	1.09339E-02	-1.91104E 01	-8.89731E-03	7.93986E-01	5.02370E-02
17.60	4.89882E-04	7.58625E-01	1.11889E-02	-1.91129E 01	-9.13317E-03	8.02961E-01	5.02421E-02
17.70	4.95460E-04	7.67399E-01	1.14476E-02	-1.91154E 01	-9.37265E-03	8.11987E-01	5.02470E-02
17.80	5.01068E-04	7.76222E-01	1.17100E-02	-1.91178E 01	-9.61575E-03	8.21064E-01	5.02520E-02
17.90	5.06709E-04	7.85096E-01	1.19762E-02	-1.91202E 01	-9.86252E-03	8.30190E-01	5.02568E-02
18.00	5.12381E-04	7.94020E-01	1.22461E-02	-1.91226E 01	-1.01130E-02	8.39367E-01	5.02617E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 10 \quad A = 20 \quad \rho = 1.2 A^{1/3} F$						
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
18.10	8.03190E-01	1.59999E 01	3.93580E-01	5.60826E-04	-3.21211E-01	1.69294E 01	2.89386E 02
18.20	8.03170E-01	1.60926E 01	4.00381E-01	5.51331E-04	-3.27758E-01	1.70224E 01	2.90457E 02
18.30	8.03150E-01	1.61853E 01	4.07235E-01	5.41975E-04	-3.34358E-01	1.71154E 01	2.91527E 02
18.40	8.03130E-01	1.62780E 01	4.14143E-01	5.32725E-04	-3.41011E-01	1.72085E 01	2.92594E 02
18.50	8.03110E-01	1.63707E 01	4.21103E-01	5.23616E-04	-3.47717E-01	1.73015E 01	2.93660E 02
18.60	8.03090E-01	1.64635E 01	4.28116E-01	5.14620E-04	-3.54476E-01	1.73947E 01	2.94725E 02
18.70	8.03070E-01	1.65563E 01	4.35182E-01	5.05753E-04	-3.61288E-01	1.74878E 01	2.95788E 02
18.80	8.03050E-01	1.66491E 01	4.42301E-01	4.96995E-04	-3.68154E-01	1.75810E 01	2.96849E 02
18.90	8.03031E-01	1.67420E 01	4.49473E-01	4.88366E-04	-3.75072E-01	1.76742E 01	2.97909E 02
19.00	8.03011E-01	1.68348E 01	4.56699E-01	4.79847E-04	-3.82044E-01	1.77674E 01	2.98968E 02
19.10	8.02991E-01	1.69277E 01	4.63977E-01	4.71436E-04	-3.89068E-01	1.78606E 01	3.00025E 02
19.20	8.02972E-01	1.70207E 01	4.71309E-01	4.63139E-04	-3.96146E-01	1.79539E 01	3.01081E 02
19.30	8.02952E-01	1.71136E 01	4.78693E-01	4.54960E-04	-4.03278E-01	1.80472E 01	3.02136E 02
19.40	8.02933E-01	1.72066E 01	4.86131E-01	4.46877E-04	-4.10462E-01	1.81406E 01	3.03189E 02
19.50	8.02913E-01	1.72996E 01	4.93623E-01	4.38911E-04	-4.17700E-01	1.82339E 01	3.04241E 02
19.60	8.02894E-01	1.73927E 01	5.01167E-01	4.31056E-04	-4.24991E-01	1.83273E 01	3.05293E 02
19.70	8.02875E-01	1.74857E 01	5.08765E-01	4.23296E-04	-4.32336E-01	1.84208E 01	3.06342E 02
19.80	8.02856E-01	1.75788E 01	5.16416E-01	4.15626E-04	-4.39734E-01	1.85142E 01	3.07390E 02
19.90	8.02837E-01	1.76719E 01	5.24121E-01	4.08078E-04	-4.47185E-01	1.86077E 01	3.08438E 02
20.00	8.02818E-01	1.77651E 01	5.31879E-01	4.00625E-04	-4.54690E-01	1.87012E 01	3.09485E 02
20.10	8.02799E-01	1.78583E 01	5.39690E-01	3.93266E-04	-4.62249E-01	1.87948E 01	3.10530E 02
20.20	8.02781E-01	1.79515E 01	5.47555E-01	3.86015E-04	-4.69861E-01	1.88883E 01	3.11576E 02
20.30	8.02762E-01	1.80447E 01	5.55473E-01	3.78850E-04	-4.77526E-01	1.89819E 01	3.12619E 02
20.40	8.02743E-01	1.81380E 01	5.63445E-01	3.71784E-04	-4.85246E-01	1.90756E 01	3.13663E 02
20.50	8.02724E-01	1.82312E 01	5.71471E-01	3.64814E-04	-4.93018E-01	1.91692E 01	3.14706E 02
20.60	8.02706E-01	1.83246E 01	5.79550E-01	3.57936E-04	-5.00845E-01	1.92629E 01	3.15748E 02
20.70	8.02687E-01	1.84179E 01	5.87683E-01	3.51138E-04	-5.08725E-01	1.93566E 01	3.16788E 02
20.80	8.02669E-01	1.85113E 01	5.95869E-01	3.44433E-04	-5.16659E-01	1.94504E 01	3.17828E 02
20.90	8.02651E-01	1.86047E 01	6.04109E-01	3.37833E-04	-5.24647E-01	1.95442E 01	3.18869E 02
21.00	8.02632E-01	1.86981E 01	6.12403E-01	3.31291E-04	-5.32688E-01	1.96380E 01	3.19906E 02
21.10	8.02614E-01	1.87916E 01	6.20750E-01	3.24857E-04	-5.40783E-01	1.97318E 01	3.20945E 02
21.20	8.02596E-01	1.88851E 01	6.29151E-01	3.18520E-04	-5.48932E-01	1.98257E 01	3.21985E 02
21.30	8.02578E-01	1.89786E 01	6.37606E-01	3.12237E-04	-5.57136E-01	1.99196E 01	3.23021E 02
21.40	8.02560E-01	1.90721E 01	6.46115E-01	3.06060E-04	-5.65392E-01	2.00136E 01	3.24059E 02
21.50	8.02542E-01	1.91657E 01	6.54678E-01	2.99956E-04	-5.73703E-01	2.01075E 01	3.25096E 02
21.60	8.02524E-01	1.92593E 01	6.63295E-01	2.93929E-04	-5.82068E-01	2.02015E 01	3.26132E 02
21.70	8.02506E-01	1.93530E 01	6.71966E-01	2.87987E-04	-5.90487E-01	2.02956E 01	3.27168E 02
21.80	8.02488E-01	1.94466E 01	6.80690E-01	2.82124E-04	-5.98960E-01	2.03896E 01	3.28204E 02
21.90	8.02470E-01	1.95403E 01	6.89469E-01	2.76343E-04	-6.07487E-01	2.04837E 01	3.29240E 02
22.00	8.02453E-01	1.96341E 01	6.98301E-01	2.70628E-04	-6.16069E-01	2.05779E 01	3.30275E 02
22.10	8.02435E-01	1.97278E 01	7.07188E-01	2.64991E-04	-6.24704E-01	2.06720E 01	3.31309E 02
22.20	8.02418E-01	1.98216E 01	7.16129E-01	2.59449E-04	-6.33394E-01	2.07662E 01	3.32346E 02
22.30	8.02401E-01	1.99155E 01	7.25124E-01	2.53974E-04	-6.42138E-01	2.08604E 01	3.33382E 02
22.40	8.02383E-01	2.00093E 01	7.34173E-01	2.48561E-04	-6.50936E-01	2.09547E 01	3.34417E 02
22.50	8.02366E-01	2.01032E 01	7.43277E-01	2.43218E-04	-6.59789E-01	2.10490E 01	3.35451E 02
22.60	8.02349E-01	2.01971E 01	7.52435E-01	2.37954E-04	-6.68695E-01	2.11433E 01	3.36487E 02
22.70	8.02331E-01	2.02911E 01	7.61647E-01	2.32762E-04	-6.77657E-01	2.12377E 01	3.37522E 02
22.80	8.02314E-01	2.03850E 01	7.70913E-01	2.27639E-04	-6.86672E-01	2.13320E 01	3.38558E 02
22.90	8.02297E-01	2.04790E 01	7.80234E-01	2.22585E-04	-6.95742E-01	2.14265E 01	3.39593E 02
23.00	8.02280E-01	2.05731E 01	7.89609E-01	2.17601E-04	-7.04867E-01	2.15209E 01	3.40629E 02
23.10	8.02263E-01	2.06672E 01	7.99039E-01	2.12691E-04	-7.14046E-01	2.16154E 01	3.41666E 02
23.20	8.02246E-01	2.07613E 01	8.08523E-01	2.07845E-04	-7.23280E-01	2.17099E 01	3.42703E 02
23.30	8.02230E-01	2.08554E 01	8.18061E-01	2.03069E-04	-7.32568E-01	2.18045E 01	3.43740E 02
23.40	8.02213E-01	2.09496E 01	8.27654E-01	1.98355E-04	-7.41911E-01	2.18991E 01	3.44778E 02
23.50	8.02196E-01	2.10438E 01	8.37302E-01	1.93692E-04	-7.51309E-01	2.19937E 01	3.45814E 02
23.60	8.02179E-01	2.11380E 01	8.47005E-01	1.89118E-04	-7.60761E-01	2.20884E 01	3.46854E 02
23.70	8.02163E-01	2.12323E 01	8.56761E-01	1.84586E-04	-7.70268E-01	2.21830E 01	3.47892E 02
23.80	8.02146E-01	2.13266E 01	8.66573E-01	1.80121E-04	-7.79830E-01	2.22778E 01	3.48931E 02
23.90	8.02130E-01	2.14209E 01	8.76439E-01	1.75718E-04	-7.89447E-01	2.23725E 01	3.49970E 02
24.00	8.02113E-01	2.15153E 01	8.86360E-01	1.71377E-04	-7.99119E-01	2.24673E 01	3.51010E 02

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z = 10$			$A = 20$			$\rho = 1.2 A^{1/3} F$			Positron
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$				
18.10	5.18085E-04	8.02995E-01	1.25198E-02	-1.91250E 01	-1.03671E-02	8.48595E-01	5.02665E-02				
18.20	5.23819E-04	8.12020E-01	1.27974E-02	-1.91273E 01	-1.06250E-02	8.57872E-01	5.02712E-02				
18.30	5.29586E-04	8.21094E-01	1.30788E-02	-1.91296E 01	-1.08867E-02	8.67200E-01	5.02759E-02				
18.40	5.35384E-04	8.30219E-01	1.33640E-02	-1.91319E 01	-1.11522E-02	8.76578E-01	5.02805E-02				
18.50	5.41213E-04	8.39395E-01	1.36532E-02	-1.91341E 01	-1.14214E-02	8.86006E-01	5.02851E-02				
18.60	5.47074E-04	8.48621E-01	1.39463E-02	-1.91364E 01	-1.16945E-02	8.95485E-01	5.02896E-02				
18.70	5.52966E-04	8.57897E-01	1.42433E-02	-1.91386E 01	-1.19715E-02	9.05013E-01	5.02941E-02				
18.80	5.58890E-04	8.67223E-01	1.45443E-02	-1.91407E 01	-1.22523E-02	9.14592E-01	5.02986E-02				
18.90	5.64846E-04	8.76599E-01	1.48493E-02	-1.91429E 01	-1.25371E-02	9.24221E-01	5.03030E-02				
19.00	5.70833E-04	8.86026E-01	1.51583E-02	-1.91450E 01	-1.28258E-02	9.33901E-01	5.03074E-02				
19.10	5.76851E-04	8.95503E-01	1.54714E-02	-1.91471E 01	-1.31184E-02	9.43630E-01	5.03117E-02				
19.20	5.82901E-04	9.05030E-01	1.57886E-02	-1.91492E 01	-1.34151E-02	9.53410E-01	5.03160E-02				
19.30	5.88983E-04	9.14607E-01	1.61098E-02	-1.91513E 01	-1.37158E-02	9.63240E-01	5.03203E-02				
19.40	5.95096E-04	9.24235E-01	1.64352E-02	-1.91533E 01	-1.40205E-02	9.73121E-01	5.03245E-02				
19.50	6.01240E-04	9.33913E-01	1.67647E-02	-1.91553E 01	-1.43293E-02	9.83051E-01	5.03286E-02				
19.60	6.07416E-04	9.43641E-01	1.70985E-02	-1.91573E 01	-1.46422E-02	9.93032E-01	5.03328E-02				
19.70	6.13624E-04	9.53419E-01	1.74364E-02	-1.91593E 01	-1.49591E-02	1.00306E 00	5.03369E-02				
19.80	6.19863E-04	9.63248E-01	1.77785E-02	-1.91613E 01	-1.52803E-02	1.01314E 00	5.03409E-02				
19.90	6.26134E-04	9.73127E-01	1.81249E-02	-1.91632E 01	-1.56056E-02	1.02328E 00	5.03449E-02				
20.00	6.32436E-04	9.83056E-01	1.84756E-02	-1.91651E 01	-1.59351E-02	1.03346E 00	5.03489E-02				
20.10	6.38769E-04	9.93035E-01	1.88305E-02	-1.91670E 01	-1.62688E-02	1.04369E 00	5.03529E-02				
20.20	6.45134E-04	1.00306E 00	1.91898E-02	-1.91689E 01	-1.66068E-02	1.05397E 00	5.03568E-02				
20.30	6.51531E-04	1.01314E 00	1.95535E-02	-1.91707E 01	-1.69490E-02	1.06430E 00	5.03606E-02				
20.40	6.57959E-04	1.02327E 00	1.99215E-02	-1.91726E 01	-1.72955E-02	1.07469E 00	5.03645E-02				
20.50	6.64418E-04	1.03345E 00	2.02940E-02	-1.91744E 01	-1.76464E-02	1.08512E 00	5.03683E-02				
20.60	6.70909E-04	1.04368E 00	2.06708E-02	-1.91762E 01	-1.80016E-02	1.09560E 00	5.03720E-02				
20.70	6.77432E-04	1.05396E 00	2.10522E-02	-1.91780E 01	-1.83611E-02	1.10613E 00	5.03758E-02				
20.80	6.83986E-04	1.06429E 00	2.14380E-02	-1.91797E 01	-1.87251E-02	1.11672E 00	5.03795E-02				
20.90	6.90571E-04	1.07467E 00	2.18283E-02	-1.91815E 01	-1.90935E-02	1.12735E 00	5.03831E-02				
21.00	6.97188E-04	1.08510E 00	2.22232E-02	-1.91832E 01	-1.94663E-02	1.13803E 00	5.03868E-02				
21.10	7.03837E-04	1.09559E 00	2.26226E-02	-1.91849E 01	-1.98436E-02	1.14877E 00	5.03904E-02				
21.20	7.10517E-04	1.10612E 00	2.30266E-02	-1.91866E 01	-2.02254E-02	1.15955E 00	5.03939E-02				
21.30	7.17228E-04	1.11670E 00	2.34352E-02	-1.91883E 01	-2.06118E-02	1.17038E 00	5.03975E-02				
21.40	7.23972E-04	1.12733E 00	2.38484E-02	-1.91900E 01	-2.10027E-02	1.18127E 00	5.04010E-02				
21.50	7.30746E-04	1.13801E 00	2.42663E-02	-1.91916E 01	-2.13981E-02	1.19220E 00	5.04045E-02				
21.60	7.37552E-04	1.14874E 00	2.46889E-02	-1.91932E 01	-2.17982E-02	1.20319E 00	5.04079E-02				
21.70	7.44390E-04	1.15952E 00	2.51162E-02	-1.91949E 01	-2.22029E-02	1.21422E 00	5.04113E-02				
21.80	7.51259E-04	1.17036E 00	2.55482E-02	-1.91965E 01	-2.26122E-02	1.22530E 00	5.04147E-02				
21.90	7.58160E-04	1.18124E 00	2.59850E-02	-1.91980E 01	-2.30262E-02	1.23644E 00	5.04181E-02				
22.00	7.65092E-04	1.19217E 00	2.64266E-02	-1.91996E 01	-2.34449E-02	1.24762E 00	5.04214E-02				
22.10	7.72055E-04	1.20315E 00	2.68730E-02	-1.92012E 01	-2.38684E-02	1.25886E 00	5.04247E-02				
22.20	7.79050E-04	1.21418E 00	2.73242E-02	-1.92027E 01	-2.42966E-02	1.27014E 00	5.04280E-02				
22.30	7.86077E-04	1.22527E 00	2.77803E-02	-1.92042E 01	-2.47296E-02	1.28148E 00	5.04313E-02				
22.40	7.93135E-04	1.23640E 00	2.82413E-02	-1.92057E 01	-2.51673E-02	1.29286E 00	5.04345E-02				
22.50	8.00224E-04	1.24758E 00	2.87072E-02	-1.92072E 01	-2.56099E-02	1.30430E 00	5.04377E-02				
22.60	8.07345E-04	1.25881E 00	2.91780E-02	-1.92087E 01	-2.60574E-02	1.31578E 00	5.04409E-02				
22.70	8.14498E-04	1.27010E 00	2.96538E-02	-1.92102E 01	-2.65097E-02	1.32732E 00	5.04440E-02				
22.80	8.21682E-04	1.28143E 00	3.01346E-02	-1.92117E 01	-2.69670E-02	1.33890E 00	5.04471E-02				
22.90	8.28897E-04	1.29281E 00	3.06204E-02	-1.92131E 01	-2.74292E-02	1.35054E 00	5.04502E-02				
23.00	8.36145E-04	1.30425E 00	3.11112E-02	-1.92145E 01	-2.78963E-02	1.36222E 00	5.04533E-02				
23.10	8.43423E-04	1.31573E 00	3.16071E-02	-1.92160E 01	-2.83684E-02	1.37396E 00	5.04563E-02				
23.20	8.50733E-04	1.32726E 00	3.21081E-02	-1.92174E 01	-2.88455E-02	1.38574E 00	5.04594E-02				
23.30	8.58074E-04	1.33884E 00	3.26143E-02	-1.92188E 01	-2.93277E-02	1.39758E 00	5.04624E-02				
23.40	8.65447E-04	1.35048E 00	3.31255E-02	-1.92201E 01	-2.98149E-02	1.40946E 00	5.04653E-02				
23.50	8.72852E-04	1.36216E 00	3.36419E-02	-1.92215E 01	-3.03072E-02	1.42140E 00	5.04683E-02				
23.60	8.80288E-04	1.37389E 00	3.41635E-02	-1.92229E 01	-3.08046E-02	1.43339E 00	5.04712E-02				
23.70	8.87755E-04	1.38568E 00	3.46904E-02	-1.92242E 01	-3.13071E-02	1.44542E 00	5.04741E-02				
23.80	8.95254E-04	1.39751E 00	3.52224E-02	-1.92255E 01	-3.18148E-02	1.45751E 00	5.04770E-02				
23.90	9.02785E-04	1.40939E 00	3.57598E-02	-1.92269E 01	-3.23277E-02	1.46964E 00	5.04798E-02				
24.00	9.10347E-04	1.42133E 00	3.63024E-02	-1.92282E 01	-3.28458E-02	1.48183E 00	5.04827E-02				



## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 10$		$A = 20$		$\rho = 1.2 A^{1/3} F$			
	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
24.10	8.02097E-01	2.16097E 01	8.96337E-01	1.67109E-04	-8.08846E-01	2.25622E 01	3.52052E 02	
24.20	8.02081E-01	2.17041E 01	9.06368E-01	1.62891E-04	-8.18627E-01	2.26570E 01	3.53094E 02	
24.30	8.02064E-01	2.17986E 01	9.16454E-01	1.58725E-04	-8.28464E-01	2.27519E 01	3.54135E 02	
24.40	8.02048E-01	2.18931E 01	9.26594E-01	1.54631E-04	-8.38355E-01	2.28469E 01	3.55179E 02	
24.50	8.02032E-01	2.19876E 01	9.36790E-01	1.50588E-04	-8.48302E-01	2.29418E 01	3.56223E 02	
24.60	8.02016E-01	2.20822E 01	9.47041E-01	1.46609E-04	-8.58303E-01	2.30368E 01	3.57268E 02	
24.70	8.02000E-01	2.21768E 01	9.57346E-01	1.42679E-04	-8.68360E-01	2.31319E 01	3.58313E 02	
24.80	8.01984E-01	2.22714E 01	9.67707E-01	1.38815E-04	-8.78472E-01	2.32269E 01	3.59360E 02	
24.90	8.01968E-01	2.23661E 01	9.78123E-01	1.35005E-04	-8.88639E-01	2.33220E 01	3.60409E 02	
25.00	8.01952E-01	2.24608E 01	9.88594E-01	1.31250E-04	-8.98862E-01	2.34172E 01	3.61457E 02	
25.10	8.01936E-01	2.25555E 01	9.99120E-01	1.27545E-04	-9.09139E-01	2.35124E 01	3.62507E 02	
25.20	8.01921E-01	2.26503E 01	1.00970E 00	1.23398E-04	-9.19472E-01	2.36076E 01	3.63558E 02	
25.30	8.01905E-01	2.27451E 01	1.02034E 00	1.20297E-04	-9.29861E-01	2.37028E 01	3.64609E 02	
25.40	8.01889E-01	2.28399E 01	1.03103E 00	1.16745E-04	-9.40305E-01	2.37981E 01	3.65661E 02	
25.50	8.01874E-01	2.29348E 01	1.04178E 00	1.13265E-04	-9.50804E-01	2.38935E 01	3.66716E 02	
25.60	8.01858E-01	2.30297E 01	1.05258E 00	1.09832E-04	-9.61359E-01	2.39888E 01	3.67772E 02	
25.70	8.01843E-01	2.31247E 01	1.06344E 00	1.06443E-04	-9.71970E-01	2.40842E 01	3.68829E 02	
25.80	8.01827E-01	2.32196E 01	1.07435E 00	1.03110E-04	-9.82636E-01	2.41797E 01	3.69887E 02	
25.90	8.01812E-01	2.33146E 01	1.08532E 00	9.98228E-05	-9.93357E-01	2.42751E 01	3.70946E 02	
26.00	8.01797E-01	2.34097E 01	1.09635E 00	9.65848E-05	-1.00413E 00	2.43706E 01	3.72006E 02	
26.10	8.01781E-01	2.35048E 01	1.10743E 00	9.34120E-05	-1.01497E 00	2.44662E 01	3.73070E 02	
26.20	8.01766E-01	2.35999E 01	1.11856E 00	9.02734E-05	-1.02586E 00	2.45618E 01	3.74133E 02	
26.30	8.01751E-01	2.36951E 01	1.12975E 00	8.71779E-05	-1.03680E 00	2.46574E 01	3.75198E 02	
26.40	8.01736E-01	2.37902E 01	1.14100E 00	8.41461E-05	-1.04780E 00	2.47531E 01	3.76265E 02	
26.50	8.01721E-01	2.38855E 01	1.15231E 00	8.11599E-05	-1.05886E 00	2.48488E 01	3.77334E 02	
26.60	8.01706E-01	2.39807E 01	1.16366E 00	7.82173E-05	-1.06997E 00	2.49445E 01	3.78404E 02	
26.70	8.01691E-01	2.40760E 01	1.17508E 00	7.53217E-05	-1.08114E 00	2.50403E 01	3.79476E 02	
26.80	8.01676E-01	2.41714E 01	1.18655E 00	7.24785E-05	-1.09236E 00	2.51361E 01	3.80550E 02	
26.90	8.01661E-01	2.42668E 01	1.19808E 00	6.96752E-05	-1.10364E 00	2.52319E 01	3.81626E 02	
27.00	8.01646E-01	2.43622E 01	1.20966E 00	6.69192E-05	-1.11498E 00	2.53278E 01	3.82703E 02	
27.10	8.01631E-01	2.44576E 01	1.22130E 00	6.41910E-05	-1.12637E 00	2.54237E 01	3.83780E 02	
27.20	8.01616E-01	2.45531E 01	1.23299E 00	6.15306E-05	-1.13782E 00	2.55197E 01	3.84862E 02	
27.30	8.01602E-01	2.46486E 01	1.24474E 00	5.89094E-05	-1.14933E 00	2.56157E 01	3.85945E 02	
27.40	8.01587E-01	2.47442E 01	1.25655E 00	5.63337E-05	-1.16089E 00	2.57118E 01	3.87030E 02	
27.50	8.01572E-01	2.48398E 01	1.26841E 00	5.37985E-05	-1.17250E 00	2.58078E 01	3.88116E 02	
27.60	8.01558E-01	2.49354E 01	1.28033E 00	5.12940E-05	-1.18418E 00	2.59040E 01	3.89203E 02	
27.70	8.01543E-01	2.50311E 01	1.29231E 00	4.88500E-05	-1.19591E 00	2.60001E 01	3.90295E 02	
27.80	8.01529E-01	2.51268E 01	1.30434E 00	4.64421E-05	-1.20770E 00	2.60963E 01	3.91388E 02	
27.90	8.01514E-01	2.52225E 01	1.31643E 00	4.40872E-05	-1.21954E 00	2.61926E 01	3.92484E 02	
28.00	8.01500E-01	2.53183E 01	1.32858E 00	4.17623E-05	-1.23144E 00	2.62888E 01	3.93581E 02	
28.10	8.01486E-01	2.54141E 01	1.34078E 00	3.94705E-05	-1.24340E 00	2.63852E 01	3.94679E 02	
28.20	8.01471E-01	2.55100E 01	1.35303E 00	3.72413E-05	-1.25541E 00	2.64815E 01	3.95782E 02	
28.30	8.01457E-01	2.56059E 01	1.36535E 00	3.50470E-05	-1.26748E 00	2.65779E 01	3.96888E 02	
28.40	8.01443E-01	2.57018E 01	1.37772E 00	3.28870E-05	-1.27961E 00	2.66744E 01	3.97994E 02	
28.50	8.01429E-01	2.57978E 01	1.39015E 00	3.07641E-05	-1.29179E 00	2.67708E 01	3.99102E 02	
28.60	8.01415E-01	2.58938E 01	1.40263E 00	2.86906E-05	-1.30403E 00	2.68674E 01	4.00214E 02	
28.70	8.01400E-01	2.59899E 01	1.41517E 00	2.66469E-05	-1.31633E 00	2.69639E 01	4.01328E 02	
28.80	8.01387E-01	2.60860E 01	1.42777E 00	2.46491E-05	-1.32868E 00	2.70605E 01	4.02445E 02	
28.90	8.01373E-01	2.61821E 01	1.44043E 00	2.26868E-05	-1.34109E 00	2.71572E 01	4.03564E 02	
29.00	8.01359E-01	2.62783E 01	1.45314E 00	2.07697E-05	-1.35356E 00	2.72539E 01	4.04687E 02	
29.10	8.01345E-01	2.63745E 01	1.46591E 00	1.88777E-05	-1.36608E 00	2.73506E 01	4.05810E 02	
29.20	8.01331E-01	2.64707E 01	1.47873E 00	1.70379E-05	-1.37867E 00	2.74473E 01	4.06939E 02	
29.30	8.01317E-01	2.65670E 01	1.49162E 00	1.52319E-05	-1.39131E 00	2.75442E 01	4.08069E 02	
29.40	8.01303E-01	2.66633E 01	1.50455E 00	1.34578E-05	-1.40400E 00	2.76410E 01	4.09202E 02	
29.50	8.01289E-01	2.67597E 01	1.51755E 00	1.17157E-05	-1.41676E 00	2.77379E 01	4.10336E 02	
29.60	8.01276E-01	2.68561E 01	1.53061E 00	1.00198E-05	-1.42957E 00	2.78348E 01	4.11475E 02	
29.70	8.01262E-01	2.69526E 01	1.54372E 00	8.35215E-06	-1.44244E 00	2.79318E 01	4.12616E 02	
29.80	8.01249E-01	2.70491E 01	1.55689E 00	6.73313E-06	-1.45536E 00	2.80288E 01	4.13762E 02	
29.90	8.01235E-01	2.71456E 01	1.57011E 00	5.14223E-06	-1.46835E 00	2.81259E 01	4.14909E 02	
30.00	8.01221E-01	2.72422E 01	1.58340E 00	3.59811E-06	-1.48139E 00	2.82230E 01	4.16061E 02	

## ELECTRON RADIAL FUNCTIONS

	$Z = 10$	$A = 20$	$\rho = 1.2 A^{1/3} F$			Positron		
$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
24.10	9.17940E-04	1.43331E 00	3.68504E-02	-1.92295E 01	-3.33692E-02	1.49406E 00	5.04855E-02	
24.20	9.25565E-04	1.44534E 00	3.74037E-02	-1.92308E 01	-3.38977E-02	1.50635E 00	5.04883E-02	
24.30	9.33222E-04	1.45743E 00	3.79624E-02	-1.92320E 01	-3.44316E-02	1.51868E 00	5.04910E-02	
24.40	9.40909E-04	1.46956E 00	3.85264E-02	-1.92333E 01	-3.49708E-02	1.53107E 00	5.04938E-02	
24.50	9.48629E-04	1.48174E 00	3.90959E-02	-1.92345E 01	-3.55153E-02	1.54350E 00	5.04965E-02	
24.60	9.56380E-04	1.49397E 00	3.96708E-02	-1.92358E 01	-3.60652E-02	1.55599E 00	5.04992E-02	
24.70	9.64163E-04	1.50626E 00	4.02512E-02	-1.92370E 01	-3.66204E-02	1.56853E 00	5.05019E-02	
24.80	9.71976E-04	1.51859E 00	4.08371E-02	-1.92383E 01	-3.71811E-02	1.58111E 00	5.05046E-02	
24.90	9.79822E-04	1.53097E 00	4.14286E-02	-1.92395E 01	-3.77472E-02	1.59375E 00	5.05072E-02	
25.00	9.87698E-04	1.54341E 00	4.20255E-02	-1.92407E 01	-3.83188E-02	1.60643E 00	5.05098E-02	
25.10	9.95607E-04	1.55589E 00	4.26280E-02	-1.92419E 01	-3.88959E-02	1.61917E 00	5.05124E-02	
25.20	1.00355E-03	1.56842E 00	4.32362E-02	-1.92430E 01	-3.94784E-02	1.63195E 00	5.05150E-02	
25.30	1.01152E-03	1.58100E 00	4.38499E-02	-1.92442E 01	-4.00665E-02	1.64478E 00	5.05176E-02	
25.40	1.01952E-03	1.59364E 00	4.44693E-02	-1.92454E 01	-4.06602E-02	1.65767E 00	5.05202E-02	
25.50	1.02755E-03	1.60632E 00	4.50944E-02	-1.92465E 01	-4.12595E-02	1.67060E 00	5.05227E-02	
25.60	1.03562E-03	1.61905E 00	4.57252E-02	-1.92477E 01	-4.18644E-02	1.68359E 00	5.05252E-02	
25.70	1.04372E-03	1.63183E 00	4.63617E-02	-1.92488E 01	-4.24749E-02	1.69662E 00	5.05277E-02	
25.80	1.05185E-03	1.64466E 00	4.70039E-02	-1.92499E 01	-4.30911E-02	1.70971E 00	5.05302E-02	
25.90	1.06001E-03	1.65755E 00	4.76519E-02	-1.92511E 01	-4.37129E-02	1.72284E 00	5.05326E-02	
26.00	1.06820E-03	1.67048E 00	4.83057E-02	-1.92522E 01	-4.43405E-02	1.73602E 00	5.05351E-02	
26.10	1.07642E-03	1.68346E 00	4.89654E-02	-1.92533E 01	-4.49738E-02	1.74926E 00	5.05375E-02	
26.20	1.08467E-03	1.69649E 00	4.96309E-02	-1.92544E 01	-4.56129E-02	1.76254E 00	5.05399E-02	
26.30	1.09296E-03	1.70957E 00	5.03023E-02	-1.92555E 01	-4.62578E-02	1.77587E 00	5.05423E-02	
26.40	1.10128E-03	1.72270E 00	5.09795E-02	-1.92565E 01	-4.69085E-02	1.78926E 00	5.05447E-02	
26.50	1.10963E-03	1.73588E 00	5.16627E-02	-1.92576E 01	-4.75651E-02	1.80269E 00	5.05470E-02	
26.60	1.11801E-03	1.74911E 00	5.23519E-02	-1.92587E 01	-4.82275E-02	1.81617E 00	5.05493E-02	
26.70	1.12642E-03	1.76240E 00	5.30470E-02	-1.92597E 01	-4.88958E-02	1.82971E 00	5.05517E-02	
26.80	1.13486E-03	1.77573E 00	5.37481E-02	-1.92607E 01	-4.95700E-02	1.84329E 00	5.05540E-02	
26.90	1.14334E-03	1.78911E 00	5.44553E-02	-1.92618E 01	-5.02502E-02	1.85692E 00	5.05563E-02	
27.00	1.15184E-03	1.80254E 00	5.51685E-02	-1.92628E 01	-5.09363E-02	1.87060E 00	5.05585E-02	
27.10	1.16038E-03	1.81602E 00	5.58877E-02	-1.92638E 01	-5.16284E-02	1.88434E 00	5.05608E-02	
27.20	1.16895E-03	1.82955E 00	5.66131E-02	-1.92648E 01	-5.23265E-02	1.89812E 00	5.05630E-02	
27.30	1.17755E-03	1.84313E 00	5.73446E-02	-1.92658E 01	-5.30307E-02	1.91195E 00	5.05653E-02	
27.40	1.18619E-03	1.85676E 00	5.80823E-02	-1.92668E 01	-5.37410E-02	1.92583E 00	5.05675E-02	
27.50	1.19485E-03	1.87043E 00	5.88261E-02	-1.92678E 01	-5.44573E-02	1.93976E 00	5.05697E-02	
27.60	1.20354E-03	1.88416E 00	5.95762E-02	-1.92688E 01	-5.51798E-02	1.95374E 00	5.05718E-02	
27.70	1.21227E-03	1.89794E 00	6.03325E-02	-1.92698E 01	-5.59084E-02	1.96777E 00	5.05740E-02	
27.80	1.22103E-03	1.91177E 00	6.10950E-02	-1.92707E 01	-5.66432E-02	1.98185E 00	5.05761E-02	
27.90	1.22982E-03	1.92565E 00	6.18638E-02	-1.92717E 01	-5.73842E-02	1.99598E 00	5.05783E-02	
28.00	1.23864E-03	1.93958E 00	6.26389E-02	-1.92726E 01	-5.81314E-02	2.01016E 00	5.05804E-02	
28.10	1.24749E-03	1.95355E 00	6.34203E-02	-1.92736E 01	-5.88848E-02	2.02439E 00	5.05825E-02	
28.20	1.25638E-03	1.96758E 00	6.42081E-02	-1.92745E 01	-5.96445E-02	2.03867E 00	5.05846E-02	
28.30	1.26529E-03	1.98166E 00	6.50023E-02	-1.92755E 01	-6.04105E-02	2.05300E 00	5.05867E-02	
28.40	1.27424E-03	1.99578E 00	6.58028E-02	-1.92764E 01	-6.11828E-02	2.06738E 00	5.05888E-02	
28.50	1.28322E-03	2.00996E 00	6.66098E-02	-1.92773E 01	-6.19615E-02	2.08181E 00	5.05908E-02	
28.60	1.29223E-03	2.02419E 00	6.74233E-02	-1.92782E 01	-6.27466E-02	2.09629E 00	5.05929E-02	
28.70	1.30127E-03	2.03846E 00	6.82432E-02	-1.92791E 01	-6.35380E-02	2.11081E 00	5.05949E-02	
28.80	1.31034E-03	2.05279E 00	6.90697E-02	-1.92800E 01	-6.43359E-02	2.12539E 00	5.05969E-02	
28.90	1.31945E-03	2.06716E 00	6.99026E-02	-1.92809E 01	-6.51402E-02	2.14002E 00	5.05989E-02	
29.00	1.32858E-03	2.08159E 00	7.07421E-02	-1.92818E 01	-6.59509E-02	2.15469E 00	5.06009E-02	
29.10	1.33775E-03	2.09606E 00	7.15883E-02	-1.92827E 01	-6.67682E-02	2.16942E 00	5.06029E-02	
29.20	1.34695E-03	2.11059E 00	7.24410E-02	-1.92835E 01	-6.75920E-02	2.18420E 00	5.06048E-02	
29.30	1.35618E-03	2.12516E 00	7.33003E-02	-1.92844E 01	-6.84224E-02	2.19902E 00	5.06068E-02	
29.40	1.36544E-03	2.13978E 00	7.41663E-02	-1.92853E 01	-6.92593E-02	2.21390E 00	5.06087E-02	
29.50	1.37474E-03	2.15446E 00	7.50390E-02	-1.92861E 01	-7.01028E-02	2.22882E 00	5.06106E-02	
29.60	1.38406E-03	2.16918E 00	7.59184E-02	-1.92870E 01	-7.09529E-02	2.24380E 00	5.06125E-02	
29.70	1.39342E-03	2.18395E 00	7.68045E-02	-1.92878E 01	-7.18097E-02	2.25882E 00	5.06144E-02	
29.80	1.40281E-03	2.19877E 00	7.76974E-02	-1.92886E 01	-7.26732E-02	2.27389E 00	5.06163E-02	
29.90	1.41223E-03	2.21365E 00	7.85970E-02	-1.92895E 01	-7.35433E-02	2.28902E 00	5.06182E-02	
30.00	1.42168E-03	2.22857E 00	7.95035E-02	-1.92903E 01	-7.44202E-02	2.30419E 00	5.06201E-02	



## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 8$		$A = 17$		$\rho = 1.2 A^{1/3} r$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
30.10	8.01208E-01	2.73388E 01	1.59674E 00	2.06129E-06	-1.49449E 00	2.83201E 01	4.17212E 02	02
30.20	8.01195E-01	2.74354E 01	1.61013E 00	5.98204E-07	-1.50764E 00	2.84173E 01	4.18373E 02	02
30.30	8.01181E-01	2.75321E 01	1.62359E 00	-8.53634E-07	-1.52086E 00	2.85146E 01	4.19533E 02	02
30.40	8.01168E-01	2.76289E 01	1.63710E 00	-2.26760E-06	-1.53413E 00	2.86118E 01	4.20697E 02	02
30.50	8.01154E-01	2.77256E 01	1.65067E 00	-3.64786E-06	-1.54746E 00	2.87091E 01	4.21863E 02	02
30.60	8.01141E-01	2.78225E 01	1.66430E 00	-4.99433E-06	-1.56084E 00	2.88065E 01	4.23034E 02	02
30.70	8.01128E-01	2.79193E 01	1.67799E 00	-6.30988E-06	-1.57429E 00	2.89039E 01	4.24207E 02	02
30.80	8.01115E-01	2.80162E 01	1.69173E 00	-7.58586E-06	-1.58779E 00	2.90013E 01	4.25385E 02	02
30.90	8.01101E-01	2.81132E 01	1.70553E 00	-8.83190E-06	-1.60135E 00	2.90988E 01	4.26565E 02	02
31.00	8.01088E-01	2.82101E 01	1.71939E 00	-1.00492E-05	-1.61497E 00	2.91964E 01	4.27749E 02	02
31.10	8.01075E-01	2.83072E 01	1.73331E 00	-1.12290E-05	-1.62865E 00	2.92940E 01	4.28937E 02	02
31.20	8.01063E-01	2.84043E 01	1.74729E 00	-1.23790E-05	-1.64238E 00	2.93916E 01	4.30128E 02	02
31.30	8.01049E-01	2.85014E 01	1.76132E 00	-1.34797E-05	-1.65618E 00	2.94892E 01	4.31325E 02	02
31.40	8.01037E-01	2.85985E 01	1.77541E 00	-1.45691E-05	-1.67003E 00	2.95870E 01	4.32523E 02	02
31.50	8.01024E-01	2.86957E 01	1.78956E 00	-1.56158E-05	-1.68394E 00	2.96847E 01	4.33727E 02	02
31.60	8.01011E-01	2.87930E 01	1.80377E 00	-1.66418E-05	-1.69791E 00	2.97825E 01	4.34932E 02	02
31.70	8.00998E-01	2.88902E 01	1.81804E 00	-1.76286E-05	-1.71193E 00	2.98804E 01	4.36143E 02	02
31.80	8.00985E-01	2.89876E 01	1.83236E 00	-1.85857E-05	-1.72602E 00	2.99783E 01	4.37358E 02	02
31.90	8.00972E-01	2.90849E 01	1.84674E 00	-1.94978E-05	-1.74016E 00	3.00762E 01	4.38579E 02	02
32.00	8.00959E-01	2.91823E 01	1.86119E 00	-2.04057E-05	-1.75436E 00	3.01742E 01	4.39799E 02	02
32.10	8.00947E-01	2.92798E 01	1.87568E 00	-2.12596E-05	-1.76862E 00	3.02722E 01	4.41028E 02	02
32.20	8.00934E-01	2.93773E 01	1.89024E 00	-2.20987E-05	-1.78294E 00	3.03703E 01	4.42258E 02	02
32.30	8.00921E-01	2.94748E 01	1.90486E 00	-2.29075E-05	-1.79732E 00	3.04684E 01	4.43492E 02	02
32.40	8.00909E-01	2.95724E 01	1.91953E 00	-2.36688E-05	-1.81176E 00	3.05665E 01	4.44734E 02	02
32.50	8.00896E-01	2.96701E 01	1.93427E 00	-2.44117E-05	-1.82625E 00	3.06648E 01	4.45978E 02	02
32.60	8.00884E-01	2.97677E 01	1.94906E 00	-2.51330E-05	-1.84081E 00	3.07630E 01	4.47225E 02	02
32.70	8.00871E-01	2.98655E 01	1.96391E 00	-2.58111E-05	-1.85542E 00	3.08613E 01	4.48479E 02	02
32.80	8.00859E-01	2.99632E 01	1.97882E 00	-2.64698E-05	-1.87009E 00	3.09597E 01	4.49736E 02	02
32.90	8.00846E-01	3.00610E 01	1.99379E 00	-2.70911E-05	-1.88483E 00	3.10581E 01	4.50998E 02	02
33.00	8.00834E-01	3.01589E 01	2.00882E 00	-2.76815E-05	-1.89962E 00	3.11565E 01	4.52266E 02	02
33.10	8.00821E-01	3.02568E 01	2.02391E 00	-2.82547E-05	-1.91447E 00	3.12550E 01	4.53536E 02	02
33.20	8.00809E-01	3.03547E 01	2.03905E 00	-2.87932E-05	-1.92938E 00	3.13535E 01	4.54812E 02	02
33.30	8.00797E-01	3.04527E 01	2.05426E 00	-2.93090E-05	-1.94434E 00	3.14521E 01	4.56092E 02	02
33.40	8.00784E-01	3.05508E 01	2.06952E 00	-2.97942E-05	-1.95937E 00	3.15507E 01	4.57378E 02	02
33.50	8.00772E-01	3.06488E 01	2.08485E 00	-3.02466E-05	-1.97446E 00	3.16494E 01	4.58669E 02	02
33.60	8.00760E-01	3.07470E 01	2.10023E 00	-3.06747E-05	-1.98960E 00	3.17481E 01	4.59964E 02	02
33.70	8.00748E-01	3.08451E 01	2.11567E 00	-3.10727E-05	-2.00481E 00	3.18469E 01	4.61265E 02	02
33.80	8.00736E-01	3.09433E 01	2.13117E 00	-3.14458E-05	-2.02008E 00	3.19457E 01	4.62571E 02	02
33.90	8.00724E-01	3.10416E 01	2.14673E 00	-3.17933E-05	-2.03540E 00	3.20446E 01	4.63881E 02	02
34.00	8.00711E-01	3.11399E 01	2.16235E 00	-3.21076E-05	-2.05079E 00	3.21435E 01	4.65198E 02	02
34.10	8.00699E-01	3.12383E 01	2.17803E 00	-3.23950E-05	-2.06623E 00	3.22425E 01	4.66520E 02	02
34.20	8.00687E-01	3.13367E 01	2.19377E 00	-3.26640E-05	-2.08173E 00	3.23415E 01	4.67845E 02	02
34.30	8.00675E-01	3.14351E 01	2.20957E 00	-3.29022E-05	-2.09730E 00	3.24405E 01	4.69177E 02	02
34.40	8.00664E-01	3.15336E 01	2.22543E 00	-3.31123E-05	-2.11292E 00	3.25397E 01	4.70515E 02	02
34.50	8.00652E-01	3.16322E 01	2.24135E 00	-3.32896E-05	-2.12861E 00	3.26388E 01	4.71859E 02	02
34.60	8.00640E-01	3.17308E 01	2.25733E 00	-3.34477E-05	-2.14435E 00	3.27380E 01	4.73208E 02	02
34.70	8.00628E-01	3.18294E 01	2.27337E 00	-3.35875E-05	-2.16015E 00	3.28373E 01	4.74561E 02	02
34.80	8.00616E-01	3.19281E 01	2.28947E 00	-3.36943E-05	-2.17602E 00	3.29366E 01	4.75921E 02	02
34.90	8.00604E-01	3.20268E 01	2.30563E 00	-3.37696E-05	-2.19194E 00	3.30359E 01	4.77288E 02	02
35.00	8.00592E-01	3.21256E 01	2.32184E 00	-3.38289E-05	-2.20793E 00	3.31353E 01	4.78659E 02	02
35.10	8.00581E-01	3.22244E 01	2.33812E 00	-3.38605E-05	-2.22397E 00	3.32348E 01	4.80036E 02	02
35.20	8.00569E-01	3.23233E 01	2.35446E 00	-3.38611E-05	-2.24008E 00	3.33343E 01	4.81420E 02	02
35.30	8.00557E-01	3.24222E 01	2.37086E 00	-3.38446E-05	-2.25624E 00	3.34339E 01	4.82809E 02	02
35.40	8.00546E-01	3.25212E 01	2.38732E 00	-3.37974E-05	-2.27247E 00	3.35335E 01	4.84205E 02	02
35.50	8.00534E-01	3.26202E 01	2.40384E 00	-3.37341E-05	-2.28876E 00	3.36331E 01	4.85605E 02	02
35.60	8.00523E-01	3.27193E 01	2.42042E 00	-3.36297E-05	-2.30511E 00	3.37328E 01	4.87015E 02	02
35.70	8.00511E-01	3.28184E 01	2.43706E 00	-3.35181E-05	-2.32151E 00	3.38326E 01	4.88428E 02	02
35.80	8.00500E-01	3.29176E 01	2.45376E 00	-3.33602E-05	-2.33798E 00	3.39324E 01	4.89852E 02	02
35.90	8.00488E-01	3.30168E 01	2.47052E 00	-3.32043E-05	-2.35451E 00	3.40322E 01	4.91276E 02	02
36.00	8.00477E-01	3.31160E 01	2.48735E 00	-3.29950E-05	-2.37110E 00	3.41322E 01	4.92715E 02	02

## ELECTRON RADIAL FUNCTIONS

 $Z=10$  $A=20$  $\rho=1.2 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
30.10	1.43116E-03	2.24354E 00	8.04168E-02	-1.92911E 01	-7.53039E-02	2.31941 E 00	5.06219E-02
30.20	1.44067E-03	2.25856E 00	8.13370E-02	-1.92919E 01	-7.61943E-02	2.33468 E 00	5.06237E-02
30.30	1.45022E-03	2.27363E 00	8.22640E-02	-1.92927E 01	-7.70915E-02	2.35000 E 00	5.06256E-02
30.40	1.45979E-03	2.28875E 00	8.31980E-02	-1.92935E 01	-7.79955E-02	2.36538 E 00	5.06274E-02
30.50	1.46940E-03	2.30392E 00	8.41388E-02	-1.92943E 01	-7.89064E-02	2.38080 E 00	5.06292E-02
30.60	1.47904E-03	2.31913E 00	8.50867E-02	-1.92951E 01	-7.98241E-02	2.39627 E 00	5.06310E-02
30.70	1.48871E-03	2.33440E 00	8.60415E-02	-1.92959E 01	-8.07488E-02	2.41179 E 00	5.06328E-02
30.80	1.49841E-03	2.34972E 00	8.70033E-02	-1.92967E 01	-8.16803E-02	2.42735 E 00	5.06346E-02
30.90	1.50815E-03	2.36509E 00	8.79721E-02	-1.92975E 01	-8.26188E-02	2.44297 E 00	5.06363E-02
31.00	1.51791E-03	2.38050E 00	8.89480E-02	-1.92982E 01	-8.35643E-02	2.45864 E 00	5.06381E-02
31.10	1.52771E-03	2.39597E 00	8.99310E-02	-1.92990E 01	-8.45168E-02	2.47436 E 00	5.06398E-02
31.20	1.53754E-03	2.41148E 00	9.09212E-02	-1.92998E 01	-8.54763E-02	2.49012 E 00	5.06415E-02
31.30	1.54740E-03	2.42705E 00	9.19183E-02	-1.93005E 01	-8.64429E-02	2.50594 E 00	5.06433E-02
31.40	1.55729E-03	2.44266E 00	9.29227E-02	-1.93013E 01	-8.74165E-02	2.52181 E 00	5.06450E-02
31.50	1.56721E-03	2.45833E 00	9.39343E-02	-1.93020E 01	-8.83972E-02	2.53772 E 00	5.06467E-02
31.60	1.57717E-03	2.47404E 00	9.49531E-02	-1.93027E 01	-8.93851E-02	2.55369 E 00	5.06484E-02
31.70	1.58715E-03	2.48980E 00	9.59791E-02	-1.93035E 01	-9.03801E-02	2.56970 E 00	5.06500E-02
31.80	1.59717E-03	2.50561E 00	9.70124E-02	-1.93042E 01	-9.13823E-02	2.58576 E 00	5.06517E-02
31.90	1.60722E-03	2.52148E 00	9.80529E-02	-1.93049E 01	-9.23917E-02	2.60188 E 00	5.06534E-02
32.00	1.61730E-03	2.53739E 00	9.91008E-02	-1.93057E 01	-9.34083E-02	2.61804 E 00	5.06550E-02
32.10	1.62741E-03	2.55335E 00	1.00156E-01	-1.93064E 01	-9.44321E-02	2.63425 E 00	5.06567E-02
32.20	1.63755E-03	2.56936E 00	1.01219E-01	-1.93071E 01	-9.54633E-02	2.65051 E 00	5.06583E-02
32.30	1.64773E-03	2.58542E 00	1.02288E-01	-1.93078E 01	-9.65017E-02	2.66682 E 00	5.06599E-02
32.40	1.65793E-03	2.60152E 00	1.03366E-01	-1.93085E 01	-9.75474E-02	2.68318 E 00	5.06615E-02
32.50	1.66817E-03	2.61768E 00	1.04451E-01	-1.93092E 01	-9.86006E-02	2.69959 E 00	5.06631E-02
32.60	1.67844E-03	2.63389E 00	1.05543E-01	-1.93099E 01	-9.96610E-02	2.71605 E 00	5.06647E-02
32.70	1.68874E-03	2.65015E 00	1.06642E-01	-1.93106E 01	-1.00729E-01	2.73256 E 00	5.06663E-02
32.80	1.69907E-03	2.66645E 00	1.07750E-01	-1.93113E 01	-1.01804E-01	2.74911 E 00	5.06679E-02
32.90	1.70944E-03	2.68281E 00	1.08864E-01	-1.93119E 01	-1.02887E-01	2.76572 E 00	5.06695E-02
33.00	1.71983E-03	2.69921E 00	1.09987E-01	-1.93126E 01	-1.03977E-01	2.78238 E 00	5.06710E-02
33.10	1.73026E-03	2.71567E 00	1.11117E-01	-1.93133E 01	-1.05075E-01	2.79908 E 00	5.06726E-02
33.20	1.74071E-03	2.73217E 00	1.12254E-01	-1.93139E 01	-1.06180E-01	2.81584 E 00	5.06741E-02
33.30	1.75120E-03	2.74872E 00	1.13399E-01	-1.93146E 01	-1.07293E-01	2.83264 E 00	5.06756E-02
33.40	1.76172E-03	2.76532E 00	1.14552E-01	-1.93153E 01	-1.08413E-01	2.84949 E 00	5.06772E-02
33.50	1.77228E-03	2.78197E 00	1.15713E-01	-1.93159E 01	-1.09541E-01	2.86640 E 00	5.06787E-02
33.60	1.78286E-03	2.79867E 00	1.16881E-01	-1.93166E 01	-1.10677E-01	2.88335 E 00	5.06802E-02
33.70	1.79347E-03	2.81542E 00	1.18057E-01	-1.93172E 01	-1.11820E-01	2.90035 E 00	5.06817E-02
33.80	1.80412E-03	2.83222E 00	1.19240E-01	-1.93179E 01	-1.12971E-01	2.91740 E 00	5.06832E-02
33.90	1.81480E-03	2.84907E 00	1.20432E-01	-1.93185E 01	-1.14130E-01	2.93450 E 00	5.06846E-02
34.00	1.82551E-03	2.86597E 00	1.21631E-01	-1.93191E 01	-1.15296E-01	2.95165 E 00	5.06861E-02
34.10	1.83625E-03	2.88291E 00	1.22838E-01	-1.93198E 01	-1.16470E-01	2.96884 E 00	5.06876E-02
34.20	1.84702E-03	2.89991E 00	1.24053E-01	-1.93204E 01	-1.17652E-01	2.98609 E 00	5.06890E-02
34.30	1.85782E-03	2.91696E 00	1.25276E-01	-1.93210E 01	-1.18842E-01	3.00339 E 00	5.06905E-02
34.40	1.86866E-03	2.93405E 00	1.26507E-01	-1.93216E 01	-1.20039E-01	3.02073 E 00	5.06919E-02
34.50	1.87953E-03	2.95119E 00	1.27745E-01	-1.93223E 01	-1.21245E-01	3.03813 E 00	5.06934E-02
34.60	1.89042E-03	2.96838E 00	1.28992E-01	-1.93229E 01	-1.22458E-01	3.05557 E 00	5.06948E-02
34.70	1.90135E-03	2.98563E 00	1.30247E-01	-1.93235E 01	-1.23679E-01	3.07306 E 00	5.06962E-02
34.80	1.91232E-03	3.00292E 00	1.31509E-01	-1.93241E 01	-1.24908E-01	3.09060 E 00	5.06976E-02
34.90	1.92331E-03	3.02026E 00	1.32780E-01	-1.93247E 01	-1.26145E-01	3.10820 E 00	5.06990E-02
35.00	1.93433E-03	3.03765E 00	1.34059E-01	-1.93253E 01	-1.27390E-01	3.12584 E 00	5.07004E-02
35.10	1.94539E-03	3.05509E 00	1.35345E-01	-1.93259E 01	-1.28643E-01	3.14352 E 00	5.07018E-02
35.20	1.95647E-03	3.07257E 00	1.36640E-01	-1.93265E 01	-1.29904E-01	3.16126 E 00	5.07032E-02
35.30	1.96759E-03	3.09011E 00	1.37943E-01	-1.93271E 01	-1.31173E-01	3.17905 E 00	5.07045E-02
35.40	1.97874E-03	3.10770E 00	1.39254E-01	-1.93276E 01	-1.32450E-01	3.19689 E 00	5.07059E-02
35.50	1.98992E-03	3.12533E 00	1.40574E-01	-1.93282E 01	-1.33735E-01	3.21477 E 00	5.07073E-02
35.60	2.00114E-03	3.14301E 00	1.41901E-01	-1.93288E 01	-1.35028E-01	3.23271 E 00	5.07086E-02
35.70	2.01238E-03	3.16075E 00	1.43237E-01	-1.93294E 01	-1.36330E-01	3.25069 E 00	5.07100E-02
35.80	2.02366E-03	3.17853E 00	1.44581E-01	-1.93299E 01	-1.37640E-01	3.26872 E 00	5.07113E-02
35.90	2.03496E-03	3.19636E 00	1.45933E-01	-1.93305E 01	-1.38957E-01	3.28681 E 00	5.07126E-02
36.00	2.04630E-03	3.21424E 00	1.47294E-01	-1.93311E 01	-1.40283E-01	3.30494 E 00	5.07140E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 10$		$A = 20$		$\rho = 1.2 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
36.10	8.00465E-01	3.32154E 01	2.50423E 00	-3.27885E-05	-2.38776E 00	3.42321E 01	4.94153E 02	
36.20	8.00454E-01	3.33147E 01	2.52118E 00	-3.25538E-05	-2.40447E 00	3.43321E 01	4.95598E 02	
36.30	8.00442E-01	3.34141E 01	2.53818E 00	-3.22801E-05	-2.42124E 00	3.44322E 01	4.97055E 02	
36.40	8.00431E-01	3.35136E 01	2.55525E 00	-3.19944E-05	-2.43808E 00	3.45323E 01	4.98515E 02	
36.50	8.00420E-01	3.36131E 01	2.57237E 00	-3.16860E-05	-2.45498E 00	3.46325E 01	4.99983E 02	
36.60	8.00408E-01	3.37127E 01	2.58956E 00	-3.13483E-05	-2.47193E 00	3.47327E 01	5.01458E 02	
36.70	8.00397E-01	3.38123E 01	2.60681E 00	-3.09894E-05	-2.48895E 00	3.48330E 01	5.02940E 02	
36.80	8.00386E-01	3.39120E 01	2.62412E 00	-3.06093E-05	-2.50603E 00	3.49333E 01	5.04429E 02	
36.90	8.00375E-01	3.40117E 01	2.64149E 00	-3.02003E-05	-2.52317E 00	3.50337E 01	5.05926E 02	
37.00	8.00364E-01	3.41114E 01	2.65893E 00	-2.97754E-05	-2.54038E 00	3.51341E 01	5.07429E 02	
37.10	8.00353E-01	3.42113E 01	2.67642E 00	-2.93280E-05	-2.55764E 00	3.52346E 01	5.08940E 02	
37.20	8.00341E-01	3.43111E 01	2.69398E 00	-2.88576E-05	-2.57497E 00	3.53351E 01	5.10458E 02	
37.30	8.00330E-01	3.44110E 01	2.71160E 00	-2.83563E-05	-2.59236E 00	3.54357E 01	5.11986E 02	
37.40	8.00319E-01	3.45110E 01	2.72928E 00	-2.78432E-05	-2.60981E 00	3.55364E 01	5.13518E 02	
37.50	8.00308E-01	3.46110E 01	2.74702E 00	-2.73007E-05	-2.62732E 00	3.56371E 01	5.15060E 02	
37.60	8.00297E-01	3.47111E 01	2.76482E 00	-2.67308E-05	-2.64489E 00	3.57378E 01	5.16611E 02	
37.70	8.00286E-01	3.48112E 01	2.78268E 00	-2.61469E-05	-2.66253E 00	3.58386E 01	5.18169E 02	
37.80	8.00275E-01	3.49114E 01	2.80061E 00	-2.55360E-05	-2.68023E 00	3.59395E 01	5.19735E 02	
37.90	8.00265E-01	3.50116E 01	2.81860E 00	-2.49189E-05	-2.69799E 00	3.60404E 01	5.21305E 02	
38.00	8.00254E-01	3.51119E 01	2.83665E 00	-2.42635E-05	-2.71581E 00	3.61414E 01	5.22888E 02	
38.10	8.00243E-01	3.52122E 01	2.85476E 00	-2.35904E-05	-2.73369E 00	3.62424E 01	5.24479E 02	
38.20	8.00232E-01	3.53126E 01	2.87293E 00	-2.28975E-05	-2.75164E 00	3.63435E 01	5.26077E 02	
38.30	8.00221E-01	3.54131E 01	2.89117E 00	-2.21799E-05	-2.76965E 00	3.64446E 01	5.27684E 02	
38.40	8.00210E-01	3.55136E 01	2.90947E 00	-2.14471E-05	-2.78772E 00	3.65458E 01	5.29298E 02	
38.50	8.00200E-01	3.56141E 01	2.92783E 00	-2.06836E-05	-2.80586E 00	3.66470E 01	5.30924E 02	
38.60	8.00189E-01	3.57147E 01	2.94625E 00	-1.99069E-05	-2.82405E 00	3.67483E 01	5.32556E 02	
38.70	8.00178E-01	3.58154E 01	2.96474E 00	-1.91062E-05	-2.84231E 00	3.68497E 01	5.34198E 02	
38.80	8.00168E-01	3.59161E 01	2.98329E 00	-1.82839E-05	-2.86064E 00	3.69511E 01	5.35848E 02	
38.90	8.00157E-01	3.60168E 01	3.00190E 00	-1.74375E-05	-2.87902E 00	3.70525E 01	5.37509E 02	
39.00	8.00146E-01	3.61176E 01	3.02057E 00	-1.65788E-05	-2.89747E 00	3.71540E 01	5.39177E 02	
39.10	8.00136E-01	3.62185E 01	3.03931E 00	-1.56973E-05	-2.91598E 00	3.72556E 01	5.40854E 02	
39.20	8.00125E-01	3.63194E 01	3.05810E 00	-1.47847E-05	-2.93455E 00	3.73573E 01	5.42544E 02	
39.30	8.00115E-01	3.64204E 01	3.07697E 00	-1.38587E-05	-2.95319E 00	3.74589E 01	5.44241E 02	
39.40	8.00104E-01	3.65214E 01	3.09589E 00	-1.29153E-05	-2.97189E 00	3.75607E 01	5.45947E 02	
39.50	8.00094E-01	3.66225E 01	3.11488E 00	-1.19491E-05	-2.99066E 00	3.76625E 01	5.47663E 02	
39.60	8.00083E-01	3.67236E 01	3.13393E 00	-1.09537E-05	-3.00948E 00	3.77643E 01	5.49392E 02	
39.70	8.00073E-01	3.68248E 01	3.15304E 00	-9.94391E-06	-3.02837E 00	3.78663E 01	5.51129E 02	
39.80	8.00062E-01	3.69261E 01	3.17222E 00	-8.92043E-06	-3.04733E 00	3.79682E 01	5.52874E 02	
39.90	8.00052E-01	3.70274E 01	3.19146E 00	-7.88513E-06	-3.06634E 00	3.80703E 01	5.54626E 02	
40.00	8.00041E-01	3.71287E 01	3.21076E 00	-6.80761E-06	-3.08542E 00	3.81723E 01	5.56396E 02	
40.10	8.00031E-01	3.72301E 01	3.23013E 00	-5.72264E-06	-3.10457E 00	3.82745E 01	5.58172E 02	
40.20	8.00021E-01	3.73316E 01	3.24956E 00	-4.62286E-06	-3.12378E 00	3.83767E 01	5.59958E 02	
40.30	8.00010E-01	3.74331E 01	3.26906E 00	-3.49084E-06	-3.14305E 00	3.84790E 01	5.61758E 02	
40.40	8.00000E-01	3.75347E 01	3.28862E 00	-2.34663E-06	-3.16239E 00	3.85813E 01	5.63565E 02	
40.50	7.99990E-01	3.76364E 01	3.30824E 00	-1.19263E-06	-3.18179E 00	3.86836E 01	5.65381E 02	
40.60	7.99980E-01	3.77380E 01	3.32792E 00	-4.07465E-09	-3.20125E 00	3.87861E 01	5.67213E 02	
40.70	7.99970E-01	3.78398E 01	3.34767E 00	1.20405E-06	-3.22078E 00	3.88886E 01	5.69056E 02	
40.80	7.99959E-01	3.79416E 01	3.36749E 00	2.42965E-06	-3.24037E 00	3.89911E 01	5.70909E 02	
40.90	7.99949E-01	3.80435E 01	3.38736E 00	3.66743E-06	-3.26003E 00	3.90937E 01	5.72772E 02	
41.00	7.99939E-01	3.81454E 01	3.40730E 00	4.93247E-06	-3.27975E 00	3.91964E 01	5.74649E 02	
41.10	7.99929E-01	3.82474E 01	3.42731E 00	6.21363E-06	-3.29953E 00	3.92991E 01	5.76536E 02	
41.20	7.99919E-01	3.83494E 01	3.44738E 00	7.51285E-06	-3.31939E 00	3.94019E 01	5.78435E 02	
41.30	7.99909E-01	3.84515E 01	3.46751E 00	8.82255E-06	-3.33930E 00	3.95048E 01	5.80342E 02	
41.40	7.99899E-01	3.85537E 01	3.48771E 00	1.01703E-05	-3.35928E 00	3.96077E 01	5.82268E 02	
41.50	7.99889E-01	3.86559E 01	3.50798E 00	1.15228E-05	-3.37932E 00	3.97107E 01	5.84203E 02	
41.60	7.99879E-01	3.87581E 01	3.52830E 00	1.29062E-05	-3.39943E 00	3.98137E 01	5.86153E 02	
41.70	7.99869E-01	3.88604E 01	3.54870E 00	1.42968E-05	-3.41961E 00	3.99168E 01	5.88112E 02	
41.80	7.99859E-01	3.89628E 01	3.56915E 00	1.57110E-05	-3.43984E 00	4.00199E 01	5.90084E 02	
41.90	7.99849E-01	3.90653E 01	3.58967E 00	1.71366E-05	-3.46015E 00	4.01232E 01	5.92068E 02	
42.00	7.99839E-01	3.91678E 01	3.61026E 00	1.85838E-05	-3.48052E 00	4.02264E 01	5.94065E 02	

ELECTRON RADIAL FUNCTIONS

$p$	$Z = 10$		$A = 20$		$\rho = 1.2 A^{1/3} F$		Positron	
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
36.10	2.05767E-03	3.23217E 00	1.48663E-01	-1.93316E 01	-1.41618E-01	3.32312E 00	5.07153E-02	
36.20	2.06907E-03	3.25015E 00	1.50040E-01	-1.93322E 01	-1.42960E-01	3.34135E 00	5.07166E-02	
36.30	2.08051E-03	3.26818E 00	1.51426E-01	-1.93327E 01	-1.44311E-01	3.35962E 00	5.07179E-02	
36.40	2.09197E-03	3.28625E 00	1.52820E-01	-1.93333E 01	-1.45670E-01	3.37795E 00	5.07192E-02	
36.50	2.10347E-03	3.30438E 00	1.54223E-01	-1.93338E 01	-1.47038E-01	3.39633E 00	5.07205E-02	
36.60	2.11499E-03	3.32255E 00	1.55634E-01	-1.93344E 01	-1.48414E-01	3.41475E 00	5.07217E-02	
36.70	2.12655E-03	3.34077E 00	1.57053E-01	-1.93349E 01	-1.49798E-01	3.43323E 00	5.07230E-02	
36.80	2.13814E-03	3.35905E 00	1.58481E-01	-1.93355E 01	-1.51191E-01	3.45175E 00	5.07243E-02	
36.90	2.14976E-03	3.37737E 00	1.59918E-01	-1.93360E 01	-1.52592E-01	3.47032E 00	5.07255E-02	
37.00	2.16142E-03	3.39574E 00	1.61363E-01	-1.93365E 01	-1.54002E-01	3.48894E 00	5.07268E-02	
37.10	2.17310E-03	3.41416E 00	1.62816E-01	-1.93371E 01	-1.55420E-01	3.50761E 00	5.07281E-02	
37.20	2.18482E-03	3.43262E 00	1.64279E-01	-1.93376E 01	-1.56847E-01	3.52633E 00	5.07293E-02	
37.30	2.19656E-03	3.45114E 00	1.65749E-01	-1.93381E 01	-1.58282E-01	3.54510E 00	5.07305E-02	
37.40	2.20834E-03	3.46971E 00	1.67229E-01	-1.93386E 01	-1.59726E-01	3.56391E 00	5.07318E-02	
37.50	2.22015E-03	3.48832E 00	1.68717E-01	-1.93392E 01	-1.61178E-01	3.58278E 00	5.07330E-02	
37.60	2.23200E-03	3.50698E 00	1.70214E-01	-1.93397E 01	-1.62639E-01	3.60169E 00	5.07342E-02	
37.70	2.24387E-03	3.52570E 00	1.71720E-01	-1.93402E 01	-1.64109E-01	3.62065E 00	5.07354E-02	
37.80	2.25577E-03	3.54446E 00	1.73234E-01	-1.93407E 01	-1.65587E-01	3.63967E 00	5.07366E-02	
37.90	2.26771E-03	3.56327E 00	1.74757E-01	-1.93412E 01	-1.67074E-01	3.65873E 00	5.07378E-02	
38.00	2.27968E-03	3.58213E 00	1.76289E-01	-1.93417E 01	-1.68570E-01	3.67784E 00	5.07390E-02	
38.10	2.29168E-03	3.60103E 00	1.77830E-01	-1.93422E 01	-1.70074E-01	3.69699E 00	5.07402E-02	
38.20	2.30371E-03	3.61999E 00	1.79379E-01	-1.93427E 01	-1.71587E-01	3.71620E 00	5.07414E-02	
38.30	2.31577E-03	3.63900E 00	1.80938E-01	-1.93432E 01	-1.73109E-01	3.73546E 00	5.07426E-02	
38.40	2.32786E-03	3.65805E 00	1.82505E-01	-1.93437E 01	-1.74640E-01	3.75476E 00	5.07438E-02	
38.50	2.33999E-03	3.67715E 00	1.84082E-01	-1.93442E 01	-1.76180E-01	3.77411E 00	5.07449E-02	
38.60	2.35214E-03	3.69630E 00	1.85667E-01	-1.93447E 01	-1.77728E-01	3.79352E 00	5.07461E-02	
38.70	2.36433E-03	3.71551E 00	1.87261E-01	-1.93451E 01	-1.79286E-01	3.81297E 00	5.07472E-02	
38.80	2.37655E-03	3.73475E 00	1.88864E-01	-1.93456E 01	-1.80852E-01	3.83247E 00	5.07484E-02	
38.90	2.38880E-03	3.75405E 00	1.90476E-01	-1.93461E 01	-1.82427E-01	3.85202E 00	5.07495E-02	
39.00	2.40108E-03	3.77340E 00	1.92098E-01	-1.93466E 01	-1.84012E-01	3.87161E 00	5.07507E-02	
39.10	2.41340E-03	3.79280E 00	1.93728E-01	-1.93471E 01	-1.85605E-01	3.89126E 00	5.07518E-02	
39.20	2.42574E-03	3.81224E 00	1.95368E-01	-1.93475E 01	-1.87207E-01	3.91095E 00	5.07529E-02	
39.30	2.43812E-03	3.83173E 00	1.97016E-01	-1.93480E 01	-1.88818E-01	3.93070E 00	5.07541E-02	
39.40	2.45053E-03	3.85127E 00	1.98674E-01	-1.93485E 01	-1.90439E-01	3.95049E 00	5.07552E-02	
39.50	2.46297E-03	3.87086E 00	2.00341E-01	-1.93489E 01	-1.92068E-01	3.97033E 00	5.07563E-02	
39.60	2.47544E-03	3.89050E 00	2.02017E-01	-1.93494E 01	-1.93707E-01	3.99022E 00	5.07574E-02	
39.70	2.48794E-03	3.91019E 00	2.03702E-01	-1.93498E 01	-1.95354E-01	4.01016E 00	5.07585E-02	
39.80	2.50047E-03	3.92993E 00	2.05397E-01	-1.93503E 01	-1.97011E-01	4.03014E 00	5.07596E-02	
39.90	2.51304E-03	3.94971E 00	2.07101E-01	-1.93508E 01	-1.98677E-01	4.05018E 00	5.07607E-02	
40.00	2.52563E-03	3.96954E 00	2.08814E-01	-1.93512E 01	-2.00353E-01	4.07026E 00	5.07618E-02	
40.10	2.53826E-03	3.98943E 00	2.10536E-01	-1.93517E 01	-2.02037E-01	4.09039E 00	5.07629E-02	
40.20	2.55092E-03	4.00936E 00	2.12268E-01	-1.93521E 01	-2.03731E-01	4.11057E 00	5.07639E-02	
40.30	2.56361E-03	4.02934E 00	2.14009E-01	-1.93525E 01	-2.05434E-01	4.13080E 00	5.07650E-02	
40.40	2.57633E-03	4.04936E 00	2.15760E-01	-1.93530E 01	-2.07146E-01	4.15108E 00	5.07661E-02	
40.50	2.58909E-03	4.06944E 00	2.17520E-01	-1.93534E 01	-2.08868E-01	4.17141E 00	5.07671E-02	
40.60	2.60187E-03	4.08957E 00	2.19289E-01	-1.93539E 01	-2.10599E-01	4.19178E 00	5.07682E-02	
40.70	2.61469E-03	4.10974E 00	2.21068E-01	-1.93543E 01	-2.12339E-01	4.21221E 00	5.07693E-02	
40.80	2.62754E-03	4.12996E 00	2.22856E-01	-1.93547E 01	-2.14089E-01	4.23268E 00	5.07703E-02	
40.90	2.64042E-03	4.15023E 00	2.24654E-01	-1.93552E 01	-2.15849E-01	4.25320E 00	5.07714E-02	
41.00	2.65333E-03	4.17055E 00	2.26462E-01	-1.93556E 01	-2.17617E-01	4.27377E 00	5.07724E-02	
41.10	2.66627E-03	4.19092E 00	2.28279E-01	-1.93560E 01	-2.19396E-01	4.29438E 00	5.07734E-02	
41.20	2.67924E-03	4.21133E 00	2.30105E-01	-1.93564E 01	-2.21183E-01	4.31505E 00	5.07744E-02	
41.30	2.69225E-03	4.23180E 00	2.31941E-01	-1.93569E 01	-2.22980E-01	4.33576E 00	5.07755E-02	
41.40	2.70529E-03	4.25231E 00	2.33787E-01	-1.93573E 01	-2.24787E-01	4.35653E 00	5.07765E-02	
41.50	2.71836E-03	4.27287E 00	2.35643E-01	-1.93577E 01	-2.26604E-01	4.37734E 00	5.07775E-02	
41.60	2.73146E-03	4.29348E 00	2.37508E-01	-1.93581E 01	-2.28430E-01	4.39820E 00	5.07785E-02	
41.70	2.74459E-03	4.31414E 00	2.39383E-01	-1.93585E 01	-2.30265E-01	4.41911E 00	5.07795E-02	
41.80	2.75775E-03	4.33485E 00	2.41267E-01	-1.93589E 01	-2.32111E-01	4.44066E 00	5.07805E-02	
41.90	2.77094E-03	4.35560E 00	2.43162E-01	-1.93593E 01	-2.33966E-01	4.46107E 00	5.07815E-02	
42.00	2.78417E-03	4.37641E 00	2.45066E-01	-1.93598E 01	-2.35830E-01	4.48212E 00	5.07825E-02	



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$	$A=12$	$\rho=1.3 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
0.10	3.00023 E 00	-1.32756 E-02	-3.00962 E-04	-1.91068 E-01	-4.28482 E-03	2.44414 E-01	-4.39128 E 00	
0.20	1.88950 E 00	-3.91752 E-02	-8.89611 E-04	-9.15769 E-02	-6.79080 E-03	3.86520 E-01	-8.01018 E 00	
0.30	1.57726 E 00	-7.81390 E-02	-1.77929 E-03	-5.99149 E-02	-9.28573 E-03	5.26660 E-01	-1.17252 E 01	
0.40	1.43617 E 00	-1.28893 E-01	-2.94593 E-03	-4.41841 E-02	-1.17817 E-02	6.65023 E-01	-1.53936 E 01	
0.50	1.35772 E 00	-1.89928 E-01	-4.36095 E-03	-3.47314 E-02	-1.42766 E-02	8.01082 E-01	-1.89838 E 01	
0.60	1.30876 E 00	-2.59679 E-01	-5.99466 E-03	-2.84022 E-02	-1.67709 E-02	9.34548 E-01	-2.24825 E 01	
0.70	1.27584 E 00	-3.36659 E-01	-7.81888 E-03	-2.38558 E-02	-1.92674 E-02	1.06535 E 00	-2.58833 E 01	
0.80	1.25255 E 00	-4.19536 E-01	-9.80840 E-03	-2.04251 E-02	-2.17704 E-02	1.19357 E 00	-2.91831 E 01	
0.90	1.23543 E 00	-5.07171 E-01	-1.19417 E-02	-1.77399 E-02	-2.42850 E-02	1.31940 E 00	-3.23813 E 01	
1.00	1.22246 E 00	-5.98618 E-01	-1.42008 E-02	-1.55785 E-02	-2.68162 E-02	1.44304 E 00	-3.54787 E 01	
1.10	1.21240 E 00	-6.93107 E-01	-1.65714 E-02	-1.37995 E-02	-2.93691 E-02	1.56474 E 00	-3.84772 E 01	
1.20	1.20443 E 00	-7.90022 E-01	-1.90418 E-02	-1.23087 E-02	-3.19480 E-02	1.68473 E 00	-4.13793 E 01	
1.30	1.19801 E 00	-8.88872 E-01	-2.16028 E-02	-1.10405 E-02	-3.45571 E-02	1.80323 E 00	-4.41880 E 01	
1.40	1.19277 E 00	-9.89269 E-01	-2.42472 E-02	-9.94802 E-03	-3.71998 E-02	1.92434 E 00	-4.69065 E 01	
1.50	1.18842 E 00	-1.09091 E 00	-2.69693 E-02	-8.99687 E-03	-3.98792 E-02	2.03650 E 00	-4.95381 E 01	
1.60	1.18479 E 00	-1.19354 E 00	-2.97645 E-02	-8.16103 E-03	-4.25977 E-02	2.15159 E 00	-5.20862 E 01	
1.70	1.18172 E 00	-1.29698 E 00	-3.26294 E-02	-7.42061 E-03	-4.53577 E-02	2.26583 E 00	-5.45543 E 01	
1.80	1.17909 E 00	-1.40108 E 00	-3.55610 E-02	-6.76002 E-03	-4.81609 E-02	2.37933 E 00	-5.69454 E 01	
1.90	1.17683 E 00	-1.50571 E 00	-3.85573 E-02	-6.16696 E-03	-5.10090 E-02	2.49218 E 00	-5.92630 E 01	
2.00	1.17487 E 00	-1.61077 E 00	-4.16163 E-02	-5.63151 E-03	-5.39032 E-02	2.60447 E 00	-6.15101 E 01	
2.10	1.17316 E 00	-1.71619 E 00	-4.47366 E-02	-5.14564 E-03	-5.68446 E-02	2.71626 E 00	-6.36896 E 01	
2.20	1.17166 E 00	-1.82190 E 00	-4.79172 E-02	-4.70272 E-03	-5.98343 E-02	2.82761 E 00	-6.58043 E 01	
2.30	1.17033 E 00	-1.92786 E 00	-5.11570 E-02	-4.29729 E-03	-6.28730 E-02	2.93858 E 00	-6.78571 E 01	
2.40	1.16915 E 00	-2.03402 E 00	-5.44554 E-02	-3.92477 E-03	-6.59615 E-02	3.04921 E 00	-6.98505 E 01	
2.50	1.16810 E 00	-2.14034 E 00	-5.78116 E-02	-3.58131 E-03	-6.91004 E-02	3.15953 E 00	-7.17869 E 01	
2.60	1.16715 E 00	-2.24680 E 00	-6.12252 E-02	-3.26360 E-03	-7.22901 E-02	3.26958 E 00	-7.36687 E 01	
2.70	1.16630 E 00	-2.35338 E 00	-6.46958 E-02	-2.96887 E-03	-7.55311 E-02	3.37939 E 00	-7.54981 E 01	
2.80	1.16553 E 00	-2.46005 E 00	-6.82230 E-02	-2.69470 E-03	-7.88238 E-02	3.48898 E 00	-7.72773 E 01	
2.90	1.16483 E 00	-2.56681 E 00	-7.18065 E-02	-2.43901 E-03	-8.21685 E-02	3.59837 E 00	-7.90082 E 01	
3.00	1.16419 E 00	-2.67362 E 00	-7.54461 E-02	-2.19999 E-03	-8.55655 E-02	3.70758 E 00	-8.06928 E 01	
3.10	1.16361 E 00	-2.78050 E 00	-7.91416 E-02	-1.97607 E-03	-8.90151 E-02	3.81664 E 00	-8.23329 E 01	
3.20	1.16307 E 00	-2.88741 E 00	-8.28928 E-02	-1.76584 E-03	-9.25174 E-02	3.92554 E 00	-8.39303 E 01	
3.30	1.16258 E 00	-2.99437 E 00	-8.66995 E-02	-1.56810 E-03	-9.60728 E-02	4.03431 E 00	-8.54865 E 01	
3.40	1.16212 E 00	-3.10135 E 00	-9.05617 E-02	-1.38177 E-03	-9.96812 E-02	4.14296 E 00	-8.70032 E 01	
3.50	1.16170 E 00	-3.20836 E 00	-9.44793 E-02	-1.20588 E-03	-1.03343 E-01	4.25149 E 00	-8.84817 E 01	
3.60	1.16131 E 00	-3.31539 E 00	-9.84520 E-02	-1.03959 E-03	-1.07058 E-01	4.35992 E 00	-8.99238 E 01	
3.70	1.16095 E 00	-3.42243 E 00	-1.02480 E-01	-8.82122 E-04	-1.10827 E-01	4.46825 E 00	-9.13304 E 01	
3.80	1.16061 E 00	-3.52948 E 00	-1.06563 E-01	-7.32802 E-04	-1.14649 E-01	4.57649 E 00	-9.27030 E 01	
3.90	1.16029 E 00	-3.63655 E 00	-1.10701 E-01	-5.91015 E-04	-1.18525 E-01	4.68465 E 00	-9.40429 E 01	
4.00	1.16000 E 00	-3.74362 E 00	-1.14894 E-01	-4.56203 E-04	-1.22455 E-01	4.79273 E 00	-9.53512 E 01	
4.10	1.15972 E 00	-3.85069 E 00	-1.19142 E-01	-3.27864 E-04	-1.26439 E-01	4.90074 E 00	-9.66289 E 01	
4.20	1.15946 E 00	-3.95776 E 00	-1.23445 E-01	-2.05547 E-04	-1.30477 E-01	5.00869 E 00	-9.78773 E 01	
4.30	1.15922 E 00	-4.06483 E 00	-1.27803 E-01	-8.88346 E-05	-1.34568 E-01	5.11656 E 00	-9.90972 E 01	
4.40	1.15899 E 00	-4.17190 E 00	-1.32216 E-01	2.26414 E-05	-1.38714 E-01	5.22438 E 00	-1.00290 E 02	
4.50	1.15877 E 00	-4.27896 E 00	-1.36683 E-01	1.29232 E-04	-1.42914 E-01	5.33214 E 00	-1.01456 E 02	
4.60	1.15856 E 00	-4.38602 E 00	-1.41205 E-01	2.31252 E-04	-1.47168 E-01	5.43985 E 00	-1.02596 E 02	
4.70	1.15837 E 00	-4.49308 E 00	-1.45782 E-01	3.28977 E-04	-1.51476 E-01	5.54751 E 00	-1.03711 E 02	
4.80	1.15818 E 00	-4.60012 E 00	-1.50414 E-01	4.22676 E-04	-1.55838 E-01	5.65513 E 00	-1.04803 E 02	
4.90	1.15800 E 00	-4.70716 E 00	-1.55101 E-01	5.12597 E-04	-1.60255 E-01	5.76269 E 00	-1.05871 E 02	
5.00	1.15784 E 00	-4.81419 E 00	-1.59842 E-01	5.98949 E-04	-1.64726 E-01	5.87021 E 00	-1.06918 E 02	
5.10	1.15768 E 00	-4.92122 E 00	-1.64638 E-01	6.81966 E-04	-1.69251 E-01	5.97770 E 00	-1.07942 E 02	
5.20	1.15752 E 00	-5.02823 E 00	-1.69489 E-01	7.61800 E-04	-1.73830 E-01	6.08514 E 00	-1.08945 E 02	
5.30	1.15738 E 00	-5.13523 E 00	-1.74394 E-01	8.38663 E-04	-1.78464 E-01	6.19254 E 00	-1.09928 E 02	
5.40	1.15724 E 00	-5.24223 E 00	-1.79354 E-01	9.12696 E-04	-1.83152 E-01	6.29991 E 00	-1.10891 E 02	
5.50	1.15711 E 00	-5.34921 E 00	-1.84369 E-01	9.84058 E-04	-1.87894 E-01	6.40725 E 00	-1.11835 E 02	
5.60	1.15698 E 00	-5.45618 E 00	-1.89438 E-01	1.05289 E-03	-1.92691 E-01	6.51455 E 00	-1.12760 E 02	
5.70	1.15686 E 00	-5.56314 E 00	-1.94562 E-01	1.11932 E-03	-1.97542 E-01	6.62182 E 00	-1.13667 E 02	
5.80	1.15674 E 00	-5.67009 E 00	-1.99740 E-01	1.18348 E-03	-2.02448 E-01	6.72905 E 00	-1.14557 E 02	
5.90	1.15663 E 00	-5.77703 E 00	-2.04973 E-01	1.24547 E-03	-2.07408 E-01	6.83626 E 00	-1.15430 E 02	
6.00	1.15652 E 00	-5.88395 E 00	-2.10261 E-01	1.30541 E-03	-2.12422 E-01	6.94344 E 00	-1.16287 E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z=6$  $A=12$  $\rho=1.3 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	5.86209E-08	-3.46119E-06	-4.53407E-08	2.32085E 00	-6.84880E-07	6.83754E-05	-1.93681E-01
0.20	1.29941E-07	-2.01665E-05	-2.64636E-07	4.82351E 00	-2.03657E-06	2.02860E-04	-9.56841E-02
0.30	2.37944E-07	-6.01954E-05	-7.92168E-07	7.18406E 00	-4.12533E-06	4.09394E-04	-6.55560E-02
0.40	3.81762E-07	-1.32294E-04	-1.74771E-06	9.40344E 00	-6.94963E-06	6.86210E-04	-5.13141E-02
0.50	5.61636E-07	-2.43601E-04	-3.23357E-06	1.14638E 01	-1.05084E-05	1.03116E-03	-4.32807E-02
0.60	7.77910E-07	-3.99626E-04	-5.33433E-06	1.33544E 01	-1.48023E-05	1.44201E-03	-3.82896E-02
0.70	1.03090E-06	-6.04412E-04	-8.11864E-06	1.50732E 01	-1.98351E-05	1.91661E-03	-3.49954E-02
0.80	1.32086E-06	-8.60796E-04	-1.16421E-05	1.66252E 01	-2.56140E-05	2.45310E-03	-3.27299E-02
0.90	1.64801E-06	-1.17069E-03	-1.59502E-05	1.8205E 01	-3.21499E-05	3.04989E-03	-3.11252E-02
1.00	2.01252E-06	-1.53535E-03	-2.10815E-05	1.92715E 01	-3.94566E-05	3.70572E-03	-2.99634E-02
1.10	2.41452E-06	-1.95553E-03	-2.70692E-05	2.03920E 01	-4.75507E-05	4.41958E-03	-2.91080E-02
1.20	2.85411E-06	-2.43168E-03	-3.39431E-05	2.13956E 01	-5.64510E-05	5.19069E-03	-2.84704E-02
1.30	3.33137E-06	-2.96404E-03	-4.17311E-05	2.22954E 01	-6.61780E-05	6.01847E-03	-2.79906E-02
1.40	3.84636E-06	-3.55272E-03	-5.04594E-05	2.31034E 01	-7.67533E-05	6.90245E-03	-2.76273E-02
1.50	4.39913E-06	-4.19773E-03	-6.01533E-05	2.38305E 01	-8.81996E-05	7.84231E-03	-2.73511E-02
1.60	4.98972E-06	-4.89904E-03	-7.08378E-05	2.44863E 01	-1.00540E-04	8.83779E-03	-2.71410E-02
1.70	5.61815E-06	-5.65658E-03	-8.25374E-05	2.50793E 01	-1.13800E-04	9.88870E-03	-2.69815E-02
1.80	6.28446E-06	-6.47028E-03	-9.52767E-05	2.56170E 01	-1.28002E-04	1.09949E-02	-2.68611E-02
1.90	6.98865E-06	-7.34005E-03	-1.09080E-04	2.61059E 01	-1.43172E-04	1.21563E-02	-2.67712E-02
2.00	7.73075E-06	-8.26582E-03	-1.23972E-04	2.65515E 01	-1.59334E-04	1.33728E-02	-2.67053E-02
2.10	8.51077E-06	-9.24749E-03	-1.39977E-04	2.69588E 01	-1.76514E-04	1.46443E-02	-2.66581E-02
2.20	9.32870E-06	-1.02850E-02	-1.57119E-04	2.73321E 01	-1.94736E-04	1.59709E-02	-2.66260E-02
2.30	1.01846E-05	-1.13783E-02	-1.75424E-04	2.76751E 01	-2.14027E-04	1.73524E-02	-2.66057E-02
2.40	1.10784E-05	-1.25272E-02	-1.94916E-04	2.79911E 01	-2.34411E-04	1.87889E-02	-2.65949E-02
2.50	1.20101E-05	-1.37318E-02	-2.15619E-04	2.82828E 01	-2.55913E-04	2.02803E-02	-2.65918E-02
2.60	1.29798E-05	-1.49920E-02	-2.37559E-04	2.85528E 01	-2.78560E-04	2.18267E-02	-2.65946E-02
2.70	1.39875E-05	-1.63077E-02	-2.60760E-04	2.88032E 01	-3.02376E-04	2.34279E-02	-2.66023E-02
2.80	1.50331E-05	-1.76788E-02	-2.85248E-04	2.90360E 01	-3.27387E-04	2.50841E-02	-2.66139E-02
2.90	1.61166E-05	-1.91055E-02	-3.11047E-04	2.92528E 01	-3.53618E-04	2.67952E-02	-2.66286E-02
3.00	1.72381E-05	-2.05875E-02	-3.38182E-04	2.94551E 01	-3.81095E-04	2.85611E-02	-2.66457E-02
3.10	1.83976E-05	-2.21249E-02	-3.66678E-04	2.96443E 01	-4.09843E-04	3.03820E-02	-2.66647E-02
3.20	1.95950E-05	-2.37176E-02	-3.96561E-04	2.98215E 01	-4.39889E-04	3.22578E-02	-2.66851E-02
3.30	2.08304E-05	-2.53656E-02	-4.27855E-04	2.99877E 01	-4.71256E-04	3.41884E-02	-2.67067E-02
3.40	2.21037E-05	-2.70689E-02	-4.60586E-04	3.01440E 01	-5.03971E-04	3.61740E-02	-2.67292E-02
3.50	2.34150E-05	-2.88274E-02	-4.94779E-04	3.02911E 01	-5.38058E-04	3.82144E-02	-2.67523E-02
3.60	2.47643E-05	-3.06412E-02	-5.30459E-04	3.04298E 01	-5.73545E-04	4.03098E-02	-2.67757E-02
3.70	2.61515E-05	-3.25102E-02	-5.67651E-04	3.05607E 01	-6.10455E-04	4.24600E-02	-2.67995E-02
3.80	2.75767E-05	-3.44344E-02	-6.06380E-04	3.06844E 01	-6.48815E-04	4.46651E-02	-2.68234E-02
3.90	2.90398E-05	-3.64137E-02	-6.46672E-04	3.08016E 01	-6.88649E-04	4.69251E-02	-2.68473E-02
4.00	3.05409E-05	-3.84482E-02	-6.88552E-04	3.09127E 01	-7.29984E-04	4.92400E-02	-2.68711E-02
4.10	3.20799E-05	-4.05379E-02	-7.32045E-04	3.10181E 01	-7.72844E-04	5.16098E-02	-2.68948E-02
4.20	3.36569E-05	-4.26826E-02	-7.77176E-04	3.11182E 01	-8.17255E-04	5.40345E-02	-2.69183E-02
4.30	3.52719E-05	-4.48825E-02	-8.23971E-04	3.12135E 01	-8.63243E-04	5.65141E-02	-2.69415E-02
4.40	3.69248E-05	-4.71375E-02	-8.72455E-04	3.13042E 01	-9.10832E-04	5.90485E-02	-2.69645E-02
4.50	3.86156E-05	-4.94475E-02	-9.22652E-04	3.13907E 01	-9.60049E-04	6.16379E-02	-2.69872E-02
4.60	4.03444E-05	-5.18126E-02	-9.74589E-04	3.14732E 01	-1.01092E-03	6.42821E-02	-2.70095E-02
4.70	4.21112E-05	-5.42328E-02	-1.02829E-03	3.15520E 01	-1.06346E-03	6.69811E-02	-2.70315E-02
4.80	4.39160E-05	-5.67080E-02	-1.08378E-03	3.16273E 01	-1.11772E-03	6.97351E-02	-2.70532E-02
4.90	4.57586E-05	-5.92382E-02	-1.14109E-03	3.16994E 01	-1.17370E-03	7.25440E-02	-2.70744E-02
5.00	4.76393E-05	-6.18235E-02	-1.20024E-03	3.17684E 01	-1.23143E-03	7.54076E-02	-2.70953E-02
5.10	4.95579E-05	-6.44638E-02	-1.26125E-03	3.18346E 01	-1.29094E-03	7.83262E-02	-2.71158E-02
5.20	5.15143E-05	-6.71590E-02	-1.32415E-03	3.18981E 01	-1.35226E-03	8.12996E-02	-2.71359E-02
5.30	5.35089E-05	-6.99093E-02	-1.38898E-03	3.19590E 01	-1.41541E-03	8.43279E-02	-2.71556E-02
5.40	5.55413E-05	-7.27146E-02	-1.45574E-03	3.20176E 01	-1.48041E-03	8.74111E-02	-2.71750E-02
5.50	5.76117E-05	-7.55748E-02	-1.52447E-03	3.20739E 01	-1.54730E-03	9.05491E-02	-2.71939E-02
5.60	5.97200E-05	-7.84901E-02	-1.59519E-03	3.21280E 01	-1.61609E-03	9.37420E-02	-2.72125E-02
5.70	6.18664E-05	-8.14603E-02	-1.66793E-03	3.21802E 01	-1.68681E-03	9.69897E-02	-2.72308E-02
5.80	6.40506E-05	-8.44854E-02	-1.74271E-03	3.22304E 01	-1.75949E-03	1.00292E-01	-2.72486E-02
5.90	6.62728E-05	-8.75655E-02	-1.81956E-03	3.22788E 01	-1.83415E-03	1.03650E-01	-2.72661E-02
6.00	6.85329E-05	-9.07005E-02	-1.89851E-03	3.23255E 01	-1.91082E-03	1.07062E-01	-2.72832E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$	$A=12$	$\rho=1.3 A^{1/3} F$						
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$		
6.10	1.15642E 00	-5.99086E 00	-2.15603E-01	1.36339E-03	-2.17491E-01	7.05059E 00	-1.17127E 02		
6.20	1.15631E 00	-6.09776E 00	-2.21000E-01	1.41950E-03	-2.22614E-01	7.15771E 00	-1.17952E 02		
6.30	1.15622E 00	-6.20465E 00	-2.26452E-01	1.47384E-03	-2.27791E-01	7.26481E 00	-1.18762E 02		
6.40	1.15613E 00	-6.31153E 00	-2.31958E-01	1.52648E-03	-2.33023E-01	7.37188E 00	-1.19557E 02		
6.50	1.15603E 00	-6.41839E 00	-2.37518E-01	1.57750E-03	-2.38310E-01	7.47892E 00	-1.20338E 02		
6.60	1.15595E 00	-6.52523E 00	-2.43133E-01	1.62699E-03	-2.43650E-01	7.58594E 00	-1.21105E 02		
6.70	1.15586E 00	-6.63207E 00	-2.48803E-01	1.67499E-03	-2.49045E-01	7.69294E 00	-1.21859E 02		
6.80	1.15578E 00	-6.73889E 00	-2.54527E-01	1.72158E-03	-2.54495E-01	7.79991E 00	-1.22600E 02		
6.90	1.15570E 00	-6.84570E 00	-2.60306E-01	1.76682E-03	-2.59999E-01	7.90686E 00	-1.23328E 02		
7.00	1.15563E 00	-6.95250E 00	-2.66139E-01	1.81077E-03	-2.65558E-01	8.01379E 00	-1.24043E 02		
7.10	1.15555E 00	-7.05928E 00	-2.72027E-01	1.85347E-03	-2.71170E-01	8.12069E 00	-1.24746E 02		
7.20	1.15548E 00	-7.16604E 00	-2.77969E-01	1.89498E-03	-2.76838E-01	8.22757E 00	-1.25438E 02		
7.30	1.15541E 00	-7.27280E 00	-2.83965E-01	1.93535E-03	-2.82559E-01	8.33443E 00	-1.26118E 02		
7.40	1.15534E 00	-7.37954E 00	-2.90016E-01	1.97463E-03	-2.88335E-01	8.44127E 00	-1.26787E 02		
7.50	1.15528E 00	-7.48626E 00	-2.96122E-01	2.01285E-03	-2.94166E-01	8.54808E 00	-1.27445E 02		
7.60	1.15521E 00	-7.59298E 00	-3.02282E-01	2.05005E-03	-3.00051E-01	8.65488E 00	-1.28093E 02		
7.70	1.15515E 00	-7.69968E 00	-3.08497E-01	2.08628E-03	-3.05990E-01	8.76166E 00	-1.28730E 02		
7.80	1.15509E 00	-7.80636E 00	-3.14766E-01	2.12159E-03	-3.11984E-01	8.86842E 00	-1.29357E 02		
7.90	1.15503E 00	-7.91304E 00	-3.21089E-01	2.15598E-03	-3.18032E-01	8.97516E 00	-1.29974E 02		
8.00	1.15497E 00	-8.01969E 00	-3.27467E-01	2.18951E-03	-3.24135E-01	9.08187E 00	-1.30582E 02		
8.10	1.15491E 00	-8.12633E 00	-3.33899E-01	2.22220E-03	-3.30292E-01	9.18857E 00	-1.31180E 02		
8.20	1.15486E 00	-8.23297E 00	-3.40386E-01	2.25409E-03	-3.36503E-01	9.29525E 00	-1.31770E 02		
8.30	1.15481E 00	-8.33958E 00	-3.46927E-01	2.28519E-03	-3.42768E-01	9.40191E 00	-1.32350E 02		
8.40	1.15475E 00	-8.44618E 00	-3.53523E-01	2.31554E-03	-3.49088E-01	9.50855E 00	-1.32922E 02		
8.50	1.15470E 00	-8.55277E 00	-3.60173E-01	2.34517E-03	-3.55463E-01	9.61517E 00	-1.33486E 02		
8.60	1.15465E 00	-8.65934E 00	-3.66877E-01	2.37411E-03	-3.61892E-01	9.72178E 00	-1.34041E 02		
8.70	1.15460E 00	-8.76590E 00	-3.73636E-01	2.40236E-03	-3.68375E-01	9.82837E 00	-1.34588E 02		
8.80	1.15456E 00	-8.87244E 00	-3.80449E-01	2.42996E-03	-3.74912E-01	9.93493E 00	-1.35127E 02		
8.90	1.15451E 00	-8.97897E 00	-3.87316E-01	2.45693E-03	-3.81504E-01	1.00415E 01	-1.35658E 02		
9.00	1.15446E 00	-9.08548E 00	-3.94238E-01	2.48329E-03	-3.88150E-01	1.01480E 01	-1.36182E 02		
9.10	1.15442E 00	-9.19198E 00	-4.01214E-01	2.50906E-03	-3.94850E-01	1.02545E 01	-1.36699E 02		
9.20	1.15437E 00	-9.29847E 00	-4.08244E-01	2.53426E-03	-4.01605E-01	1.03610E 01	-1.37208E 02		
9.30	1.15433E 00	-9.40494E 00	-4.15329E-01	2.55890E-03	-4.08414E-01	1.04675E 01	-1.37711E 02		
9.40	1.15429E 00	-9.51140E 00	-4.22468E-01	2.58300E-03	-4.15278E-01	1.05740E 01	-1.38207E 02		
9.50	1.15425E 00	-9.61784E 00	-4.29661E-01	2.60658E-03	-4.22195E-01	1.06804E 01	-1.38696E 02		
9.60	1.15421E 00	-9.72427E 00	-4.36909E-01	2.62966E-03	-4.29167E-01	1.07868E 01	-1.39178E 02		
9.70	1.15417E 00	-9.83068E 00	-4.44211E-01	2.65225E-03	-4.36193E-01	1.08932E 01	-1.39654E 02		
9.80	1.15413E 00	-9.93708E 00	-4.51567E-01	2.67436E-03	-4.43274E-01	1.09996E 01	-1.40124E 02		
9.90	1.15409E 00	-1.00435E 01	-4.58978E-01	2.69601E-03	-4.50409E-01	1.11060E 01	-1.40587E 02		
10.00	1.15405E 00	-1.01498E 01	-4.66443E-01	2.71722E-03	-4.57598E-01	1.12124E 01	-1.41045E 02		
10.10	1.15402E 00	-1.02562E 01	-4.73962E-01	2.73800E-03	-4.64841E-01	1.13187E 01	-1.41497E 02		
10.20	1.15398E 00	-1.03625E 01	-4.81535E-01	2.75835E-03	-4.72139E-01	1.14250E 01	-1.41943E 02		
10.30	1.15395E 00	-1.04688E 01	-4.89163E-01	2.77829E-03	-4.79491E-01	1.15313E 01	-1.42383E 02		
10.40	1.15391E 00	-1.05752E 01	-4.96844E-01	2.79784E-03	-4.86897E-01	1.16376E 01	-1.42818E 02		
10.50	1.15388E 00	-1.06814E 01	-5.04580E-01	2.81700E-03	-4.94357E-01	1.17439E 01	-1.43248E 02		
10.60	1.15384E 00	-1.07877E 01	-5.12371E-01	2.83578E-03	-5.01871E-01	1.18502E 01	-1.43672E 02		
10.70	1.15381E 00	-1.08940E 01	-5.20215E-01	2.85420E-03	-5.09440E-01	1.19564E 01	-1.44091E 02		
10.80	1.15378E 00	-1.10002E 01	-5.28114E-01	2.87226E-03	-5.17063E-01	1.20626E 01	-1.44505E 02		
10.90	1.15374E 00	-1.11065E 01	-5.36067E-01	2.88998E-03	-5.24740E-01	1.21688E 01	-1.44914E 02		
11.00	1.15371E 00	-1.12127E 01	-5.44073E-01	2.90736E-03	-5.32471E-01	1.22750E 01	-1.45318E 02		
11.10	1.15368E 00	-1.13189E 01	-5.52135E-01	2.92441E-03	-5.40257E-01	1.23812E 01	-1.45718E 02		
11.20	1.15365E 00	-1.14251E 01	-5.60250E-01	2.94114E-03	-5.48096E-01	1.24873E 01	-1.46113E 02		
11.30	1.15362E 00	-1.15312E 01	-5.68420E-01	2.95756E-03	-5.55990E-01	1.25935E 01	-1.46503E 02		
11.40	1.15359E 00	-1.16374E 01	-5.76643E-01	2.97368E-03	-5.63938E-01	1.26996E 01	-1.46889E 02		
11.50	1.15356E 00	-1.17435E 01	-5.84921E-01	2.98950E-03	-5.71940E-01	1.28057E 01	-1.47271E 02		
11.60	1.15353E 00	-1.18497E 01	-5.93253E-01	3.00504E-03	-5.79996E-01	1.29118E 01	-1.47648E 02		
11.70	1.15350E 00	-1.19558E 01	-6.01639E-01	3.02029E-03	-5.88106E-01	1.30178E 01	-1.48021E 02		
11.80	1.15348E 00	-1.20619E 01	-6.10079E-01	3.03527E-03	-5.96271E-01	1.31239E 01	-1.48390E 02		
11.90	1.15345E 00	-1.21680E 01	-6.18573E-01	3.04998E-03	-6.04489E-01	1.32299E 01	-1.48754E 02		
12.00	1.15342E 00	-1.22740E 01	-6.27121E-01	3.06443E-03	-6.12762E-01	1.33359E 01	-1.49115E 02		

## ELECTRON RADIAL FUNCTIONS

 $Z=6$  $A=12$  $\rho=1.3 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	7.08310E-05	-9.38904E-02	-1.97957E-03	3.23706E 01	-1.98953E-03	1.10529E-01	-2.73000E-02
6.20	7.31671E-05	-9.71353E-02	-2.06278E-03	3.24141E 01	-2.07029E-03	1.14051E-01	-2.73165E-02
6.30	7.55411E-05	-1.00435E-01	-2.14815E-03	3.24562E 01	-2.15313E-03	1.17628E-01	-2.73326E-02
6.40	7.79529E-05	-1.03790E-01	-2.23572E-03	3.24968E 01	-2.23808E-03	1.21259E-01	-2.73484E-02
6.50	8.04028E-05	-1.07199E-01	-2.32551E-03	3.25362E 01	-2.32517E-03	1.24945E-01	-2.73639E-02
6.60	8.28906E-05	-1.10664E-01	-2.41755E-03	3.25742E 01	-2.41442E-03	1.28687E-01	-2.73790E-02
6.70	8.54163E-05	-1.14183E-01	-2.51185E-03	3.26111E 01	-2.50585E-03	1.32482E-01	-2.73939E-02
6.80	8.79800E-05	-1.17757E-01	-2.60845E-03	3.26468E 01	-2.59950E-03	1.36333E-01	-2.74085E-02
6.90	9.05817E-05	-1.21386E-01	-2.70738E-03	3.26814E 01	-2.69537E-03	1.40239E-01	-2.74227E-02
7.00	9.32213E-05	-1.25070E-01	-2.80864E-03	3.27149E 01	-2.79351E-03	1.44199E-01	-2.74367E-02
7.10	9.58988E-05	-1.28809E-01	-2.91228E-03	3.27475E 01	-2.89394E-03	1.48214E-01	-2.74504E-02
7.20	9.86143E-05	-1.32603E-01	-3.01832E-03	3.27790E 01	-2.99667E-03	1.52284E-01	-2.74639E-02
7.30	1.01368E-04	-1.36451E-01	-3.12678E-03	3.28097E 01	-3.10175E-03	1.56409E-01	-2.74770E-02
7.40	1.04159E-04	-1.40355E-01	-3.23769E-03	3.28395E 01	-3.20918E-03	1.60588E-01	-2.74900E-02
7.50	1.06988E-04	-1.44313E-01	-3.35107E-03	3.28684E 01	-3.31901E-03	1.64823E-01	-2.75026E-02
7.60	1.09856E-04	-1.48326E-01	-3.46694E-03	3.28966E 01	-3.43124E-03	1.69112E-01	-2.75151E-02
7.70	1.12761E-04	-1.52394E-01	-3.58534E-03	3.29239E 01	-3.54591E-03	1.73455E-01	-2.75272E-02
7.80	1.15704E-04	-1.56516E-01	-3.70629E-03	3.29505E 01	-3.66305E-03	1.77854E-01	-2.75392E-02
7.90	1.18685E-04	-1.60694E-01	-3.82981E-03	3.29764E 01	-3.78267E-03	1.82307E-01	-2.75509E-02
8.00	1.21704E-04	-1.64926E-01	-3.95593E-03	3.30016E 01	-3.90481E-03	1.86815E-01	-2.75624E-02
8.10	1.24761E-04	-1.69213E-01	-4.08467E-03	3.30261E 01	-4.02949E-03	1.91378E-01	-2.75737E-02
8.20	1.27856E-04	-1.73555E-01	-4.21607E-03	3.30500E 01	-4.15673E-03	1.95995E-01	-2.75848E-02
8.30	1.30988E-04	-1.77951E-01	-4.35013E-03	3.30733E 01	-4.28656E-03	2.00667E-01	-2.75957E-02
8.40	1.34159E-04	-1.82403E-01	-4.48690E-03	3.30961E 01	-4.41900E-03	2.05394E-01	-2.76064E-02
8.50	1.37368E-04	-1.86909E-01	-4.62639E-03	3.31182E 01	-4.55409E-03	2.10176E-01	-2.76169E-02
8.60	1.40614E-04	-1.91470E-01	-4.76864E-03	3.31398E 01	-4.69184E-03	2.15012E-01	-2.76272E-02
8.70	1.43899E-04	-1.96085E-01	-4.91365E-03	3.31609E 01	-4.83228E-03	2.19903E-01	-2.76373E-02
8.80	1.47221E-04	-2.00756E-01	-5.06147E-03	3.31814E 01	-4.97544E-03	2.24849E-01	-2.76472E-02
8.90	1.50582E-04	-2.05481E-01	-5.21212E-03	3.32015E 01	-5.12133E-03	2.29849E-01	-2.76570E-02
9.00	1.53980E-04	-2.10260E-01	-5.36561E-03	3.32211E 01	-5.26999E-03	2.34904E-01	-2.76666E-02
9.10	1.57416E-04	-2.15095E-01	-5.52198E-03	3.32402E 01	-5.42145E-03	2.40014E-01	-2.76760E-02
9.20	1.60891E-04	-2.19984E-01	-5.68125E-03	3.32589E 01	-5.57572E-03	2.45178E-01	-2.76853E-02
9.30	1.64403E-04	-2.24928E-01	-5.84345E-03	3.32772E 01	-5.73283E-03	2.50397E-01	-2.76944E-02
9.40	1.67953E-04	-2.29927E-01	-6.00860E-03	3.32950E 01	-5.89281E-03	2.55671E-01	-2.77033E-02
9.50	1.71541E-04	-2.34980E-01	-6.17673E-03	3.33125E 01	-6.05568E-03	2.60999E-01	-2.77121E-02
9.60	1.75167E-04	-2.40088E-01	-6.34786E-03	3.33296E 01	-6.22147E-03	2.66382E-01	-2.77207E-02
9.70	1.78831E-04	-2.45251E-01	-6.52202E-03	3.33463E 01	-6.39020E-03	2.71820E-01	-2.77293E-02
9.80	1.82532E-04	-2.50468E-01	-6.69923E-03	3.33626E 01	-6.56190E-03	2.77312E-01	-2.77376E-02
9.90	1.86272E-04	-2.55740E-01	-6.87952E-03	3.33786E 01	-6.73659E-03	2.82859E-01	-2.77458E-02
10.00	1.90050E-04	-2.61067E-01	-7.06291E-03	3.33943E 01	-6.91430E-03	2.88461E-01	-2.77539E-02
10.10	1.93865E-04	-2.66448E-01	-7.24943E-03	3.34096E 01	-7.09505E-03	2.94117E-01	-2.77619E-02
10.20	1.97719E-04	-2.71884E-01	-7.43910E-03	3.34246E 01	-7.27887E-03	2.99827E-01	-2.77697E-02
10.30	2.01610E-04	-2.77375E-01	-7.63195E-03	3.34393E 01	-7.46579E-03	3.05593E-01	-2.77774E-02
10.40	2.05540E-04	-2.82920E-01	-7.82801E-03	3.34537E 01	-7.65582E-03	3.11413E-01	-2.77850E-02
10.50	2.09507E-04	-2.88520E-01	-8.02729E-03	3.34678E 01	-7.84900E-03	3.17287E-01	-2.77924E-02
10.60	2.13512E-04	-2.94175E-01	-8.22983E-03	3.34817E 01	-8.04534E-03	3.23216E-01	-2.77998E-02
10.70	2.17555E-04	-2.99884E-01	-8.43565E-03	3.34952E 01	-8.24489E-03	3.29200E-01	-2.78070E-02
10.80	2.21636E-04	-3.05647E-01	-8.64477E-03	3.35085E 01	-8.44765E-03	3.35238E-01	-2.78141E-02
10.90	2.25755E-04	-3.11466E-01	-8.85722E-03	3.35215E 01	-8.65365E-03	3.41331E-01	-2.78211E-02
11.00	2.29912E-04	-3.17339E-01	-9.07302E-03	3.35343E 01	-8.86293E-03	3.47478E-01	-2.78280E-02
11.10	2.34107E-04	-3.23266E-01	-9.29221E-03	3.35469E 01	-9.07550E-03	3.53680E-01	-2.78348E-02
11.20	2.38340E-04	-3.29248E-01	-9.51480E-03	3.35592E 01	-9.29139E-03	3.59937E-01	-2.78415E-02
11.30	2.42611E-04	-3.35285E-01	-9.74081E-03	3.35713E 01	-9.51062E-03	3.66248E-01	-2.78481E-02
11.40	2.46919E-04	-3.41376E-01	-9.97029E-03	3.35831E 01	-9.73323E-03	3.72613E-01	-2.78546E-02
11.50	2.51266E-04	-3.47522E-01	-1.02032E-02	3.35947E 01	-9.95923E-03	3.79033E-01	-2.78610E-02
11.60	2.55650E-04	-3.53722E-01	-1.04397E-02	3.36062E 01	-1.01886E-02	3.85507E-01	-2.78673E-02
11.70	2.60073E-04	-3.59977E-01	-1.06797E-02	3.36174E 01	-1.04215E-02	3.92036E-01	-2.78735E-02
11.80	2.64533E-04	-3.66286E-01	-1.09232E-02	3.36284E 01	-1.06579E-02	3.98620E-01	-2.78797E-02
11.90	2.69031E-04	-3.72650E-01	-1.11704E-02	3.36392E 01	-1.08977E-02	4.05258E-01	-2.78857E-02
12.00	2.73568E-04	-3.79068E-01	-1.14211E-02	3.36499E 01	-1.11410E-02	4.11950E-01	-2.78916E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$		$A=12$		$\rho=1.3 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	1.15339E 00	-1.23801E 01	-6.35724E-01	3.07863E-03	-6.21089E-01	1.34419E 01	-1.49472E 02	02
12.20	1.15337E 00	-1.24861E 01	-6.44380E-01	3.09257E-03	-6.29470E-01	1.35479E 01	-1.49826E 02	02
12.30	1.15334E 00	-1.25921E 01	-6.53090E-01	3.10628E-03	-6.37904E-01	1.36539E 01	-1.50175E 02	02
12.40	1.15331E 00	-1.26981E 01	-6.61855E-01	3.11975E-03	-6.46393E-01	1.37599E 01	-1.50521E 02	02
12.50	1.15329E 00	-1.28041E 01	-6.70673E-01	3.13299E-03	-6.54936E-01	1.38658E 01	-1.50863E 02	02
12.60	1.15326E 00	-1.29101E 01	-6.79546E-01	3.14600E-03	-6.63533E-01	1.39717E 01	-1.51202E 02	02
12.70	1.15324E 00	-1.30160E 01	-6.88472E-01	3.15879E-03	-6.72184E-01	1.40776E 01	-1.51537E 02	02
12.80	1.15321E 00	-1.31219E 01	-6.97453E-01	3.17136E-03	-6.80889E-01	1.41835E 01	-1.51869E 02	02
12.90	1.15319E 00	-1.32279E 01	-7.06488E-01	3.18374E-03	-6.89648E-01	1.42894E 01	-1.52197E 02	02
13.00	1.15316E 00	-1.33338E 01	-7.15576E-01	3.19588E-03	-6.98461E-01	1.43952E 01	-1.52523E 02	02
13.10	1.15314E 00	-1.34397E 01	-7.24719E-01	3.20784E-03	-7.07328E-01	1.45010E 01	-1.52845E 02	02
13.20	1.15312E 00	-1.35455E 01	-7.33915E-01	3.21960E-03	-7.16249E-01	1.46068E 01	-1.53163E 02	02
13.30	1.15309E 00	-1.36514E 01	-7.43165E-01	3.23117E-03	-7.25224E-01	1.47126E 01	-1.53479E 02	02
13.40	1.15307E 00	-1.37572E 01	-7.52470E-01	3.24255E-03	-7.34253E-01	1.48184E 01	-1.53792E 02	02
13.50	1.15305E 00	-1.38630E 01	-7.61828E-01	3.25373E-03	-7.43336E-01	1.49242E 01	-1.54102E 02	02
13.60	1.15303E 00	-1.39689E 01	-7.71241E-01	3.26474E-03	-7.52472E-01	1.50299E 01	-1.54409E 02	02
13.70	1.15300E 00	-1.40746E 01	-7.80707E-01	3.27558E-03	-7.61663E-01	1.51357E 01	-1.54713E 02	02
13.80	1.15298E 00	-1.41804E 01	-7.90227E-01	3.28625E-03	-7.70908E-01	1.52414E 01	-1.55014E 02	02
13.90	1.15296E 00	-1.42862E 01	-7.99801E-01	3.29673E-03	-7.80206E-01	1.53471E 01	-1.55312E 02	02
14.00	1.15294E 00	-1.43919E 01	-8.09429E-01	3.30706E-03	-7.89559E-01	1.54528E 01	-1.55608E 02	02
14.10	1.15292E 00	-1.44976E 01	-8.19110E-01	3.31722E-03	-7.98965E-01	1.55584E 01	-1.55901E 02	02
14.20	1.15290E 00	-1.46033E 01	-8.28846E-01	3.32722E-03	-8.08425E-01	1.56641E 01	-1.56191E 02	02
14.30	1.15288E 00	-1.47090E 01	-8.38635E-01	3.33708E-03	-8.17939E-01	1.57697E 01	-1.56479E 02	02
14.40	1.15286E 00	-1.48147E 01	-8.48478E-01	3.34676E-03	-8.27507E-01	1.58753E 01	-1.56764E 02	02
14.50	1.15284E 00	-1.49204E 01	-8.58376E-01	3.35631E-03	-8.37129E-01	1.59809E 01	-1.57047E 02	02
14.60	1.15282E 00	-1.50260E 01	-8.68326E-01	3.36570E-03	-8.46805E-01	1.60864E 01	-1.57327E 02	02
14.70	1.15280E 00	-1.51316E 01	-8.78331E-01	3.37495E-03	-8.56534E-01	1.61920E 01	-1.57605E 02	02
14.80	1.15278E 00	-1.52372E 01	-8.88390E-01	3.38406E-03	-8.66317E-01	1.62975E 01	-1.57881E 02	02
14.90	1.15276E 00	-1.53428E 01	-8.98502E-01	3.39303E-03	-8.76154E-01	1.64031E 01	-1.58154E 02	02
15.00	1.15274E 00	-1.54484E 01	-9.08668E-01	3.40187E-03	-8.86045E-01	1.65086E 01	-1.58425E 02	02
15.10	1.15272E 00	-1.55539E 01	-9.18888E-01	3.41056E-03	-8.95990E-01	1.66140E 01	-1.58694E 02	02
15.20	1.15270E 00	-1.56595E 01	-9.29161E-01	3.41914E-03	-9.05988E-01	1.67195E 01	-1.58960E 02	02
15.30	1.15268E 00	-1.57650E 01	-9.39489E-01	3.42758E-03	-9.16040E-01	1.68249E 01	-1.59225E 02	02
15.40	1.15266E 00	-1.58705E 01	-9.49870E-01	3.43589E-03	-9.26146E-01	1.69304E 01	-1.59487E 02	02
15.50	1.15264E 00	-1.59760E 01	-9.60304E-01	3.44408E-03	-9.36306E-01	1.70358E 01	-1.59747E 02	02
15.60	1.15262E 00	-1.60814E 01	-9.70793E-01	3.45216E-03	-9.46519E-01	1.71412E 01	-1.60005E 02	02
15.70	1.15261E 00	-1.61869E 01	-9.81335E-01	3.46010E-03	-9.56786E-01	1.72466E 01	-1.60261E 02	02
15.80	1.15259E 00	-1.62923E 01	-9.91931E-01	3.46794E-03	-9.67107E-01	1.73519E 01	-1.60515E 02	02
15.90	1.15257E 00	-1.63977E 01	-1.00258E 00	3.47565E-03	-9.77482E-01	1.74573E 01	-1.60767E 02	02
16.00	1.15255E 00	-1.65031E 01	-1.01328E 00	3.48325E-03	-9.87910E-01	1.75626E 01	-1.61018E 02	02
16.10	1.15254E 00	-1.66085E 01	-1.02404E 00	3.49075E-03	-9.98392E-01	1.76679E 01	-1.61266E 02	02
16.20	1.15252E 00	-1.67139E 01	-1.03485E 00	3.49813E-03	-1.00893E 00	1.77732E 01	-1.61513E 02	02
16.30	1.15250E 00	-1.68192E 01	-1.04572E 00	3.50541E-03	-1.01952E 00	1.78784E 01	-1.61757E 02	02
16.40	1.15249E 00	-1.69246E 01	-1.05663E 00	3.51258E-03	-1.03016E 00	1.79837E 01	-1.62000E 02	02
16.50	1.15247E 00	-1.70299E 01	-1.06760E 00	3.51964E-03	-1.04086E 00	1.80889E 01	-1.62241E 02	02
16.60	1.15245E 00	-1.71352E 01	-1.07863E 00	3.52661E-03	-1.05161E 00	1.81941E 01	-1.62481E 02	02
16.70	1.15244E 00	-1.72404E 01	-1.08971E 00	3.53348E-03	-1.06241E 00	1.82993E 01	-1.62718E 02	02
16.80	1.15242E 00	-1.73457E 01	-1.10084E 00	3.54024E-03	-1.07327E 00	1.84045E 01	-1.62954E 02	02
16.90	1.15240E 00	-1.74509E 01	-1.11203E 00	3.54690E-03	-1.08418E 00	1.85097E 01	-1.63188E 02	02
17.00	1.15239E 00	-1.75561E 01	-1.12327E 00	3.55348E-03	-1.09514E 00	1.86148E 01	-1.63421E 02	02
17.10	1.15237E 00	-1.76613E 01	-1.13456E 00	3.55996E-03	-1.10616E 00	1.87199E 01	-1.63652E 02	02
17.20	1.15235E 00	-1.77665E 01	-1.14590E 00	3.56635E-03	-1.11723E 00	1.88250E 01	-1.63882E 02	02
17.30	1.15234E 00	-1.78717E 01	-1.15730E 00	3.57264E-03	-1.12836E 00	1.89301E 01	-1.64110E 02	02
17.40	1.15232E 00	-1.79768E 01	-1.16876E 00	3.57885E-03	-1.13953E 00	1.90352E 01	-1.64336E 02	02
17.50	1.15231E 00	-1.80819E 01	-1.18026E 00	3.58497E-03	-1.15077E 00	1.91402E 01	-1.64561E 02	02
17.60	1.15229E 00	-1.81871E 01	-1.19182E 00	3.59100E-03	-1.16205E 00	1.92452E 01	-1.64785E 02	02
17.70	1.15228E 00	-1.82921E 01	-1.20344E 00	3.59695E-03	-1.17339E 00	1.93502E 01	-1.65007E 02	02
17.80	1.15226E 00	-1.83972E 01	-1.21511E 00	3.60282E-03	-1.18478E 00	1.94552E 01	-1.65227E 02	02
17.90	1.15225E 00	-1.85023E 01	-1.22683E 00	3.60860E-03	-1.19623E 00	1.95602E 01	-1.65447E 02	02
18.00	1.15223E 00	-1.86073E 01	-1.23860E 00	3.61430E-03	-1.20773E 00	1.96651E 01	-1.65664E 02	02

## ELECTRON RADIAL FUNCTIONS

 $Z=6$  $A=12$  $\rho=1.3 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	2.78142E-04	-3.85542E-01	-1.16755E-02	3.36603E 01	-1.13880E-02	4.18698E-01	-2.78975E-02
12.20	2.82754E-04	-3.92069E-01	-1.19335E-02	3.36706E 01	-1.16384E-02	4.25499E-01	-2.79033E-02
12.30	2.87404E-04	-3.98651E-01	-1.21952E-02	3.36807E 01	-1.18925E-02	4.32355E-01	-2.79090E-02
12.40	2.92092E-04	-4.05287E-01	-1.24606E-02	3.36906E 01	-1.21502E-02	4.39265E-01	-2.79146E-02
12.50	2.96818E-04	-4.11978E-01	-1.27297E-02	3.37003E 01	-1.24115E-02	4.46230E-01	-2.79202E-02
12.60	3.01581E-04	-4.18723E-01	-1.30026E-02	3.37099E 01	-1.26765E-02	4.53249E-01	-2.79256E-02
12.70	3.06383E-04	-4.25523E-01	-1.32793E-02	3.37194E 01	-1.29452E-02	4.60323E-01	-2.79310E-02
12.80	3.11222E-04	-4.32377E-01	-1.35598E-02	3.37286E 01	-1.32177E-02	4.67451E-01	-2.79364E-02
12.90	3.16100E-04	-4.39286E-01	-1.38441E-02	3.37378E 01	-1.34938E-02	4.74633E-01	-2.79416E-02
13.00	3.21015E-04	-4.46249E-01	-1.41322E-02	3.37467E 01	-1.37738E-02	4.81870E-01	-2.79468E-02
13.10	3.25969E-04	-4.53267E-01	-1.44243E-02	3.37556E 01	-1.40575E-02	4.89161E-01	-2.79519E-02
13.20	3.30960E-04	-4.60339E-01	-1.47202E-02	3.37643E 01	-1.43451E-02	4.96507E-01	-2.79569E-02
13.30	3.35989E-04	-4.67465E-01	-1.50201E-02	3.37728E 01	-1.46365E-02	5.03907E-01	-2.79619E-02
13.40	3.41056E-04	-4.74646E-01	-1.53240E-02	3.37813E 01	-1.49318E-02	5.11361E-01	-2.79668E-02
13.50	3.46161E-04	-4.81881E-01	-1.56318E-02	3.37895E 01	-1.52310E-02	5.18870E-01	-2.79717E-02
13.60	3.51304E-04	-4.89171E-01	-1.59436E-02	3.37977E 01	-1.55341E-02	5.26433E-01	-2.79764E-02
13.70	3.56485E-04	-4.96515E-01	-1.62595E-02	3.38058E 01	-1.58411E-02	5.34051E-01	-2.79812E-02
13.80	3.61704E-04	-5.03913E-01	-1.65794E-02	3.38137E 01	-1.61521E-02	5.41722E-01	-2.79858E-02
13.90	3.66960E-04	-5.11366E-01	-1.69034E-02	3.38215E 01	-1.64671E-02	5.49448E-01	-2.79904E-02
14.00	3.72255E-04	-5.18873E-01	-1.72315E-02	3.38291E 01	-1.67862E-02	5.57229E-01	-2.79950E-02
14.10	3.77587E-04	-5.26434E-01	-1.75638E-02	3.38367E 01	-1.71093E-02	5.65064E-01	-2.79995E-02
14.20	3.82958E-04	-5.34050E-01	-1.79002E-02	3.38442E 01	-1.74364E-02	5.72953E-01	-2.80039E-02
14.30	3.88366E-04	-5.41720E-01	-1.82407E-02	3.38515E 01	-1.77677E-02	5.80896E-01	-2.80083E-02
14.40	3.93812E-04	-5.49444E-01	-1.85855E-02	3.38588E 01	-1.81031E-02	5.88894E-01	-2.80126E-02
14.50	3.99297E-04	-5.57223E-01	-1.89345E-02	3.38659E 01	-1.84426E-02	5.96946E-01	-2.80169E-02
14.60	4.04819E-04	-5.65056E-01	-1.92878E-02	3.38729E 01	-1.87863E-02	6.05052E-01	-2.80211E-02
14.70	4.10379E-04	-5.72943E-01	-1.96454E-02	3.38798E 01	-1.91342E-02	6.13212E-01	-2.80253E-02
14.80	4.15977E-04	-5.80885E-01	-2.00072E-02	3.38867E 01	-1.94863E-02	6.21427E-01	-2.80294E-02
14.90	4.21612E-04	-5.88881E-01	-2.03734E-02	3.38934E 01	-1.98427E-02	6.29696E-01	-2.80335E-02
15.00	4.27286E-04	-5.96931E-01	-2.07440E-02	3.39001E 01	-2.02033E-02	6.38019E-01	-2.80375E-02
15.10	4.32998E-04	-6.05035E-01	-2.11189E-02	3.39066E 01	-2.05682E-02	6.46397E-01	-2.80415E-02
15.20	4.38747E-04	-6.13194E-01	-2.14982E-02	3.39131E 01	-2.09375E-02	6.54829E-01	-2.80454E-02
15.30	4.44535E-04	-6.21407E-01	-2.18820E-02	3.39194E 01	-2.13111E-02	6.63314E-01	-2.80493E-02
15.40	4.50360E-04	-6.29674E-01	-2.22702E-02	3.39257E 01	-2.16891E-02	6.71855E-01	-2.80531E-02
15.50	4.56224E-04	-6.37996E-01	-2.26629E-02	3.39319E 01	-2.20715E-02	6.80449E-01	-2.80569E-02
15.60	4.62125E-04	-6.46371E-01	-2.30601E-02	3.39381E 01	-2.24583E-02	6.89098E-01	-2.80606E-02
15.70	4.68064E-04	-6.54801E-01	-2.34619E-02	3.39441E 01	-2.28495E-02	6.97800E-01	-2.80644E-02
15.80	4.74041E-04	-6.63285E-01	-2.38682E-02	3.39500E 01	-2.32452E-02	7.06557E-01	-2.80680E-02
15.90	4.80056E-04	-6.71824E-01	-2.42791E-02	3.39559E 01	-2.36454E-02	7.15368E-01	-2.80716E-02
16.00	4.86109E-04	-6.80416E-01	-2.46945E-02	3.39617E 01	-2.40501E-02	7.24233E-01	-2.80752E-02
16.10	4.92200E-04	-6.89062E-01	-2.51147E-02	3.39675E 01	-2.44594E-02	7.33152E-01	-2.80788E-02
16.20	4.98328E-04	-6.97763E-01	-2.55394E-02	3.39731E 01	-2.48733E-02	7.42126E-01	-2.80823E-02
16.30	5.04495E-04	-7.06518E-01	-2.59689E-02	3.39787E 01	-2.52917E-02	7.51154E-01	-2.80857E-02
16.40	5.10699E-04	-7.15327E-01	-2.64030E-02	3.39842E 01	-2.57148E-02	7.60235E-01	-2.80892E-02
16.50	5.16942E-04	-7.24190E-01	-2.68419E-02	3.39896E 01	-2.61425E-02	7.69371E-01	-2.80925E-02
16.60	5.23222E-04	-7.33108E-01	-2.72856E-02	3.39950E 01	-2.65749E-02	7.78561E-01	-2.80959E-02
16.70	5.29541E-04	-7.42079E-01	-2.77340E-02	3.40003E 01	-2.70119E-02	7.87805E-01	-2.80992E-02
16.80	5.35897E-04	-7.51105E-01	-2.81872E-02	3.40056E 01	-2.74537E-02	7.97103E-01	-2.81025E-02
16.90	5.42291E-04	-7.60185E-01	-2.86453E-02	3.40107E 01	-2.79003E-02	8.06455E-01	-2.81057E-02
17.00	5.48723E-04	-7.69318E-01	-2.91082E-02	3.40158E 01	-2.83516E-02	8.15861E-01	-2.81089E-02
17.10	5.55193E-04	-7.78506E-01	-2.95760E-02	3.40209E 01	-2.88077E-02	8.25322E-01	-2.81121E-02
17.20	5.61701E-04	-7.87748E-01	-3.00487E-02	3.40259E 01	-2.92687E-02	8.34836E-01	-2.81153E-02
17.30	5.68246E-04	-7.97044E-01	-3.05263E-02	3.40308E 01	-2.97344E-02	8.44404E-01	-2.81184E-02
17.40	5.74830E-04	-8.06394E-01	-3.10089E-02	3.40357E 01	-3.02051E-02	8.54027E-01	-2.81214E-02
17.50	5.81451E-04	-8.15798E-01	-3.14964E-02	3.40405E 01	-3.06806E-02	8.63703E-01	-2.81245E-02
17.60	5.88111E-04	-8.25257E-01	-3.19890E-02	3.40452E 01	-3.11611E-02	8.73434E-01	-2.81275E-02
17.70	5.94808E-04	-8.34769E-01	-3.24866E-02	3.40499E 01	-3.16465E-02	8.83218E-01	-2.81305E-02
17.80	6.01544E-04	-8.44335E-01	-3.29892E-02	3.40546E 01	-3.21369E-02	8.93056E-01	-2.81334E-02
17.90	6.08317E-04	-8.53955E-01	-3.34970E-02	3.40591E 01	-3.26322E-02	9.02949E-01	-2.81364E-02
18.00	6.15128E-04	-8.63629E-01	-3.40098E-02	3.40637E 01	-3.31326E-02	9.12895E-01	-2.81393E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$		$A=12$		$\rho=1.3 A^{1/3} F$			
$\rho$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	1.15222E 00	-1.87123E 01	-1.25043E 00	3.61992E-03	-1.21928E 00	1.97701E 01	-1.65881E 02	
18.20	1.15220E 00	-1.88173E 01	-1.26231E 00	3.62546E-03	-1.23089E 00	1.98750E 01	-1.66096E 02	
18.30	1.15219E 00	-1.89223E 01	-1.27424E 00	3.63092E-03	-1.24255E 00	1.99799E 01	-1.66310E 02	
18.40	1.15217E 00	-1.90273E 01	-1.28623E 00	3.63631E-03	-1.25426E 00	2.00848E 01	-1.66522E 02	
18.50	1.15216E 00	-1.91322E 01	-1.29827E 00	3.64162E-03	-1.26603E 00	2.01896E 01	-1.66734E 02	
18.60	1.15214E 00	-1.92371E 01	-1.31037E 00	3.64686E-03	-1.27785E 00	2.02944E 01	-1.66944E 02	
18.70	1.15213E 00	-1.93420E 01	-1.32252E 00	3.65202E-03	-1.28972E 00	2.03993E 01	-1.67153E 02	
18.80	1.15212E 00	-1.94469E 01	-1.33472E 00	3.65712E-03	-1.30165E 00	2.05041E 01	-1.67360E 02	
18.90	1.15210E 00	-1.95518E 01	-1.34697E 00	3.66214E-03	-1.31363E 00	2.06088E 01	-1.67566E 02	
19.00	1.15209E 00	-1.96566E 01	-1.35928E 00	3.66709E-03	-1.32566E 00	2.07136E 01	-1.67772E 02	
19.10	1.15207E 00	-1.97614E 01	-1.37164E 00	3.67198E-03	-1.33775E 00	2.08183E 01	-1.67976E 02	
19.20	1.15206E 00	-1.98662E 01	-1.38405E 00	3.67679E-03	-1.34989E 00	2.09230E 01	-1.68179E 02	
19.30	1.15205E 00	-1.99710E 01	-1.39652E 00	3.68154E-03	-1.36208E 00	2.10277E 01	-1.68380E 02	
19.40	1.15203E 00	-2.00758E 01	-1.40904E 00	3.68622E-03	-1.37433E 00	2.11324E 01	-1.68581E 02	
19.50	1.15202E 00	-2.01805E 01	-1.42162E 00	3.69084E-03	-1.38663E 00	2.12371E 01	-1.68781E 02	
19.60	1.15201E 00	-2.02853E 01	-1.43424E 00	3.69540E-03	-1.39898E 00	2.13417E 01	-1.68979E 02	
19.70	1.15199E 00	-2.03900E 01	-1.44692E 00	3.69989E-03	-1.41139E 00	2.14463E 01	-1.69177E 02	
19.80	1.15198E 00	-2.04946E 01	-1.45966E 00	3.70431E-03	-1.42385E 00	2.15509E 01	-1.69373E 02	
19.90	1.15197E 00	-2.05993E 01	-1.47245E 00	3.70868E-03	-1.43636E 00	2.16555E 01	-1.69569E 02	
20.00	1.15196E 00	-2.07040E 01	-1.48529E 00	3.71298E-03	-1.44893E 00	2.17601E 01	-1.69763E 02	
20.10	1.15194E 00	-2.08086E 01	-1.49818E 00	3.71723E-03	-1.46155E 00	2.18646E 01	-1.69957E 02	
20.20	1.15193E 00	-2.09132E 01	-1.51113E 00	3.72142E-03	-1.47422E 00	2.19691E 01	-1.70149E 02	
20.30	1.15192E 00	-2.10178E 01	-1.52413E 00	3.72554E-03	-1.48694E 00	2.20736E 01	-1.70341E 02	
20.40	1.15190E 00	-2.11224E 01	-1.53718E 00	3.72962E-03	-1.49972E 00	2.21781E 01	-1.70531E 02	
20.50	1.15189E 00	-2.12269E 01	-1.55028E 00	3.73362E-03	-1.51255E 00	2.22825E 01	-1.70721E 02	
20.60	1.15188E 00	-2.13314E 01	-1.56344E 00	3.73758E-03	-1.52544E 00	2.23870E 01	-1.70910E 02	
20.70	1.15187E 00	-2.14359E 01	-1.57665E 00	3.74149E-03	-1.53838E 00	2.24914E 01	-1.71097E 02	
20.80	1.15185E 00	-2.15404E 01	-1.58992E 00	3.74533E-03	-1.55137E 00	2.25958E 01	-1.71284E 02	
20.90	1.15184E 00	-2.16449E 01	-1.60324E 00	3.74912E-03	-1.56441E 00	2.27001E 01	-1.71471E 02	
21.00	1.15183E 00	-2.17493E 01	-1.61661E 00	3.75287E-03	-1.57751E 00	2.28045E 01	-1.71656E 02	
21.10	1.15182E 00	-2.18538E 01	-1.63003E 00	3.75655E-03	-1.59066E 00	2.29088E 01	-1.71840E 02	
21.20	1.15181E 00	-2.19582E 01	-1.64351E 00	3.76018E-03	-1.60386E 00	2.30131E 01	-1.72024E 02	
21.30	1.15179E 00	-2.20626E 01	-1.65704E 00	3.76377E-03	-1.61712E 00	2.31174E 01	-1.72207E 02	
21.40	1.15178E 00	-2.21669E 01	-1.67063E 00	3.76730E-03	-1.63043E 00	2.32217E 01	-1.72389E 02	
21.50	1.15177E 00	-2.22713E 01	-1.68426E 00	3.77079E-03	-1.64379E 00	2.33259E 01	-1.72570E 02	
21.60	1.15176E 00	-2.23756E 01	-1.69795E 00	3.77422E-03	-1.65721E 00	2.34302E 01	-1.72750E 02	
21.70	1.15175E 00	-2.24799E 01	-1.71169E 00	3.77760E-03	-1.67068E 00	2.35344E 01	-1.72930E 02	
21.80	1.15173E 00	-2.25842E 01	-1.72549E 00	3.78094E-03	-1.68420E 00	2.36386E 01	-1.73109E 02	
21.90	1.15172E 00	-2.26884E 01	-1.73934E 00	3.78423E-03	-1.69777E 00	2.37427E 01	-1.73287E 02	
22.00	1.15171E 00	-2.27927E 01	-1.75324E 00	3.78748E-03	-1.71140E 00	2.38469E 01	-1.73465E 02	
22.10	1.15170E 00	-2.28969E 01	-1.76719E 00	3.79067E-03	-1.72508E 00	2.39510E 01	-1.73641E 02	
22.20	1.15169E 00	-2.30011E 01	-1.78120E 00	3.79383E-03	-1.73881E 00	2.40551E 01	-1.73817E 02	
22.30	1.15168E 00	-2.31053E 01	-1.79526E 00	3.79692E-03	-1.75260E 00	2.41592E 01	-1.73993E 02	
22.40	1.15167E 00	-2.32094E 01	-1.80937E 00	3.79999E-03	-1.76644E 00	2.42632E 01	-1.74167E 02	
22.50	1.15166E 00	-2.33135E 01	-1.82354E 00	3.80300E-03	-1.78033E 00	2.43673E 01	-1.74342E 02	
22.60	1.15164E 00	-2.34177E 01	-1.83776E 00	3.80597E-03	-1.79428E 00	2.44713E 01	-1.74515E 02	
22.70	1.15163E 00	-2.35217E 01	-1.85203E 00	3.80890E-03	-1.80827E 00	2.45753E 01	-1.74688E 02	
22.80	1.15162E 00	-2.36258E 01	-1.86635E 00	3.81178E-03	-1.82233E 00	2.46792E 01	-1.74860E 02	
22.90	1.15161E 00	-2.37299E 01	-1.88073E 00	3.81462E-03	-1.83643E 00	2.47832E 01	-1.75031E 02	
23.00	1.15160E 00	-2.38339E 01	-1.89516E 00	3.81743E-03	-1.85058E 00	2.48871E 01	-1.75202E 02	
23.10	1.15159E 00	-2.39379E 01	-1.90964E 00	3.82018E-03	-1.86479E 00	2.49910E 01	-1.75372E 02	
23.20	1.15158E 00	-2.40419E 01	-1.92417E 00	3.82290E-03	-1.87906E 00	2.50949E 01	-1.75542E 02	
23.30	1.15157E 00	-2.41458E 01	-1.93876E 00	3.82558E-03	-1.89337E 00	2.51988E 01	-1.75711E 02	
23.40	1.15156E 00	-2.42498E 01	-1.95340E 00	3.82822E-03	-1.90774E 00	2.53026E 01	-1.75879E 02	
23.50	1.15155E 00	-2.43537E 01	-1.96810E 00	3.83082E-03	-1.92216E 00	2.54064E 01	-1.76047E 02	
23.60	1.15154E 00	-2.44576E 01	-1.98284E 00	3.83337E-03	-1.93663E 00	2.55102E 01	-1.76215E 02	
23.70	1.15153E 00	-2.45615E 01	-1.99764E 00	3.83590E-03	-1.95116E 00	2.56140E 01	-1.76381E 02	
23.80	1.15152E 00	-2.46653E 01	-2.01249E 00	3.83837E-03	-1.96573E 00	2.57178E 01	-1.76548E 02	
23.90	1.15150E 00	-2.47692E 01	-2.02740E 00	3.84082E-03	-1.98036E 00	2.58215E 01	-1.76713E 02	
24.00	1.15149E 00	-2.48730E 01	-2.04235E 00	3.84323E-03	-1.99505E 00	2.59252E 01	-1.76879E 02	

ELECTRON RADIAL FUNCTIONS

		$Z=6$		$A=12$		$\rho=1.3 A^{1/3} F$		Electron	
$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$		
18.10	6.21977E-04	-8.73358E-01	-3.45278E-02	3.40682E 01	-3.36381E-02	9.22896E-01	-2.81421E-02		
18.20	6.28864E-04	-8.83140E-01	-3.50509E-02	3.40726E 01	-3.41486E-02	9.32950E-01	-2.81449E-02		
18.30	6.35789E-04	-8.92977E-01	-3.55792E-02	3.40770E 01	-3.46642E-02	9.43058E-01	-2.81477E-02		
18.40	6.42752E-04	-9.02867E-01	-3.61126E-02	3.40813E 01	-3.51849E-02	9.53220E-01	-2.81505E-02		
18.50	6.49752E-04	-9.12811E-01	-3.66514E-02	3.40856E 01	-3.57107E-02	9.63436E-01	-2.81533E-02		
18.60	6.56791E-04	-9.22809E-01	-3.71953E-02	3.40898E 01	-3.62417E-02	9.73707E-01	-2.81560E-02		
18.70	6.63867E-04	-9.32861E-01	-3.77446E-02	3.40940E 01	-3.67780E-02	9.84030E-01	-2.81587E-02		
18.80	6.70982E-04	-9.42967E-01	-3.82991E-02	3.40982E 01	-3.73194E-02	9.94408E-01	-2.81614E-02		
18.90	6.78134E-04	-9.53127E-01	-3.88590E-02	3.41022E 01	-3.78661E-02	1.00484E 00	-2.81640E-02		
19.00	6.85324E-04	-9.63340E-01	-3.94242E-02	3.41063E 01	-3.84180E-02	1.01533E 00	-2.81666E-02		
19.10	6.92552E-04	-9.73608E-01	-3.99948E-02	3.41103E 01	-3.89752E-02	1.02586E 00	-2.81692E-02		
19.20	6.99818E-04	-9.83930E-01	-4.05708E-02	3.41143E 01	-3.95378E-02	1.03646E 00	-2.81718E-02		
19.30	7.07122E-04	-9.94305E-01	-4.11522E-02	3.41182E 01	-4.01057E-02	1.04710E 00	-2.81743E-02		
19.40	7.14464E-04	-1.00473E 00	-4.17391E-02	3.41221E 01	-4.06789E-02	1.05781E 00	-2.81769E-02		
19.50	7.21844E-04	-1.01522E 00	-4.23314E-02	3.41259E 01	-4.12576E-02	1.06856E 00	-2.81794E-02		
19.60	7.29262E-04	-1.02575E 00	-4.29292E-02	3.41297E 01	-4.18416E-02	1.07937E 00	-2.81818E-02		
19.70	7.36717E-04	-1.03634E 00	-4.35326E-02	3.41335E 01	-4.24311E-02	1.09023E 00	-2.81843E-02		
19.80	7.44210E-04	-1.04699E 00	-4.41415E-02	3.41372E 01	-4.30261E-02	1.10115E 00	-2.81867E-02		
19.90	7.51742E-04	-1.05769E 00	-4.47560E-02	3.41409E 01	-4.36265E-02	1.11212E 00	-2.81891E-02		
20.00	7.59311E-04	-1.06844E 00	-4.53761E-02	3.41445E 01	-4.42325E-02	1.12314E 00	-2.81915E-02		
20.10	7.66918E-04	-1.07925E 00	-4.60018E-02	3.41481E 01	-4.48440E-02	1.13422E 00	-2.81939E-02		
20.20	7.74563E-04	-1.09011E 00	-4.66331E-02	3.41517E 01	-4.54611E-02	1.14535E 00	-2.81962E-02		
20.30	7.82229E-04	-1.10102E 00	-4.72702E-02	3.41552E 01	-4.60837E-02	1.15653E 00	-2.81985E-02		
20.40	7.89967E-04	-1.11199E 00	-4.79129E-02	3.41587E 01	-4.67120E-02	1.16777E 00	-2.82008E-02		
20.50	7.97726E-04	-1.12301E 00	-4.85613E-02	3.41621E 01	-4.73459E-02	1.17907E 00	-2.82031E-02		
20.60	8.05522E-04	-1.13408E 00	-4.92155E-02	3.41656E 01	-4.79855E-02	1.19041E 00	-2.82053E-02		
20.70	8.13357E-04	-1.14521E 00	-4.98755E-02	3.41689E 01	-4.86307E-02	1.20181E 00	-2.82076E-02		
20.80	8.21229E-04	-1.15639E 00	-5.05412E-02	3.41723E 01	-4.92817E-02	1.21326E 00	-2.82098E-02		
20.90	8.29140E-04	-1.16763E 00	-5.12128E-02	3.41756E 01	-4.99384E-02	1.22477E 00	-2.82120E-02		
21.00	8.37088E-04	-1.17892E 00	-5.18902E-02	3.41789E 01	-5.06009E-02	1.23633E 00	-2.82142E-02		
21.10	8.45074E-04	-1.19026E 00	-5.25735E-02	3.41822E 01	-5.12691E-02	1.24795E 00	-2.82163E-02		
21.20	8.53098E-04	-1.20166E 00	-5.32627E-02	3.41854E 01	-5.19432E-02	1.25961E 00	-2.82185E-02		
21.30	8.61160E-04	-1.21311E 00	-5.39578E-02	3.41886E 01	-5.26231E-02	1.27134E 00	-2.82206E-02		
21.40	8.69260E-04	-1.22461E 00	-5.46589E-02	3.41917E 01	-5.33088E-02	1.28311E 00	-2.82227E-02		
21.50	8.77398E-04	-1.23617E 00	-5.53659E-02	3.41949E 01	-5.40005E-02	1.29494E 00	-2.82248E-02		
21.60	8.85573E-04	-1.24778E 00	-5.60789E-02	3.41980E 01	-5.46980E-02	1.30682E 00	-2.82268E-02		
21.70	8.93787E-04	-1.25945E 00	-5.67979E-02	3.42010E 01	-5.54015E-02	1.31876E 00	-2.82289E-02		
21.80	9.02039E-04	-1.27117E 00	-5.75230E-02	3.42041E 01	-5.61109E-02	1.33075E 00	-2.82309E-02		
21.90	9.10328E-04	-1.28294E 00	-5.82541E-02	3.42071E 01	-5.68263E-02	1.34279E 00	-2.82329E-02		
22.00	9.18655E-04	-1.29477E 00	-5.89913E-02	3.42101E 01	-5.75478E-02	1.35489E 00	-2.82349E-02		
22.10	9.27020E-04	-1.30665E 00	-5.97346E-02	3.42130E 01	-5.82752E-02	1.36704E 00	-2.82369E-02		
22.20	9.35423E-04	-1.31858E 00	-6.04841E-02	3.42160E 01	-5.90087E-02	1.37924E 00	-2.82389E-02		
22.30	9.43864E-04	-1.33056E 00	-6.12397E-02	3.42189E 01	-5.97483E-02	1.39150E 00	-2.82408E-02		
22.40	9.52343E-04	-1.34261E 00	-6.20016E-02	3.42217E 01	-6.04940E-02	1.40381E 00	-2.82428E-02		
22.50	9.60860E-04	-1.35470E 00	-6.27696E-02	3.42246E 01	-6.12458E-02	1.41617E 00	-2.82447E-02		
22.60	9.69415E-04	-1.36685E 00	-6.35439E-02	3.42274E 01	-6.20038E-02	1.42859E 00	-2.82466E-02		
22.70	9.78007E-04	-1.37905E 00	-6.43244E-02	3.42302E 01	-6.27680E-02	1.44106E 00	-2.82485E-02		
22.80	9.86638E-04	-1.39130E 00	-6.51112E-02	3.42330E 01	-6.35383E-02	1.45359E 00	-2.82503E-02		
22.90	9.95306E-04	-1.40361E 00	-6.59044E-02	3.42357E 01	-6.43149E-02	1.46617E 00	-2.82522E-02		
23.00	1.00401E-03	-1.41597E 00	-6.67038E-02	3.42385E 01	-6.50978E-02	1.47880E 00	-2.82540E-02		
23.10	1.01276E-03	-1.42838E 00	-6.75097E-02	3.42412E 01	-6.58869E-02	1.49148E 00	-2.82558E-02		
23.20	1.02154E-03	-1.44085E 00	-6.83219E-02	3.42438E 01	-6.66823E-02	1.50422E 00	-2.82576E-02		
23.30	1.03036E-03	-1.45337E 00	-6.91405E-02	3.42465E 01	-6.74841E-02	1.51701E 00	-2.82594E-02		
23.40	1.03922E-03	-1.46595E 00	-6.99656E-02	3.42491E 01	-6.82922E-02	1.52986E 00	-2.82612E-02		
23.50	1.04811E-03	-1.47858E 00	-7.07971E-02	3.42517E 01	-6.91066E-02	1.54276E 00	-2.82630E-02		
23.60	1.05705E-03	-1.49126E 00	-7.16351E-02	3.42543E 01	-6.99275E-02	1.55571E 00	-2.82647E-02		
23.70	1.06602E-03	-1.50399E 00	-7.24796E-02	3.42568E 01	-7.07548E-02	1.56871E 00	-2.82665E-02		
23.80	1.07503E-03	-1.51678E 00	-7.33306E-02	3.42594E 01	-7.15885E-02	1.58177E 00	-2.82682E-02		
23.90	1.08407E-03	-1.52963E 00	-7.41882E-02	3.42619E 01	-7.24287E-02	1.59489E 00	-2.82699E-02		
24.00	1.09316E-03	-1.54252E 00	-7.50524E-02	3.42644E 01	-7.32754E-02	1.60805E 00	-2.82716E-02		



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$		$A=12$		$\rho=1.3 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
24.10	1.15148E 00	-2.49768E 01	-2.05736E 00	3.84559E-03	-2.00979E 00	2.60289E 01	-1.77043E 02			
24.20	1.15147E 00	-2.50805E 01	-2.07243E 00	3.84792E-03	-2.02457E 00	2.61325E 01	-1.77208E 02			
24.30	1.15146E 00	-2.51843E 01	-2.08754E 00	3.85022E-03	-2.03942E 00	2.62362E 01	-1.77371E 02			
24.40	1.15145E 00	-2.52880E 01	-2.10271E 00	3.85248E-03	-2.05431E 00	2.63398E 01	-1.77534E 02			
24.50	1.15144E 00	-2.53917E 01	-2.11793E 00	3.85471E-03	-2.06926E 00	2.64434E 01	-1.77697E 02			
24.60	1.15143E 00	-2.54954E 01	-2.13320E 00	3.85689E-03	-2.08426E 00	2.65470E 01	-1.77860E 02			
24.70	1.15142E 00	-2.55990E 01	-2.14852E 00	3.85905E-03	-2.09931E 00	2.66505E 01	-1.78021E 02			
24.80	1.15141E 00	-2.57026E 01	-2.16390E 00	3.86116E-03	-2.11441E 00	2.67540E 01	-1.78183E 02			
24.90	1.15140E 00	-2.58062E 01	-2.17933E 00	3.86325E-03	-2.12957E 00	2.68575E 01	-1.78344E 02			
25.00	1.15139E 00	-2.59098E 01	-2.19481E 00	3.86530E-03	-2.14478E 00	2.69610E 01	-1.78504E 02			
25.10	1.15138E 00	-2.60134E 01	-2.21035E 00	3.86732E-03	-2.16004E 00	2.70645E 01	-1.78664E 02			
25.20	1.15137E 00	-2.61169E 01	-2.22593E 00	3.86931E-03	-2.17535E 00	2.71679E 01	-1.78824E 02			
25.30	1.15136E 00	-2.62204E 01	-2.24157E 00	3.87126E-03	-2.19072E 00	2.72713E 01	-1.78983E 02			
25.40	1.15136E 00	-2.63239E 01	-2.25727E 00	3.87318E-03	-2.20614E 00	2.73747E 01	-1.79142E 02			
25.50	1.15135E 00	-2.64274E 01	-2.27301E 00	3.87507E-03	-2.22161E 00	2.74781E 01	-1.79300E 02			
25.60	1.15134E 00	-2.65308E 01	-2.28881E 00	3.87692E-03	-2.23714E 00	2.75814E 01	-1.79458E 02			
25.70	1.15133E 00	-2.66343E 01	-2.30466E 00	3.87875E-03	-2.25271E 00	2.76847E 01	-1.79616E 02			
25.80	1.15132E 00	-2.67377E 01	-2.32056E 00	3.88054E-03	-2.26834E 00	2.77880E 01	-1.79773E 02			
25.90	1.15131E 00	-2.68411E 01	-2.33651E 00	3.88230E-03	-2.28402E 00	2.78913E 01	-1.79930E 02			
26.00	1.15130E 00	-2.69444E 01	-2.35252E 00	3.88403E-03	-2.29976E 00	2.79945E 01	-1.80086E 02			
26.10	1.15129E 00	-2.70477E 01	-2.36858E 00	3.88572E-03	-2.31555E 00	2.80978E 01	-1.80243E 02			
26.20	1.15128E 00	-2.71510E 01	-2.38469E 00	3.88740E-03	-2.33138E 00	2.82010E 01	-1.80398E 02			
26.30	1.15127E 00	-2.72543E 01	-2.40085E 00	3.88903E-03	-2.34727E 00	2.83041E 01	-1.80554E 02			
26.40	1.15126E 00	-2.73576E 01	-2.41707E 00	3.89064E-03	-2.36322E 00	2.84073E 01	-1.80709E 02			
26.50	1.15125E 00	-2.74608E 01	-2.43334E 00	3.89222E-03	-2.37921E 00	2.85104E 01	-1.80864E 02			
26.60	1.15124E 00	-2.75640E 01	-2.44966E 00	3.89377E-03	-2.39526E 00	2.86135E 01	-1.81018E 02			
26.70	1.15123E 00	-2.76672E 01	-2.46603E 00	3.89530E-03	-2.41136E 00	2.87166E 01	-1.81172E 02			
26.80	1.15122E 00	-2.77704E 01	-2.48246E 00	3.89679E-03	-2.42751E 00	2.88197E 01	-1.81326E 02			
26.90	1.15122E 00	-2.78735E 01	-2.49893E 00	3.89825E-03	-2.44372E 00	2.89227E 01	-1.81480E 02			
27.00	1.15121E 00	-2.79767E 01	-2.51546E 00	3.89969E-03	-2.45998E 00	2.90257E 01	-1.81633E 02			
27.10	1.15120E 00	-2.80797E 01	-2.53204E 00	3.90110E-03	-2.47628E 00	2.91287E 01	-1.81786E 02			
27.20	1.15119E 00	-2.81828E 01	-2.54868E 00	3.90249E-03	-2.49265E 00	2.92317E 01	-1.81939E 02			
27.30	1.15118E 00	-2.82859E 01	-2.56536E 00	3.90384E-03	-2.50906E 00	2.93346E 01	-1.82091E 02			
27.40	1.15117E 00	-2.83889E 01	-2.58210E 00	3.90517E-03	-2.52553E 00	2.94375E 01	-1.82243E 02			
27.50	1.15116E 00	-2.84919E 01	-2.59889E 00	3.90647E-03	-2.54204E 00	2.95404E 01	-1.82395E 02			
27.60	1.15115E 00	-2.85949E 01	-2.61573E 00	3.90774E-03	-2.55861E 00	2.96433E 01	-1.82547E 02			
27.70	1.15115E 00	-2.86978E 01	-2.63263E 00	3.90899E-03	-2.57524E 00	2.97461E 01	-1.82698E 02			
27.80	1.15114E 00	-2.88007E 01	-2.64957E 00	3.91021E-03	-2.59191E 00	2.98489E 01	-1.82849E 02			
27.90	1.15113E 00	-2.89036E 01	-2.66657E 00	3.91141E-03	-2.60864E 00	2.99517E 01	-1.83000E 02			
28.00	1.15112E 00	-2.90065E 01	-2.68362E 00	3.91258E-03	-2.62541E 00	3.00545E 01	-1.83150E 02			
28.10	1.15111E 00	-2.91094E 01	-2.70072E 00	3.91372E-03	-2.64224E 00	3.01572E 01	-1.83301E 02			
28.20	1.15110E 00	-2.92122E 01	-2.71788E 00	3.91484E-03	-2.65913E 00	3.02599E 01	-1.83451E 02			
28.30	1.15109E 00	-2.93150E 01	-2.73508E 00	3.91594E-03	-2.67606E 00	3.03626E 01	-1.83601E 02			
28.40	1.15109E 00	-2.94178E 01	-2.75234E 00	3.91700E-03	-2.69305E 00	3.04653E 01	-1.83751E 02			
28.50	1.15108E 00	-2.95205E 01	-2.76965E 00	3.91804E-03	-2.71009E 00	3.05679E 01	-1.83900E 02			
28.60	1.15107E 00	-2.96233E 01	-2.78702E 00	3.91906E-03	-2.72718E 00	3.06706E 01	-1.84049E 02			
28.70	1.15106E 00	-2.97260E 01	-2.80443E 00	3.92006E-03	-2.74432E 00	3.07732E 01	-1.84198E 02			
28.80	1.15105E 00	-2.98287E 01	-2.82190E 00	3.92103E-03	-2.76151E 00	3.08757E 01	-1.84347E 02			
28.90	1.15104E 00	-2.99313E 01	-2.83941E 00	3.92198E-03	-2.77876E 00	3.09783E 01	-1.84496E 02			
29.00	1.15104E 00	-3.00339E 01	-2.85698E 00	3.92290E-03	-2.79606E 00	3.10808E 01	-1.84644E 02			
29.10	1.15103E 00	-3.01366E 01	-2.87461E 00	3.92380E-03	-2.81341E 00	3.11833E 01	-1.84793E 02			
29.20	1.15102E 00	-3.02391E 01	-2.89228E 00	3.92468E-03	-2.83081E 00	3.12857E 01	-1.84941E 02			
29.30	1.15101E 00	-3.03417E 01	-2.91000E 00	3.92553E-03	-2.84827E 00	3.13882E 01	-1.85089E 02			
29.40	1.15100E 00	-3.04442E 01	-2.92778E 00	3.92636E-03	-2.86577E 00	3.14906E 01	-1.85237E 02			
29.50	1.15099E 00	-3.05467E 01	-2.94561E 00	3.92717E-03	-2.88333E 00	3.15930E 01	-1.85384E 02			
29.60	1.15099E 00	-3.06492E 01	-2.96349E 00	3.92796E-03	-2.90094E 00	3.16953E 01	-1.85532E 02			
29.70	1.15098E 00	-3.07517E 01	-2.98142E 00	3.92871E-03	-2.91860E 00	3.17977E 01	-1.85679E 02			
29.80	1.15097E 00	-3.08541E 01	-2.99941E 00	3.92946E-03	-2.93631E 00	3.19000E 01	-1.85826E 02			
29.90	1.15096E 00	-3.09565E 01	-3.01745E 00	3.93017E-03	-2.95408E 00	3.20023E 01	-1.85973E 02			
30.00	1.15095E 00	-3.10589E 01	-3.03553E 00	3.93087E-03	-2.97189E 00	3.21045E 01	-1.86120E 02			

## ELECTRON RADIAL FUNCTIONS

$\rho$	$Z=6 \quad A=12 \quad \rho=1.3 A^{1/3} F$								Electron
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$		
24.10	1.10228E-03	-1.55547E 00	-7.59232E-02	3.42669E 01	-7.41287E-02	1.62127E 00	-2.82733E-02		
24.20	1.11144E-03	-1.56847E 00	-7.68006E-02	3.42693E 01	-7.49885E-02	1.63454E 00	-2.82750E-02		
24.30	1.12064E-03	-1.58153E 00	-7.76847E-02	3.42717E 01	-7.58549E-02	1.64787E 00	-2.82766E-02		
24.40	1.12988E-03	-1.59464E 00	-7.85754E-02	3.42741E 01	-7.67278E-02	1.66125E 00	-2.82783E-02		
24.50	1.13916E-03	-1.60780E 00	-7.94729E-02	3.42765E 01	-7.76074E-02	1.67468E 00	-2.82799E-02		
24.60	1.14847E-03	-1.62101E 00	-8.03770E-02	3.42789E 01	-7.84936E-02	1.68816E 00	-2.82815E-02		
24.70	1.15782E-03	-1.63428E 00	-8.12880E-02	3.42812E 01	-7.93864E-02	1.70170E 00	-2.82831E-02		
24.80	1.16721E-03	-1.64760E 00	-8.22056E-02	3.42836E 01	-8.02860E-02	1.71529E 00	-2.82847E-02		
24.90	1.17663E-03	-1.66098E 00	-8.31301E-02	3.42859E 01	-8.11923E-02	1.72894E 00	-2.82863E-02		
25.00	1.18610E-03	-1.67441E 00	-8.40615E-02	3.42882E 01	-8.21053E-02	1.74263E 00	-2.82879E-02		
25.10	1.19560E-03	-1.68789E 00	-8.49996E-02	3.42904E 01	-8.30251E-02	1.75639E 00	-2.82895E-02		
25.20	1.20514E-03	-1.70142E 00	-8.59447E-02	3.42927E 01	-8.39517E-02	1.77019E 00	-2.82910E-02		
25.30	1.21472E-03	-1.71501E 00	-8.68966E-02	3.42949E 01	-8.48851E-02	1.78405E 00	-2.82925E-02		
25.40	1.22433E-03	-1.72865E 00	-8.78555E-02	3.42971E 01	-8.58253E-02	1.79796E 00	-2.82941E-02		
25.50	1.23399E-03	-1.74235E 00	-8.88213E-02	3.42993E 01	-8.67724E-02	1.81192E 00	-2.82956E-02		
25.60	1.24368E-03	-1.75609E 00	-8.97940E-02	3.43015E 01	-8.77264E-02	1.82594E 00	-2.82971E-02		
25.70	1.25341E-03	-1.76989E 00	-9.07738E-02	3.43037E 01	-8.86873E-02	1.84001E 00	-2.82986E-02		
25.80	1.26318E-03	-1.78375E 00	-9.17606E-02	3.43058E 01	-8.96551E-02	1.85413E 00	-2.83001E-02		
25.90	1.27298E-03	-1.79765E 00	-9.27544E-02	3.43079E 01	-9.06299E-02	1.86831E 00	-2.83015E-02		
26.00	1.28282E-03	-1.81161E 00	-9.37554E-02	3.43100E 01	-9.16116E-02	1.88254E 00	-2.83030E-02		
26.10	1.29271E-03	-1.82563E 00	-9.47634E-02	3.43121E 01	-9.26004E-02	1.89682E 00	-2.83044E-02		
26.20	1.30262E-03	-1.83969E 00	-9.57785E-02	3.43142E 01	-9.35962E-02	1.91115E 00	-2.83059E-02		
26.30	1.31258E-03	-1.85381E 00	-9.68007E-02	3.43163E 01	-9.45991E-02	1.92554E 00	-2.83073E-02		
26.40	1.32258E-03	-1.86798E 00	-9.78301E-02	3.43183E 01	-9.56091E-02	1.93998E 00	-2.83087E-02		
26.50	1.33261E-03	-1.88221E 00	-9.88667E-02	3.43204E 01	-9.66261E-02	1.95448E 00	-2.83101E-02		
26.60	1.34268E-03	-1.89649E 00	-9.99106E-02	3.43224E 01	-9.76503E-02	1.96902E 00	-2.83115E-02		
26.70	1.35279E-03	-1.91082E 00	-1.00962E-01	3.43244E 01	-9.86817E-02	1.98363E 00	-2.83129E-02		
26.80	1.36293E-03	-1.92520E 00	-1.02020E-01	3.43263E 01	-9.97202E-02	1.99828E 00	-2.83143E-02		
26.90	1.37312E-03	-1.93964E 00	-1.03086E-01	3.43283E 01	-1.00766E-01	2.01299E 00	-2.83157E-02		
27.00	1.38334E-03	-1.95413E 00	-1.04158E-01	3.43303E 01	-1.01819E-01	2.02774E 00	-2.83170E-02		
27.10	1.39360E-03	-1.96867E 00	-1.05239E-01	3.43322E 01	-1.02879E-01	2.04256E 00	-2.83184E-02		
27.20	1.40390E-03	-1.98327E 00	-1.06326E-01	3.43341E 01	-1.03947E-01	2.05742E 00	-2.83197E-02		
27.30	1.41423E-03	-1.99792E 00	-1.07421E-01	3.43360E 01	-1.05021E-01	2.07234E 00	-2.83211E-02		
27.40	1.42461E-03	-2.01262E 00	-1.08524E-01	3.43379E 01	-1.06103E-01	2.08731E 00	-2.83224E-02		
27.50	1.43502E-03	-2.02738E 00	-1.09634E-01	3.43398E 01	-1.07193E-01	2.10233E 00	-2.83237E-02		
27.60	1.44547E-03	-2.04218E 00	-1.10751E-01	3.43417E 01	-1.08290E-01	2.11741E 00	-2.83250E-02		
27.70	1.45596E-03	-2.05704E 00	-1.11876E-01	3.43435E 01	-1.09394E-01	2.13254E 00	-2.83263E-02		
27.80	1.46648E-03	-2.07196E 00	-1.13008E-01	3.43454E 01	-1.10506E-01	2.14772E 00	-2.83276E-02		
27.90	1.47705E-03	-2.08692E 00	-1.14148E-01	3.43472E 01	-1.11625E-01	2.16296E 00	-2.83289E-02		
28.00	1.48765E-03	-2.10194E 00	-1.15295E-01	3.43490E 01	-1.12751E-01	2.17825E 00	-2.83302E-02		
28.10	1.49829E-03	-2.11702E 00	-1.16450E-01	3.43508E 01	-1.13885E-01	2.19359E 00	-2.83314E-02		
28.20	1.50896E-03	-2.13214E 00	-1.17612E-01	3.43526E 01	-1.15027E-01	2.20898E 00	-2.83327E-02		
28.30	1.51968E-03	-2.14732E 00	-1.18783E-01	3.43543E 01	-1.16176E-01	2.22443E 00	-2.83339E-02		
28.40	1.53043E-03	-2.16255E 00	-1.19960E-01	3.43561E 01	-1.17333E-01	2.23992E 00	-2.83352E-02		
28.50	1.54122E-03	-2.17783E 00	-1.21146E-01	3.43578E 01	-1.18497E-01	2.25548E 00	-2.83364E-02		
28.60	1.55205E-03	-2.19317E 00	-1.22339E-01	3.43596E 01	-1.19669E-01	2.27108E 00	-2.83376E-02		
28.70	1.56292E-03	-2.20856E 00	-1.23540E-01	3.43613E 01	-1.20848E-01	2.28674E 00	-2.83388E-02		
28.80	1.57382E-03	-2.22400E 00	-1.24749E-01	3.43630E 01	-1.22035E-01	2.30245E 00	-2.83400E-02		
28.90	1.58476E-03	-2.23949E 00	-1.25965E-01	3.43647E 01	-1.23230E-01	2.31821E 00	-2.83412E-02		
29.00	1.59574E-03	-2.25504E 00	-1.27189E-01	3.43664E 01	-1.24433E-01	2.33403E 00	-2.83424E-02		
29.10	1.60676E-03	-2.27064E 00	-1.28421E-01	3.43680E 01	-1.25643E-01	2.34989E 00	-2.83436E-02		
29.20	1.61782E-03	-2.28629E 00	-1.29661E-01	3.43697E 01	-1.26861E-01	2.36581E 00	-2.83448E-02		
29.30	1.62891E-03	-2.30200E 00	-1.30909E-01	3.43713E 01	-1.28087E-01	2.38179E 00	-2.83459E-02		
29.40	1.64004E-03	-2.31776E 00	-1.32164E-01	3.43730E 01	-1.29321E-01	2.39781E 00	-2.83471E-02		
29.50	1.65121E-03	-2.33357E 00	-1.33428E-01	3.43746E 01	-1.30562E-01	2.41389E 00	-2.83483E-02		
29.60	1.66242E-03	-2.34943E 00	-1.34699E-01	3.43762E 01	-1.31812E-01	2.43002E 00	-2.83494E-02		
29.70	1.67366E-03	-2.36535E 00	-1.35979E-01	3.43778E 01	-1.33069E-01	2.44621E 00	-2.83505E-02		
29.80	1.68495E-03	-2.38132E 00	-1.37266E-01	3.43794E 01	-1.34334E-01	2.46244E 00	-2.83517E-02		
29.90	1.69627E-03	-2.39734E 00	-1.38562E-01	3.43810E 01	-1.35607E-01	2.47873E 00	-2.83528E-02		
30.00	1.70763E-03	-2.41341E 00	-1.39865E-01	3.43825E 01	-1.36888E-01	2.49507E 00	-2.83539E-02		



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$		$A=12$		$\rho=1.3A^{1/3}F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
30.10	1.15095 E 00	-3.11612 E 01	-3.05367 E 00	3.93154 E-03	-2.98976 E 00	3.22068 E 01	-1.86267 E 02			
30.20	1.15094 E 00	-3.12635 E 01	-3.07186 E 00	3.93220 E-03	-3.00768 E 00	3.23090 E 01	-1.86413 E 02			
30.30	1.15093 E 00	-3.13658 E 01	-3.09011 E 00	3.93283 E-03	-3.02566 E 00	3.24112 E 01	-1.86560 E 02			
30.40	1.15092 E 00	-3.14681 E 01	-3.10840 E 00	3.93344 E-03	-3.04368 E 00	3.25133 E 01	-1.86706 E 02			
30.50	1.15092 E 00	-3.15704 E 01	-3.12675 E 00	3.93402 E-03	-3.06175 E 00	3.26155 E 01	-1.86852 E 02			
30.60	1.15091 E 00	-3.16726 E 01	-3.14515 E 00	3.93459 E-03	-3.07988 E 00	3.27176 E 01	-1.86999 E 02			
30.70	1.15090 E 00	-3.17748 E 01	-3.16360 E 00	3.93514 E-03	-3.09806 E 00	3.28197 E 01	-1.87145 E 02			
30.80	1.15089 E 00	-3.18770 E 01	-3.18210 E 00	3.93566 E-03	-3.11629 E 00	3.29217 E 01	-1.87291 E 02			
30.90	1.15088 E 00	-3.19791 E 01	-3.20065 E 00	3.93616 E-03	-3.13457 E 00	3.30237 E 01	-1.87436 E 02			
31.00	1.15088 E 00	-3.20812 E 01	-3.21925 E 00	3.93665 E-03	-3.15290 E 00	3.31257 E 01	-1.87582 E 02			
31.10	1.15087 E 00	-3.21833 E 01	-3.23791 E 00	3.93712 E-03	-3.17129 E 00	3.32277 E 01	-1.87728 E 02			
31.20	1.15086 E 00	-3.22854 E 01	-3.25662 E 00	3.93756 E-03	-3.18973 E 00	3.33297 E 01	-1.87873 E 02			
31.30	1.15085 E 00	-3.23874 E 01	-3.27538 E 00	3.93798 E-03	-3.20821 E 00	3.34316 E 01	-1.88019 E 02			
31.40	1.15085 E 00	-3.24894 E 01	-3.29419 E 00	3.93839 E-03	-3.22675 E 00	3.35335 E 01	-1.88164 E 02			
31.50	1.15084 E 00	-3.25914 E 01	-3.31305 E 00	3.93877 E-03	-3.24534 E 00	3.36354 E 01	-1.88309 E 02			
31.60	1.15083 E 00	-3.26934 E 01	-3.33196 E 00	3.93913 E-03	-3.26399 E 00	3.37372 E 01	-1.88455 E 02			
31.70	1.15082 E 00	-3.27953 E 01	-3.35093 E 00	3.93948 E-03	-3.28268 E 00	3.38390 E 01	-1.88600 E 02			
31.80	1.15082 E 00	-3.28972 E 01	-3.36994 E 00	3.93981 E-03	-3.30142 E 00	3.39408 E 01	-1.88744 E 02			
31.90	1.15081 E 00	-3.29991 E 01	-3.38901 E 00	3.94011 E-03	-3.32022 E 00	3.40426 E 01	-1.88890 E 02			
32.00	1.15080 E 00	-3.31010 E 01	-3.40813 E 00	3.94040 E-03	-3.33907 E 00	3.41443 E 01	-1.89035 E 02			
32.10	1.15079 E 00	-3.32028 E 01	-3.42730 E 00	3.94067 E-03	-3.35797 E 00	3.42460 E 01	-1.89179 E 02			
32.20	1.15079 E 00	-3.33046 E 01	-3.44652 E 00	3.94092 E-03	-3.37692 E 00	3.43477 E 01	-1.89324 E 02			
32.30	1.15078 E 00	-3.34064 E 01	-3.46579 E 00	3.94115 E-03	-3.39592 E 00	3.44493 E 01	-1.89469 E 02			
32.40	1.15077 E 00	-3.35081 E 01	-3.48512 E 00	3.94136 E-03	-3.41498 E 00	3.45510 E 01	-1.89614 E 02			
32.50	1.15077 E 00	-3.36098 E 01	-3.50449 E 00	3.94156 E-03	-3.43408 E 00	3.46526 E 01	-1.89758 E 02			
32.60	1.15076 E 00	-3.37115 E 01	-3.52392 E 00	3.94173 E-03	-3.45324 E 00	3.47541 E 01	-1.89903 E 02			
32.70	1.15075 E 00	-3.38132 E 01	-3.54340 E 00	3.94189 E-03	-3.47245 E 00	3.48557 E 01	-1.90048 E 02			
32.80	1.15074 E 00	-3.39148 E 01	-3.56293 E 00	3.94203 E-03	-3.49171 E 00	3.49572 E 01	-1.90192 E 02			
32.90	1.15074 E 00	-3.40165 E 01	-3.58251 E 00	3.94215 E-03	-3.51102 E 00	3.50587 E 01	-1.90337 E 02			
33.00	1.15073 E 00	-3.41180 E 01	-3.60214 E 00	3.94225 E-03	-3.53038 E 00	3.51602 E 01	-1.90482 E 02			
33.10	1.15072 E 00	-3.42196 E 01	-3.62182 E 00	3.94234 E-03	-3.54979 E 00	3.52616 E 01	-1.90626 E 02			
33.20	1.15072 E 00	-3.43211 E 01	-3.64156 E 00	3.94240 E-03	-3.56925 E 00	3.53630 E 01	-1.90771 E 02			
33.30	1.15071 E 00	-3.44226 E 01	-3.66134 E 00	3.94246 E-03	-3.58877 E 00	3.54644 E 01	-1.90915 E 02			
33.40	1.15070 E 00	-3.45241 E 01	-3.68118 E 00	3.94249 E-03	-3.60834 E 00	3.55657 E 01	-1.91061 E 02			
33.50	1.15069 E 00	-3.46255 E 01	-3.70107 E 00	3.94250 E-03	-3.62795 E 00	3.56671 E 01	-1.91204 E 02			
33.60	1.15069 E 00	-3.47270 E 01	-3.72101 E 00	3.94250 E-03	-3.64762 E 00	3.57684 E 01	-1.91349 E 02			
33.70	1.15068 E 00	-3.48284 E 01	-3.74100 E 00	3.94248 E-03	-3.66734 E 00	3.58696 E 01	-1.91493 E 02			
33.80	1.15067 E 00	-3.49297 E 01	-3.76104 E 00	3.94244 E-03	-3.68711 E 00	3.59709 E 01	-1.91638 E 02			
33.90	1.15067 E 00	-3.50311 E 01	-3.78113 E 00	3.94239 E-03	-3.70693 E 00	3.60721 E 01	-1.91782 E 02			
34.00	1.15066 E 00	-3.51324 E 01	-3.80127 E 00	3.94232 E-03	-3.72681 E 00	3.61733 E 01	-1.91927 E 02			
34.10	1.15065 E 00	-3.52336 E 01	-3.82146 E 00	3.94224 E-03	-3.74673 E 00	3.62744 E 01	-1.92071 E 02			
34.20	1.15065 E 00	-3.53349 E 01	-3.84171 E 00	3.94214 E-03	-3.76671 E 00	3.63755 E 01	-1.92216 E 02			
34.30	1.15064 E 00	-3.54361 E 01	-3.86201 E 00	3.94201 E-03	-3.78673 E 00	3.64766 E 01	-1.92360 E 02			
34.40	1.15063 E 00	-3.55373 E 01	-3.88235 E 00	3.94188 E-03	-3.80681 E 00	3.65777 E 01	-1.92505 E 02			
34.50	1.15063 E 00	-3.56385 E 01	-3.90275 E 00	3.94172 E-03	-3.82694 E 00	3.66788 E 01	-1.92650 E 02			
34.60	1.15062 E 00	-3.57396 E 01	-3.92320 E 00	3.94156 E-03	-3.84712 E 00	3.67798 E 01	-1.92794 E 02			
34.70	1.15061 E 00	-3.58407 E 01	-3.94370 E 00	3.94137 E-03	-3.86735 E 00	3.68808 E 01	-1.92939 E 02			
34.80	1.15061 E 00	-3.59418 E 01	-3.96425 E 00	3.94117 E-03	-3.88763 E 00	3.69817 E 01	-1.93084 E 02			
34.90	1.15060 E 00	-3.60429 E 01	-3.98485 E 00	3.94095 E-03	-3.90796 E 00	3.70827 E 01	-1.93228 E 02			
35.00	1.15059 E 00	-3.61439 E 01	-4.00550 E 00	3.94071 E-03	-3.92834 E 00	3.71836 E 01	-1.93373 E 02			
35.10	1.15059 E 00	-3.62449 E 01	-4.02621 E 00	3.94047 E-03	-3.94878 E 00	3.72844 E 01	-1.93518 E 02			
35.20	1.15058 E 00	-3.63459 E 01	-4.04696 E 00	3.94020 E-03	-3.96926 E 00	3.73853 E 01	-1.93663 E 02			
35.30	1.15057 E 00	-3.64468 E 01	-4.06777 E 00	3.93992 E-03	-3.98980 E 00	3.74861 E 01	-1.93808 E 02			
35.40	1.15057 E 00	-3.65477 E 01	-4.08862 E 00	3.93963 E-03	-4.01038 E 00	3.75869 E 01	-1.93953 E 02			
35.50	1.15056 E 00	-3.66486 E 01	-4.10953 E 00	3.93931 E-03	-4.03102 E 00	3.76876 E 01	-1.94098 E 02			
35.60	1.15055 E 00	-3.67495 E 01	-4.13048 E 00	3.93899 E-03	-4.05171 E 00	3.77884 E 01	-1.94243 E 02			
35.70	1.15055 E 00	-3.68503 E 01	-4.15149 E 00	3.93865 E-03	-4.07245 E 00	3.78891 E 01	-1.94388 E 02			
35.80	1.15054 E 00	-3.69511 E 01	-4.17255 E 00	3.93828 E-03	-4.09324 E 00	3.79897 E 01	-1.94534 E 02			
35.90	1.15053 E 00	-3.70519 E 01	-4.19366 E 00	3.93791 E-03	-4.11408 E 00	3.80904 E 01	-1.94679 E 02			
36.00	1.15053 E 00	-3.71526 E 01	-4.21482 E 00	3.93753 E-03	-4.13497 E 00	3.81910 E 01	-1.94824 E 02			

## ELECTRON RADIAL FUNCTIONS

$p$	$Z=6$ $A=12$ $\rho=1.3A^{1/3}F$ Electron							
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
30.10	1.71902E-03	-2.42954E 00	-1.41177E-01	3.43841 E 01	-1.38177E-01	2.51147E 00	-2.83550E-02	
30.20	1.73046E-03	-2.44572E 00	-1.42496E-01	3.43857 E 01	-1.39474E-01	2.52791E 00	-2.83561E-02	
30.30	1.74193E-03	-2.46195E 00	-1.43824E-01	3.43872 E 01	-1.40779E-01	2.54441E 00	-2.83572E-02	
30.40	1.75344E-03	-2.47823E 00	-1.45160E-01	3.43887 E 01	-1.42092E-01	2.56096E 00	-2.83583E-02	
30.50	1.76499E-03	-2.49457E 00	-1.46504E-01	3.43902 E 01	-1.43413E-01	2.57757E 00	-2.83594E-02	
30.60	1.77658E-03	-2.51096E 00	-1.47856E-01	3.43917 E 01	-1.44742E-01	2.59422E 00	-2.83605E-02	
30.70	1.78820E-03	-2.52740E 00	-1.49216E-01	3.43932 E 01	-1.46080E-01	2.61093E 00	-2.83615E-02	
30.80	1.79986E-03	-2.54389E 00	-1.50585E-01	3.43947 E 01	-1.47425E-01	2.62769E 00	-2.83626E-02	
30.90	1.81156E-03	-2.56044E 00	-1.51962E-01	3.43962 E 01	-1.48779E-01	2.64451E 00	-2.83636E-02	
31.00	1.82330E-03	-2.57703E 00	-1.53347E-01	3.43977 E 01	-1.50141E-01	2.66137E 00	-2.83647E-02	
31.10	1.83508E-03	-2.59369E 00	-1.54740E-01	3.43991 E 01	-1.51511E-01	2.67829E 00	-2.83657E-02	
31.20	1.84689E-03	-2.61039E 00	-1.56142E-01	3.44006 E 01	-1.52889E-01	2.69526E 00	-2.83668E-02	
31.30	1.85874E-03	-2.62714E 00	-1.57552E-01	3.44020 E 01	-1.54276E-01	2.71228E 00	-2.83678E-02	
31.40	1.87063E-03	-2.64395E 00	-1.58970E-01	3.44034 E 01	-1.55670E-01	2.72936E 00	-2.83688E-02	
31.50	1.88256E-03	-2.66081E 00	-1.60397E-01	3.44048 E 01	-1.57074E-01	2.74649E 00	-2.83698E-02	
31.60	1.89452E-03	-2.67773E 00	-1.61832E-01	3.44062 E 01	-1.58485E-01	2.76367E 00	-2.83709E-02	
31.70	1.90652E-03	-2.69469E 00	-1.63276E-01	3.44076 E 01	-1.59905E-01	2.78090E 00	-2.83719E-02	
31.80	1.91857E-03	-2.71171E 00	-1.64728E-01	3.44090 E 01	-1.61333E-01	2.79818E 00	-2.83729E-02	
31.90	1.93064E-03	-2.72878E 00	-1.66189E-01	3.44104 E 01	-1.62770E-01	2.81552E 00	-2.83739E-02	
32.00	1.94276E-03	-2.74590E 00	-1.67658E-01	3.44118 E 01	-1.64215E-01	2.83291E 00	-2.83748E-02	
32.10	1.95492E-03	-2.76307E 00	-1.69136E-01	3.44131 E 01	-1.65668E-01	2.85035E 00	-2.83758E-02	
32.20	1.96711E-03	-2.78030E 00	-1.70622E-01	3.44145 E 01	-1.67130E-01	2.86784E 00	-2.83768E-02	
32.30	1.97934E-03	-2.79758E 00	-1.72117E-01	3.44158 E 01	-1.68601E-01	2.88539E 00	-2.83778E-02	
32.40	1.99161E-03	-2.81491E 00	-1.73620E-01	3.44172 E 01	-1.70080E-01	2.90299E 00	-2.83787E-02	
32.50	2.00391E-03	-2.83229E 00	-1.75132E-01	3.44185 E 01	-1.71567E-01	2.92064E 00	-2.83797E-02	
32.60	2.01626E-03	-2.84973E 00	-1.76653E-01	3.44198 E 01	-1.73063E-01	2.93834E 00	-2.83807E-02	
32.70	2.02864E-03	-2.86722E 00	-1.78182E-01	3.44211 E 01	-1.74568E-01	2.95609E 00	-2.83816E-02	
32.80	2.04106E-03	-2.88476E 00	-1.79720E-01	3.44224 E 01	-1.76081E-01	2.97390E 00	-2.83825E-02	
32.90	2.05352E-03	-2.90235E 00	-1.81267E-01	3.44237 E 01	-1.77603E-01	2.99176E 00	-2.83835E-02	
33.00	2.06601E-03	-2.91999E 00	-1.82823E-01	3.44250 E 01	-1.79134E-01	3.00967E 00	-2.83844E-02	
33.10	2.07855E-03	-2.93769E 00	-1.84387E-01	3.44263 E 01	-1.80673E-01	3.02763E 00	-2.83853E-02	
33.20	2.09112E-03	-2.95544E 00	-1.85960E-01	3.44276 E 01	-1.82222E-01	3.04564E 00	-2.83863E-02	
33.30	2.10373E-03	-2.97324E 00	-1.87542E-01	3.44288 E 01	-1.83778E-01	3.06371E 00	-2.83872E-02	
33.40	2.11637E-03	-2.99109E 00	-1.89133E-01	3.44301 E 01	-1.85344E-01	3.08183E 00	-2.83881E-02	
33.50	2.12906E-03	-3.00900E 00	-1.90733E-01	3.44313 E 01	-1.86918E-01	3.10000E 00	-2.83890E-02	
33.60	2.14178E-03	-3.02695E 00	-1.92341E-01	3.44326 E 01	-1.88501E-01	3.11822E 00	-2.83899E-02	
33.70	2.15454E-03	-3.04496E 00	-1.93959E-01	3.44338 E 01	-1.90093E-01	3.13650E 00	-2.83908E-02	
33.80	2.16734E-03	-3.06302E 00	-1.95585E-01	3.44350 E 01	-1.91694E-01	3.15483E 00	-2.83917E-02	
33.90	2.18018E-03	-3.08113E 00	-1.97220E-01	3.44362 E 01	-1.93304E-01	3.17320E 00	-2.83926E-02	
34.00	2.19305E-03	-3.09930E 00	-1.98865E-01	3.44375 E 01	-1.94923E-01	3.19163E 00	-2.83935E-02	
34.10	2.20596E-03	-3.11752E 00	-2.00518E-01	3.44387 E 01	-1.96550E-01	3.21012E 00	-2.83943E-02	
34.20	2.21891E-03	-3.13578E 00	-2.02181E-01	3.44399 E 01	-1.98187E-01	3.22865E 00	-2.83952E-02	
34.30	2.23190E-03	-3.15410E 00	-2.03852E-01	3.44410 E 01	-1.99832E-01	3.24724E 00	-2.83961E-02	
34.40	2.24493E-03	-3.17248E 00	-2.05533E-01	3.44422 E 01	-2.01487E-01	3.26588E 00	-2.83969E-02	
34.50	2.25799E-03	-3.19090E 00	-2.07222E-01	3.44434 E 01	-2.03150E-01	3.28457E 00	-2.83978E-02	
34.60	2.27109E-03	-3.20938E 00	-2.08921E-01	3.44446 E 01	-2.04823E-01	3.30331E 00	-2.83987E-02	
34.70	2.28423E-03	-3.22791E 00	-2.10629E-01	3.44457 E 01	-2.06504E-01	3.32210E 00	-2.83995E-02	
34.80	2.29741E-03	-3.24649E 00	-2.12346E-01	3.44469 E 01	-2.08195E-01	3.34095E 00	-2.84003E-02	
34.90	2.31063E-03	-3.26512E 00	-2.14073E-01	3.44480 E 01	-2.09895E-01	3.35984E 00	-2.84012E-02	
35.00	2.32388E-03	-3.28380E 00	-2.15808E-01	3.44491 E 01	-2.11604E-01	3.37879E 00	-2.84020E-02	
35.10	2.33717E-03	-3.30254E 00	-2.17553E-01	3.44503 E 01	-2.13322E-01	3.39779E 00	-2.84028E-02	
35.20	2.35050E-03	-3.32132E 00	-2.19307E-01	3.44514 E 01	-2.15049E-01	3.41685E 00	-2.84037E-02	
35.30	2.36387E-03	-3.34016E 00	-2.21070E-01	3.44525 E 01	-2.16786E-01	3.43595E 00	-2.84045E-02	
35.40	2.37727E-03	-3.35905E 00	-2.22843E-01	3.44536 E 01	-2.18532E-01	3.45511E 00	-2.84053E-02	
35.50	2.39071E-03	-3.37800E 00	-2.24625E-01	3.44547 E 01	-2.20287E-01	3.47432E 00	-2.84061E-02	
35.60	2.40419E-03	-3.39699E 00	-2.26416E-01	3.44558 E 01	-2.22051E-01	3.49357E 00	-2.84069E-02	
35.70	2.41771E-03	-3.41604E 00	-2.28217E-01	3.44569 E 01	-2.23825E-01	3.51289E 00	-2.84077E-02	
35.80	2.43127E-03	-3.43513E 00	-2.30027E-01	3.44580 E 01	-2.25608E-01	3.53225E 00	-2.84085E-02	
35.90	2.44486E-03	-3.45428E 00	-2.31847E-01	3.44591 E 01	-2.27400E-01	3.55166E 00	-2.84093E-02	
36.00	2.45850E-03	-3.47348E 00	-2.33676E-01	3.44602 E 01	-2.29201E-01	3.57113E 00	-2.84101E-02	



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$		$A=12$		$\rho=1.3 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
36.10	1.15052E 00	-3.72533E 01	-4.23603E 00	3.93713E-03	-4.15591E 00	3.82916E 01	-1.94970E 02	02
36.20	1.15051E 00	-3.73540E 01	-4.25729E 00	3.93670E-03	-4.17690E 00	3.83921E 01	-1.95115E 02	02
36.30	1.15051E 00	-3.74546E 01	-4.27861E 00	3.93628E-03	-4.19794E 00	3.84926E 01	-1.95261E 02	02
36.40	1.15050E 00	-3.75553E 01	-4.29997E 00	3.93583E-03	-4.21904E 00	3.85931E 01	-1.95406E 02	02
36.50	1.15049E 00	-3.76559E 01	-4.32138E 00	3.93537E-03	-4.24018E 00	3.86936E 01	-1.95552E 02	02
36.60	1.15049E 00	-3.77564E 01	-4.34285E 00	3.93488E-03	-4.26138E 00	3.87940E 01	-1.95698E 02	02
36.70	1.15048E 00	-3.78570E 01	-4.36436E 00	3.93440E-03	-4.28262E 00	3.88944E 01	-1.95844E 02	02
36.80	1.15048E 00	-3.79575E 01	-4.38592E 00	3.93389E-03	-4.30392E 00	3.89948E 01	-1.95990E 02	02
36.90	1.15047E 00	-3.80579E 01	-4.40754E 00	3.93337E-03	-4.32526E 00	3.90952E 01	-1.96136E 02	02
37.00	1.15046E 00	-3.81584E 01	-4.42921E 00	3.93284E-03	-4.34666E 00	3.91955E 01	-1.96282E 02	02
37.10	1.15046E 00	-3.82588E 01	-4.45092E 00	3.93229E-03	-4.36811E 00	3.92958E 01	-1.96429E 02	02
37.20	1.15045E 00	-3.83592E 01	-4.47269E 00	3.93172E-03	-4.38961E 00	3.93960E 01	-1.96575E 02	02
37.30	1.15044E 00	-3.84595E 01	-4.49450E 00	3.93115E-03	-4.41116E 00	3.94963E 01	-1.96722E 02	02
37.40	1.15044E 00	-3.85599E 01	-4.51637E 00	3.93056E-03	-4.43275E 00	3.95965E 01	-1.96869E 02	02
37.50	1.15043E 00	-3.86602E 01	-4.53829E 00	3.92995E-03	-4.45440E 00	3.96966E 01	-1.97015E 02	02
37.60	1.15043E 00	-3.87604E 01	-4.56026E 00	3.92933E-03	-4.47610E 00	3.97968E 01	-1.97162E 02	02
37.70	1.15042E 00	-3.88607E 01	-4.58228E 00	3.92871E-03	-4.49785E 00	3.98969E 01	-1.97309E 02	02
37.80	1.15041E 00	-3.89609E 01	-4.60435E 00	3.92806E-03	-4.51965E 00	3.99969E 01	-1.97456E 02	02
37.90	1.15041E 00	-3.90611E 01	-4.62646E 00	3.92740E-03	-4.54150E 00	4.00970E 01	-1.97603E 02	02
38.00	1.15040E 00	-3.91612E 01	-4.64863E 00	3.92672E-03	-4.56341E 00	4.01970E 01	-1.97751E 02	02
38.10	1.15039E 00	-3.92613E 01	-4.67085E 00	3.92603E-03	-4.58536E 00	4.02970E 01	-1.97898E 02	02
38.20	1.15039E 00	-3.93614E 01	-4.69312E 00	3.92534E-03	-4.60736E 00	4.03969E 01	-1.98046E 02	02
38.30	1.15038E 00	-3.94615E 01	-4.71544E 00	3.92462E-03	-4.62941E 00	4.04969E 01	-1.98194E 02	02
38.40	1.15038E 00	-3.95615E 01	-4.73781E 00	3.92389E-03	-4.65151E 00	4.05968E 01	-1.98341E 02	02
38.50	1.15037E 00	-3.96615E 01	-4.76024E 00	3.92315E-03	-4.67367E 00	4.06966E 01	-1.98489E 02	02
38.60	1.15037E 00	-3.97615E 01	-4.78271E 00	3.92241E-03	-4.69587E 00	4.07965E 01	-1.98637E 02	02
38.70	1.15036E 00	-3.98614E 01	-4.80523E 00	3.92163E-03	-4.71812E 00	4.08963E 01	-1.98786E 02	02
38.80	1.15035E 00	-3.99613E 01	-4.82780E 00	3.92085E-03	-4.74043E 00	4.09960E 01	-1.98934E 02	02
38.90	1.15035E 00	-4.00612E 01	-4.85042E 00	3.92006E-03	-4.76278E 00	4.10958E 01	-1.99083E 02	02
39.00	1.15034E 00	-4.01610E 01	-4.87309E 00	3.91925E-03	-4.78518E 00	4.11955E 01	-1.99232E 02	02
39.10	1.15034E 00	-4.02608E 01	-4.89581E 00	3.91843E-03	-4.80764E 00	4.12952E 01	-1.99380E 02	02
39.20	1.15033E 00	-4.03606E 01	-4.91859E 00	3.91760E-03	-4.83014E 00	4.13948E 01	-1.99530E 02	02
39.30	1.15032E 00	-4.04604E 01	-4.94141E 00	3.91675E-03	-4.85269E 00	4.14944E 01	-1.99679E 02	02
39.40	1.15032E 00	-4.05601E 01	-4.96428E 00	3.91590E-03	-4.87530E 00	4.15940E 01	-1.99828E 02	02
39.50	1.15031E 00	-4.06598E 01	-4.98720E 00	3.91502E-03	-4.89795E 00	4.16936E 01	-1.99978E 02	02
39.60	1.15031E 00	-4.07594E 01	-5.01017E 00	3.91414E-03	-4.92066E 00	4.17931E 01	-2.00127E 02	02
39.70	1.15030E 00	-4.08591E 01	-5.03319E 00	3.91325E-03	-4.94341E 00	4.18926E 01	-2.00277E 02	02
39.80	1.15029E 00	-4.09587E 01	-5.05626E 00	3.91233E-03	-4.96621E 00	4.19920E 01	-2.00427E 02	02
39.90	1.15029E 00	-4.10582E 01	-5.07939E 00	3.91142E-03	-4.98907E 00	4.20915E 01	-2.00577E 02	02
40.00	1.15028E 00	-4.11577E 01	-5.10256E 00	3.91048E-03	-5.01197E 00	4.21909E 01	-2.00727E 02	02
40.10	1.15028E 00	-4.12573E 01	-5.12578E 00	3.90954E-03	-5.03492E 00	4.22902E 01	-2.00878E 02	02
40.20	1.15027E 00	-4.13567E 01	-5.14905E 00	3.90857E-03	-5.05793E 00	4.23896E 01	-2.01029E 02	02
40.30	1.15027E 00	-4.14562E 01	-5.17237E 00	3.90761E-03	-5.08098E 00	4.24889E 01	-2.01180E 02	02
40.40	1.15026E 00	-4.15556E 01	-5.19574E 00	3.90662E-03	-5.10409E 00	4.25881E 01	-2.01331E 02	02
40.50	1.15025E 00	-4.16549E 01	-5.21916E 00	3.90563E-03	-5.12724E 00	4.26874E 01	-2.01482E 02	02
40.60	1.15025E 00	-4.17543E 01	-5.24263E 00	3.90462E-03	-5.15044E 00	4.27866E 01	-2.01633E 02	02
40.70	1.15024E 00	-4.18536E 01	-5.26615E 00	3.90361E-03	-5.17369E 00	4.28858E 01	-2.01785E 02	02
40.80	1.15024E 00	-4.19529E 01	-5.28972E 00	3.90257E-03	-5.19700E 00	4.29849E 01	-2.01937E 02	02
40.90	1.15023E 00	-4.20521E 01	-5.31334E 00	3.90153E-03	-5.22035E 00	4.30840E 01	-2.02089E 02	02
41.00	1.15023E 00	-4.21513E 01	-5.33701E 00	3.90048E-03	-5.24375E 00	4.31831E 01	-2.02241E 02	02
41.10	1.15022E 00	-4.22505E 01	-5.36073E 00	3.89941E-03	-5.26720E 00	4.32821E 01	-2.02393E 02	02
41.20	1.15021E 00	-4.23497E 01	-5.38450E 00	3.89833E-03	-5.29071E 00	4.33812E 01	-2.02546E 02	02
41.30	1.15021E 00	-4.24488E 01	-5.40832E 00	3.89724E-03	-5.31426E 00	4.34801E 01	-2.02698E 02	02
41.40	1.15020E 00	-4.25479E 01	-5.43219E 00	3.89613E-03	-5.33786E 00	4.35791E 01	-2.02852E 02	02
41.50	1.15020E 00	-4.26470E 01	-5.45610E 00	3.89502E-03	-5.36151E 00	4.36780E 01	-2.03005E 02	02
41.60	1.15019E 00	-4.27460E 01	-5.48007E 00	3.89389E-03	-5.38521E 00	4.37769E 01	-2.03158E 02	02
41.70	1.15019E 00	-4.28450E 01	-5.50409E 00	3.89275E-03	-5.40896E 00	4.38758E 01	-2.03312E 02	02
41.80	1.15018E 00	-4.29439E 01	-5.52815E 00	3.89160E-03	-5.43276E 00	4.39746E 01	-2.03465E 02	02
41.90	1.15018E 00	-4.30429E 01	-5.55227E 00	3.89044E-03	-5.45661E 00	4.40734E 01	-2.03620E 02	02
42.00	1.15017E 00	-4.31418E 01	-5.57643E 00	3.88926E-03	-5.48051E 00	4.41721E 01	-2.03774E 02	02

## ELECTRON RADIAL FUNCTIONS

	$Z = 6$	$A = 12$	$\rho = 1.3 A^{1/3} F$	Electron			
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
36.10	2.47217E-03	-3.49274E 00	-2.35514E-01	3.44612E 01	-2.31013E-01	3.59065E 00	-2.84109E-02
36.20	2.48587E-03	-3.51204E 00	-2.37362E-01	3.44623E 01	-2.32833E-01	3.61022E 00	-2.84117E-02
36.30	2.49962E-03	-3.53140E 00	-2.39220E-01	3.44633E 01	-2.34663E-01	3.62984E 00	-2.84125E-02
36.40	2.51340E-03	-3.55080E 00	-2.41087E-01	3.44644E 01	-2.36503E-01	3.64951E 00	-2.84133E-02
36.50	2.52722E-03	-3.57026E 00	-2.42964E-01	3.44654E 01	-2.38351E-01	3.66923E 00	-2.84140E-02
36.60	2.54108E-03	-3.58977E 00	-2.44850E-01	3.44665E 01	-2.40210E-01	3.68901E 00	-2.84148E-02
36.70	2.55498E-03	-3.60934E 00	-2.46746E-01	3.44675E 01	-2.42078E-01	3.70884E 00	-2.84156E-02
36.80	2.56892E-03	-3.62895E 00	-2.48652E-01	3.44685E 01	-2.43955E-01	3.72871E 00	-2.84163E-02
36.90	2.58289E-03	-3.64862E 00	-2.50567E-01	3.44696E 01	-2.45842E-01	3.74864E 00	-2.84171E-02
37.00	2.59690E-03	-3.66833E 00	-2.52492E-01	3.44706E 01	-2.47739E-01	3.76863E 00	-2.84178E-02
37.10	2.61095E-03	-3.68810E 00	-2.54426E-01	3.44716E 01	-2.49646E-01	3.78866E 00	-2.84186E-02
37.20	2.62504E-03	-3.70792E 00	-2.56371E-01	3.44726E 01	-2.51562E-01	3.80874E 00	-2.84193E-02
37.30	2.63916E-03	-3.72779E 00	-2.58325E-01	3.44736E 01	-2.53487E-01	3.82888E 00	-2.84201E-02
37.40	2.65332E-03	-3.74771E 00	-2.60289E-01	3.44746E 01	-2.55423E-01	3.84906E 00	-2.84208E-02
37.50	2.66752E-03	-3.76769E 00	-2.62263E-01	3.44755E 01	-2.57368E-01	3.86930E 00	-2.84215E-02
37.60	2.68176E-03	-3.78771E 00	-2.64246E-01	3.44765E 01	-2.59323E-01	3.88959E 00	-2.84223E-02
37.70	2.69604E-03	-3.80779E 00	-2.66240E-01	3.44775E 01	-2.61287E-01	3.90993E 00	-2.84230E-02
37.80	2.71035E-03	-3.82792E 00	-2.68243E-01	3.44785E 01	-2.63262E-01	3.93033E 00	-2.84237E-02
37.90	2.72470E-03	-3.84810E 00	-2.70256E-01	3.44794E 01	-2.65246E-01	3.95077E 00	-2.84244E-02
38.00	2.73909E-03	-3.86833E 00	-2.72279E-01	3.44804E 01	-2.67240E-01	3.97126E 00	-2.84252E-02
38.10	2.75352E-03	-3.88861E 00	-2.74312E-01	3.44813E 01	-2.69244E-01	3.99181E 00	-2.84259E-02
38.20	2.76799E-03	-3.90894E 00	-2.76355E-01	3.44823E 01	-2.71258E-01	4.01241E 00	-2.84266E-02
38.30	2.78249E-03	-3.92933E 00	-2.78408E-01	3.44832E 01	-2.73282E-01	4.03306E 00	-2.84273E-02
38.40	2.79703E-03	-3.94976E 00	-2.80471E-01	3.44842E 01	-2.75316E-01	4.05376E 00	-2.84280E-02
38.50	2.81161E-03	-3.97025E 00	-2.82544E-01	3.44851E 01	-2.77359E-01	4.07451E 00	-2.84287E-02
38.60	2.82623E-03	-3.99079E 00	-2.84628E-01	3.44860E 01	-2.79413E-01	4.09531E 00	-2.84294E-02
38.70	2.84088E-03	-4.01138E 00	-2.86721E-01	3.44869E 01	-2.81477E-01	4.11616E 00	-2.84301E-02
38.80	2.85557E-03	-4.03202E 00	-2.88824E-01	3.44879E 01	-2.83550E-01	4.13707E 00	-2.84308E-02
38.90	2.87031E-03	-4.05271E 00	-2.90938E-01	3.44888E 01	-2.85634E-01	4.15802E 00	-2.84314E-02
39.00	2.88507E-03	-4.07345E 00	-2.93061E-01	3.44897E 01	-2.87728E-01	4.17903E 00	-2.84321E-02
39.10	2.89988E-03	-4.09425E 00	-2.95195E-01	3.44906E 01	-2.89832E-01	4.20009E 00	-2.84328E-02
39.20	2.91472E-03	-4.11509E 00	-2.97339E-01	3.44915E 01	-2.91946E-01	4.22120E 00	-2.84335E-02
39.30	2.92961E-03	-4.13599E 00	-2.99494E-01	3.44924E 01	-2.94070E-01	4.24236E 00	-2.84342E-02
39.40	2.94453E-03	-4.15694E 00	-3.01658E-01	3.44933E 01	-2.96205E-01	4.26357E 00	-2.84348E-02
39.50	2.95948E-03	-4.17794E 00	-3.03833E-01	3.44941E 01	-2.98349E-01	4.28483E 00	-2.84355E-02
39.60	2.97448E-03	-4.19898E 00	-3.06018E-01	3.44950E 01	-3.00504E-01	4.30614E 00	-2.84362E-02
39.70	2.98951E-03	-4.22009E 00	-3.08213E-01	3.44959E 01	-3.02669E-01	4.32751E 00	-2.84368E-02
39.80	3.00459E-03	-4.24124E 00	-3.10419E-01	3.44968E 01	-3.04844E-01	4.34892E 00	-2.84375E-02
39.90	3.01970E-03	-4.26244E 00	-3.12635E-01	3.44976E 01	-3.07030E-01	4.37039E 00	-2.84381E-02
40.00	3.03484E-03	-4.28369E 00	-3.14862E-01	3.44985E 01	-3.09226E-01	4.39190E 00	-2.84388E-02
40.10	3.05003E-03	-4.30500E 00	-3.17099E-01	3.44993E 01	-3.11432E-01	4.41347E 00	-2.84394E-02
40.20	3.06525E-03	-4.32635E 00	-3.19346E-01	3.45002E 01	-3.13648E-01	4.43509E 00	-2.84401E-02
40.30	3.08051E-03	-4.34776E 00	-3.21604E-01	3.45010E 01	-3.15875E-01	4.45676E 00	-2.84407E-02
40.40	3.09581E-03	-4.36922E 00	-3.23872E-01	3.45019E 01	-3.18113E-01	4.47848E 00	-2.84414E-02
40.50	3.11115E-03	-4.39073E 00	-3.26151E-01	3.45027E 01	-3.20360E-01	4.50025E 00	-2.84420E-02
40.60	3.12652E-03	-4.41229E 00	-3.28440E-01	3.45036E 01	-3.22619E-01	4.52207E 00	-2.84426E-02
40.70	3.14193E-03	-4.43390E 00	-3.30740E-01	3.45044E 01	-3.24887E-01	4.54394E 00	-2.84432E-02
40.80	3.15738E-03	-4.45556E 00	-3.33051E-01	3.45052E 01	-3.27167E-01	4.56587E 00	-2.84439E-02
40.90	3.17287E-03	-4.47727E 00	-3.35372E-01	3.45060E 01	-3.29456E-01	4.58784E 00	-2.84445E-02
41.00	3.18840E-03	-4.49903E 00	-3.37703E-01	3.45068E 01	-3.31756E-01	4.60987E 00	-2.84451E-02
41.10	3.20396E-03	-4.52084E 00	-3.40046E-01	3.45077E 01	-3.34067E-01	4.63194E 00	-2.84457E-02
41.20	3.21957E-03	-4.54271E 00	-3.42399E-01	3.45085E 01	-3.36389E-01	4.65407E 00	-2.84464E-02
41.30	3.23520E-03	-4.56462E 00	-3.44762E-01	3.45093E 01	-3.38721E-01	4.67625E 00	-2.84470E-02
41.40	3.25088E-03	-4.58659E 00	-3.47137E-01	3.45101E 01	-3.41063E-01	4.69848E 00	-2.84476E-02
41.50	3.26660E-03	-4.60860E 00	-3.49522E-01	3.45109E 01	-3.43416E-01	4.72075E 00	-2.84482E-02
41.60	3.28235E-03	-4.63067E 00	-3.51918E-01	3.45116E 01	-3.45780E-01	4.74308E 00	-2.84488E-02
41.70	3.29814E-03	-4.65279E 00	-3.54324E-01	3.45124E 01	-3.48155E-01	4.76546E 00	-2.84494E-02
41.80	3.31397E-03	-4.67496E 00	-3.56742E-01	3.45132E 01	-3.50540E-01	4.78789E 00	-2.84500E-02
41.90	3.32984E-03	-4.69718E 00	-3.59170E-01	3.45140E 01	-3.52937E-01	4.81037E 00	-2.84506E-02
42.00	3.34574E-03	-4.71945E 00	-3.61609E-01	3.45148E 01	-3.55343E-01	4.83291E 00	-2.84512E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z = 7$		$A = 14$		$\rho = 1.3 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
0.10	3.43514E 00	-1.46279E-02	-3.78335E-04	-2.25885E-01	-5.34751E-03	2.61451E-01	-3.91461E 00	
0.20	2.07539E 00	-4.14041E-02	-1.07254E-03	-1.06907E-01	-8.29905E-03	4.04965E-01	-6.91789E 00	
0.30	1.69410E 00	-8.12902E-02	-2.11108E-03	-6.96957E-02	-1.12180E-02	5.45652E-01	-1.00608E 01	
0.40	1.52285E 00	-1.33008E-01	-3.46606E-03	-5.12808E-02	-1.41356E-02	6.84590E-01	-1.31709E 01	
0.50	1.42806E 00	-1.95045E-01	-5.10433E-03	-4.02320E-02	-1.70499E-02	8.21320E-01	-1.62136E 01	
0.60	1.36907E 00	-2.65832E-01	-6.99150E-03	-3.28394E-02	-1.99610E-02	9.55547E-01	-1.91755E 01	
0.70	1.32951E 00	-3.43881E-01	-9.09492E-03	-2.75315E-02	-2.28712E-02	1.08719E 00	-2.20506E 01	
0.80	1.30155E 00	-4.27854E-01	-1.13853E-02	-2.35270E-02	-2.57852E-02	1.21632E 00	-2.48363E 01	
0.90	1.28102E 00	-5.16611E-01	-1.38377E-02	-2.03932E-02	-2.87082E-02	1.34310E 00	-2.75322E 01	
1.00	1.26547E 00	-6.09199E-01	-1.64313E-02	-1.78710E-02	-3.16460E-02	1.46774E 00	-3.01393E 01	
1.10	1.25341E 00	-7.04849E-01	-1.91494E-02	-1.57951E-02	-3.46042E-02	1.59048E 00	-3.26593E 01	
1.20	1.24387E 00	-8.02939E-01	-2.19783E-02	-1.40556E-02	-3.75877E-02	1.71154E 00	-3.50948E 01	
1.30	1.23618E 00	-9.02977E-01	-2.49075E-02	-1.25759E-02	-4.06011E-02	1.83113E 00	-3.74486E 01	
1.40	1.22989E 00	-1.00457E 00	-2.79285E-02	-1.13013E-02	-4.36485E-02	1.94944E 00	-3.97236E 01	
1.50	1.22469E 00	-1.10742E 00	-3.10346E-02	-1.01915E-02	-4.67332E-02	2.06664E 00	-4.19230E 01	
1.60	1.22033E 00	-1.21127E 00	-3.42205E-02	-9.21636E-03	-4.98583E-02	2.18288E 00	-4.40498E 01	
1.70	1.21665E 00	-1.31594E 00	-3.74822E-02	-8.35250E-03	-5.30262E-02	2.29828E 00	-4.61071E 01	
1.80	1.21350E 00	-1.42126E 00	-4.08164E-02	-7.58182E-03	-5.62390E-02	2.41294E 00	-4.80981E 01	
1.90	1.21078E 00	-1.52712E 00	-4.42203E-02	-6.88991E-03	-5.94987E-02	2.52697E 00	-5.00254E 01	
2.00	1.20843E 00	-1.63342E 00	-4.76920E-02	-6.26521E-03	-6.28066E-02	2.64044E 00	-5.18919E 01	
2.10	1.20637E 00	-1.74008E 00	-5.12298E-02	-5.69836E-03	-6.61641E-02	2.75342E 00	-5.37002E 01	
2.20	1.20456E 00	-1.84703E 00	-5.48322E-02	-5.18163E-03	-6.95723E-02	2.86597E 00	-5.54529E 01	
2.30	1.20296E 00	-1.95423E 00	-5.84983E-02	-4.70865E-03	-7.30322E-02	2.97814E 00	-5.71525E 01	
2.40	1.20154E 00	-2.06163E 00	-6.22270E-02	-4.27406E-03	-7.65445E-02	3.08997E 00	-5.88012E 01	
2.50	1.20027E 00	-2.16920E 00	-6.60178E-02	-3.87336E-03	-8.01100E-02	3.20149E 00	-6.04012E 01	
2.60	1.19913E 00	-2.27690E 00	-6.98699E-02	-3.50272E-03	-8.37292E-02	3.31275E 00	-6.19546E 01	
2.70	1.19810E 00	-2.38473E 00	-7.37829E-02	-3.15889E-03	-8.74026E-02	3.42377E 00	-6.34634E 01	
2.80	1.19716E 00	-2.49264E 00	-7.77564E-02	-2.83904E-03	-9.11308E-02	3.53456E 00	-6.49294E 01	
2.90	1.19631E 00	-2.60064E 00	-8.17900E-02	-2.54075E-03	-9.49140E-02	3.64517E 00	-6.63543E 01	
3.00	1.19554E 00	-2.70870E 00	-8.58835E-02	-2.26192E-03	-9.87526E-02	3.75559E 00	-6.77400E 01	
3.10	1.19483E 00	-2.81681E 00	-9.00366E-02	-2.00069E-03	-1.02647E-01	3.86585E 00	-6.90879E 01	
3.20	1.19418E 00	-2.92497E 00	-9.42490E-02	-1.75546E-03	-1.06597E-01	3.97596E 00	-7.03997E 01	
3.30	1.19358E 00	-3.03316E 00	-9.85207E-02	-1.52478E-03	-1.10604E-01	4.08594E 00	-7.16767E 01	
3.40	1.19303E 00	-3.14139E 00	-1.02851E-01	-1.30742E-03	-1.14666E-01	4.19580E 00	-7.29202E 01	
3.50	1.19251E 00	-3.24963E 00	-1.07241E-01	-1.10225E-03	-1.18786E-01	4.30554E 00	-7.41317E 01	
3.60	1.19204E 00	-3.35790E 00	-1.11690E-01	-9.08262E-04	-1.22962E-01	4.41517E 00	-7.53122E 01	
3.70	1.19159E 00	-3.46617E 00	-1.16197E-01	-7.24582E-04	-1.27195E-01	4.52471E 00	-7.64631E 01	
3.80	1.19118E 00	-3.57446E 00	-1.20763E-01	-5.50410E-04	-1.31484E-01	4.63416E 00	-7.75854E 01	
3.90	1.19079E 00	-3.68275E 00	-1.25388E-01	-3.85016E-04	-1.35831E-01	4.74352E 00	-7.86801E 01	
4.00	1.19043E 00	-3.79105E 00	-1.30071E-01	-2.27770E-04	-1.40235E-01	4.85280E 00	-7.97483E 01	
4.10	1.19009E 00	-3.89935E 00	-1.34812E-01	-7.80669E-05	-1.44696E-01	4.96201E 00	-8.07910E 01	
4.20	1.18977E 00	-4.00764E 00	-1.39612E-01	6.46044E-05	-1.49215E-01	5.07115E 00	-8.18090E 01	
4.30	1.18947E 00	-4.11594E 00	-1.44471E-01	2.00730E-04	-1.53790E-01	5.18023E 00	-8.28032E 01	
4.40	1.18918E 00	-4.22423E 00	-1.49387E-01	3.30752E-04	-1.58424E-01	5.28924E 00	-8.37746E 01	
4.50	1.18891E 00	-4.33251E 00	-1.54363E-01	4.55072E-04	-1.63114E-01	5.39820E 00	-8.47237E 01	
4.60	1.18866E 00	-4.44079E 00	-1.59396E-01	5.74050E-04	-1.67862E-01	5.50710E 00	-8.56516E 01	
4.70	1.18841E 00	-4.54906E 00	-1.64488E-01	6.88030E-04	-1.72668E-01	5.61595E 00	-8.65587E 01	
4.80	1.18818E 00	-4.65732E 00	-1.69637E-01	7.97303E-04	-1.77531E-01	5.72475E 00	-8.74459E 01	
4.90	1.18797E 00	-4.76557E 00	-1.74846E-01	9.02172E-04	-1.82452E-01	5.83351E 00	-8.83138E 01	
5.00	1.18776E 00	-4.87381E 00	-1.80112E-01	1.00288E-03	-1.87431E-01	5.94221E 00	-8.91632E 01	
5.10	1.18756E 00	-4.98203E 00	-1.85436E-01	1.09968E-03	-1.92467E-01	6.05088E 00	-8.99944E 01	
5.20	1.18737E 00	-5.09025E 00	-1.90819E-01	1.19279E-03	-1.97561E-01	6.15950E 00	-9.08081E 01	
5.30	1.18719E 00	-5.19846E 00	-1.96259E-01	1.28241E-03	-2.02713E-01	6.26808E 00	-9.16050E 01	
5.40	1.18701E 00	-5.30665E 00	-2.01758E-01	1.36874E-03	-2.07922E-01	6.37663E 00	-9.23855E 01	
5.50	1.18685E 00	-5.41483E 00	-2.07315E-01	1.45195E-03	-2.13189E-01	6.48514E 00	-9.31502E 01	
5.60	1.18669E 00	-5.52299E 00	-2.12930E-01	1.53220E-03	-2.18514E-01	6.59361E 00	-9.38995E 01	
5.70	1.18654E 00	-5.63115E 00	-2.18603E-01	1.60966E-03	-2.23897E-01	6.70205E 00	-9.46339E 01	
5.80	1.18639E 00	-5.73928E 00	-2.24335E-01	1.68445E-03	-2.29337E-01	6.81045E 00	-9.53539E 01	
5.90	1.18625E 00	-5.84741E 00	-2.30124E-01	1.75673E-03	-2.34836E-01	6.91883E 00	-9.60599E 01	
6.00	1.18611E 00	-5.95552E 00	-2.35971E-01	1.82661E-03	-2.40392E-01	7.02717E 00	-9.67523E 01	

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$        $A = 14$  $\rho = 1.3 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	7.85280E-08	-4.05978E-06	-6.06179E-08	1.94277E 00	-9.24682E-07	7.91313E-05	-2.29191E-01
0.20	1.60460E-07	-2.24872E-05	-3.36304E-07	4.11403E 00	-2.63940E-06	2.25407E-04	-1.11893E-01
0.30	2.84826E-07	-6.59604E-05	-9.89057E-07	6.14817E 00	-5.26198E-06	4.47874E-04	-7.64553E-02
0.40	4.49730E-07	-1.43712E-04	-2.16262E-06	8.05829E 00	-8.78957E-06	7.44727E-04	-5.97701E-02
0.50	6.55347E-07	-2.63285E-04	-3.97951E-06	9.83124E 00	-1.32193E-05	1.11377E-03	-5.03732E-02
0.60	9.02077E-07	-4.30500E-04	-6.54061E-06	1.14583E 01	-1.85502E-05	1.55269E-03	-4.45394E-02
0.70	1.19031E-06	-6.49637E-04	-9.92741E-06	1.29379E 01	-2.47846E-05	2.05928E-03	-4.06906E-02
0.80	1.52037E-06	-9.23702E-04	-1.42055E-05	1.42744E 01	-3.19289E-05	2.63160E-03	-3.80444E-02
0.90	1.89254E-06	-1.25473E-03	-1.94281E-05	1.54762E 01	-3.99940E-05	3.26802E-03	-3.61704E-02
1.00	2.30702E-06	-1.64403E-03	-2.56399E-05	1.65540E 01	-4.89941E-05	3.96722E-03	-3.48137E-02
1.10	2.76399E-06	-2.09244E-03	-3.28790E-05	1.75196E 01	-5.89470E-05	4.72814E-03	-3.38151E-02
1.20	3.26357E-06	-2.60042E-03	-4.11796E-05	1.83847E 01	-6.98730E-05	5.54999E-03	-3.30706E-02
1.30	3.80587E-06	-3.16824E-03	-5.05730E-05	1.91605E 01	-8.17944E-05	6.43214E-03	-3.25105E-02
1.40	4.39096E-06	-3.79602E-03	-6.10890E-05	1.98573E 01	-9.47352E-05	7.37414E-03	-3.20863E-02
1.50	5.01891E-06	-4.48376E-03	-7.27560E-05	2.04844E 01	-1.08720E-04	8.37563E-03	-3.17639E-02
1.60	5.68977E-06	-5.23144E-03	-8.56020E-05	2.10502E 01	-1.23776E-04	9.43635E-03	-3.15186E-02
1.70	6.40357E-06	-6.03900E-03	-9.96545E-05	2.15618E 01	-1.39930E-04	1.05561E-02	-3.13324E-02
1.80	7.16033E-06	-6.90635E-03	-1.14941E-04	2.20258E 01	-1.57207E-04	1.17347E-02	-3.11919E-02
1.90	7.96010E-06	-7.83341E-03	-1.31489E-04	2.24476E 01	-1.75637E-04	1.29721E-02	-3.10869E-02
2.00	8.80288E-06	-8.82008E-03	-1.49325E-04	2.28322E 01	-1.95247E-04	1.42682E-02	-3.10099E-02
2.10	9.68869E-06	-9.86629E-03	-1.68477E-04	2.31838E 01	-2.16064E-04	1.56229E-02	-3.09549E-02
2.20	1.06175E-05	-1.09720E-02	-1.88973E-04	2.35061E 01	-2.38118E-04	1.70362E-02	-3.09174E-02
2.30	1.15894E-05	-1.21370E-02	-2.10839E-04	2.38022E 01	-2.61436E-04	1.85081E-02	-3.08937E-02
2.40	1.26044E-05	-1.33613E-02	-2.34104E-04	2.40750E 01	-2.86047E-04	2.00385E-02	-3.08811E-02
2.50	1.36624E-05	-1.46449E-02	-2.58796E-04	2.43269E 01	-3.11980E-04	2.16273E-02	-3.08774E-02
2.60	1.47635E-05	-1.59877E-02	-2.84941E-04	2.45600E 01	-3.39261E-04	2.32747E-02	-3.08807E-02
2.70	1.59076E-05	-1.73896E-02	-3.12568E-04	2.47763E 01	-3.67922E-04	2.49806E-02	-3.08897E-02
2.80	1.70948E-05	-1.88506E-02	-3.41705E-04	2.49773E 01	-3.97988E-04	2.67449E-02	-3.09032E-02
2.90	1.83251E-05	-2.03706E-02	-3.72380E-04	2.51646E 01	-4.29490E-04	2.85677E-02	-3.09203E-02
3.00	1.95985E-05	-2.19497E-02	-4.04621E-04	2.53393E 01	-4.62456E-04	3.04490E-02	-3.09402E-02
3.10	2.09149E-05	-2.35876E-02	-4.38455E-04	2.55027E 01	-4.96914E-04	3.23887E-02	-3.09624E-02
3.20	2.22745E-05	-2.52845E-02	-4.73911E-04	2.56558E 01	-5.32892E-04	3.43869E-02	-3.09863E-02
3.30	2.36771E-05	-2.70403E-02	-5.11017E-04	2.57994E 01	-5.70420E-04	3.64436E-02	-3.10115E-02
3.40	2.51227E-05	-2.88550E-02	-5.49800E-04	2.59344E 01	-6.09525E-04	3.85587E-02	-3.10377E-02
3.50	2.66115E-05	-3.07285E-02	-5.90290E-04	2.60615E 01	-6.50237E-04	4.07323E-02	-3.10646E-02
3.60	2.81434E-05	-3.26608E-02	-6.32515E-04	2.61813E 01	-6.92584E-04	4.29643E-02	-3.10920E-02
3.70	2.97183E-05	-3.46518E-02	-6.76502E-04	2.62944E 01	-7.36593E-04	4.52547E-02	-3.11197E-02
3.80	3.13363E-05	-3.67017E-02	-7.22280E-04	2.64013E 01	-7.82295E-04	4.76037E-02	-3.11476E-02
3.90	3.29973E-05	-3.88103E-02	-7.69877E-04	2.65026E 01	-8.29716E-04	5.00110E-02	-3.11755E-02
4.00	3.47014E-05	-4.09776E-02	-8.19321E-04	2.65985E 01	-8.78887E-04	5.24768E-02	-3.12033E-02
4.10	3.64487E-05	-4.32036E-02	-8.70641E-04	2.66896E 01	-9.29834E-04	5.50010E-02	-3.12309E-02
4.20	3.82390E-05	-4.54883E-02	-9.23865E-04	2.67761E 01	-9.82587E-04	5.75837E-02	-3.12583E-02
4.30	4.00723E-05	-4.78317E-02	-9.79021E-04	2.68585E 01	-1.03717E-03	6.02248E-02	-3.12855E-02
4.40	4.19488E-05	-5.02338E-02	-1.03614E-03	2.69368E 01	-1.09363E-03	6.29244E-02	-3.13123E-02
4.50	4.38683E-05	-5.26944E-02	-1.09524E-03	2.70116E 01	-1.15197E-03	6.56824E-02	-3.13388E-02
4.60	4.58309E-05	-5.52137E-02	-1.15636E-03	2.70829E 01	-1.21223E-03	6.84988E-02	-3.13648E-02
4.70	4.78365E-05	-5.77917E-02	-1.21953E-03	2.71510E 01	-1.27443E-03	7.13736E-02	-3.13905E-02
4.80	4.98852E-05	-6.04282E-02	-1.28477E-03	2.72161E 01	-1.33862E-03	7.43068E-02	-3.14157E-02
4.90	5.19770E-05	-6.31233E-02	-1.35211E-03	2.72784E 01	-1.40481E-03	7.72985E-02	-3.14405E-02
5.00	5.41119E-05	-6.58770E-02	-1.42159E-03	2.73381E 01	-1.47303E-03	8.03486E-02	-3.14649E-02
5.10	5.62898E-05	-6.86893E-02	-1.49322E-03	2.73952E 01	-1.54332E-03	8.34571E-02	-3.14888E-02
5.20	5.85109E-05	-7.15601E-02	-1.56704E-03	2.74501E 01	-1.61569E-03	8.66240E-02	-3.15123E-02
5.30	6.07749E-05	-7.44895E-02	-1.64307E-03	2.75028E 01	-1.69018E-03	8.98493E-02	-3.15353E-02
5.40	6.30820E-05	-7.74774E-02	-1.72135E-03	2.75534E 01	-1.76682E-03	9.31330E-02	-3.15579E-02
5.50	6.54323E-05	-8.05238E-02	-1.80190E-03	2.76020E 01	-1.84564E-03	9.64751E-02	-3.15800E-02
5.60	6.78255E-05	-8.36287E-02	-1.88475E-03	2.76488E 01	-1.92666E-03	9.98755E-02	-3.16017E-02
5.70	7.02618E-05	-8.67922E-02	-1.96993E-03	2.76939E 01	-2.00991E-03	1.03354E-01	-3.16230E-02
5.80	7.27412E-05	-9.00141E-02	-2.05746E-03	2.77373E 01	-2.09542E-03	1.06852E-01	-3.16438E-02
5.90	7.52636E-05	-9.32945E-02	-2.14738E-03	2.77792E 01	-2.18322E-03	1.10427E-01	-3.16642E-02
6.00	7.78291E-05	-9.66334E-02	-2.23971E-03	2.78195E 01	-2.27334E-03	1.14061E-01	-3.16842E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.3 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	1.18598E 00	-6.06361E 00	-2.41876E-01	1.89419E-03	-2.46006E-01	7.13548E 00	-9.74315E 01	01
6.20	1.18585E 00	-6.17169E 00	-2.47840E-01	1.95961E-03	-2.51677E-01	7.24376E 00	-9.80979E 01	01
6.30	1.18573E 00	-6.27975E 00	-2.53861E-01	2.02295E-03	-2.57407E-01	7.35201E 00	-9.87520E 01	01
6.40	1.18561E 00	-6.38780E 00	-2.59940E-01	2.08431E-03	-2.63194E-01	7.46023E 00	-9.93939E 01	01
6.50	1.18550E 00	-6.49584E 00	-2.66078E-01	2.14379E-03	-2.69039E-01	7.56843E 00	-1.00024E 02	02
6.60	1.18539E 00	-6.60385E 00	-2.72273E-01	2.20147E-03	-2.74942E-01	7.67660E 00	-1.00643E 02	02
6.70	1.18528E 00	-6.71186E 00	-2.78526E-01	2.25741E-03	-2.80903E-01	7.78474E 00	-1.01251E 02	02
6.80	1.18518E 00	-6.81984E 00	-2.84837E-01	2.31171E-03	-2.86921E-01	7.89285E 00	-1.01848E 02	02
6.90	1.18508E 00	-6.92782E 00	-2.91206E-01	2.36442E-03	-2.92998E-01	8.00094E 00	-1.02435E 02	02
7.00	1.18498E 00	-7.03577E 00	-2.97633E-01	2.41563E-03	-2.99132E-01	8.10901E 00	-1.03011E 02	02
7.10	1.18488E 00	-7.14371E 00	-3.04118E-01	2.46539E-03	-3.05324E-01	8.21705E 00	-1.03578E 02	02
7.20	1.18479E 00	-7.25163E 00	-3.10661E-01	2.51376E-03	-3.11574E-01	8.32506E 00	-1.04134E 02	02
7.30	1.18470E 00	-7.35954E 00	-3.17262E-01	2.56080E-03	-3.17881E-01	8.43306E 00	-1.04682E 02	02
7.40	1.18461E 00	-7.46743E 00	-3.23920E-01	2.60654E-03	-3.24247E-01	8.54102E 00	-1.05221E 02	02
7.50	1.18453E 00	-7.57530E 00	-3.30637E-01	2.65108E-03	-3.30670E-01	8.64897E 00	-1.05750E 02	02
7.60	1.18445E 00	-7.68316E 00	-3.37411E-01	2.69442E-03	-3.37151E-01	8.75689E 00	-1.06271E 02	02
7.70	1.18437E 00	-7.79100E 00	-3.44243E-01	2.73663E-03	-3.43690E-01	8.86479E 00	-1.06783E 02	02
7.80	1.18429E 00	-7.89883E 00	-3.51133E-01	2.77774E-03	-3.50286E-01	8.97266E 00	-1.07288E 02	02
7.90	1.18421E 00	-8.00664E 00	-3.58081E-01	2.81780E-03	-3.56941E-01	9.08052E 00	-1.07784E 02	02
8.00	1.18414E 00	-8.11443E 00	-3.65087E-01	2.85684E-03	-3.63653E-01	9.18835E 00	-1.08272E 02	02
8.10	1.18407E 00	-8.22220E 00	-3.72151E-01	2.89491E-03	-3.70423E-01	9.29616E 00	-1.08753E 02	02
8.20	1.18400E 00	-8.32996E 00	-3.79272E-01	2.93204E-03	-3.77251E-01	9.40395E 00	-1.09227E 02	02
8.30	1.18393E 00	-8.43770E 00	-3.86451E-01	2.96826E-03	-3.84136E-01	9.51172E 00	-1.09693E 02	02
8.40	1.18386E 00	-8.54543E 00	-3.93688E-01	3.00360E-03	-3.91079E-01	9.61946E 00	-1.10152E 02	02
8.50	1.18379E 00	-8.65313E 00	-4.00983E-01	3.03809E-03	-3.98080E-01	9.72718E 00	-1.10605E 02	02
8.60	1.18373E 00	-8.76082E 00	-4.08335E-01	3.07177E-03	-4.05139E-01	9.83489E 00	-1.11050E 02	02
8.70	1.18366E 00	-8.86850E 00	-4.15745E-01	3.10465E-03	-4.12255E-01	9.94257E 00	-1.11489E 02	02
8.80	1.18360E 00	-8.97616E 00	-4.23213E-01	3.13678E-03	-4.19429E-01	1.00502E 01	-1.11922E 02	02
8.90	1.18354E 00	-9.08380E 00	-4.30739E-01	3.16816E-03	-4.26661E-01	1.01579E 01	-1.12348E 02	02
9.00	1.18348E 00	-9.19142E 00	-4.38322E-01	3.19884E-03	-4.33951E-01	1.02655E 01	-1.12769E 02	02
9.10	1.18342E 00	-9.29902E 00	-4.45963E-01	3.22882E-03	-4.41298E-01	1.03731E 01	-1.13183E 02	02
9.20	1.18337E 00	-9.40661E 00	-4.53662E-01	3.25814E-03	-4.48703E-01	1.04807E 01	-1.13592E 02	02
9.30	1.18331E 00	-9.51418E 00	-4.61419E-01	3.28680E-03	-4.56165E-01	1.05882E 01	-1.13995E 02	02
9.40	1.18326E 00	-9.62173E 00	-4.69233E-01	3.31484E-03	-4.63685E-01	1.06958E 01	-1.14392E 02	02
9.50	1.18320E 00	-9.72927E 00	-4.77105E-01	3.34226E-03	-4.71263E-01	1.08033E 01	-1.14784E 02	02
9.60	1.18315E 00	-9.83679E 00	-4.85034E-01	3.36911E-03	-4.78899E-01	1.09108E 01	-1.15171E 02	02
9.70	1.18310E 00	-9.94429E 00	-4.93021E-01	3.39538E-03	-4.86592E-01	1.10183E 01	-1.15552E 02	02
9.80	1.18304E 00	-1.00518E 01	-5.01066E-01	3.42109E-03	-4.94342E-01	1.11257E 01	-1.15929E 02	02
9.90	1.18299E 00	-1.01592E 01	-5.09168E-01	3.44627E-03	-5.02151E-01	1.12332E 01	-1.16300E 02	02
10.00	1.18295E 00	-1.02667E 01	-5.17328E-01	3.47092E-03	-5.10017E-01	1.13406E 01	-1.16667E 02	02
10.10	1.18290E 00	-1.03741E 01	-5.25546E-01	3.49507E-03	-5.17940E-01	1.14480E 01	-1.17029E 02	02
10.20	1.18285E 00	-1.04815E 01	-5.33821E-01	3.51872E-03	-5.25922E-01	1.15554E 01	-1.17386E 02	02
10.30	1.18280E 00	-1.05889E 01	-5.42154E-01	3.54189E-03	-5.33960E-01	1.16627E 01	-1.17739E 02	02
10.40	1.18276E 00	-1.06963E 01	-5.50544E-01	3.56462E-03	-5.42057E-01	1.17701E 01	-1.18087E 02	02
10.50	1.18271E 00	-1.08037E 01	-5.58992E-01	3.58687E-03	-5.50211E-01	1.18774E 01	-1.18431E 02	02
10.60	1.18267E 00	-1.09110E 01	-5.67498E-01	3.60869E-03	-5.58422E-01	1.19847E 01	-1.18771E 02	02
10.70	1.18262E 00	-1.10183E 01	-5.76061E-01	3.63008E-03	-5.66691E-01	1.20920E 01	-1.19106E 02	02
10.80	1.18258E 00	-1.11256E 01	-5.84681E-01	3.65106E-03	-5.75018E-01	1.21992E 01	-1.19438E 02	02
10.90	1.18254E 00	-1.12329E 01	-5.93359E-01	3.67163E-03	-5.83402E-01	1.23065E 01	-1.19766E 02	02
11.00	1.18250E 00	-1.13402E 01	-6.02095E-01	3.69181E-03	-5.91843E-01	1.24137E 01	-1.20089E 02	02
11.10	1.18246E 00	-1.14475E 01	-6.10888E-01	3.71160E-03	-6.00342E-01	1.25209E 01	-1.20409E 02	02
11.20	1.18242E 00	-1.15547E 01	-6.19738E-01	3.73103E-03	-6.08899E-01	1.26281E 01	-1.20725E 02	02
11.30	1.18238E 00	-1.16619E 01	-6.28646E-01	3.75008E-03	-6.17513E-01	1.27352E 01	-1.21038E 02	02
11.40	1.18234E 00	-1.17691E 01	-6.37612E-01	3.76878E-03	-6.26184E-01	1.28424E 01	-1.21347E 02	02
11.50	1.18230E 00	-1.18763E 01	-6.46634E-01	3.78714E-03	-6.34913E-01	1.29495E 01	-1.21652E 02	02
11.60	1.18226E 00	-1.19835E 01	-6.55715E-01	3.80516E-03	-6.43699E-01	1.30566E 01	-1.21954E 02	02
11.70	1.18222E 00	-1.20906E 01	-6.64852E-01	3.82285E-03	-6.52543E-01	1.31637E 01	-1.22252E 02	02
11.80	1.18218E 00	-1.21977E 01	-6.74047E-01	3.84022E-03	-6.61444E-01	1.32707E 01	-1.22548E 02	02
11.90	1.18215E 00	-1.23048E 01	-6.83300E-01	3.85727E-03	-6.70403E-01	1.33778E 01	-1.22840E 02	02
12.00	1.18211E 00	-1.24119E 01	-6.92610E-01	3.87403E-03	-6.79419E-01	1.34848E 01	-1.23128E 02	02

## ELECTRON RADIAL FUNCTIONS

 $Z=7$  $A=14$  $\rho=1.3 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	8.04377E-05	-1.00031E-01	-2.33449E-03	2.78585E 01	-2.36580E-03	1.17753E-01	-3.17038E-02
6.20	8.30893E-05	-1.03487E-01	-2.43174E-03	2.78961E 01	-2.46064E-03	1.21504E-01	-3.17230E-02
6.30	8.57840E-05	-1.07001E-01	-2.53148E-03	2.79325E 01	-2.55787E-03	1.25313E-01	-3.17418E-02
6.40	8.85217E-05	-1.10574E-01	-2.63375E-03	2.79676E 01	-2.65754E-03	1.29180E-01	-3.17603E-02
6.50	9.13025E-05	-1.14205E-01	-2.73857E-03	2.80016E 01	-2.75967E-03	1.33106E-01	-3.17783E-02
6.60	9.41263E-05	-1.17894E-01	-2.84598E-03	2.80345E 01	-2.86429E-03	1.37090E-01	-3.17960E-02
6.70	9.69932E-05	-1.21642E-01	-2.95600E-03	2.80664E 01	-2.97142E-03	1.41133E-01	-3.18134E-02
6.80	9.99031E-05	-1.25449E-01	-3.06866E-03	2.80972E 01	-3.08109E-03	1.45233E-01	-3.18303E-02
6.90	1.02856E-04	-1.29313E-01	-3.18399E-03	2.81271E 01	-3.19334E-03	1.49392E-01	-3.18470E-02
7.00	1.05852E-04	-1.33237E-01	-3.30201E-03	2.81561E 01	-3.30819E-03	1.53609E-01	-3.18633E-02
7.10	1.08891E-04	-1.37218E-01	-3.42276E-03	2.81843E 01	-3.42566E-03	1.57885E-01	-3.18793E-02
7.20	1.11973E-04	-1.41258E-01	-3.54626E-03	2.82116E 01	-3.54580E-03	1.62219E-01	-3.18950E-02
7.30	1.15099E-04	-1.45356E-01	-3.67255E-03	2.82381E 01	-3.66862E-03	1.66611E-01	-3.19104E-02
7.40	1.18267E-04	-1.49513E-01	-3.80164E-03	2.82638E 01	-3.79415E-03	1.71062E-01	-3.19255E-02
7.50	1.21478E-04	-1.53728E-01	-3.93357E-03	2.82888E 01	-3.92243E-03	1.75570E-01	-3.19402E-02
7.60	1.24733E-04	-1.58001E-01	-4.06836E-03	2.83131E 01	-4.05347E-03	1.80137E-01	-3.19547E-02
7.70	1.28030E-04	-1.62333E-01	-4.20606E-03	2.83368E 01	-4.18732E-03	1.84763E-01	-3.19690E-02
7.80	1.31370E-04	-1.66723E-01	-4.34667E-03	2.83598E 01	-4.32399E-03	1.89446E-01	-3.19829E-02
7.90	1.34754E-04	-1.71171E-01	-4.49023E-03	2.83822E 01	-4.46352E-03	1.94188E-01	-3.19966E-02
8.00	1.38180E-04	-1.75677E-01	-4.63678E-03	2.84040E 01	-4.60593E-03	1.98988E-01	-3.20100E-02
8.10	1.41650E-04	-1.80242E-01	-4.78633E-03	2.84252E 01	-4.75125E-03	2.03846E-01	-3.20232E-02
8.20	1.45163E-04	-1.84865E-01	-4.93891E-03	2.84458E 01	-4.89951E-03	2.08763E-01	-3.20362E-02
8.30	1.48718E-04	-1.89547E-01	-5.09456E-03	2.84660E 01	-5.05074E-03	2.13737E-01	-3.20489E-02
8.40	1.52317E-04	-1.94287E-01	-5.25331E-03	2.84856E 01	-5.20497E-03	2.18770E-01	-3.20613E-02
8.50	1.55959E-04	-1.99085E-01	-5.41517E-03	2.85048E 01	-5.36222E-03	2.23861E-01	-3.20736E-02
8.60	1.59643E-04	-2.03941E-01	-5.58018E-03	2.85234E 01	-5.52253E-03	2.29010E-01	-3.20856E-02
8.70	1.63371E-04	-2.08855E-01	-5.74837E-03	2.85416E 01	-5.68592E-03	2.34218E-01	-3.20974E-02
8.80	1.67142E-04	-2.13828E-01	-5.91976E-03	2.85594E 01	-5.85241E-03	2.39484E-01	-3.21090E-02
8.90	1.70956E-04	-2.18859E-01	-6.09439E-03	2.85768E 01	-6.02205E-03	2.44807E-01	-3.21204E-02
9.00	1.74813E-04	-2.23948E-01	-6.27227E-03	2.85937E 01	-6.19485E-03	2.50189E-01	-3.21316E-02
9.10	1.78713E-04	-2.29095E-01	-6.45345E-03	2.86102E 01	-6.37084E-03	2.55630E-01	-3.21426E-02
9.20	1.82656E-04	-2.34301E-01	-6.63794E-03	2.86264E 01	-6.55006E-03	2.61128E-01	-3.21534E-02
9.30	1.86642E-04	-2.39565E-01	-6.82579E-03	2.86422E 01	-6.73253E-03	2.66684E-01	-3.21640E-02
9.40	1.90671E-04	-2.44887E-01	-7.01700E-03	2.86576E 01	-6.91828E-03	2.72299E-01	-3.21744E-02
9.50	1.94743E-04	-2.50267E-01	-7.21162E-03	2.86727E 01	-7.10733E-03	2.77972E-01	-3.21847E-02
9.60	1.98858E-04	-2.55705E-01	-7.40967E-03	2.86875E 01	-7.29972E-03	2.83703E-01	-3.21948E-02
9.70	2.03016E-04	-2.61201E-01	-7.61117E-03	2.87020E 01	-7.49547E-03	2.89491E-01	-3.22047E-02
9.80	2.07218E-04	-2.66756E-01	-7.81616E-03	2.87161E 01	-7.69462E-03	2.95338E-01	-3.22144E-02
9.90	2.11462E-04	-2.72369E-01	-8.02467E-03	2.87299E 01	-7.89718E-03	3.01244E-01	-3.22240E-02
10.00	2.15749E-04	-2.78040E-01	-8.23673E-03	2.87434E 01	-8.10320E-03	3.07207E-01	-3.22335E-02
10.10	2.20080E-04	-2.83769E-01	-8.45235E-03	2.87567E 01	-8.31268E-03	3.13228E-01	-3.22428E-02
10.20	2.24453E-04	-2.89556E-01	-8.67157E-03	2.87697E 01	-8.52568E-03	3.19308E-01	-3.22519E-02
10.30	2.28869E-04	-2.95401E-01	-8.89442E-03	2.87824E 01	-8.74220E-03	3.25445E-01	-3.22609E-02
10.40	2.33329E-04	-3.01304E-01	-9.12093E-03	2.87948E 01	-8.96229E-03	3.31641E-01	-3.22697E-02
10.50	2.37831E-04	-3.07266E-01	-9.35112E-03	2.88070E 01	-9.18597E-03	3.37894E-01	-3.22784E-02
10.60	2.42377E-04	-3.13285E-01	-9.58502E-03	2.88190E 01	-9.41326E-03	3.44206E-01	-3.22870E-02
10.70	2.46965E-04	-3.19363E-01	-9.82267E-03	2.88307E 01	-9.64420E-03	3.50576E-01	-3.22954E-02
10.80	2.51597E-04	-3.25499E-01	-1.00641E-02	2.88422E 01	-9.87881E-03	3.57003E-01	-3.23038E-02
10.90	2.56271E-04	-3.31692E-01	-1.03093E-02	2.88535E 01	-1.01171E-02	3.63489E-01	-3.23119E-02
11.00	2.60989E-04	-3.37944E-01	-1.05583E-02	2.88645E 01	-1.03592E-02	3.70033E-01	-3.23200E-02
11.10	2.65749E-04	-3.44254E-01	-1.08112E-02	2.88754E 01	-1.06050E-02	3.76634E-01	-3.23279E-02
11.20	2.70553E-04	-3.50622E-01	-1.10680E-02	2.88860E 01	-1.08546E-02	3.83294E-01	-3.23357E-02
11.30	2.75400E-04	-3.57048E-01	-1.13286E-02	2.88965E 01	-1.11080E-02	3.90012E-01	-3.23434E-02
11.40	2.80289E-04	-3.63531E-01	-1.15933E-02	2.89067E 01	-1.13652E-02	3.96787E-01	-3.23510E-02
11.50	2.85222E-04	-3.70073E-01	-1.18618E-02	2.89168E 01	-1.16263E-02	4.03621E-01	-3.23585E-02
11.60	2.90198E-04	-3.76673E-01	-1.21344E-02	2.89266E 01	-1.18913E-02	4.10512E-01	-3.23658E-02
11.70	2.95216E-04	-3.83331E-01	-1.24110E-02	2.89364E 01	-1.21603E-02	4.17462E-01	-3.23731E-02
11.80	3.00278E-04	-3.90047E-01	-1.26916E-02	2.89459E 01	-1.24331E-02	4.24469E-01	-3.23802E-02
11.90	3.05383E-04	-3.96821E-01	-1.29763E-02	2.89552E 01	-1.27100E-02	4.31534E-01	-3.23873E-02
12.00	3.10531E-04	-4.03652E-01	-1.32652E-02	2.89644E 01	-1.29909E-02	4.38658E-01	-3.23942E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.3 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	1.18208E 00	-1.25190E 01	-7.01977E-01	3.89048E-03	-6.88493E-01	1.35918E 01	-1.23414E 02	
12.20	1.18204E 00	-1.26260E 01	-7.11402E-01	3.90665E-03	-6.97623E-01	1.36988E 01	-1.23697E 02	
12.30	1.18200E 00	-1.27331E 01	-7.20884E-01	3.92252E-03	-7.06811E-01	1.38058E 01	-1.23977E 02	
12.40	1.18197E 00	-1.28401E 01	-7.30423E-01	3.93813E-03	-7.16057E-01	1.39127E 01	-1.24254E 02	
12.50	1.18194E 00	-1.29471E 01	-7.40020E-01	3.95346E-03	-7.25359E-01	1.40197E 01	-1.24527E 02	
12.60	1.18190E 00	-1.30541E 01	-7.49673E-01	3.96853E-03	-7.34719E-01	1.41266E 01	-1.24798E 02	
12.70	1.18187E 00	-1.31610E 01	-7.59385E-01	3.98334E-03	-7.44137E-01	1.42334E 01	-1.25067E 02	
12.80	1.18184E 00	-1.32680E 01	-7.69153E-01	3.99790E-03	-7.53612E-01	1.43403E 01	-1.25332E 02	
12.90	1.18180E 00	-1.33749E 01	-7.78979E-01	4.01220E-03	-7.63144E-01	1.44472E 01	-1.25595E 02	
13.00	1.18177E 00	-1.34818E 01	-7.88862E-01	4.02627E-03	-7.72733E-01	1.45540E 01	-1.25856E 02	
13.10	1.18174E 00	-1.35887E 01	-7.98802E-01	4.04011E-03	-7.82380E-01	1.46608E 01	-1.26113E 02	
13.20	1.18171E 00	-1.36955E 01	-8.08800E-01	4.05371E-03	-7.92083E-01	1.47676E 01	-1.26369E 02	
13.30	1.18168E 00	-1.38024E 01	-8.18854E-01	4.06708E-03	-8.01844E-01	1.48743E 01	-1.26622E 02	
13.40	1.18165E 00	-1.39092E 01	-8.28966E-01	4.08024E-03	-8.11662E-01	1.49811E 01	-1.26872E 02	
13.50	1.18162E 00	-1.40160E 01	-8.39136E-01	4.09318E-03	-8.21538E-01	1.50878E 01	-1.27120E 02	
13.60	1.18159E 00	-1.41228E 01	-8.49362E-01	4.10589E-03	-8.31470E-01	1.51945E 01	-1.27366E 02	
13.70	1.18156E 00	-1.42296E 01	-8.59645E-01	4.11841E-03	-8.41460E-01	1.53012E 01	-1.27609E 02	
13.80	1.18153E 00	-1.43363E 01	-8.69986E-01	4.13072E-03	-8.51507E-01	1.54079E 01	-1.27850E 02	
13.90	1.18150E 00	-1.44430E 01	-8.80384E-01	4.14285E-03	-8.61611E-01	1.55145E 01	-1.28089E 02	
14.00	1.18147E 00	-1.45497E 01	-8.90838E-01	4.15476E-03	-8.71773E-01	1.56212E 01	-1.28326E 02	
14.10	1.18144E 00	-1.46564E 01	-9.01350E-01	4.16650E-03	-8.81991E-01	1.57278E 01	-1.28561E 02	
14.20	1.18141E 00	-1.47631E 01	-9.11920E-01	4.17804E-03	-8.92267E-01	1.58344E 01	-1.28793E 02	
14.30	1.18139E 00	-1.48697E 01	-9.22546E-01	4.18939E-03	-9.02600E-01	1.59409E 01	-1.29024E 02	
14.40	1.18136E 00	-1.49764E 01	-9.33229E-01	4.20058E-03	-9.12989E-01	1.60475E 01	-1.29253E 02	
14.50	1.18133E 00	-1.50830E 01	-9.43970E-01	4.21159E-03	-9.23436E-01	1.61540E 01	-1.29479E 02	
14.60	1.18130E 00	-1.51896E 01	-9.54767E-01	4.22241E-03	-9.33940E-01	1.62605E 01	-1.29704E 02	
14.70	1.18128E 00	-1.52961E 01	-9.65621E-01	4.23307E-03	-9.44501E-01	1.63670E 01	-1.29927E 02	
14.80	1.18125E 00	-1.54027E 01	-9.76533E-01	4.24357E-03	-9.55119E-01	1.64734E 01	-1.30147E 02	
14.90	1.18122E 00	-1.55092E 01	-9.87501E-01	4.25390E-03	-9.65794E-01	1.65799E 01	-1.30366E 02	
15.00	1.18120E 00	-1.56157E 01	-9.98527E-01	4.26407E-03	-9.76526E-01	1.66863E 01	-1.30584E 02	
15.10	1.18117E 00	-1.57222E 01	-1.00961E 00	4.27409E-03	-9.87315E-01	1.67927E 01	-1.30799E 02	
15.20	1.18115E 00	-1.58287E 01	-1.02075E 00	4.28396E-03	-9.98161E-01	1.68991E 01	-1.31013E 02	
15.30	1.18112E 00	-1.59351E 01	-1.03194E 00	4.29366E-03	-1.00906E 00	1.70054E 01	-1.31225E 02	
15.40	1.18110E 00	-1.60416E 01	-1.04320E 00	4.30322E-03	-1.02002E 00	1.71118E 01	-1.31435E 02	
15.50	1.18107E 00	-1.61480E 01	-1.05451E 00	4.31264E-03	-1.03104E 00	1.72181E 01	-1.31644E 02	
15.60	1.18105E 00	-1.62544E 01	-1.06588E 00	4.32192E-03	-1.04212E 00	1.73244E 01	-1.31851E 02	
15.70	1.18102E 00	-1.63607E 01	-1.07730E 00	4.33105E-03	-1.05325E 00	1.74307E 01	-1.32056E 02	
15.80	1.18100E 00	-1.64671E 01	-1.08878E 00	4.34005E-03	-1.06443E 00	1.75369E 01	-1.32260E 02	
15.90	1.18097E 00	-1.65734E 01	-1.10032E 00	4.34891E-03	-1.07568E 00	1.76431E 01	-1.32463E 02	
16.00	1.18095E 00	-1.66797E 01	-1.11191E 00	4.35764E-03	-1.08698E 00	1.77494E 01	-1.32664E 02	
16.10	1.18093E 00	-1.67860E 01	-1.12356E 00	4.36624E-03	-1.09834E 00	1.78555E 01	-1.32863E 02	
16.20	1.18090E 00	-1.68923E 01	-1.13527E 00	4.37470E-03	-1.10975E 00	1.79617E 01	-1.33061E 02	
16.30	1.18088E 00	-1.69985E 01	-1.14704E 00	4.38305E-03	-1.12123E 00	1.80679E 01	-1.33257E 02	
16.40	1.18086E 00	-1.71047E 01	-1.15886E 00	4.39127E-03	-1.13276E 00	1.81740E 01	-1.33452E 02	
16.50	1.18084E 00	-1.72109E 01	-1.17074E 00	4.39936E-03	-1.14434E 00	1.82801E 01	-1.33646E 02	
16.60	1.18081E 00	-1.73171E 01	-1.18267E 00	4.40734E-03	-1.15598E 00	1.83862E 01	-1.33838E 02	
16.70	1.18079E 00	-1.74233E 01	-1.19467E 00	4.41520E-03	-1.16768E 00	1.84922E 01	-1.34029E 02	
16.80	1.18077E 00	-1.75294E 01	-1.20672E 00	4.42293E-03	-1.17944E 00	1.85983E 01	-1.34219E 02	
16.90	1.18075E 00	-1.76355E 01	-1.21882E 00	4.43057E-03	-1.19125E 00	1.87043E 01	-1.34407E 02	
17.00	1.18072E 00	-1.77416E 01	-1.23098E 00	4.43809E-03	-1.20312E 00	1.88103E 01	-1.34594E 02	
17.10	1.18070E 00	-1.78477E 01	-1.24320E 00	4.44549E-03	-1.21505E 00	1.89163E 01	-1.34780E 02	
17.20	1.18068E 00	-1.79537E 01	-1.25548E 00	4.45280E-03	-1.22703E 00	1.90222E 01	-1.34965E 02	
17.30	1.18066E 00	-1.80598E 01	-1.26781E 00	4.45998E-03	-1.23907E 00	1.91281E 01	-1.35148E 02	
17.40	1.18064E 00	-1.81658E 01	-1.28020E 00	4.46707E-03	-1.25117E 00	1.92341E 01	-1.35330E 02	
17.50	1.18062E 00	-1.82718E 01	-1.29265E 00	4.47405E-03	-1.26332E 00	1.93399E 01	-1.35511E 02	
17.60	1.18060E 00	-1.83778E 01	-1.30515E 00	4.48093E-03	-1.27553E 00	1.94458E 01	-1.35691E 02	
17.70	1.18058E 00	-1.84837E 01	-1.31771E 00	4.48772E-03	-1.28780E 00	1.95517E 01	-1.35870E 02	
17.80	1.18056E 00	-1.85896E 01	-1.33032E 00	4.49439E-03	-1.30012E 00	1.96575E 01	-1.36048E 02	
17.90	1.18053E 00	-1.86955E 01	-1.34300E 00	4.50097E-03	-1.31250E 00	1.97633E 01	-1.36224E 02	
18.00	1.18051E 00	-1.88014E 01	-1.35573E 00	4.50747E-03	-1.32494E 00	1.98691E 01	-1.36400E 02	





## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.3 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	1.18049E 00	-1.89073E 01	-1.36851E 00	4.51386E-03	-1.33743E 00	1.99748E 01	-1.36574E 02	02
18.20	1.18047E 00	-1.90131E 01	-1.38135E 00	4.52016E-03	-1.34998E 00	2.00805E 01	-1.36747E 02	02
18.30	1.18045E 00	-1.91189E 01	-1.39425E 00	4.52638E-03	-1.36258E 00	2.01863E 01	-1.36919E 02	02
18.40	1.18044E 00	-1.92247E 01	-1.40721E 00	4.53250E-03	-1.37525E 00	2.02919E 01	-1.37091E 02	02
18.50	1.18042E 00	-1.93305E 01	-1.42022E 00	4.53853E-03	-1.38797E 00	2.03976E 01	-1.37261E 02	02
18.60	1.18040E 00	-1.94362E 01	-1.43329E 00	4.54447E-03	-1.40074E 00	2.05033E 01	-1.37431E 02	02
18.70	1.18038E 00	-1.95419E 01	-1.44641E 00	4.55033E-03	-1.41357E 00	2.06089E 01	-1.37599E 02	02
18.80	1.18036E 00	-1.96476E 01	-1.45959E 00	4.55611E-03	-1.42646E 00	2.07145E 01	-1.37766E 02	02
18.90	1.18034E 00	-1.97533E 01	-1.47283E 00	4.56179E-03	-1.43941E 00	2.08200E 01	-1.37933E 02	02
19.00	1.18032E 00	-1.98590E 01	-1.48612E 00	4.56740E-03	-1.45241E 00	2.09256E 01	-1.38099E 02	02
19.10	1.18030E 00	-1.99646E 01	-1.49947E 00	4.57293E-03	-1.46547E 00	2.10311E 01	-1.38263E 02	02
19.20	1.18028E 00	-2.00702E 01	-1.51288E 00	4.57837E-03	-1.47858E 00	2.11366E 01	-1.38427E 02	02
19.30	1.18026E 00	-2.01758E 01	-1.52634E 00	4.58375E-03	-1.49175E 00	2.12421E 01	-1.38590E 02	02
19.40	1.18025E 00	-2.02814E 01	-1.53986E 00	4.58903E-03	-1.50498E 00	2.13476E 01	-1.38752E 02	02
19.50	1.18023E 00	-2.03869E 01	-1.55344E 00	4.59424E-03	-1.51826E 00	2.14530E 01	-1.38914E 02	02
19.60	1.18021E 00	-2.04925E 01	-1.56707E 00	4.59938E-03	-1.53160E 00	2.15584E 01	-1.39074E 02	02
19.70	1.18019E 00	-2.05980E 01	-1.58076E 00	4.60444E-03	-1.54500E 00	2.16638E 01	-1.39234E 02	02
19.80	1.18017E 00	-2.07034E 01	-1.59450E 00	4.60943E-03	-1.55845E 00	2.17692E 01	-1.39392E 02	02
19.90	1.18016E 00	-2.08089E 01	-1.60830E 00	4.61435E-03	-1.57196E 00	2.18745E 01	-1.39550E 02	02
20.00	1.18014E 00	-2.09143E 01	-1.62216E 00	4.61919E-03	-1.58552E 00	2.19798E 01	-1.39708E 02	02
20.10	1.18012E 00	-2.10197E 01	-1.63608E 00	4.62396E-03	-1.59915E 00	2.20851E 01	-1.39864E 02	02
20.20	1.18010E 00	-2.11251E 01	-1.65004E 00	4.62867E-03	-1.61282E 00	2.21904E 01	-1.40020E 02	02
20.30	1.18009E 00	-2.12305E 01	-1.66407E 00	4.63330E-03	-1.62656E 00	2.22956E 01	-1.40175E 02	02
20.40	1.18007E 00	-2.13358E 01	-1.67815E 00	4.63787E-03	-1.64035E 00	2.24009E 01	-1.40330E 02	02
20.50	1.18005E 00	-2.14411E 01	-1.69229E 00	4.64236E-03	-1.65419E 00	2.25061E 01	-1.40483E 02	02
20.60	1.18003E 00	-2.15464E 01	-1.70649E 00	4.64680E-03	-1.66810E 00	2.26113E 01	-1.40636E 02	02
20.70	1.18002E 00	-2.16517E 01	-1.72074E 00	4.65117E-03	-1.68205E 00	2.27164E 01	-1.40788E 02	02
20.80	1.18000E 00	-2.17569E 01	-1.73504E 00	4.65547E-03	-1.69607E 00	2.28215E 01	-1.40940E 02	02
20.90	1.17998E 00	-2.18621E 01	-1.74941E 00	4.65970E-03	-1.71014E 00	2.29266E 01	-1.41091E 02	02
21.00	1.17997E 00	-2.19673E 01	-1.76382E 00	4.66388E-03	-1.72427E 00	2.30317E 01	-1.41241E 02	02
21.10	1.17995E 00	-2.20725E 01	-1.77830E 00	4.66800E-03	-1.73845E 00	2.31368E 01	-1.41391E 02	02
21.20	1.17993E 00	-2.21776E 01	-1.79283E 00	4.67204E-03	-1.75269E 00	2.32418E 01	-1.41540E 02	02
21.30	1.17992E 00	-2.22828E 01	-1.80742E 00	4.67604E-03	-1.76699E 00	2.33468E 01	-1.41688E 02	02
21.40	1.17990E 00	-2.23879E 01	-1.82206E 00	4.67997E-03	-1.78134E 00	2.34518E 01	-1.41836E 02	02
21.50	1.17988E 00	-2.24929E 01	-1.83676E 00	4.68384E-03	-1.79575E 00	2.35568E 01	-1.41983E 02	02
21.60	1.17987E 00	-2.25980E 01	-1.85152E 00	4.68766E-03	-1.81021E 00	2.36617E 01	-1.42130E 02	02
21.70	1.17985E 00	-2.27030E 01	-1.86633E 00	4.69141E-03	-1.82473E 00	2.37666E 01	-1.42276E 02	02
21.80	1.17984E 00	-2.28080E 01	-1.88119E 00	4.69511E-03	-1.83930E 00	2.38715E 01	-1.42421E 02	02
21.90	1.17982E 00	-2.29130E 01	-1.89612E 00	4.69875E-03	-1.85394E 00	2.39764E 01	-1.42566E 02	02
22.00	1.17980E 00	-2.30180E 01	-1.91110E 00	4.70234E-03	-1.86862E 00	2.40812E 01	-1.42710E 02	02
22.10	1.17979E 00	-2.31229E 01	-1.92613E 00	4.70587E-03	-1.88337E 00	2.41860E 01	-1.42854E 02	02
22.20	1.17977E 00	-2.32278E 01	-1.94122E 00	4.70934E-03	-1.89817E 00	2.42908E 01	-1.42997E 02	02
22.30	1.17976E 00	-2.33327E 01	-1.95637E 00	4.71276E-03	-1.91302E 00	2.43956E 01	-1.43140E 02	02
22.40	1.17974E 00	-2.34375E 01	-1.97157E 00	4.71613E-03	-1.92793E 00	2.45003E 01	-1.43282E 02	02
22.50	1.17973E 00	-2.35424E 01	-1.98683E 00	4.71945E-03	-1.94290E 00	2.46050E 01	-1.43424E 02	02
22.60	1.17971E 00	-2.36472E 01	-2.00215E 00	4.72272E-03	-1.95792E 00	2.47097E 01	-1.43565E 02	02
22.70	1.17970E 00	-2.37520E 01	-2.01752E 00	4.72594E-03	-1.97300E 00	2.48144E 01	-1.43706E 02	02
22.80	1.17968E 00	-2.38567E 01	-2.03294E 00	4.72909E-03	-1.98814E 00	2.49190E 01	-1.43846E 02	02
22.90	1.17967E 00	-2.39615E 01	-2.04842E 00	4.73220E-03	-2.00333E 00	2.50236E 01	-1.43986E 02	02
23.00	1.17965E 00	-2.40662E 01	-2.06396E 00	4.73527E-03	-2.01858E 00	2.51282E 01	-1.44125E 02	02
23.10	1.17964E 00	-2.41708E 01	-2.07956E 00	4.73828E-03	-2.03388E 00	2.52328E 01	-1.44264E 02	02
23.20	1.17962E 00	-2.42755E 01	-2.09520E 00	4.74124E-03	-2.04924E 00	2.53373E 01	-1.44403E 02	02
23.30	1.17961E 00	-2.43801E 01	-2.11091E 00	4.74416E-03	-2.06465E 00	2.54418E 01	-1.44540E 02	02
23.40	1.17959E 00	-2.44847E 01	-2.12667E 00	4.74703E-03	-2.08012E 00	2.55463E 01	-1.44678E 02	02
23.50	1.17958E 00	-2.45893E 01	-2.14249E 00	4.74985E-03	-2.09564E 00	2.56508E 01	-1.44815E 02	02
23.60	1.17956E 00	-2.46939E 01	-2.15836E 00	4.75263E-03	-2.11123E 00	2.57552E 01	-1.44952E 02	02
23.70	1.17955E 00	-2.47984E 01	-2.17429E 00	4.75535E-03	-2.12686E 00	2.58596E 01	-1.45088E 02	02
23.80	1.17954E 00	-2.49029E 01	-2.19027E 00	4.75804E-03	-2.14255E 00	2.59640E 01	-1.45224E 02	02
23.90	1.17952E 00	-2.50074E 01	-2.20631E 00	4.76068E-03	-2.15830E 00	2.60684E 01	-1.45359E 02	02
24.00	1.17951E 00	-2.51119E 01	-2.22240E 00	4.76327E-03	-2.17411E 00	2.61727E 01	-1.45495E 02	02

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$        $A = 14$        $\rho = 1.3 A^{1/3} F$       Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	7.05885E-04	-9.29598E-01	-3.97574E-02	2.93261E 01	-3.88200E-02	9.82311E-01	-3.26865E-02
18.20	7.13700E-04	-9.40004E-01	-4.03554E-02	2.93300E 01	-3.94041E-02	9.93006E-01	-3.26898E-02
18.30	7.21557E-04	-9.50466E-01	-4.09591E-02	2.93337E 01	-3.99940E-02	1.00376E 00	-3.26931E-02
18.40	7.29458E-04	-9.60987E-01	-4.15688E-02	2.93375E 01	-4.05897E-02	1.01457E 00	-3.26963E-02
18.50	7.37401E-04	-9.71564E-01	-4.21844E-02	2.93412E 01	-4.11912E-02	1.02543E 00	-3.26995E-02
18.60	7.45387E-04	-9.82199E-01	-4.28059E-02	2.93448E 01	-4.17986E-02	1.03636E 00	-3.27027E-02
18.70	7.53417E-04	-9.92890E-01	-4.34334E-02	2.93485E 01	-4.24118E-02	1.04734E 00	-3.27059E-02
18.80	7.61489E-04	-1.00364E 00	-4.40669E-02	2.93521E 01	-4.30309E-02	1.05838E 00	-3.27090E-02
18.90	7.69604E-04	-1.01445E 00	-4.47064E-02	2.93556E 01	-4.36560E-02	1.06947E 00	-3.27121E-02
19.00	7.77763E-04	-1.02531E 00	-4.53520E-02	2.93591E 01	-4.42870E-02	1.08062E 00	-3.27151E-02
19.10	7.85964E-04	-1.03623E 00	-4.60037E-02	2.93626E 01	-4.49240E-02	1.09183E 00	-3.27182E-02
19.20	7.94208E-04	-1.04721E 00	-4.66615E-02	2.93660E 01	-4.55671E-02	1.10310E 00	-3.27212E-02
19.30	8.02496E-04	-1.05824E 00	-4.73254E-02	2.93694E 01	-4.62162E-02	1.11442E 00	-3.27241E-02
19.40	8.10826E-04	-1.06934E 00	-4.79954E-02	2.93727E 01	-4.68713E-02	1.12580E 00	-3.27271E-02
19.50	8.19199E-04	-1.08048E 00	-4.86717E-02	2.93760E 01	-4.75326E-02	1.13724E 00	-3.27300E-02
19.60	8.27616E-04	-1.09169E 00	-4.93542E-02	2.93793E 01	-4.81999E-02	1.14874E 00	-3.27329E-02
19.70	8.36075E-04	-1.10295E 00	-5.00429E-02	2.93826E 01	-4.88735E-02	1.16029E 00	-3.27357E-02
19.80	8.44577E-04	-1.11428E 00	-5.07379E-02	2.93858E 01	-4.95532E-02	1.17190E 00	-3.27386E-02
19.90	8.53123E-04	-1.12565E 00	-5.14392E-02	2.93890E 01	-5.02391E-02	1.18356E 00	-3.27414E-02
20.00	8.61711E-04	-1.13709E 00	-5.21469E-02	2.93921E 01	-5.09312E-02	1.19529E 00	-3.27441E-02
20.10	8.70342E-04	-1.14858E 00	-5.28609E-02	2.93952E 01	-5.16297E-02	1.20707E 00	-3.27469E-02
20.20	8.79016E-04	-1.16013E 00	-5.35813E-02	2.93983E 01	-5.23344E-02	1.21891E 00	-3.27496E-02
20.30	8.87734E-04	-1.17174E 00	-5.43081E-02	2.94014E 01	-5.30454E-02	1.23080E 00	-3.27523E-02
20.40	8.96494E-04	-1.18340E 00	-5.50413E-02	2.94044E 01	-5.37628E-02	1.24275E 00	-3.27550E-02
20.50	9.05297E-04	-1.19512E 00	-5.57810E-02	2.94074E 01	-5.44865E-02	1.25476E 00	-3.27577E-02
20.60	9.14144E-04	-1.20690E 00	-5.65272E-02	2.94103E 01	-5.52167E-02	1.26683E 00	-3.27603E-02
20.70	9.23033E-04	-1.21873E 00	-5.72799E-02	2.94133E 01	-5.59532E-02	1.27895E 00	-3.27629E-02
20.80	9.31965E-04	-1.23062E 00	-5.80392E-02	2.94162E 01	-5.66963E-02	1.29113E 00	-3.27655E-02
20.90	9.40940E-04	-1.24257E 00	-5.88051E-02	2.94190E 01	-5.74458E-02	1.30336E 00	-3.27681E-02
21.00	9.49958E-04	-1.25457E 00	-5.95775E-02	2.94219E 01	-5.82018E-02	1.31566E 00	-3.27706E-02
21.10	9.59019E-04	-1.26664E 00	-6.03566E-02	2.94247E 01	-5.89644E-02	1.32801E 00	-3.27731E-02
21.20	9.68124E-04	-1.27876E 00	-6.11424E-02	2.94275E 01	-5.97335E-02	1.34041E 00	-3.27756E-02
21.30	9.77271E-04	-1.29093E 00	-6.19348E-02	2.94302E 01	-6.05093E-02	1.35288E 00	-3.27781E-02
21.40	9.86461E-04	-1.30316E 00	-6.27339E-02	2.94330E 01	-6.12916E-02	1.36540E 00	-3.27806E-02
21.50	9.95694E-04	-1.31545E 00	-6.35398E-02	2.94357E 01	-6.20806E-02	1.37797E 00	-3.27830E-02
21.60	1.00497E-03	-1.32780E 00	-6.43525E-02	2.94384E 01	-6.28763E-02	1.39061E 00	-3.27854E-02
21.70	1.01429E-03	-1.34020E 00	-6.51720E-02	2.94410E 01	-6.36787E-02	1.40330E 00	-3.27878E-02
21.80	1.02365E-03	-1.35266E 00	-6.59982E-02	2.94436E 01	-6.44878E-02	1.41605E 00	-3.27902E-02
21.90	1.03306E-03	-1.36518E 00	-6.68314E-02	2.94463E 01	-6.53037E-02	1.42885E 00	-3.27925E-02
22.00	1.04250E-03	-1.37776E 00	-6.76714E-02	2.94488E 01	-6.61263E-02	1.44171E 00	-3.27948E-02
22.10	1.05200E-03	-1.39039E 00	-6.85183E-02	2.94514E 01	-6.69558E-02	1.45463E 00	-3.27972E-02
22.20	1.06153E-03	-1.40308E 00	-6.93722E-02	2.94539E 01	-6.77921E-02	1.46761E 00	-3.27995E-02
22.30	1.07111E-03	-1.41582E 00	-7.02330E-02	2.94564E 01	-6.86353E-02	1.48064E 00	-3.28017E-02
22.40	1.08073E-03	-1.42862E 00	-7.11008E-02	2.94589E 01	-6.94853E-02	1.49373E 00	-3.28040E-02
22.50	1.09039E-03	-1.44148E 00	-7.19757E-02	2.94614E 01	-7.03423E-02	1.50687E 00	-3.28062E-02
22.60	1.10010E-03	-1.45439E 00	-7.28575E-02	2.94638E 01	-7.12063E-02	1.52008E 00	-3.28084E-02
22.70	1.10985E-03	-1.46736E 00	-7.37465E-02	2.94662E 01	-7.20772E-02	1.53333E 00	-3.28106E-02
22.80	1.11964E-03	-1.48039E 00	-7.46425E-02	2.94686E 01	-7.29551E-02	1.54665E 00	-3.28128E-02
22.90	1.12947E-03	-1.49348E 00	-7.55457E-02	2.94710E 01	-7.38401E-02	1.56002E 00	-3.28150E-02
23.00	1.13935E-03	-1.50662E 00	-7.64560E-02	2.94734E 01	-7.47321E-02	1.57345E 00	-3.28171E-02
23.10	1.14927E-03	-1.51982E 00	-7.73735E-02	2.94757E 01	-7.56312E-02	1.58694E 00	-3.28193E-02
23.20	1.15924E-03	-1.53307E 00	-7.82982E-02	2.94780E 01	-7.65374E-02	1.60048E 00	-3.28214E-02
23.30	1.16924E-03	-1.54638E 00	-7.92301E-02	2.94803E 01	-7.74508E-02	1.61408E 00	-3.28235E-02
23.40	1.17929E-03	-1.55975E 00	-8.01693E-02	2.94826E 01	-7.83713E-02	1.62773E 00	-3.28255E-02
23.50	1.18939E-03	-1.57318E 00	-8.11158E-02	2.94848E 01	-7.92990E-02	1.64144E 00	-3.28276E-02
23.60	1.19952E-03	-1.58666E 00	-8.20696E-02	2.94871E 01	-8.02340E-02	1.65521E 00	-3.28296E-02
23.70	1.20970E-03	-1.60020E 00	-8.30307E-02	2.94893E 01	-8.11762E-02	1.66904E 00	-3.28317E-02
23.80	1.21992E-03	-1.61379E 00	-8.39993E-02	2.94914E 01	-8.21257E-02	1.68292E 00	-3.28337E-02
23.90	1.23019E-03	-1.62744E 00	-8.49752E-02	2.94936E 01	-8.30824E-02	1.69686E 00	-3.28357E-02
24.00	1.24049E-03	-1.64115E 00	-8.59585E-02	2.94958E 01	-8.40465E-02	1.71085E 00	-3.28377E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.3 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
24.10	1.17949E 00	-2.52163E 01	-2.23855E 00	4.76581E-03	-2.18997E 00	2.62770E 01	-1.45629E 02			
24.20	1.17948E 00	-2.53207E 01	-2.25476E 00	4.76832E-03	-2.20588E 00	2.63813E 01	-1.45764E 02			
24.30	1.17947E 00	-2.54251E 01	-2.27102E 00	4.77079E-03	-2.22185E 00	2.64856E 01	-1.45898E 02			
24.40	1.17945E 00	-2.55294E 01	-2.28734E 00	4.77320E-03	-2.23788E 00	2.65898E 01	-1.46031E 02			
24.50	1.17944E 00	-2.56337E 01	-2.30371E 00	4.77558E-03	-2.25396E 00	2.66940E 01	-1.46165E 02			
24.60	1.17942E 00	-2.57380E 01	-2.32014E 00	4.77791E-03	-2.27010E 00	2.67982E 01	-1.46298E 02			
24.70	1.17941E 00	-2.58423E 01	-2.33662E 00	4.78021E-03	-2.28629E 00	2.69023E 01	-1.46430E 02			
24.80	1.17940E 00	-2.59466E 01	-2.35316E 00	4.78247E-03	-2.30254E 00	2.70064E 01	-1.46562E 02			
24.90	1.17938E 00	-2.60508E 01	-2.36975E 00	4.78467E-03	-2.31884E 00	2.71105E 01	-1.46694E 02			
25.00	1.17937E 00	-2.61550E 01	-2.38640E 00	4.78684E-03	-2.33520E 00	2.72146E 01	-1.46826E 02			
25.10	1.17936E 00	-2.62592E 01	-2.40311E 00	4.78896E-03	-2.35161E 00	2.73187E 01	-1.46958E 02			
25.20	1.17934E 00	-2.63633E 01	-2.41987E 00	4.79106E-03	-2.36808E 00	2.74227E 01	-1.47089E 02			
25.30	1.17933E 00	-2.64674E 01	-2.43668E 00	4.79311E-03	-2.38461E 00	2.75267E 01	-1.47219E 02			
25.40	1.17932E 00	-2.65715E 01	-2.45355E 00	4.79513E-03	-2.40119E 00	2.76306E 01	-1.47350E 02			
25.50	1.17930E 00	-2.66756E 01	-2.47048E 00	4.79710E-03	-2.41783E 00	2.77346E 01	-1.47480E 02			
25.60	1.17929E 00	-2.67796E 01	-2.48746E 00	4.79903E-03	-2.43452E 00	2.78385E 01	-1.47610E 02			
25.70	1.17928E 00	-2.68836E 01	-2.50450E 00	4.80094E-03	-2.45126E 00	2.79424E 01	-1.47739E 02			
25.80	1.17926E 00	-2.69876E 01	-2.52159E 00	4.80280E-03	-2.46807E 00	2.80462E 01	-1.47869E 02			
25.90	1.17925E 00	-2.70915E 01	-2.53874E 00	4.80462E-03	-2.48492E 00	2.81500E 01	-1.47998E 02			
26.00	1.17924E 00	-2.71955E 01	-2.55594E 00	4.80641E-03	-2.50184E 00	2.82538E 01	-1.48126E 02			
26.10	1.17923E 00	-2.72994E 01	-2.57320E 00	4.80816E-03	-2.51880E 00	2.83576E 01	-1.48255E 02			
26.20	1.17921E 00	-2.74033E 01	-2.59051E 00	4.80987E-03	-2.53583E 00	2.84614E 01	-1.48383E 02			
26.30	1.17920E 00	-2.75071E 01	-2.60788E 00	4.81154E-03	-2.55291E 00	2.85651E 01	-1.48511E 02			
26.40	1.17919E 00	-2.76109E 01	-2.62531E 00	4.81319E-03	-2.57004E 00	2.86688E 01	-1.48639E 02			
26.50	1.17917E 00	-2.77147E 01	-2.64278E 00	4.81480E-03	-2.58723E 00	2.87724E 01	-1.48767E 02			
26.60	1.17916E 00	-2.78185E 01	-2.66032E 00	4.81637E-03	-2.60447E 00	2.88761E 01	-1.48894E 02			
26.70	1.17915E 00	-2.79222E 01	-2.67791E 00	4.81791E-03	-2.62177E 00	2.89797E 01	-1.49021E 02			
26.80	1.17914E 00	-2.80259E 01	-2.69555E 00	4.81942E-03	-2.63913E 00	2.90833E 01	-1.49148E 02			
26.90	1.17912E 00	-2.81296E 01	-2.71325E 00	4.82089E-03	-2.65654E 00	2.91868E 01	-1.49275E 02			
27.00	1.17911E 00	-2.82333E 01	-2.73101E 00	4.82232E-03	-2.67400E 00	2.92904E 01	-1.49401E 02			
27.10	1.17910E 00	-2.83369E 01	-2.74881E 00	4.82372E-03	-2.69152E 00	2.93939E 01	-1.49528E 02			
27.20	1.17909E 00	-2.84405E 01	-2.76668E 00	4.82510E-03	-2.70909E 00	2.94973E 01	-1.49654E 02			
27.30	1.17908E 00	-2.85441E 01	-2.78460E 00	4.82644E-03	-2.72672E 00	2.96008E 01	-1.49780E 02			
27.40	1.17906E 00	-2.86476E 01	-2.80257E 00	4.82775E-03	-2.74441E 00	2.97042E 01	-1.49905E 02			
27.50	1.17905E 00	-2.87511E 01	-2.82060E 00	4.82902E-03	-2.76215E 00	2.98076E 01	-1.50031E 02			
27.60	1.17904E 00	-2.88546E 01	-2.83869E 00	4.83026E-03	-2.77994E 00	2.99109E 01	-1.50156E 02			
27.70	1.17903E 00	-2.89581E 01	-2.85683E 00	4.83147E-03	-2.79779E 00	3.00143E 01	-1.50281E 02			
27.80	1.17902E 00	-2.90615E 01	-2.87502E 00	4.83265E-03	-2.81570E 00	3.01176E 01	-1.50407E 02			
27.90	1.17900E 00	-2.91649E 01	-2.89327E 00	4.83379E-03	-2.83366E 00	3.02209E 01	-1.50532E 02			
28.00	1.17899E 00	-2.92683E 01	-2.91157E 00	4.83491E-03	-2.85167E 00	3.03241E 01	-1.50656E 02			
28.10	1.17898E 00	-2.93717E 01	-2.92993E 00	4.83599E-03	-2.86974E 00	3.04273E 01	-1.50781E 02			
28.20	1.17897E 00	-2.94750E 01	-2.94835E 00	4.83705E-03	-2.88787E 00	3.05305E 01	-1.50905E 02			
28.30	1.17896E 00	-2.95783E 01	-2.96681E 00	4.83808E-03	-2.90604E 00	3.06337E 01	-1.51029E 02			
28.40	1.17895E 00	-2.96815E 01	-2.98534E 00	4.83907E-03	-2.92428E 00	3.07368E 01	-1.51153E 02			
28.50	1.17893E 00	-2.97848E 01	-3.00391E 00	4.84003E-03	-2.94257E 00	3.08399E 01	-1.51278E 02			
28.60	1.17892E 00	-2.98880E 01	-3.02255E 00	4.84097E-03	-2.96091E 00	3.09430E 01	-1.51401E 02			
28.70	1.17891E 00	-2.99912E 01	-3.04123E 00	4.84188E-03	-2.97931E 00	3.10460E 01	-1.51525E 02			
28.80	1.17890E 00	-3.00943E 01	-3.05998E 00	4.84276E-03	-2.99776E 00	3.11490E 01	-1.51649E 02			
28.90	1.17889E 00	-3.01974E 01	-3.07877E 00	4.84360E-03	-3.01627E 00	3.12520E 01	-1.51772E 02			
29.00	1.17888E 00	-3.03005E 01	-3.09763E 00	4.84442E-03	-3.03483E 00	3.13550E 01	-1.51895E 02			
29.10	1.17886E 00	-3.04036E 01	-3.11653E 00	4.84522E-03	-3.05345E 00	3.14579E 01	-1.52019E 02			
29.20	1.17885E 00	-3.05066E 01	-3.13549E 00	4.84598E-03	-3.07212E 00	3.15608E 01	-1.52142E 02			
29.30	1.17884E 00	-3.06097E 01	-3.15451E 00	4.84671E-03	-3.09085E 00	3.16637E 01	-1.52265E 02			
29.40	1.17883E 00	-3.07126E 01	-3.17358E 00	4.84743E-03	-3.10963E 00	3.17665E 01	-1.52388E 02			
29.50	1.17882E 00	-3.08156E 01	-3.19270E 00	4.84810E-03	-3.12847E 00	3.18694E 01	-1.52511E 02			
29.60	1.17881E 00	-3.09185E 01	-3.21188E 00	4.84876E-03	-3.14736E 00	3.19721E 01	-1.52633E 02			
29.70	1.17880E 00	-3.10214E 01	-3.23112E 00	4.84939E-03	-3.16630E 00	3.20749E 01	-1.52756E 02			
29.80	1.17879E 00	-3.11242E 01	-3.25040E 00	4.84999E-03	-3.18530E 00	3.21776E 01	-1.52878E 02			
29.90	1.17878E 00	-3.12271E 01	-3.26975E 00	4.85057E-03	-3.20435E 00	3.22803E 01	-1.53001E 02			
30.00	1.17876E 00	-3.13299E 01	-3.28914E 00	4.85111E-03	-3.22346E 00	3.23830E 01	-1.53123E 02			

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$        $A = 14$        $\rho = 1.3 A^{1/3} F$       Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
24.10	1.25085E-03	-1.65491E 00	-8.69494E-02	2.94979E 01	-8.50181E-02	1.72490E 00	-3.28396E-02
24.20	1.26124E-03	-1.66874E 00	-8.79476E-02	2.95000E 01	-8.59969E-02	1.73901E 00	-3.28416E-02
24.30	1.27168E-03	-1.68261E 00	-8.89534E-02	2.95021E 01	-8.69832E-02	1.75317E 00	-3.28435E-02
24.40	1.28216E-03	-1.69655E 00	-8.99667E-02	2.95042E 01	-8.79769E-02	1.76739E 00	-3.28454E-02
24.50	1.29268E-03	-1.71054E 00	-9.09876E-02	2.95063E 01	-8.89781E-02	1.78167E 00	-3.28474E-02
24.60	1.30324E-03	-1.72458E 00	-9.20161E-02	2.95083E 01	-8.99868E-02	1.79600E 00	-3.28492E-02
24.70	1.31385E-03	-1.73869E 00	-9.30522E-02	2.95103E 01	-9.10029E-02	1.81039E 00	-3.28511E-02
24.80	1.32450E-03	-1.75285E 00	-9.40959E-02	2.95124E 01	-9.20267E-02	1.82484E 00	-3.28530E-02
24.90	1.33520E-03	-1.76706E 00	-9.51473E-02	2.95144E 01	-9.30580E-02	1.83934E 00	-3.28548E-02
25.00	1.34594E-03	-1.78133E 00	-9.62074E-02	2.95163E 01	-9.40969E-02	1.85390E 00	-3.28567E-02
25.10	1.35672E-03	-1.79566E 00	-9.72732E-02	2.95183E 01	-9.51435E-02	1.86851E 00	-3.28585E-02
25.20	1.36754E-03	-1.81005E 00	-9.83477E-02	2.95202E 01	-9.61977E-02	1.88319E 00	-3.28603E-02
25.30	1.37841E-03	-1.82449E 00	-9.94301E-02	2.95222E 01	-9.72596E-02	1.89791E 00	-3.28621E-02
25.40	1.38932E-03	-1.83899E 00	-1.00520E-01	2.95241E 01	-9.83292E-02	1.91270E 00	-3.28639E-02
25.50	1.40027E-03	-1.85354E 00	-1.01618E-01	2.95260E 01	-9.94066E-02	1.92754E 00	-3.28657E-02
25.60	1.41126E-03	-1.86815E 00	-1.02724E-01	2.95279E 01	-1.00492E-01	1.94243E 00	-3.28674E-02
25.70	1.42230E-03	-1.88282E 00	-1.03838E-01	2.95297E 01	-1.01585E-01	1.95739E 00	-3.28692E-02
25.80	1.43338E-03	-1.89754E 00	-1.04959E-01	2.95316E 01	-1.02685E-01	1.97239E 00	-3.28709E-02
25.90	1.44451E-03	-1.91232E 00	-1.06089E-01	2.95334E 01	-1.03794E-01	1.98746E 00	-3.28726E-02
26.00	1.45568E-03	-1.92716E 00	-1.07227E-01	2.95353E 01	-1.04910E-01	2.00258E 00	-3.28743E-02
26.10	1.46689E-03	-1.94205E 00	-1.08372E-01	2.95371E 01	-1.06035E-01	2.01776E 00	-3.28760E-02
26.20	1.47814E-03	-1.95700E 00	-1.09526E-01	2.95389E 01	-1.07167E-01	2.03299E 00	-3.28777E-02
26.30	1.48944E-03	-1.97200E 00	-1.10687E-01	2.95406E 01	-1.08307E-01	2.04828E 00	-3.28794E-02
26.40	1.50078E-03	-1.98706E 00	-1.11857E-01	2.95424E 01	-1.09455E-01	2.06363E 00	-3.28810E-02
26.50	1.51216E-03	-2.00218E 00	-1.13035E-01	2.95442E 01	-1.10612E-01	2.07903E 00	-3.28827E-02
26.60	1.52358E-03	-2.01735E 00	-1.14221E-01	2.95459E 01	-1.11776E-01	2.09449E 00	-3.28843E-02
26.70	1.53505E-03	-2.03258E 00	-1.15415E-01	2.95476E 01	-1.12948E-01	2.11000E 00	-3.28859E-02
26.80	1.54656E-03	-2.04786E 00	-1.16617E-01	2.95493E 01	-1.14129E-01	2.12557E 00	-3.28875E-02
26.90	1.55812E-03	-2.06321E 00	-1.17827E-01	2.95510E 01	-1.15317E-01	2.14120E 00	-3.28891E-02
27.00	1.56971E-03	-2.07860E 00	-1.19046E-01	2.95527E 01	-1.16514E-01	2.15688E 00	-3.28907E-02
27.10	1.58135E-03	-2.09406E 00	-1.20273E-01	2.95544E 01	-1.17719E-01	2.17262E 00	-3.28923E-02
27.20	1.59304E-03	-2.10956E 00	-1.21508E-01	2.95561E 01	-1.18932E-01	2.18842E 00	-3.28939E-02
27.30	1.60476E-03	-2.12513E 00	-1.22752E-01	2.95577E 01	-1.20153E-01	2.20427E 00	-3.28954E-02
27.40	1.61653E-03	-2.14075E 00	-1.24004E-01	2.95593E 01	-1.21383E-01	2.22017E 00	-3.28970E-02
27.50	1.62834E-03	-2.15643E 00	-1.25264E-01	2.95610E 01	-1.22620E-01	2.23614E 00	-3.28985E-02
27.60	1.64020E-03	-2.17216E 00	-1.26533E-01	2.95626E 01	-1.23867E-01	2.25215E 00	-3.29000E-02
27.70	1.65210E-03	-2.18795E 00	-1.27810E-01	2.95642E 01	-1.25121E-01	2.26823E 00	-3.29015E-02
27.80	1.66404E-03	-2.20380E 00	-1.29096E-01	2.95658E 01	-1.26384E-01	2.28436E 00	-3.29030E-02
27.90	1.67602E-03	-2.21970E 00	-1.30390E-01	2.95673E 01	-1.27655E-01	2.30055E 00	-3.29045E-02
28.00	1.68805E-03	-2.23566E 00	-1.31692E-01	2.95689E 01	-1.28935E-01	2.31679E 00	-3.29060E-02
28.10	1.70012E-03	-2.25167E 00	-1.33003E-01	2.95705E 01	-1.30223E-01	2.33309E 00	-3.29075E-02
28.20	1.71223E-03	-2.26774E 00	-1.34323E-01	2.95720E 01	-1.31519E-01	2.34944E 00	-3.29090E-02
28.30	1.72439E-03	-2.28386E 00	-1.35651E-01	2.95735E 01	-1.32824E-01	2.36585E 00	-3.29104E-02
28.40	1.73659E-03	-2.30005E 00	-1.36988E-01	2.95751E 01	-1.34138E-01	2.38232E 00	-3.29119E-02
28.50	1.74883E-03	-2.31628E 00	-1.38334E-01	2.95766E 01	-1.35460E-01	2.39884E 00	-3.29133E-02
28.60	1.76111E-03	-2.33257E 00	-1.39688E-01	2.95781E 01	-1.36791E-01	2.41541E 00	-3.29147E-02
28.70	1.77344E-03	-2.34892E 00	-1.41051E-01	2.95795E 01	-1.38130E-01	2.43205E 00	-3.29161E-02
28.80	1.78581E-03	-2.36533E 00	-1.42422E-01	2.95810E 01	-1.39478E-01	2.44874E 00	-3.29176E-02
28.90	1.79823E-03	-2.38179E 00	-1.43802E-01	2.95825E 01	-1.40834E-01	2.46548E 00	-3.29190E-02
29.00	1.81068E-03	-2.39830E 00	-1.45192E-01	2.95839E 01	-1.42199E-01	2.48228E 00	-3.29203E-02
29.10	1.82318E-03	-2.41488E 00	-1.46589E-01	2.95854E 01	-1.43573E-01	2.49914E 00	-3.29217E-02
29.20	1.83572E-03	-2.43150E 00	-1.47996E-01	2.95868E 01	-1.44956E-01	2.51605E 00	-3.29231E-02
29.30	1.84831E-03	-2.44819E 00	-1.49412E-01	2.95882E 01	-1.46348E-01	2.53302E 00	-3.29245E-02
29.40	1.86094E-03	-2.46492E 00	-1.50836E-01	2.95896E 01	-1.47748E-01	2.55004E 00	-3.29258E-02
29.50	1.87361E-03	-2.48172E 00	-1.52270E-01	2.95910E 01	-1.49157E-01	2.56712E 00	-3.29272E-02
29.60	1.88632E-03	-2.49857E 00	-1.53712E-01	2.95924E 01	-1.50575E-01	2.58425E 00	-3.29285E-02
29.70	1.89908E-03	-2.51548E 00	-1.55163E-01	2.95938E 01	-1.52001E-01	2.60144E 00	-3.29298E-02
29.80	1.91188E-03	-2.53244E 00	-1.56623E-01	2.95952E 01	-1.53437E-01	2.61869E 00	-3.29311E-02
29.90	1.92473E-03	-2.54945E 00	-1.58093E-01	2.95966E 01	-1.54882E-01	2.63599E 00	-3.29325E-02
30.00	1.93761E-03	-2.56653E 00	-1.59571E-01	2.95979E 01	-1.56335E-01	2.65335E 00	-3.29338E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.3 A^{1/3} F$					
$\rho$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
30.10	1.17875 E 00	-3.14327 E 01	-3.30860 E 00	4.85163 E-03	-3.24263 E 00	3.24856 E 01	-1.53245 E 02			
30.20	1.17874 E 00	-3.15354 E 01	-3.32810 E 00	4.85212 E-03	-3.26185 E 00	3.25882 E 01	-1.53368 E 02			
30.30	1.17873 E 00	-3.16381 E 01	-3.34766 E 00	4.85259 E-03	-3.28112 E 00	3.26908 E 01	-1.53490 E 02			
30.40	1.17872 E 00	-3.17408 E 01	-3.36728 E 00	4.85302 E-03	-3.30044 E 00	3.27934 E 01	-1.53612 E 02			
30.50	1.17871 E 00	-3.18435 E 01	-3.38695 E 00	4.85344 E-03	-3.31983 E 00	3.28959 E 01	-1.53734 E 02			
30.60	1.17870 E 00	-3.19461 E 01	-3.40667 E 00	4.85384 E-03	-3.33926 E 00	3.29984 E 01	-1.53856 E 02			
30.70	1.17869 E 00	-3.20487 E 01	-3.42645 E 00	4.85420 E-03	-3.35875 E 00	3.31008 E 01	-1.53978 E 02			
30.80	1.17868 E 00	-3.21512 E 01	-3.44628 E 00	4.85455 E-03	-3.37829 E 00	3.32032 E 01	-1.54100 E 02			
30.90	1.17867 E 00	-3.22538 E 01	-3.46617 E 00	4.85486 E-03	-3.39789 E 00	3.33056 E 01	-1.54222 E 02			
31.00	1.17866 E 00	-3.23563 E 01	-3.48611 E 00	4.85516 E-03	-3.41755 E 00	3.34080 E 01	-1.54343 E 02			
31.10	1.17865 E 00	-3.24587 E 01	-3.50611 E 00	4.85542 E-03	-3.43725 E 00	3.35103 E 01	-1.54465 E 02			
31.20	1.17864 E 00	-3.25612 E 01	-3.52615 E 00	4.85567 E-03	-3.45701 E 00	3.36126 E 01	-1.54587 E 02			
31.30	1.17863 E 00	-3.26636 E 01	-3.54626 E 00	4.85588 E-03	-3.47683 E 00	3.37149 E 01	-1.54709 E 02			
31.40	1.17862 E 00	-3.27660 E 01	-3.56642 E 00	4.85608 E-03	-3.49670 E 00	3.38172 E 01	-1.54830 E 02			
31.50	1.17861 E 00	-3.28683 E 01	-3.58663 E 00	4.85625 E-03	-3.51662 E 00	3.39194 E 01	-1.54952 E 02			
31.60	1.17860 E 00	-3.29707 E 01	-3.60689 E 00	4.85639 E-03	-3.53660 E 00	3.40216 E 01	-1.55074 E 02			
31.70	1.17858 E 00	-3.30730 E 01	-3.62722 E 00	4.85652 E-03	-3.55663 E 00	3.41237 E 01	-1.55195 E 02			
31.80	1.17857 E 00	-3.31752 E 01	-3.64759 E 00	4.85662 E-03	-3.57672 E 00	3.42258 E 01	-1.55317 E 02			
31.90	1.17856 E 00	-3.32775 E 01	-3.66802 E 00	4.85670 E-03	-3.59686 E 00	3.43279 E 01	-1.55438 E 02			
32.00	1.17855 E 00	-3.33797 E 01	-3.68850 E 00	4.85675 E-03	-3.61706 E 00	3.44300 E 01	-1.55560 E 02			
32.10	1.17854 E 00	-3.34818 E 01	-3.70904 E 00	4.85678 E-03	-3.63731 E 00	3.45320 E 01	-1.55681 E 02			
32.20	1.17853 E 00	-3.35840 E 01	-3.72963 E 00	4.85679 E-03	-3.65761 E 00	3.46340 E 01	-1.55803 E 02			
32.30	1.17852 E 00	-3.36861 E 01	-3.75027 E 00	4.85677 E-03	-3.67797 E 00	3.47360 E 01	-1.55924 E 02			
32.40	1.17851 E 00	-3.37882 E 01	-3.77097 E 00	4.85673 E-03	-3.69838 E 00	3.48379 E 01	-1.56046 E 02			
32.50	1.17850 E 00	-3.38902 E 01	-3.79173 E 00	4.85667 E-03	-3.71884 E 00	3.49398 E 01	-1.56167 E 02			
32.60	1.17849 E 00	-3.39922 E 01	-3.81253 E 00	4.85659 E-03	-3.73936 E 00	3.50417 E 01	-1.56289 E 02			
32.70	1.17848 E 00	-3.40942 E 01	-3.83339 E 00	4.85649 E-03	-3.75994 E 00	3.51435 E 01	-1.56410 E 02			
32.80	1.17847 E 00	-3.41962 E 01	-3.85431 E 00	4.85637 E-03	-3.78056 E 00	3.52453 E 01	-1.56532 E 02			
32.90	1.17846 E 00	-3.42981 E 01	-3.87528 E 00	4.85622 E-03	-3.80124 E 00	3.53471 E 01	-1.56653 E 02			
33.00	1.17845 E 00	-3.44000 E 01	-3.89630 E 00	4.85604 E-03	-3.82198 E 00	3.54489 E 01	-1.56775 E 02			
33.10	1.17844 E 00	-3.45018 E 01	-3.91737 E 00	4.85585 E-03	-3.84277 E 00	3.55506 E 01	-1.56897 E 02			
33.20	1.17844 E 00	-3.46036 E 01	-3.93850 E 00	4.85563 E-03	-3.86361 E 00	3.56523 E 01	-1.57018 E 02			
33.30	1.17843 E 00	-3.47054 E 01	-3.95969 E 00	4.85540 E-03	-3.88451 E 00	3.57539 E 01	-1.57140 E 02			
33.40	1.17842 E 00	-3.48072 E 01	-3.98093 E 00	4.85514 E-03	-3.90546 E 00	3.58555 E 01	-1.57262 E 02			
33.50	1.17841 E 00	-3.49089 E 01	-4.00222 E 00	4.85487 E-03	-3.92646 E 00	3.59571 E 01	-1.57383 E 02			
33.60	1.17840 E 00	-3.50106 E 01	-4.02356 E 00	4.85457 E-03	-3.94752 E 00	3.60587 E 01	-1.57505 E 02			
33.70	1.17839 E 00	-3.51123 E 01	-4.04496 E 00	4.85426 E-03	-3.96863 E 00	3.61602 E 01	-1.57627 E 02			
33.80	1.17838 E 00	-3.52140 E 01	-4.06641 E 00	4.85392 E-03	-3.98980 E 00	3.62617 E 01	-1.57749 E 02			
33.90	1.17837 E 00	-3.53156 E 01	-4.08792 E 00	4.85356 E-03	-4.01102 E 00	3.63632 E 01	-1.57870 E 02			
34.00	1.17836 E 00	-3.54171 E 01	-4.10948 E 00	4.85317 E-03	-4.03229 E 00	3.64646 E 01	-1.57993 E 02			
34.10	1.17835 E 00	-3.55187 E 01	-4.13109 E 00	4.85278 E-03	-4.05362 E 00	3.65660 E 01	-1.58114 E 02			
34.20	1.17834 E 00	-3.56202 E 01	-4.15276 E 00	4.85235 E-03	-4.07500 E 00	3.66674 E 01	-1.58236 E 02			
34.30	1.17833 E 00	-3.57217 E 01	-4.17448 E 00	4.85191 E-03	-4.09643 E 00	3.67687 E 01	-1.58358 E 02			
34.40	1.17832 E 00	-3.58231 E 01	-4.19626 E 00	4.85145 E-03	-4.11792 E 00	3.68700 E 01	-1.58481 E 02			
34.50	1.17831 E 00	-3.59245 E 01	-4.21808 E 00	4.85097 E-03	-4.13946 E 00	3.69713 E 01	-1.58603 E 02			
34.60	1.17830 E 00	-3.60259 E 01	-4.23996 E 00	4.85047 E-03	-4.16105 E 00	3.70725 E 01	-1.58725 E 02			
34.70	1.17829 E 00	-3.61272 E 01	-4.26190 E 00	4.84995 E-03	-4.18270 E 00	3.71737 E 01	-1.58847 E 02			
34.80	1.17828 E 00	-3.62286 E 01	-4.28389 E 00	4.84941 E-03	-4.20440 E 00	3.72749 E 01	-1.58970 E 02			
34.90	1.17827 E 00	-3.63298 E 01	-4.30593 E 00	4.84886 E-03	-4.22616 E 00	3.73760 E 01	-1.59092 E 02			
35.00	1.17826 E 00	-3.64311 E 01	-4.32802 E 00	4.84828 E-03	-4.24797 E 00	3.74771 E 01	-1.59214 E 02			
35.10	1.17826 E 00	-3.65323 E 01	-4.35017 E 00	4.84767 E-03	-4.26983 E 00	3.75782 E 01	-1.59337 E 02			
35.20	1.17825 E 00	-3.66335 E 01	-4.37237 E 00	4.84706 E-03	-4.29174 E 00	3.76792 E 01	-1.59460 E 02			
35.30	1.17824 E 00	-3.67347 E 01	-4.39463 E 00	4.84642 E-03	-4.31371 E 00	3.77802 E 01	-1.59582 E 02			
35.40	1.17823 E 00	-3.68358 E 01	-4.41694 E 00	4.84576 E-03	-4.33574 E 00	3.78812 E 01	-1.59705 E 02			
35.50	1.17822 E 00	-3.69369 E 01	-4.43930 E 00	4.84508 E-03	-4.35781 E 00	3.79821 E 01	-1.59828 E 02			
35.60	1.17821 E 00	-3.70379 E 01	-4.46172 E 00	4.84439 E-03	-4.37994 E 00	3.80830 E 01	-1.59951 E 02			
35.70	1.17820 E 00	-3.71389 E 01	-4.48418 E 00	4.84368 E-03	-4.40212 E 00	3.81839 E 01	-1.60074 E 02			
35.80	1.17819 E 00	-3.72399 E 01	-4.50671 E 00	4.84294 E-03	-4.42436 E 00	3.82847 E 01	-1.60197 E 02			
35.90	1.17818 E 00	-3.73409 E 01	-4.52928 E 00	4.84220 E-03	-4.44665 E 00	3.83855 E 01	-1.60321 E 02			
36.00	1.17817 E 00	-3.74418 E 01	-4.55191 E 00	4.84143 E-03	-4.46899 E 00	3.84863 E 01	-1.60444 E 02			

## ELECTRON RADIAL FUNCTIONS

 $Z=7$        $A=14$        $\rho=1.3A^{1/3}F$       Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
30.10	1.95054E-03	-2.58366E 00	-1.61059E-01	2.95993E 01	-1.57798E-01	2.67076E 00	-3.29351E-02
30.20	1.96351E-03	-2.60084E 00	-1.62555E-01	2.96006E 01	-1.59269E-01	2.68823E 00	-3.29363E-02
30.30	1.97653E-03	-2.61808E 00	-1.64061E-01	2.96019E 01	-1.60750E-01	2.70575E 00	-3.29376E-02
30.40	1.98959E-03	-2.63537E 00	-1.65575E-01	2.96032E 01	-1.62239E-01	2.72333E 00	-3.29389E-02
30.50	2.00269E-03	-2.65272E 00	-1.67099E-01	2.96046E 01	-1.63738E-01	2.74096E 00	-3.29402E-02
30.60	2.01583E-03	-2.67013E 00	-1.68632E-01	2.96059E 01	-1.65246E-01	2.75865E 00	-3.29414E-02
30.70	2.02902E-03	-2.68759E 00	-1.70175E-01	2.96071E 01	-1.66763E-01	2.77640E 00	-3.29427E-02
30.80	2.04225E-03	-2.70511E 00	-1.71726E-01	2.96084E 01	-1.68289E-01	2.79420E 00	-3.29439E-02
30.90	2.05552E-03	-2.72268E 00	-1.73287E-01	2.96097E 01	-1.69824E-01	2.81205E 00	-3.29451E-02
31.00	2.06884E-03	-2.74031E 00	-1.74857E-01	2.96110E 01	-1.71368E-01	2.82996E 00	-3.29464E-02
31.10	2.08220E-03	-2.75799E 00	-1.76437E-01	2.96122E 01	-1.72922E-01	2.84793E 00	-3.29476E-02
31.20	2.09560E-03	-2.77573E 00	-1.78026E-01	2.96135E 01	-1.74485E-01	2.86595E 00	-3.29488E-02
31.30	2.10905E-03	-2.79353E 00	-1.79624E-01	2.96147E 01	-1.76057E-01	2.88403E 00	-3.29500E-02
31.40	2.12253E-03	-2.81138E 00	-1.81232E-01	2.96160E 01	-1.77639E-01	2.90216E 00	-3.29512E-02
31.50	2.13607E-03	-2.82928E 00	-1.82849E-01	2.96172E 01	-1.79230E-01	2.92035E 00	-3.29524E-02
31.60	2.14964E-03	-2.84724E 00	-1.84476E-01	2.96184E 01	-1.80830E-01	2.93860E 00	-3.29536E-02
31.70	2.16326E-03	-2.86526E 00	-1.86112E-01	2.96196E 01	-1.82440E-01	2.95689E 00	-3.29547E-02
31.80	2.17692E-03	-2.88333E 00	-1.87757E-01	2.96208E 01	-1.84059E-01	2.97525E 00	-3.29559E-02
31.90	2.19062E-03	-2.90145E 00	-1.89412E-01	2.96220E 01	-1.85688E-01	2.99366E 00	-3.29571E-02
32.00	2.20436E-03	-2.91963E 00	-1.91077E-01	2.96232E 01	-1.87326E-01	3.01212E 00	-3.29582E-02
32.10	2.21815E-03	-2.93787E 00	-1.92751E-01	2.96244E 01	-1.88973E-01	3.03064E 00	-3.29594E-02
32.20	2.23198E-03	-2.95616E 00	-1.94435E-01	2.96255E 01	-1.90631E-01	3.04921E 00	-3.29605E-02
32.30	2.24586E-03	-2.97451E 00	-1.96129E-01	2.96267E 01	-1.92297E-01	3.06784E 00	-3.29617E-02
32.40	2.25978E-03	-2.99291E 00	-1.97832E-01	2.96278E 01	-1.93974E-01	3.08653E 00	-3.29628E-02
32.50	2.27374E-03	-3.01137E 00	-1.99545E-01	2.96290E 01	-1.95659E-01	3.10527E 00	-3.29639E-02
32.60	2.28774E-03	-3.02988E 00	-2.01268E-01	2.96301E 01	-1.97355E-01	3.12406E 00	-3.29650E-02
32.70	2.30179E-03	-3.04845E 00	-2.03040E-01	2.96313E 01	-1.99060E-01	3.14291E 00	-3.29661E-02
32.80	2.31588E-03	-3.06707E 00	-2.04743E-01	2.96324E 01	-2.00775E-01	3.16182E 00	-3.29672E-02
32.90	2.33001E-03	-3.08575E 00	-2.06495E-01	2.96335E 01	-2.02500E-01	3.18078E 00	-3.29683E-02
33.00	2.34418E-03	-3.10448E 00	-2.08257E-01	2.96346E 01	-2.04234E-01	3.19980E 00	-3.29694E-02
33.10	2.35840E-03	-3.12327E 00	-2.10028E-01	2.96357E 01	-2.05978E-01	3.21887E 00	-3.29705E-02
33.20	2.37266E-03	-3.14211E 00	-2.11810E-01	2.96368E 01	-2.07732E-01	3.23799E 00	-3.29716E-02
33.30	2.38697E-03	-3.16101E 00	-2.13602E-01	2.96379E 01	-2.09496E-01	3.25717E 00	-3.29727E-02
33.40	2.40132E-03	-3.17997E 00	-2.15403E-01	2.96390E 01	-2.11269E-01	3.27641E 00	-3.29737E-02
33.50	2.41571E-03	-3.19897E 00	-2.17215E-01	2.96401E 01	-2.13053E-01	3.29570E 00	-3.29748E-02
33.60	2.43014E-03	-3.21804E 00	-2.19036E-01	2.96411E 01	-2.14846E-01	3.31504E 00	-3.29758E-02
33.70	2.44462E-03	-3.23716E 00	-2.20868E-01	2.96422E 01	-2.16649E-01	3.33444E 00	-3.29769E-02
33.80	2.45913E-03	-3.25633E 00	-2.22709E-01	2.96433E 01	-2.18463E-01	3.35390E 00	-3.29779E-02
33.90	2.47370E-03	-3.27556E 00	-2.24561E-01	2.96443E 01	-2.20286E-01	3.37341E 00	-3.29790E-02
34.00	2.48830E-03	-3.29484E 00	-2.26422E-01	2.96453E 01	-2.22119E-01	3.39297E 00	-3.29800E-02
34.10	2.50295E-03	-3.31418E 00	-2.28294E-01	2.96464E 01	-2.23962E-01	3.41259E 00	-3.29810E-02
34.20	2.51764E-03	-3.33357E 00	-2.30176E-01	2.96474E 01	-2.25816E-01	3.43227E 00	-3.29820E-02
34.30	2.53237E-03	-3.35302E 00	-2.32068E-01	2.96484E 01	-2.27679E-01	3.45199E 00	-3.29831E-02
34.40	2.54715E-03	-3.37252E 00	-2.33971E-01	2.96495E 01	-2.29553E-01	3.47178E 00	-3.29841E-02
34.50	2.56197E-03	-3.39208E 00	-2.35883E-01	2.96505E 01	-2.31436E-01	3.49162E 00	-3.29851E-02
34.60	2.57683E-03	-3.41169E 00	-2.37806E-01	2.96515E 01	-2.33330E-01	3.51151E 00	-3.29861E-02
34.70	2.59174E-03	-3.43135E 00	-2.39739E-01	2.96525E 01	-2.35234E-01	3.53146E 00	-3.29871E-02
34.80	2.60669E-03	-3.45108E 00	-2.41683E-01	2.96535E 01	-2.37148E-01	3.55146E 00	-3.29880E-02
34.90	2.62168E-03	-3.47085E 00	-2.43637E-01	2.96545E 01	-2.39073E-01	3.57152E 00	-3.29890E-02
35.00	2.63671E-03	-3.49068E 00	-2.45601E-01	2.96554E 01	-2.41008E-01	3.59163E 00	-3.29900E-02
35.10	2.65179E-03	-3.51057E 00	-2.47575E-01	2.96564E 01	-2.42953E-01	3.61180E 00	-3.29910E-02
35.20	2.66691E-03	-3.53051E 00	-2.49560E-01	2.96574E 01	-2.44908E-01	3.63202E 00	-3.29919E-02
35.30	2.68208E-03	-3.55050E 00	-2.51556E-01	2.96584E 01	-2.46874E-01	3.65229E 00	-3.29929E-02
35.40	2.69728E-03	-3.57055E 00	-2.53561E-01	2.96593E 01	-2.48850E-01	3.67262E 00	-3.29939E-02
35.50	2.71253E-03	-3.59066E 00	-2.55578E-01	2.96603E 01	-2.50836E-01	3.69301E 00	-3.29948E-02
35.60	2.72782E-03	-3.61081E 00	-2.57604E-01	2.96612E 01	-2.52833E-01	3.71345E 00	-3.29958E-02
35.70	2.74316E-03	-3.63103E 00	-2.59642E-01	2.96622E 01	-2.54841E-01	3.73394E 00	-3.29967E-02
35.80	2.75854E-03	-3.65129E 00	-2.61690E-01	2.96631E 01	-2.56858E-01	3.75449E 00	-3.29976E-02
35.90	2.77396E-03	-3.67162E 00	-2.63748E-01	2.96640E 01	-2.58887E-01	3.77509E 00	-3.29986E-02
36.00	2.78942E-03	-3.69199E 00	-2.65818E-01	2.96650E 01	-2.60926E-01	3.79575E 00	-3.29995E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.3 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
36.10	1.17816E 00	-3.75427E 01	-4.57459E 00	4.84065E-03	-4.49139E 00	3.85871E 01	-1.60567E 02			
36.20	1.17816E 00	-3.76435E 01	-4.59733E 00	4.83985E-03	-4.51384E 00	3.86878E 01	-1.60691E 02			
36.30	1.17815E 00	-3.77444E 01	-4.62012E 00	4.83902E-03	-4.53634E 00	3.87884E 01	-1.60814E 02			
36.40	1.17814E 00	-3.78452E 01	-4.64296E 00	4.83819E-03	-4.55889E 00	3.88891E 01	-1.60938E 02			
36.50	1.17813E 00	-3.79459E 01	-4.66585E 00	4.83733E-03	-4.58150E 00	3.89897E 01	-1.61062E 02			
36.60	1.17812E 00	-3.80466E 01	-4.68880E 00	4.83646E-03	-4.60416E 00	3.90903E 01	-1.61186E 02			
36.70	1.17811E 00	-3.81473E 01	-4.71180E 00	4.83555E-03	-4.62688E 00	3.91908E 01	-1.61310E 02			
36.80	1.17810E 00	-3.82480E 01	-4.73485E 00	4.83465E-03	-4.64964E 00	3.92913E 01	-1.61434E 02			
36.90	1.17809E 00	-3.83486E 01	-4.75796E 00	4.83371E-03	-4.67246E 00	3.93918E 01	-1.61559E 02			
37.00	1.17809E 00	-3.84492E 01	-4.78112E 00	4.83277E-03	-4.69534E 00	3.94922E 01	-1.61683E 02			
37.10	1.17808E 00	-3.85497E 01	-4.80433E 00	4.83180E-03	-4.71826E 00	3.95926E 01	-1.61807E 02			
37.20	1.17807E 00	-3.86502E 01	-4.82759E 00	4.83082E-03	-4.74124E 00	3.96930E 01	-1.61932E 02			
37.30	1.17806E 00	-3.87507E 01	-4.85091E 00	4.82982E-03	-4.76428E 00	3.97933E 01	-1.62057E 02			
37.40	1.17805E 00	-3.88512E 01	-4.87428E 00	4.82881E-03	-4.78736E 00	3.98936E 01	-1.62182E 02			
37.50	1.17804E 00	-3.89516E 01	-4.89770E 00	4.82778E-03	-4.81050E 00	3.99938E 01	-1.62307E 02			
37.60	1.17803E 00	-3.90520E 01	-4.92118E 00	4.82673E-03	-4.83369E 00	4.00941E 01	-1.62432E 02			
37.70	1.17802E 00	-3.91523E 01	-4.94471E 00	4.82566E-03	-4.85694E 00	4.01943E 01	-1.62557E 02			
37.80	1.17802E 00	-3.92526E 01	-4.96829E 00	4.82458E-03	-4.88023E 00	4.02944E 01	-1.62682E 02			
37.90	1.17801E 00	-3.93529E 01	-4.99193E 00	4.82348E-03	-4.90358E 00	4.03945E 01	-1.62808E 02			
38.00	1.17800E 00	-3.94531E 01	-5.01562E 00	4.82236E-03	-4.92698E 00	4.04946E 01	-1.62934E 02			
38.10	1.17799E 00	-3.95534E 01	-5.03936E 00	4.82123E-03	-4.95044E 00	4.05947E 01	-1.63059E 02			
38.20	1.17798E 00	-3.96535E 01	-5.06315E 00	4.82007E-03	-4.97395E 00	4.06947E 01	-1.63186E 02			
38.30	1.17797E 00	-3.97537E 01	-5.08699E 00	4.81891E-03	-4.99751E 00	4.07947E 01	-1.63312E 02			
38.40	1.17797E 00	-3.98538E 01	-5.11089E 00	4.81773E-03	-5.02112E 00	4.08947E 01	-1.63438E 02			
38.50	1.17796E 00	-3.99538E 01	-5.13484E 00	4.81652E-03	-5.04479E 00	4.09946E 01	-1.63565E 02			
38.60	1.17795E 00	-4.00539E 01	-5.15885E 00	4.81531E-03	-5.06851E 00	4.10944E 01	-1.63691E 02			
38.70	1.17794E 00	-4.01539E 01	-5.18290E 00	4.81408E-03	-5.09228E 00	4.11943E 01	-1.63818E 02			
38.80	1.17793E 00	-4.02538E 01	-5.20701E 00	4.81284E-03	-5.11610E 00	4.12941E 01	-1.63944E 02			
38.90	1.17792E 00	-4.03538E 01	-5.23118E 00	4.81157E-03	-5.13998E 00	4.13939E 01	-1.64072E 02			
39.00	1.17792E 00	-4.04537E 01	-5.25539E 00	4.81029E-03	-5.16391E 00	4.14936E 01	-1.64199E 02			
39.10	1.17791E 00	-4.05535E 01	-5.27966E 00	4.80899E-03	-5.18789E 00	4.15933E 01	-1.64326E 02			
39.20	1.17790E 00	-4.06534E 01	-5.30398E 00	4.80768E-03	-5.21193E 00	4.16930E 01	-1.64454E 02			
39.30	1.17789E 00	-4.07532E 01	-5.32835E 00	4.80635E-03	-5.23602E 00	4.17926E 01	-1.64581E 02			
39.40	1.17788E 00	-4.08529E 01	-5.35277E 00	4.80500E-03	-5.26015E 00	4.18922E 01	-1.64709E 02			
39.50	1.17788E 00	-4.09526E 01	-5.37725E 00	4.80364E-03	-5.28435E 00	4.19918E 01	-1.64837E 02			
39.60	1.17787E 00	-4.10523E 01	-5.40178E 00	4.80227E-03	-5.30859E 00	4.20913E 01	-1.64965E 02			
39.70	1.17786E 00	-4.11520E 01	-5.42636E 00	4.80088E-03	-5.33289E 00	4.21908E 01	-1.65094E 02			
39.80	1.17785E 00	-4.12516E 01	-5.45099E 00	4.79948E-03	-5.35724E 00	4.22903E 01	-1.65222E 02			
39.90	1.17784E 00	-4.13512E 01	-5.47568E 00	4.79805E-03	-5.38164E 00	4.23897E 01	-1.65351E 02			
40.00	1.17784E 00	-4.14507E 01	-5.50041E 00	4.79662E-03	-5.40609E 00	4.24891E 01	-1.65480E 02			
40.10	1.17783E 00	-4.15502E 01	-5.52521E 00	4.79516E-03	-5.43060E 00	4.25884E 01	-1.65609E 02			
40.20	1.17782E 00	-4.16497E 01	-5.55005E 00	4.79370E-03	-5.45516E 00	4.26877E 01	-1.65738E 02			
40.30	1.17781E 00	-4.17491E 01	-5.57494E 00	4.79221E-03	-5.47977E 00	4.27870E 01	-1.65868E 02			
40.40	1.17780E 00	-4.18485E 01	-5.59989E 00	4.79072E-03	-5.50443E 00	4.28863E 01	-1.65998E 02			
40.50	1.17780E 00	-4.19479E 01	-5.62489E 00	4.78921E-03	-5.52915E 00	4.29855E 01	-1.66127E 02			
40.60	1.17779E 00	-4.20472E 01	-5.64994E 00	4.78768E-03	-5.55392E 00	4.30846E 01	-1.66257E 02			
40.70	1.17778E 00	-4.21465E 01	-5.67504E 00	4.78614E-03	-5.57874E 00	4.31838E 01	-1.66387E 02			
40.80	1.17777E 00	-4.22457E 01	-5.70020E 00	4.78458E-03	-5.60361E 00	4.32828E 01	-1.66518E 02			
40.90	1.17776E 00	-4.23450E 01	-5.72541E 00	4.78301E-03	-5.62853E 00	4.33819E 01	-1.66649E 02			
41.00	1.17776E 00	-4.24441E 01	-5.75067E 00	4.78142E-03	-5.65351E 00	4.34809E 01	-1.66779E 02			
41.10	1.17775E 00	-4.25433E 01	-5.77598E 00	4.77982E-03	-5.67854E 00	4.35799E 01	-1.66911E 02			
41.20	1.17774E 00	-4.26424E 01	-5.80134E 00	4.77820E-03	-5.70362E 00	4.36789E 01	-1.67042E 02			
41.30	1.17773E 00	-4.27415E 01	-5.82676E 00	4.77657E-03	-5.72875E 00	4.37778E 01	-1.67173E 02			
41.40	1.17773E 00	-4.28405E 01	-5.85222E 00	4.77493E-03	-5.75393E 00	4.38767E 01	-1.67305E 02			
41.50	1.17772E 00	-4.29395E 01	-5.87774E 00	4.77326E-03	-5.77917E 00	4.39755E 01	-1.67437E 02			
41.60	1.17771E 00	-4.30385E 01	-5.90332E 00	4.77159E-03	-5.80446E 00	4.40743E 01	-1.67569E 02			
41.70	1.17770E 00	-4.31374E 01	-5.92894E 00	4.76990E-03	-5.82980E 00	4.41731E 01	-1.67701E 02			
41.80	1.17770E 00	-4.32363E 01	-5.95461E 00	4.76820E-03	-5.85519E 00	4.42718E 01	-1.67833E 02			
41.90	1.17769E 00	-4.33351E 01	-5.98034E 00	4.76648E-03	-5.88063E 00	4.43705E 01	-1.67966E 02			
42.00	1.17768E 00	-4.34339E 01	-6.00612E 00	4.76474E-03	-5.90613E 00	4.44691E 01	-1.68099E 02			

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$  $A = 14$  $\rho = 1.3 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
36.10	2.80493E-03	-3.71243E 00	-2.67897E-01	2.96659E 01	-2.62975E-01	3.81646E 00	-3.30004E-02
36.20	2.82048E-03	-3.73291E 00	-2.69988E-01	2.96668E 01	-2.65035E-01	3.83723E 00	-3.30013E-02
36.30	2.83608E-03	-3.75345E 00	-2.72089E-01	2.96677E 01	-2.67106E-01	3.85805E 00	-3.30022E-02
36.40	2.85171E-03	-3.77405E 00	-2.74201E-01	2.96686E 01	-2.69187E-01	3.87893E 00	-3.30031E-02
36.50	2.86739E-03	-3.79470E 00	-2.76324E-01	2.96695E 01	-2.71279E-01	3.89986E 00	-3.30041E-02
36.60	2.88311E-03	-3.81540E 00	-2.78457E-01	2.96704E 01	-2.73382E-01	3.92084E 00	-3.30049E-02
36.70	2.89888E-03	-3.83616E 00	-2.80601E-01	2.96713E 01	-2.75495E-01	3.94188E 00	-3.30058E-02
36.80	2.91469E-03	-3.85697E 00	-2.82757E-01	2.96722E 01	-2.77619E-01	3.96297E 00	-3.30067E-02
36.90	2.93054E-03	-3.87784E 00	-2.84922E-01	2.96731E 01	-2.79754E-01	3.98412E 00	-3.30076E-02
37.00	2.94643E-03	-3.89876E 00	-2.87099E-01	2.96739E 01	-2.81899E-01	4.00532E 00	-3.30085E-02
37.10	2.96237E-03	-3.91973E 00	-2.89287E-01	2.96748E 01	-2.84056E-01	4.02657E 00	-3.30094E-02
37.20	2.97835E-03	-3.94076E 00	-2.91486E-01	2.96757E 01	-2.86223E-01	4.04788E 00	-3.30102E-02
37.30	2.99437E-03	-3.96184E 00	-2.93695E-01	2.96765E 01	-2.88401E-01	4.06925E 00	-3.30111E-02
37.40	3.01044E-03	-3.98298E 00	-2.95916E-01	2.96774E 01	-2.90590E-01	4.09066E 00	-3.30120E-02
37.50	3.02654E-03	-4.00417E 00	-2.98147E-01	2.96782E 01	-2.92790E-01	4.11214E 00	-3.30128E-02
37.60	3.04270E-03	-4.02542E 00	-3.00390E-01	2.96791E 01	-2.95001E-01	4.13366E 00	-3.30137E-02
37.70	3.05889E-03	-4.04672E 00	-3.02644E-01	2.96799E 01	-2.97223E-01	4.15524E 00	-3.30145E-02
37.80	3.07513E-03	-4.06808E 00	-3.04909E-01	2.96807E 01	-2.99456E-01	4.17688E 00	-3.30154E-02
37.90	3.09141E-03	-4.08948E 00	-3.07184E-01	2.96816E 01	-3.01700E-01	4.19857E 00	-3.30162E-02
38.00	3.10773E-03	-4.11095E 00	-3.09471E-01	2.96824E 01	-3.03955E-01	4.22031E 00	-3.30171E-02
38.10	3.12410E-03	-4.13246E 00	-3.11770E-01	2.96832E 01	-3.06221E-01	4.24211E 00	-3.30179E-02
38.20	3.14051E-03	-4.15404E 00	-3.14079E-01	2.96840E 01	-3.08498E-01	4.26396E 00	-3.30187E-02
38.30	3.15696E-03	-4.17566E 00	-3.16400E-01	2.96848E 01	-3.10786E-01	4.28586E 00	-3.30196E-02
38.40	3.17345E-03	-4.19734E 00	-3.18732E-01	2.96857E 01	-3.13085E-01	4.30782E 00	-3.30204E-02
38.50	3.18999E-03	-4.21907E 00	-3.21075E-01	2.96865E 01	-3.15396E-01	4.32983E 00	-3.30212E-02
38.60	3.20657E-03	-4.24086E 00	-3.23429E-01	2.96873E 01	-3.17718E-01	4.35190E 00	-3.30220E-02
38.70	3.22320E-03	-4.26270E 00	-3.25795E-01	2.96881E 01	-3.20050E-01	4.37402E 00	-3.30228E-02
38.80	3.23987E-03	-4.28460E 00	-3.28172E-01	2.96888E 01	-3.22395E-01	4.39619E 00	-3.30236E-02
38.90	3.25658E-03	-4.30655E 00	-3.30560E-01	2.96896E 01	-3.24750E-01	4.41842E 00	-3.30244E-02
39.00	3.27333E-03	-4.32855E 00	-3.32960E-01	2.96904E 01	-3.27117E-01	4.44070E 00	-3.30252E-02
39.10	3.29012E-03	-4.35060E 00	-3.35371E-01	2.96912E 01	-3.29495E-01	4.46304E 00	-3.30260E-02
39.20	3.30696E-03	-4.37272E 00	-3.37794E-01	2.96920E 01	-3.31885E-01	4.48543E 00	-3.30268E-02
39.30	3.32384E-03	-4.39488E 00	-3.40228E-01	2.96927E 01	-3.34286E-01	4.50787E 00	-3.30276E-02
39.40	3.34077E-03	-4.41710E 00	-3.42674E-01	2.96935E 01	-3.36698E-01	4.53037E 00	-3.30284E-02
39.50	3.35774E-03	-4.43937E 00	-3.45131E-01	2.96943E 01	-3.39122E-01	4.55292E 00	-3.30292E-02
39.60	3.37475E-03	-4.46170E 00	-3.47600E-01	2.96950E 01	-3.41557E-01	4.57552E 00	-3.30300E-02
39.70	3.39180E-03	-4.48408E 00	-3.50080E-01	2.96958E 01	-3.44003E-01	4.59818E 00	-3.30307E-02
39.80	3.40890E-03	-4.50651E 00	-3.52572E-01	2.96965E 01	-3.46462E-01	4.62089E 00	-3.30315E-02
39.90	3.42604E-03	-4.52900E 00	-3.55076E-01	2.96973E 01	-3.48931E-01	4.64366E 00	-3.30323E-02
40.00	3.44322E-03	-4.55154E 00	-3.57591E-01	2.96980E 01	-3.51413E-01	4.66648E 00	-3.30330E-02
40.10	3.46045E-03	-4.57413E 00	-3.60118E-01	2.96987E 01	-3.53905E-01	4.68935E 00	-3.30338E-02
40.20	3.47771E-03	-4.59678E 00	-3.62656E-01	2.96995E 01	-3.56410E-01	4.71228E 00	-3.30345E-02
40.30	3.49503E-03	-4.61948E 00	-3.65207E-01	2.97002E 01	-3.58926E-01	4.73526E 00	-3.30353E-02
40.40	3.51238E-03	-4.64224E 00	-3.67769E-01	2.97009E 01	-3.61454E-01	4.75829E 00	-3.30360E-02
40.50	3.52978E-03	-4.66505E 00	-3.70343E-01	2.97016E 01	-3.63993E-01	4.78138E 00	-3.30368E-02
40.60	3.54722E-03	-4.68791E 00	-3.72928E-01	2.97024E 01	-3.66544E-01	4.80452E 00	-3.30375E-02
40.70	3.56470E-03	-4.71083E 00	-3.75526E-01	2.97031E 01	-3.69107E-01	4.82771E 00	-3.30383E-02
40.80	3.58223E-03	-4.73380E 00	-3.78135E-01	2.97038E 01	-3.71682E-01	4.85096E 00	-3.30390E-02
40.90	3.59980E-03	-4.75682E 00	-3.80756E-01	2.97045E 01	-3.74269E-01	4.87426E 00	-3.30397E-02
41.00	3.61741E-03	-4.77990E 00	-3.83389E-01	2.97052E 01	-3.76867E-01	4.89762E 00	-3.30405E-02
41.10	3.63506E-03	-4.80303E 00	-3.86034E-01	2.97059E 01	-3.79477E-01	4.92102E 00	-3.30412E-02
41.20	3.65276E-03	-4.82621E 00	-3.88691E-01	2.97066E 01	-3.82099E-01	4.94449E 00	-3.30419E-02
41.30	3.67050E-03	-4.84945E 00	-3.91360E-01	2.97073E 01	-3.84733E-01	4.96800E 00	-3.30426E-02
41.40	3.68829E-03	-4.87274E 00	-3.94041E-01	2.97080E 01	-3.87379E-01	4.99157E 00	-3.30434E-02
41.50	3.70611E-03	-4.89608E 00	-3.96734E-01	2.97086E 01	-3.90036E-01	5.01519E 00	-3.30441E-02
41.60	3.72398E-03	-4.91948E 00	-3.99439E-01	2.97093E 01	-3.92706E-01	5.03886E 00	-3.30448E-02
41.70	3.74190E-03	-4.94293E 00	-4.02157E-01	2.97100E 01	-3.95388E-01	5.06259E 00	-3.30455E-02
41.80	3.75985E-03	-4.96643E 00	-4.04886E-01	2.97107E 01	-3.98082E-01	5.08637E 00	-3.30462E-02
41.90	3.77785E-03	-4.98999E 00	-4.07627E-01	2.97114E 01	-4.00787E-01	5.11021E 00	-3.30469E-02
42.00	3.79589E-03	-5.01360E 00	-4.10381E-01	2.97120E 01	-4.03505E-01	5.13410E 00	-3.30476E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6$	$A=12$	$\rho=1.3 A^{1/3} F$				
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
0.10	1.88993E-01	3.32716E-03	-4.11380E-05	1.94195E-01	1.07464E-03	6.13969E-02	4.45327E 00
0.20	4.64667E-01	1.94269E-02	-2.39460E-04	9.46184E-02	3.35058E-03	1.91844E-01	8.21152E 00
0.30	6.05507E-01	4.84267E-02	-5.93903E-04	6.29416E-02	5.68386E-03	3.26606E-01	1.21580E 01
0.40	6.84715E-01	8.90309E-02	-1.08432E-03	4.72058E-02	7.95945E-03	4.59606E-01	1.61461E 01
0.50	7.33934E-01	1.39702E-01	-1.68673E-03	3.77508E-02	1.01474E-02	5.89535E-01	2.01396E 01
0.60	7.66727E-01	1.98856E-01	-2.37633E-03	3.14202E-02	1.22357E-02	7.16006E-01	2.41207E 01
0.70	7.89692E-01	2.65005E-01	-3.12971E-03	2.68731E-02	1.42201E-02	8.39003E-01	2.80775E 01
0.80	8.06387E-01	3.36819E-01	-3.92593E-03	2.34419E-02	1.61011E-02	9.58700E-01	3.20020E 01
0.90	8.18882E-01	4.13173E-01	-4.74716E-03	2.07564E-02	1.78815E-02	1.07537E 00	3.58883E 01
1.00	8.28460E-01	4.93136E-01	-5.57863E-03	1.85947E-02	1.95659E-02	1.18932E 00	3.97320E 01
1.10	8.35946E-01	5.75955E-01	-6.40836E-03	1.68156E-02	2.11590E-02	1.30087E 00	4.35304E 01
1.20	8.41897E-01	6.61032E-01	-7.22681E-03	1.53246E-02	2.26658E-02	1.41032E 00	4.72813E 01
1.30	8.46694E-01	7.47894E-01	-8.02639E-03	1.40563E-02	2.40910E-02	1.51795E 00	5.09836E 01
1.40	8.50612E-01	8.36170E-01	-8.80111E-03	1.29637E-02	2.54387E-02	1.62400E 00	5.46365E 01
1.50	8.53847E-01	9.25569E-01	-9.54630E-03	1.20125E-02	2.67127E-02	1.72868E 00	5.82398E 01
1.60	8.56545E-01	1.01586E 00	-1.02582E-02	1.11766E-02	2.79163E-02	1.83217E 00	6.17933E 01
1.70	8.58816E-01	1.10687E 00	-1.09340E-02	1.04361E-02	2.90525E-02	1.93464E 00	6.52974E 01
1.80	8.60741E-01	1.19845E 00	-1.15713E-02	9.77547E-03	3.01236E-02	2.03622E 00	6.87524E 01
1.90	8.62386E-01	1.29050E 00	-1.21683E-02	9.18236E-03	3.11318E-02	2.13703E 00	7.21589E 01
2.00	8.63801E-01	1.38291E 00	-1.27235E-02	8.64686E-03	3.20789E-02	2.23716E 00	7.55175E 01
2.10	8.65026E-01	1.47563E 00	-1.32358E-02	8.16095E-03	3.29665E-02	2.33670E 00	7.88289E 01
2.20	8.66090E-01	1.56860E 00	-1.37042E-02	7.71799E-03	3.37960E-02	2.43572E 00	8.20938E 01
2.30	8.67022E-01	1.66177E 00	-1.41279E-02	7.31252E-03	3.45685E-02	2.53428E 00	8.53129E 01
2.40	8.67840E-01	1.75510E 00	-1.45065E-02	6.93997E-03	3.52850E-02	2.63245E 00	8.84872E 01
2.50	8.68561E-01	1.84858E 00	-1.48392E-02	6.59646E-03	3.59464E-02	2.73025E 00	9.16173E 01
2.60	8.69200E-01	1.94216E 00	-1.51258E-02	6.27871E-03	3.65534E-02	2.82774E 00	9.47040E 01
2.70	8.69769E-01	2.03583E 00	-1.53660E-02	5.98394E-03	3.71068E-02	2.92495E 00	9.77483E 01
2.80	8.70275E-01	2.12958E 00	-1.55593E-02	5.70974E-03	3.76070E-02	3.02191E 00	1.00751E 02
2.90	8.70729E-01	2.22340E 00	-1.57057E-02	5.45401E-03	3.80547E-02	3.11864E 00	1.03713E 02
3.00	8.71136E-01	2.31726E 00	-1.58048E-02	5.21494E-03	3.84501E-02	3.21517E 00	1.06634E 02
3.10	8.71502E-01	2.41117E 00	-1.58566E-02	4.99097E-03	3.87938E-02	3.31152E 00	1.09516E 02
3.20	8.71832E-01	2.50512E 00	-1.58609E-02	4.78071E-03	3.90860E-02	3.40771E 00	1.12360E 02
3.30	8.72131E-01	2.59910E 00	-1.58177E-02	4.58293E-03	3.93270E-02	3.50374E 00	1.15166E 02
3.40	8.72401E-01	2.69310E 00	-1.57267E-02	4.39655E-03	3.95171E-02	3.59965E 00	1.17934E 02
3.50	8.72648E-01	2.78713E 00	-1.55879E-02	4.22061E-03	3.96566E-02	3.69543E 00	1.20667E 02
3.60	8.72871E-01	2.88117E 00	-1.54013E-02	4.05428E-03	3.97457E-02	3.79110E 00	1.23364E 02
3.70	8.73075E-01	2.97523E 00	-1.51668E-02	3.89676E-03	3.97845E-02	3.88668E 00	1.26025E 02
3.80	8.73260E-01	3.06930E 00	-1.48844E-02	3.74739E-03	3.97731E-02	3.98216E 00	1.28653E 02
3.90	8.73430E-01	3.16338E 00	-1.45539E-02	3.60555E-03	3.97119E-02	4.07755E 00	1.31247E 02
4.00	8.73586E-01	3.25747E 00	-1.41755E-02	3.47069E-03	3.96009E-02	4.17288E 00	1.33808E 02
4.10	8.73729E-01	3.35157E 00	-1.37489E-02	3.34230E-03	3.94401E-02	4.26813E 00	1.36336E 02
4.20	8.73860E-01	3.44567E 00	-1.32743E-02	3.21993E-03	3.92298E-02	4.36332E 00	1.38833E 02
4.30	8.73980E-01	3.53978E 00	-1.27516E-02	3.10316E-03	3.89700E-02	4.45845E 00	1.41299E 02
4.40	8.74090E-01	3.63390E 00	-1.21807E-02	2.99163E-03	3.86609E-02	4.55353E 00	1.43734E 02
4.50	8.74192E-01	3.72802E 00	-1.15616E-02	2.88498E-03	3.83024E-02	4.64856E 00	1.46140E 02
4.60	8.74286E-01	3.82214E 00	-1.08944E-02	2.78290E-03	3.78946E-02	4.74354E 00	1.48516E 02
4.70	8.74372E-01	3.91626E 00	-1.01790E-02	2.68512E-03	3.74377E-02	4.83849E 00	1.50863E 02
4.80	8.74452E-01	4.01039E 00	-9.41539E-03	2.59136E-03	3.69317E-02	4.93339E 00	1.53182E 02
4.90	8.74526E-01	4.10453E 00	-8.60357E-03	2.50137E-03	3.63766E-02	5.02827E 00	1.55473E 02
5.00	8.74593E-01	4.19865E 00	-7.74351E-03	2.41496E-03	3.57725E-02	5.12310E 00	1.57738E 02
5.10	8.74656E-01	4.29279E 00	-6.83522E-03	2.33188E-03	3.51195E-02	5.21792E 00	1.59975E 02
5.20	8.74714E-01	4.38693E 00	-5.87868E-03	2.25197E-03	3.44175E-02	5.31270E 00	1.62186E 02
5.30	8.74767E-01	4.48106E 00	-4.87389E-03	2.17504E-03	3.36666E-02	5.40746E 00	1.64372E 02
5.40	8.74817E-01	4.57520E 00	-3.82083E-03	2.10094E-03	3.28669E-02	5.50220E 00	1.66532E 02
5.50	8.74863E-01	4.66934E 00	-2.71951E-03	2.02951E-03	3.20183E-02	5.59692E 00	1.68667E 02
5.60	8.74905E-01	4.76348E 00	-1.56991E-03	1.96060E-03	3.11209E-02	5.69162E 00	1.70779E 02
5.70	8.74944E-01	4.85762E 00	-3.72025E-04	1.89410E-03	3.01748E-02	5.78630E 00	1.72866E 02
5.80	8.74980E-01	4.95176E 00	8.74142E-04	1.82987E-03	2.91799E-02	5.88097E 00	1.74930E 02
5.90	8.75013E-01	5.04590E 00	2.16860E-03	1.76780E-03	2.81362E-02	5.97562E 00	1.76970E 02
6.00	8.75044E-01	5.14004E 00	3.51135E-03	1.70778E-03	2.70438E-02	6.07027E 00	1.78989E 02

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=6$			$A=12$			$\rho=1.3A^{1/3}F$			Positron
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$				
0.10	3.69269E-09	8.62934E-07	-5.96932E-09	-2.31124E 00	1.71681E-07	1.71671E-05	1.95249E-01				
0.20	3.19551E-08	9.98602E-06	-6.88498E-08	-4.78710E 00	1.00410E-06	1.00634E-04	9.72093E-02				
0.30	9.13459E-08	3.72770E-05	-2.55619E-07	-7.10542E 00	2.52237E-06	2.53749E-04	6.70738E-02				
0.40	1.82010E-07	9.13292E-05	-6.21622E-07	-9.27020E 00	4.68754E-06	4.73991E-04	5.28294E-02				
0.50	3.03599E-07	1.79099E-04	-1.20770E-06	-1.12671E 01	7.54258E-06	7.58433E-04	4.47948E-02				
0.60	4.55734E-07	3.05896E-04	-2.04000E-06	-1.30887E 01	1.07678E-05	1.10416E-03	3.98031E-02				
0.70	6.38080E-07	4.75576E-04	-3.13165E-06	-1.47360E 01	1.45843E-05	1.50850E-03	3.65085E-02				
0.80	8.50361E-07	6.90798E-04	-4.48502E-06	-1.62163E 01	1.88558E-05	1.96914E-03	3.42428E-02				
0.90	1.09235E-06	9.53324E-04	-6.09433E-06	-1.75413E 01	2.35396E-05	2.48418E-03	3.26379E-02				
1.00	1.36388E-06	1.26426E-03	-7.94785E-06	-1.87247E 01	2.85971E-05	3.05209E-03	3.14759E-02				
1.10	1.66481E-06	1.62426E-03	-1.00297E-05	-1.97809E 01	3.39925E-05	3.67167E-03	3.06205E-02				
1.20	1.99503E-06	2.03368E-03	-1.23214E-05	-2.07240E 01	3.96935E-05	4.34201E-03	2.99828E-02				
1.30	2.35445E-06	2.49269E-03	-1.48023E-05	-2.15673E 01	4.56697E-05	5.06239E-03	2.95030E-02				
1.40	2.74301E-06	3.00132E-03	-1.74510E-05	-2.23226E 01	5.18928E-05	5.83229E-03	2.91396E-02				
1.50	3.16064E-06	3.55954E-03	-2.02450E-05	-2.30007E 01	5.83360E-05	6.65130E-03	2.88634E-02				
1.60	3.60733E-06	4.16728E-03	-2.31618E-05	-2.36111E 01	6.49734E-05	7.51914E-03	2.86533E-02				
1.70	4.08301E-06	4.82444E-03	-2.61782E-05	-2.41621E 01	7.17802E-05	8.43556E-03	2.84938E-02				
1.80	4.58768E-06	5.53091E-03	-2.92714E-05	-2.46609E 01	7.87322E-05	9.40041E-03	2.83734E-02				
1.90	5.12131E-06	6.28659E-03	-3.24182E-05	-2.51136E 01	8.58055E-05	1.04136E-02	2.82835E-02				
2.00	5.68388E-06	7.09139E-03	-3.55956E-05	-2.55258E 01	9.29768E-05	1.14749E-02	2.82175E-02				
2.10	6.27537E-06	7.94519E-03	-3.87805E-05	-2.59021E 01	1.00223E-04	1.25844E-02	2.81704E-02				
2.20	6.89577E-06	8.84792E-03	-4.19500E-05	-2.62465E 01	1.07521E-04	1.37420E-02	2.81383E-02				
2.30	7.54508E-06	9.79950E-03	-4.50812E-05	-2.65627E 01	1.14849E-04	1.49477E-02	2.81180E-02				
2.40	8.22329E-06	1.07999E-02	-4.81513E-05	-2.68537E 01	1.22183E-04	1.62014E-02	2.81072E-02				
2.50	8.93037E-06	1.18489E-02	-5.11374E-05	-2.71221E 01	1.29502E-04	1.75030E-02	2.81040E-02				
2.60	9.66633E-06	1.29466E-02	-5.40168E-05	-2.73703E 01	1.36782E-04	1.88527E-02	2.81069E-02				
2.70	1.04312E-05	1.40929E-02	-5.67669E-05	-2.76003E 01	1.44002E-04	2.02504E-02	2.81146E-02				
2.80	1.12249E-05	1.52878E-02	-5.93650E-05	-2.78140E 01	1.51139E-04	2.16960E-02	2.81262E-02				
2.90	1.20475E-05	1.65311E-02	-6.17885E-05	-2.80129E 01	1.58171E-04	2.31897E-02	2.81409E-02				
3.00	1.28989E-05	1.78229E-02	-6.40149E-05	-2.81984E 01	1.65075E-04	2.47313E-02	2.81580E-02				
3.10	1.37792E-05	1.91632E-02	-6.60215E-05	-2.83718E 01	1.71829E-04	2.63209E-02	2.81770E-02				
3.20	1.46884E-05	2.05518E-02	-6.77860E-05	-2.85341E 01	1.78412E-04	2.79585E-02	2.81974E-02				
3.30	1.56263E-05	2.19888E-02	-6.92859E-05	-2.86863E 01	1.84800E-04	2.96441E-02	2.82190E-02				
3.40	1.65932E-05	2.34741E-02	-7.04987E-05	-2.88292E 01	1.90972E-04	3.13776E-02	2.82415E-02				
3.50	1.75889E-05	2.50078E-02	-7.14019E-05	-2.89638E 01	1.96906E-04	3.31592E-02	2.82646E-02				
3.60	1.86135E-05	2.65897E-02	-7.19732E-05	-2.90905E 01	2.02578E-04	3.49887E-02	2.82880E-02				
3.70	1.96669E-05	2.82199E-02	-7.21902E-05	-2.92102E 01	2.07968E-04	3.68663E-02	2.83118E-02				
3.80	2.07491E-05	2.98983E-02	-7.20305E-05	-2.93232E 01	2.13052E-04	3.87919E-02	2.83357E-02				
3.90	2.18602E-05	3.16249E-02	-7.14717E-05	-2.94302E 01	2.17809E-04	4.07654E-02	2.83596E-02				
4.00	2.30001E-05	3.33997E-02	-7.04916E-05	-2.95316E 01	2.22216E-04	4.27870E-02	2.83834E-02				
4.10	2.41688E-05	3.52227E-02	-6.90678E-05	-2.96278E 01	2.26251E-04	4.48566E-02	2.84071E-02				
4.20	2.53664E-05	3.70938E-02	-6.71778E-05	-2.97192E 01	2.29893E-04	4.69742E-02	2.84306E-02				
4.30	2.65929E-05	3.90130E-02	-6.47996E-05	-2.98061E 01	2.33117E-04	4.91398E-02	2.84539E-02				
4.40	2.78481E-05	4.09803E-02	-6.19106E-05	-2.98888E 01	2.35904E-04	5.13535E-02	2.84768E-02				
4.50	2.91322E-05	4.29956E-02	-5.84887E-05	-2.99676E 01	2.38230E-04	5.36151E-02	2.84995E-02				
4.60	3.04451E-05	4.50589E-02	-5.45115E-05	-3.00428E 01	2.40072E-04	5.59248E-02	2.85219E-02				
4.70	3.17869E-05	4.71702E-02	-4.99569E-05	-3.01146E 01	2.41410E-04	5.82826E-02	2.85438E-02				
4.80	3.31575E-05	4.93292E-02	-4.48025E-05	-3.01832E 01	2.42220E-04	6.06884E-02	2.85655E-02				
4.90	3.45569E-05	5.15362E-02	-3.90263E-05	-3.02489E 01	2.42481E-04	6.31422E-02	2.85867E-02				
5.00	3.59852E-05	5.37906E-02	-3.26059E-05	-3.03118E 01	2.42170E-04	6.56440E-02	2.86076E-02				
5.10	3.74423E-05	5.60927E-02	-2.55193E-05	-3.03720E 01	2.41265E-04	6.81939E-02	2.86281E-02				
5.20	3.89282E-05	5.84419E-02	-1.77445E-05	-3.04298E 01	2.39744E-04	7.07918E-02	2.86482E-02				
5.30	4.04429E-05	6.08379E-02	-9.25947E-06	-3.04852E 01	2.37584E-04	7.34378E-02	2.86680E-02				
5.40	4.19865E-05	6.32800E-02	-4.26607E-06	-3.05385E 01	2.34764E-04	7.61318E-02	2.86873E-02				
5.50	4.35589E-05	6.57669E-02	9.92712E-06	-3.05897E 01	2.31261E-04	7.88739E-02	2.87063E-02				
5.60	4.51601E-05	6.82964E-02	2.06699E-05	-3.06390E 01	2.27052E-04	8.16640E-02	2.87249E-02				
5.70	4.67902E-05	7.08636E-02	3.22032E-05	-3.06864E 01	2.22117E-04	8.45022E-02	2.87431E-02				
5.80	4.84490E-05	7.34530E-02	4.45352E-05	-3.07321E 01	2.16432E-04	8.73885E-02	2.87610E-02				
5.90	5.01368E-05	7.60009E-02	5.76280E-05	-3.07761E 01	2.09975E-04	9.03228E-02	2.87785E-02				
6.00	5.18533E-05	7.70543E-02	7.01403E-05	-3.08185E 01	2.02724E-04	9.33051E-02	2.87956E-02				



ELECTRON RADIAL FUNCTIONS

Positron	$Z=6$		$A=12$		$\rho=1.3 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	8.75072E-01	5.23417E 00	4.90241E-03	1.64972E-03	2.59028E-02	6.16490E 00	1.80984E 02	
6.20	8.75099E-01	5.32830E 00	6.34174E-03	1.59353E-03	2.47130E-02	6.25952E 00	1.82959E 02	
6.30	8.75123E-01	5.42242E 00	7.82937E-03	1.53911E-03	2.34746E-02	6.35413E 00	1.84911E 02	
6.40	8.75145E-01	5.51653E 00	9.36528E-03	1.48639E-03	2.21875E-02	6.44874E 00	1.86843E 02	
6.50	8.75166E-01	5.61062E 00	1.09494E-02	1.43528E-03	2.08517E-02	6.54333E 00	1.88754E 02	
6.60	8.75185E-01	5.70469E 00	1.25819E-02	1.38571E-03	1.94673E-02	6.63792E 00	1.90644E 02	
6.70	8.75201E-01	5.79872E 00	1.42625E-02	1.33762E-03	1.80343E-02	6.73251E 00	1.92515E 02	
6.80	8.75217E-01	5.89271E 00	1.59912E-02	1.29093E-03	1.65526E-02	6.82709E 00	1.94365E 02	
6.90	8.75231E-01	5.98661E 00	1.77679E-02	1.24561E-03	1.50223E-02	6.92167E 00	1.96197E 02	
7.00	8.75245E-01	6.08037E 00	1.95925E-02	1.20157E-03	1.34433E-02	7.01625E 00	1.98010E 02	
7.10	8.75256E-01	6.17387E 00	2.14642E-02	1.15878E-03	1.18158E-02	7.11083E 00	1.99804E 02	
7.20	8.75266E-01	6.26678E 00	2.33817E-02	1.11717E-03	1.01396E-02	7.20540E 00	2.01579E 02	
7.30	8.75276E-01	6.35797E 00	2.53401E-02	1.07671E-03	8.41485E-03	7.29997E 00	2.03337E 02	
7.40	8.75285E-01	6.43803E 00	2.72981E-02	1.03733E-03	6.64146E-03	7.39454E 00	2.05077E 02	
7.50	8.75292E-01	6.58082E 00	2.95792E-02	9.99016E-04	4.81946E-03	7.48912E 00	2.06799E 02	
7.60	8.75299E-01	6.65691E 00	3.16167E-02	9.61714E-04	2.94884E-03	7.58369E 00	2.08505E 02	
7.70	8.75305E-01	6.74779E 00	3.37673E-02	9.25381E-04	1.02961E-03	7.67827E 00	2.10194E 02	
7.80	8.75310E-01	6.84064E 00	3.59750E-02	8.89971E-04	-9.38233E-04	7.77285E 00	2.11865E 02	
7.90	8.75315E-01	6.93418E 00	3.82342E-02	8.55478E-04	-2.95470E-03	7.86743E 00	2.13521E 02	
8.00	8.75319E-01	7.02798E 00	4.05429E-02	8.21839E-04	-5.01977E-03	7.96202E 00	2.15160E 02	
8.10	8.75322E-01	7.12195E 00	4.29008E-02	7.89040E-04	-7.13348E-03	8.05660E 00	2.16784E 02	
8.20	8.75325E-01	7.21602E 00	4.53076E-02	7.57050E-04	-9.29581E-03	8.15120E 00	2.18393E 02	
8.30	8.75326E-01	7.31017E 00	4.77632E-02	7.25834E-04	-1.15068E-02	8.24579E 00	2.19986E 02	
8.40	8.75327E-01	7.40435E 00	5.02674E-02	6.95377E-04	-1.37663E-02	8.34039E 00	2.21565E 02	
8.50	8.75328E-01	7.49857E 00	5.28203E-02	6.65634E-04	-1.60746E-02	8.43500E 00	2.23128E 02	
8.60	8.75329E-01	7.59284E 00	5.54219E-02	6.36588E-04	-1.84314E-02	8.52961E 00	2.24677E 02	
8.70	8.75329E-01	7.68711E 00	5.80720E-02	6.08216E-04	-2.08370E-02	8.62423E 00	2.26211E 02	
8.80	8.75328E-01	7.78142E 00	6.07708E-02	5.80499E-04	-2.32911E-02	8.71886E 00	2.27732E 02	
8.90	8.75327E-01	7.87573E 00	6.35181E-02	5.53415E-04	-2.57940E-02	8.81349E 00	2.29239E 02	
9.00	8.75326E-01	7.97007E 00	6.63140E-02	5.26937E-04	-2.83455E-02	8.90812E 00	2.30732E 02	
9.10	8.75324E-01	8.06441E 00	6.91585E-02	5.01048E-04	-3.09456E-02	9.00277E 00	2.32211E 02	
9.20	8.75322E-01	8.15879E 00	7.20517E-02	4.75729E-04	-3.35945E-02	9.09742E 00	2.33678E 02	
9.30	8.75320E-01	8.25317E 00	7.49934E-02	4.50969E-04	-3.62920E-02	9.19208E 00	2.35132E 02	
9.40	8.75317E-01	8.34757E 00	7.79838E-02	4.26741E-04	-3.90382E-02	9.28675E 00	2.36572E 02	
9.50	8.75314E-01	8.44197E 00	8.10227E-02	4.03033E-04	-4.18332E-02	9.38142E 00	2.38001E 02	
9.60	8.75312E-01	8.53640E 00	8.41104E-02	3.79827E-04	-4.46768E-02	9.47611E 00	2.39417E 02	
9.70	8.75308E-01	8.63083E 00	8.72467E-02	3.57110E-04	-4.75692E-02	9.57080E 00	2.40820E 02	
9.80	8.75304E-01	8.72527E 00	9.04316E-02	3.34872E-04	-5.05103E-02	9.66550E 00	2.42212E 02	
9.90	8.75300E-01	8.81973E 00	9.36652E-02	3.13084E-04	-5.35001E-02	9.76021E 00	2.43592E 02	
10.00	8.75296E-01	8.91420E 00	9.69475E-02	2.91742E-04	-5.65387E-02	9.85494E 00	2.44961E 02	
10.10	8.75292E-01	9.00869E 00	1.00278E-01	2.70835E-04	-5.96260E-02	9.94967E 00	2.46317E 02	
10.20	8.75287E-01	9.10318E 00	1.03658E-01	2.50343E-04	-6.27621E-02	1.00444E 01	2.47663E 02	
10.30	8.75283E-01	9.19769E 00	1.07086E-01	2.30268E-04	-6.59470E-02	1.01392E 01	2.48998E 02	
10.40	8.75278E-01	9.29221E 00	1.10564E-01	2.10580E-04	-6.91807E-02	1.02339E 01	2.50321E 02	
10.50	8.75273E-01	9.38674E 00	1.14089E-01	1.91283E-04	-7.24631E-02	1.03287E 01	2.51634E 02	
10.60	8.75267E-01	9.48128E 00	1.17664E-01	1.72363E-04	-7.57944E-02	1.04235E 01	2.52936E 02	
10.70	8.75262E-01	9.57583E 00	1.21287E-01	1.53802E-04	-7.91745E-02	1.05183E 01	2.54228E 02	
10.80	8.75256E-01	9.67040E 00	1.24959E-01	1.35597E-04	-8.26034E-02	1.06131E 01	2.55510E 02	
10.90	8.75251E-01	9.76498E 00	1.28680E-01	1.17736E-04	-8.60811E-02	1.07079E 01	2.56781E 02	
11.00	8.75245E-01	9.85958E 00	1.32450E-01	1.00212E-04	-8.96077E-02	1.08027E 01	2.58043E 02	
11.10	8.75240E-01	9.95418E 00	1.36268E-01	8.30137E-05	-9.31832E-02	1.08976E 01	2.59294E 02	
11.20	8.75233E-01	1.00488E 01	1.40135E-01	6.61379E-05	-9.68075E-02	1.09924E 01	2.60536E 02	
11.30	8.75227E-01	1.01434E 01	1.44051E-01	4.95672E-05	-1.00481E-01	1.10873E 01	2.61769E 02	
11.40	8.75221E-01	1.02381E 01	1.48016E-01	3.32976E-05	-1.04203E-01	1.11821E 01	2.62992E 02	
11.50	8.75215E-01	1.03327E 01	1.52030E-01	1.73262E-05	-1.07974E-01	1.12770E 01	2.64206E 02	
11.60	8.75208E-01	1.04274E 01	1.56093E-01	1.62951E-06	-1.11794E-01	1.13719E 01	2.65410E 02	
11.70	8.75202E-01	1.05221E 01	1.60204E-01	-1.37722E-05	-1.15663E-01	1.14668E 01	2.66606E 02	
11.80	8.75195E-01	1.06168E 01	1.64365E-01	-2.89096E-05	-1.19581E-01	1.15618E 01	2.67793E 02	
11.90	8.75189E-01	1.07115E 01	1.68574E-01	-4.37782E-05	-1.23547E-01	1.16567E 01	2.68971E 02	
12.00	8.75182E-01	1.08062E 01	1.72832E-01	-5.83850E-05	-1.27563E-01	1.17516E 01	2.70141E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z = 6$  $A = 12$  $\rho = 1.3 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	5.35986E-05	8.22986E-02	8.74305E-05	-3.08595E 01	1.94657E-04	9.63356E-02	2.88124E-02
6.20	5.53728E-05	8.48830E-02	1.03091E-04	-3.08991E 01	1.85751E-04	9.94140E-02	2.88288E-02
6.30	5.71758E-05	8.76935E-02	1.19853E-04	-3.09373E 01	1.75985E-04	1.02541E-01	2.88450E-02
6.40	5.90076E-05	9.05906E-02	1.37606E-04	-3.09742E 01	1.65336E-04	1.05715E-01	2.88608E-02
6.50	6.08682E-05	9.35505E-02	1.56353E-04	-3.10100E 01	1.53782E-04	1.08938E-01	2.88762E-02
6.60	6.27577E-05	9.65653E-02	1.76107E-04	-3.10445E 01	1.41300E-04	1.12208E-01	2.88914E-02
6.70	6.46759E-05	9.96320E-02	1.96887E-04	-3.10780E 01	1.27869E-04	1.15527E-01	2.89063E-02
6.80	6.66230E-05	1.02749E-01	2.18715E-04	-3.11104E 01	1.13466E-04	1.18894E-01	2.89208E-02
6.90	6.85989E-05	1.05917E-01	2.41612E-04	-3.11419E 01	9.80694E-05	1.22309E-01	2.89351E-02
7.00	7.06036E-05	1.09133E-01	2.65600E-04	-3.11723E 01	8.16562E-05	1.25772E-01	2.89491E-02
7.10	7.26372E-05	1.12398E-01	2.90702E-04	-3.12019E 01	6.42045E-05	1.29283E-01	2.89628E-02
7.20	7.46995E-05	1.15712E-01	3.16937E-04	-3.12305E 01	4.56920E-05	1.32842E-01	2.89762E-02
7.30	7.67907E-05	1.19075E-01	3.44330E-04	-3.12584E 01	2.60966E-05	1.36449E-01	2.89894E-02
7.40	7.89107E-05	1.22486E-01	3.72903E-04	-3.12854E 01	5.39599E-06	1.40104E-01	2.90023E-02
7.50	8.10596E-05	1.25945E-01	4.02677E-04	-3.13117E 01	-1.64320E-05	1.43808E-01	2.90150E-02
7.60	8.32372E-05	1.29453E-01	4.33674E-04	-3.13372E 01	-3.94097E-05	1.47559E-01	2.90274E-02
7.70	8.54436E-05	1.33009E-01	4.65917E-04	-3.13620E 01	-6.35593E-05	1.51358E-01	2.90396E-02
7.80	8.76788E-05	1.36613E-01	4.99428E-04	-3.13862E 01	-8.89030E-05	1.55206E-01	2.90516E-02
7.90	8.99429E-05	1.40265E-01	5.34229E-04	-3.14097E 01	-1.15463E-04	1.59101E-01	2.90633E-02
8.00	9.22358E-05	1.43966E-01	5.70343E-04	-3.14325E 01	-1.43262E-04	1.63045E-01	2.90748E-02
8.10	9.45575E-05	1.47715E-01	6.07792E-04	-3.14548E 01	-1.72321E-04	1.67036E-01	2.90861E-02
8.20	9.69080E-05	1.51512E-01	6.46598E-04	-3.14765E 01	-2.02664E-04	1.71076E-01	2.90972E-02
8.30	9.92874E-05	1.55357E-01	6.86782E-04	-3.14976E 01	-2.34311E-04	1.75164E-01	2.91081E-02
8.40	1.01695E-04	1.59251E-01	7.28368E-04	-3.15182E 01	-2.67286E-04	1.79300E-01	2.91188E-02
8.50	1.04132E-04	1.63192E-01	7.71377E-04	-3.15383E 01	-3.01611E-04	1.83484E-01	2.91293E-02
8.60	1.06598E-04	1.67182E-01	8.15833E-04	-3.15579E 01	-3.37308E-04	1.87716E-01	2.91396E-02
8.70	1.09093E-04	1.71220E-01	8.61757E-04	-3.15770E 01	-3.74400E-04	1.91996E-01	2.91497E-02
8.80	1.11616E-04	1.75306E-01	9.09171E-04	-3.15956E 01	-4.12907E-04	1.96324E-01	2.91596E-02
8.90	1.14168E-04	1.79440E-01	9.58097E-04	-3.16138E 01	-4.52853E-04	2.00700E-01	2.91694E-02
9.00	1.16749E-04	1.83622E-01	1.00856E-03	-3.16316E 01	-4.94261E-04	2.05124E-01	2.91790E-02
9.10	1.19359E-04	1.87852E-01	1.06058E-03	-3.16489E 01	-5.37151E-04	2.09596E-01	2.91884E-02
9.20	1.21998E-04	1.92131E-01	1.11417E-03	-3.16659E 01	-5.81546E-04	2.14116E-01	2.91976E-02
9.30	1.24665E-04	1.96457E-01	1.16937E-03	-3.16824E 01	-6.27469E-04	2.18685E-01	2.92067E-02
9.40	1.27361E-04	2.00832E-01	1.22620E-03	-3.16986E 01	-6.74942E-04	2.23301E-01	2.92157E-02
9.50	1.30086E-04	2.05254E-01	1.28466E-03	-3.17145E 01	-7.23987E-04	2.27966E-01	2.92245E-02
9.60	1.32840E-04	2.09725E-01	1.34480E-03	-3.17300E 01	-7.74627E-04	2.32678E-01	2.92331E-02
9.70	1.35623E-04	2.14244E-01	1.40663E-03	-3.17451E 01	-8.26883E-04	2.37439E-01	2.92416E-02
9.80	1.38435E-04	2.18811E-01	1.47017E-03	-3.17599E 01	-8.80777E-04	2.42247E-01	2.92500E-02
9.90	1.41275E-04	2.23426E-01	1.53544E-03	-3.17744E 01	-9.36332E-04	2.47104E-01	2.92582E-02
10.00	1.44144E-04	2.28089E-01	1.60247E-03	-3.17886E 01	-9.93571E-04	2.52009E-01	2.92663E-02
10.10	1.47042E-04	2.32800E-01	1.67129E-03	-3.18025E 01	-1.05252E-03	2.56961E-01	2.92743E-02
10.20	1.49969E-04	2.37560E-01	1.74190E-03	-3.18161E 01	-1.11319E-03	2.61962E-01	2.92821E-02
10.30	1.52924E-04	2.42367E-01	1.81434E-03	-3.18294E 01	-1.17561E-03	2.67011E-01	2.92898E-02
10.40	1.55908E-04	2.47222E-01	1.88862E-03	-3.18424E 01	-1.23980E-03	2.72108E-01	2.92974E-02
10.50	1.58922E-04	2.52126E-01	1.96477E-03	-3.18552E 01	-1.30579E-03	2.77253E-01	2.93048E-02
10.60	1.61963E-04	2.57077E-01	2.04281E-03	-3.18678E 01	-1.37359E-03	2.82446E-01	2.93122E-02
10.70	1.65034E-04	2.62077E-01	2.12276E-03	-3.18800E 01	-1.44324E-03	2.87687E-01	2.93194E-02
10.80	1.68134E-04	2.67125E-01	2.20465E-03	-3.18921E 01	-1.51474E-03	2.92976E-01	2.93265E-02
10.90	1.71262E-04	2.72220E-01	2.28850E-03	-3.19039E 01	-1.58813E-03	2.98313E-01	2.93335E-02
11.00	1.74419E-04	2.77364E-01	2.37432E-03	-3.19155E 01	-1.66342E-03	3.03698E-01	2.93404E-02
11.10	1.77605E-04	2.82556E-01	2.46215E-03	-3.19268E 01	-1.74064E-03	3.09131E-01	2.93472E-02
11.20	1.80820E-04	2.87796E-01	2.55200E-03	-3.19380E 01	-1.81981E-03	3.14612E-01	2.93539E-02
11.30	1.84064E-04	2.93084E-01	2.64390E-03	-3.19489E 01	-1.90096E-03	3.20141E-01	2.93605E-02
11.40	1.87336E-04	2.98420E-01	2.73786E-03	-3.19597E 01	-1.98409E-03	3.25719E-01	2.93670E-02
11.50	1.90637E-04	3.03804E-01	2.83392E-03	-3.19702E 01	-2.06925E-03	3.31344E-01	2.93734E-02
11.60	1.93967E-04	3.09236E-01	2.93209E-03	-3.19805E 01	-2.15644E-03	3.37017E-01	2.93797E-02
11.70	1.97326E-04	3.14716E-01	3.03239E-03	-3.19907E 01	-2.24569E-03	3.42738E-01	2.93859E-02
11.80	2.00714E-04	3.20244E-01	3.13485E-03	-3.20007E 01	-2.33703E-03	3.48508E-01	2.93921E-02
11.90	2.04130E-04	3.25820E-01	3.23949E-03	-3.20105E 01	-2.43047E-03	3.54325E-01	2.93981E-02
12.00	2.07575E-04	3.31445E-01	3.34633E-03	-3.20201E 01	-2.52604E-03	3.60190E-01	2.94040E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6$	$A=12$	$\rho = 1.3 A^{1/3} F$				
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
12.10	8.75174E-01	1.09009E 01	1.77139E-01	-7.27500E-05	-1.31628E-01	1.18466E 01	2.71301E 02
12.20	8.75168E-01	1.09957E 01	1.81495E-01	-8.68553E-05	-1.35742E-01	1.19416E 01	2.72454E 02
12.30	8.75161E-01	1.10904E 01	1.85900E-01	-1.00722E-04	-1.39904E-01	1.20366E 01	2.73599E 02
12.40	8.75154E-01	1.11852E 01	1.90354E-01	-1.14358E-04	-1.44116E-01	1.21316E 01	2.74735E 02
12.50	8.75147E-01	1.12800E 01	1.94857E-01	-1.27763E-04	-1.48377E-01	1.22266E 01	2.75864E 02
12.60	8.75140E-01	1.13748E 01	1.99409E-01	-1.40943E-04	-1.52687E-01	1.23216E 01	2.76984E 02
12.70	8.75133E-01	1.14696E 01	2.04010E-01	-1.53899E-04	-1.57046E-01	1.24167E 01	2.78098E 02
12.80	8.75126E-01	1.15644E 01	2.08660E-01	-1.66638E-04	-1.61454E-01	1.25117E 01	2.79203E 02
12.90	8.75119E-01	1.16593E 01	2.13359E-01	-1.79184E-04	-1.65911E-01	1.26068E 01	2.80300E 02
13.00	8.75111E-01	1.17541E 01	2.18108E-01	-1.91505E-04	-1.70417E-01	1.27019E 01	2.81391E 02
13.10	8.75104E-01	1.18490E 01	2.22905E-01	-2.03635E-04	-1.74973E-01	1.27970E 01	2.82474E 02
13.20	8.75097E-01	1.19439E 01	2.27751E-01	-2.15571E-04	-1.79577E-01	1.28921E 01	2.83550E 02
13.30	8.75090E-01	1.20388E 01	2.32646E-01	-2.27317E-04	-1.84231E-01	1.29873E 01	2.84618E 02
13.40	8.75082E-01	1.21337E 01	2.37591E-01	-2.38871E-04	-1.88934E-01	1.30824E 01	2.85680E 02
13.50	8.75075E-01	1.22287E 01	2.42585E-01	-2.50237E-04	-1.93686E-01	1.31776E 01	2.86736E 02
13.60	8.75068E-01	1.23236E 01	2.47627E-01	-2.61426E-04	-1.98487E-01	1.32728E 01	2.87784E 02
13.70	8.75061E-01	1.24186E 01	2.52719E-01	-2.72447E-04	-2.03337E-01	1.33680E 01	2.88825E 02
13.80	8.75053E-01	1.25135E 01	2.57861E-01	-2.83295E-04	-2.08237E-01	1.34632E 01	2.89860E 02
13.90	8.75046E-01	1.26085E 01	2.63051E-01	-2.93962E-04	-2.13186E-01	1.35584E 01	2.90888E 02
14.00	8.75039E-01	1.27035E 01	2.68290E-01	-3.04476E-04	-2.18184E-01	1.36536E 01	2.91910E 02
14.10	8.75031E-01	1.27986E 01	2.73579E-01	-3.14826E-04	-2.23231E-01	1.37489E 01	2.92926E 02
14.20	8.75024E-01	1.28936E 01	2.78917E-01	-3.25014E-04	-2.28328E-01	1.38442E 01	2.93935E 02
14.30	8.75016E-01	1.29886E 01	2.84304E-01	-3.35059E-04	-2.33474E-01	1.39395E 01	2.94938E 02
14.40	8.75009E-01	1.30837E 01	2.89741E-01	-3.44938E-04	-2.38670E-01	1.40348E 01	2.95935E 02
14.50	8.75001E-01	1.31788E 01	2.95227E-01	-3.54669E-04	-2.43914E-01	1.41301E 01	2.96927E 02
14.60	8.74994E-01	1.32739E 01	3.00762E-01	-3.64260E-04	-2.49208E-01	1.42254E 01	2.97912E 02
14.70	8.74986E-01	1.33690E 01	3.06346E-01	-3.73709E-04	-2.54552E-01	1.43208E 01	2.98891E 02
14.80	8.74979E-01	1.34641E 01	3.11980E-01	-3.83014E-04	-2.59945E-01	1.44162E 01	2.99865E 02
14.90	8.74971E-01	1.35593E 01	3.17663E-01	-3.92176E-04	-2.65387E-01	1.45115E 01	3.00834E 02
15.00	8.74964E-01	1.36544E 01	3.23396E-01	-4.01215E-04	-2.70879E-01	1.46069E 01	3.01796E 02
15.10	8.74956E-01	1.37496E 01	3.29178E-01	-4.10109E-04	-2.76420E-01	1.47024E 01	3.02754E 02
15.20	8.74949E-01	1.38448E 01	3.35009E-01	-4.18885E-04	-2.82011E-01	1.47978E 01	3.03705E 02
15.30	8.74941E-01	1.39400E 01	3.40890E-01	-4.27528E-04	-2.87651E-01	1.48933E 01	3.04651E 02
15.40	8.74934E-01	1.40353E 01	3.46820E-01	-4.36045E-04	-2.93340E-01	1.49887E 01	3.05593E 02
15.50	8.74926E-01	1.41305E 01	3.52800E-01	-4.44439E-04	-2.99079E-01	1.50842E 01	3.06529E 02
15.60	8.74919E-01	1.42258E 01	3.58829E-01	-4.52719E-04	-3.04868E-01	1.51797E 01	3.07459E 02
15.70	8.74912E-01	1.43211E 01	3.64907E-01	-4.60870E-04	-3.10706E-01	1.52753E 01	3.08386E 02
15.80	8.74904E-01	1.44164E 01	3.71036E-01	-4.68920E-04	-3.16594E-01	1.53708E 01	3.09306E 02
15.90	8.74897E-01	1.45117E 01	3.77213E-01	-4.76845E-04	-3.22532E-01	1.54664E 01	3.10222E 02
16.00	8.74889E-01	1.46070E 01	3.83441E-01	-4.84656E-04	-3.28519E-01	1.55620E 01	3.11134E 02
16.10	8.74882E-01	1.47024E 01	3.89718E-01	-4.92368E-04	-3.34555E-01	1.56576E 01	3.12040E 02
16.20	8.74875E-01	1.47977E 01	3.96044E-01	-4.99958E-04	-3.40642E-01	1.57532E 01	3.12943E 02
16.30	8.74867E-01	1.48931E 01	4.02420E-01	-5.07454E-04	-3.46778E-01	1.58488E 01	3.13839E 02
16.40	8.74860E-01	1.49885E 01	4.08846E-01	-5.14839E-04	-3.52963E-01	1.59445E 01	3.14732E 02
16.50	8.74852E-01	1.50839E 01	4.15321E-01	-5.22122E-04	-3.59198E-01	1.60402E 01	3.15620E 02
16.60	8.74845E-01	1.51794E 01	4.21846E-01	-5.29306E-04	-3.65484E-01	1.61359E 01	3.16504E 02
16.70	8.74838E-01	1.52748E 01	4.28421E-01	-5.36395E-04	-3.71818E-01	1.62316E 01	3.17383E 02
16.80	8.74830E-01	1.53703E 01	4.35045E-01	-5.43382E-04	-3.78203E-01	1.63273E 01	3.18259E 02
16.90	8.74823E-01	1.54658E 01	4.41719E-01	-5.50270E-04	-3.84637E-01	1.64230E 01	3.19130E 02
17.00	8.74816E-01	1.55613E 01	4.48443E-01	-5.57070E-04	-3.91121E-01	1.65188E 01	3.19996E 02
17.10	8.74808E-01	1.56568E 01	4.55216E-01	-5.63774E-04	-3.97655E-01	1.66146E 01	3.20859E 02
17.20	8.74801E-01	1.57524E 01	4.62040E-01	-5.70390E-04	-4.04239E-01	1.67104E 01	3.21718E 02
17.30	8.74794E-01	1.58479E 01	4.68913E-01	-5.76912E-04	-4.10873E-01	1.68062E 01	3.22573E 02
17.40	8.74786E-01	1.59435E 01	4.75836E-01	-5.83348E-04	-4.17556E-01	1.69021E 01	3.23423E 02
17.50	8.74779E-01	1.60391E 01	4.82809E-01	-5.89703E-04	-4.24290E-01	1.69980E 01	3.24270E 02
17.60	8.74772E-01	1.61347E 01	4.89832E-01	-5.95966E-04	-4.31073E-01	1.70938E 01	3.25113E 02
17.70	8.74765E-01	1.62304E 01	4.96904E-01	-6.02151E-04	-4.37907E-01	1.71898E 01	3.25952E 02
17.80	8.74758E-01	1.63260E 01	5.04027E-01	-6.08250E-04	-4.44790E-01	1.72857E 01	3.26787E 02
17.90	8.74750E-01	1.64217E 01	5.11199E-01	-6.14262E-04	-4.51723E-01	1.73816E 01	3.27620E 02
18.00	8.74743E-01	1.65174E 01	5.18422E-01	-6.20201E-04	-4.58707E-01	1.74776E 01	3.28448E 02

## ELECTRON RADIAL FUNCTIONS

 $Z=6$  $A=12$  $\rho=1.3 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	2.11049E-04	3.37117E-01	3.45540E-03	-3.20296E 01	-2.62376E-03	3.66104E-01	2.94099E-02
12.20	2.14552E-04	3.42838E-01	3.56672E-03	-3.20389E 01	-2.72365E-03	3.72065E-01	2.94157E-02
12.30	2.18084E-04	3.48606E-01	3.68029E-03	-3.20480E 01	-2.82574E-03	3.78075E-01	2.94214E-02
12.40	2.21644E-04	3.54422E-01	3.79616E-03	-3.20570E 01	-2.93004E-03	3.84132E-01	2.94270E-02
12.50	2.25233E-04	3.60287E-01	3.91435E-03	-3.20658E 01	-3.03658E-03	3.90238E-01	2.94326E-02
12.60	2.28851E-04	3.66199E-01	4.03486E-03	-3.20745E 01	-3.14538E-03	3.96391E-01	2.94380E-02
12.70	2.32498E-04	3.72159E-01	4.15774E-03	-3.20831E 01	-3.25646E-03	4.02592E-01	2.94434E-02
12.80	2.36174E-04	3.78168E-01	4.28299E-03	-3.20915E 01	-3.36985E-03	4.08842E-01	2.94487E-02
12.90	2.39878E-04	3.84224E-01	4.41064E-03	-3.20997E 01	-3.48557E-03	4.15139E-01	2.94540E-02
13.00	2.43611E-04	3.90328E-01	4.54072E-03	-3.21078E 01	-3.60364E-03	4.21484E-01	2.94592E-02
13.10	2.47373E-04	3.96481E-01	4.67324E-03	-3.21158E 01	-3.72407E-03	4.27878E-01	2.94643E-02
13.20	2.51164E-04	4.02681E-01	4.80824E-03	-3.21237E 01	-3.84691E-03	4.34319E-01	2.94693E-02
13.30	2.54984E-04	4.08930E-01	4.94572E-03	-3.21315E 01	-3.97216E-03	4.40808E-01	2.94743E-02
13.40	2.58832E-04	4.15226E-01	5.08571E-03	-3.21391E 01	-4.09984E-03	4.47346E-01	2.94792E-02
13.50	2.62710E-04	4.21571E-01	5.22824E-03	-3.21466E 01	-4.22999E-03	4.53931E-01	2.94841E-02
13.60	2.66616E-04	4.27963E-01	5.37333E-03	-3.21540E 01	-4.36262E-03	4.60565E-01	2.94888E-02
13.70	2.70550E-04	4.34404E-01	5.52099E-03	-3.21613E 01	-4.49776E-03	4.67246E-01	2.94936E-02
13.80	2.74514E-04	4.40892E-01	5.67126E-03	-3.21684E 01	-4.63542E-03	4.73975E-01	2.94982E-02
13.90	2.78506E-04	4.47428E-01	5.82415E-03	-3.21755E 01	-4.77563E-03	4.80752E-01	2.95028E-02
14.00	2.82528E-04	4.54013E-01	5.97968E-03	-3.21824E 01	-4.91842E-03	4.87577E-01	2.95074E-02
14.10	2.86578E-04	4.60645E-01	6.13788E-03	-3.21893E 01	-5.06380E-03	4.94451E-01	2.95119E-02
14.20	2.90656E-04	4.67325E-01	6.29878E-03	-3.21960E 01	-5.21179E-03	5.01372E-01	2.95163E-02
14.30	2.94764E-04	4.74054E-01	6.46239E-03	-3.22027E 01	-5.36243E-03	5.08341E-01	2.95207E-02
14.40	2.98900E-04	4.80830E-01	6.62872E-03	-3.22092E 01	-5.51572E-03	5.15358E-01	2.95250E-02
14.50	3.03066E-04	4.87654E-01	6.79782E-03	-3.22157E 01	-5.67169E-03	5.22423E-01	2.95293E-02
14.60	3.07260E-04	4.94526E-01	6.96970E-03	-3.22221E 01	-5.83037E-03	5.29536E-01	2.95335E-02
14.70	3.11482E-04	5.01447E-01	7.14437E-03	-3.22283E 01	-5.99178E-03	5.36697E-01	2.95377E-02
14.80	3.15734E-04	5.08415E-01	7.32187E-03	-3.22345E 01	-6.15594E-03	5.43906E-01	2.95418E-02
14.90	3.20014E-04	5.15431E-01	7.50222E-03	-3.22406E 01	-6.32287E-03	5.51163E-01	2.95459E-02
15.00	3.24324E-04	5.22495E-01	7.68543E-03	-3.22466E 01	-6.49259E-03	5.58467E-01	2.95499E-02
15.10	3.28662E-04	5.29607E-01	7.87153E-03	-3.22525E 01	-6.66512E-03	5.65820E-01	2.95539E-02
15.20	3.33028E-04	5.36767E-01	8.06054E-03	-3.22584E 01	-6.84050E-03	5.73221E-01	2.95578E-02
15.30	3.37424E-04	5.43975E-01	8.25249E-03	-3.22642E 01	-7.01873E-03	5.80669E-01	2.95617E-02
15.40	3.41848E-04	5.51231E-01	8.44739E-03	-3.22698E 01	-7.19985E-03	5.88166E-01	2.95655E-02
15.50	3.46301E-04	5.58534E-01	8.64527E-03	-3.22755E 01	-7.38387E-03	5.95710E-01	2.95693E-02
15.60	3.50784E-04	5.65886E-01	8.84616E-03	-3.22810E 01	-7.57082E-03	6.03303E-01	2.95731E-02
15.70	3.55294E-04	5.73286E-01	9.05006E-03	-3.22865E 01	-7.76072E-03	6.10943E-01	2.95768E-02
15.80	3.59834E-04	5.80733E-01	9.25701E-03	-3.22918E 01	-7.95359E-03	6.18631E-01	2.95804E-02
15.90	3.64402E-04	5.88229E-01	9.46703E-03	-3.22972E 01	-8.14945E-03	6.26367E-01	2.95840E-02
16.00	3.68999E-04	5.95772E-01	9.68013E-03	-3.23024E 01	-8.34833E-03	6.34151E-01	2.95876E-02
16.10	3.73625E-04	6.03364E-01	9.89634E-03	-3.23076E 01	-8.55024E-03	6.41983E-01	2.95912E-02
16.20	3.78280E-04	6.11003E-01	1.01157E-02	-3.23127E 01	-8.75521E-03	6.49863E-01	2.95947E-02
16.30	3.82963E-04	6.18690E-01	1.03382E-02	-3.23178E 01	-8.96327E-03	6.57791E-01	2.95981E-02
16.40	3.87676E-04	6.26425E-01	1.05639E-02	-3.23227E 01	-9.17443E-03	6.65766E-01	2.96016E-02
16.50	3.92417E-04	6.34208E-01	1.07928E-02	-3.23277E 01	-9.38871E-03	6.73790E-01	2.96049E-02
16.60	3.97187E-04	6.42039E-01	1.10249E-02	-3.23325E 01	-9.60614E-03	6.81861E-01	2.96083E-02
16.70	4.01985E-04	6.49918E-01	1.12602E-02	-3.23373E 01	-9.82675E-03	6.89980E-01	2.96116E-02
16.80	4.06813E-04	6.57844E-01	1.14988E-02	-3.23421E 01	-1.00505E-02	6.98148E-01	2.96149E-02
16.90	4.11669E-04	6.65819E-01	1.17407E-02	-3.23467E 01	-1.02776E-02	7.06363E-01	2.96181E-02
17.00	4.16554E-04	6.73841E-01	1.19860E-02	-3.23514E 01	-1.05078E-02	7.14626E-01	2.96213E-02
17.10	4.21468E-04	6.81912E-01	1.22345E-02	-3.23559E 01	-1.07413E-02	7.22936E-01	2.96245E-02
17.20	4.26411E-04	6.90030E-01	1.24864E-02	-3.23604E 01	-1.09781E-02	7.31295E-01	2.96277E-02
17.30	4.31382E-04	6.98196E-01	1.27417E-02	-3.23649E 01	-1.12182E-02	7.39702E-01	2.96308E-02
17.40	4.36382E-04	7.06410E-01	1.30004E-02	-3.23693E 01	-1.14616E-02	7.48156E-01	2.96338E-02
17.50	4.41411E-04	7.14672E-01	1.32625E-02	-3.23736E 01	-1.17084E-02	7.56658E-01	2.96369E-02
17.60	4.46469E-04	7.22982E-01	1.35280E-02	-3.23779E 01	-1.19585E-02	7.65208E-01	2.96399E-02
17.70	4.51556E-04	7.31339E-01	1.37970E-02	-3.23822E 01	-1.22120E-02	7.73806E-01	2.96429E-02
17.80	4.56671E-04	7.39745E-01	1.40695E-02	-3.23864E 01	-1.24690E-02	7.82452E-01	2.96458E-02
17.90	4.61815E-04	7.48198E-01	1.43455E-02	-3.23905E 01	-1.27293E-02	7.91146E-01	2.96488E-02
18.00	4.66988E-04	7.56699E-01	1.46251E-02	-3.23946E 01	-1.29932E-02	7.99887E-01	2.96517E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6$	$A=12$	$\rho=1.3A^{1/3}F$					
$\rho$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	8.74736E-01	1.66131E 01	5.25694E-01	-6.26060E-04	-4.65740E-01	1.75736E 01	3.29273E 02	02
18.20	8.74729E-01	1.67089E 01	5.33017E-01	-6.31844E-04	-4.72824E-01	1.76696E 01	3.30094E 02	02
18.30	8.74722E-01	1.68046E 01	5.40389E-01	-6.37545E-04	-4.79957E-01	1.77656E 01	3.30912E 02	02
18.40	8.74715E-01	1.69004E 01	5.47811E-01	-6.43175E-04	-4.87141E-01	1.78617E 01	3.31726E 02	02
18.50	8.74707E-01	1.69962E 01	5.55284E-01	-6.48732E-04	-4.94375E-01	1.79577E 01	3.32537E 02	02
18.60	8.74701E-01	1.70920E 01	5.62806E-01	-6.54215E-04	-5.01658E-01	1.80538E 01	3.33345E 02	02
18.70	8.74693E-01	1.71878E 01	5.70379E-01	-6.59622E-04	-5.08992E-01	1.81499E 01	3.34150E 02	02
18.80	8.74686E-01	1.72837E 01	5.78002E-01	-6.64968E-04	-5.16377E-01	1.82461E 01	3.34951E 02	02
18.90	8.74679E-01	1.73796E 01	5.85674E-01	-6.70235E-04	-5.23811E-01	1.83422E 01	3.35749E 02	02
19.00	8.74672E-01	1.74754E 01	5.93397E-01	-6.75439E-04	-5.31295E-01	1.84384E 01	3.36544E 02	02
19.10	8.74665E-01	1.75714E 01	6.01171E-01	-6.80576E-04	-5.38830E-01	1.85346E 01	3.37336E 02	02
19.20	8.74658E-01	1.76673E 01	6.08994E-01	-6.85642E-04	-5.46415E-01	1.86308E 01	3.38125E 02	02
19.30	8.74652E-01	1.77633E 01	6.16868E-01	-6.90643E-04	-5.54051E-01	1.87271E 01	3.38911E 02	02
19.40	8.74645E-01	1.78592E 01	6.24792E-01	-6.95583E-04	-5.61737E-01	1.88233E 01	3.39694E 02	02
19.50	8.74638E-01	1.79552E 01	6.32766E-01	-7.00456E-04	-5.69473E-01	1.89196E 01	3.40474E 02	02
19.60	8.74631E-01	1.80512E 01	6.40790E-01	-7.05271E-04	-5.77259E-01	1.90159E 01	3.41251E 02	02
19.70	8.74624E-01	1.81473E 01	6.48865E-01	-7.10017E-04	-5.85096E-01	1.91122E 01	3.42026E 02	02
19.80	8.74617E-01	1.82433E 01	6.56990E-01	-7.14701E-04	-5.92983E-01	1.92086E 01	3.42798E 02	02
19.90	8.74610E-01	1.83394E 01	6.65166E-01	-7.19333E-04	-6.00921E-01	1.93050E 01	3.43567E 02	02
20.00	8.74604E-01	1.84355E 01	6.73392E-01	-7.23896E-04	-6.08909E-01	1.94014E 01	3.44334E 02	02
20.10	8.74597E-01	1.85316E 01	6.81668E-01	-7.28408E-04	-6.16948E-01	1.94978E 01	3.45098E 02	02
20.20	8.74590E-01	1.86278E 01	6.89995E-01	-7.32858E-04	-6.25037E-01	1.95942E 01	3.45859E 02	02
20.30	8.74583E-01	1.87239E 01	6.98372E-01	-7.37249E-04	-6.33176E-01	1.96907E 01	3.46618E 02	02
20.40	8.74576E-01	1.88201E 01	7.06799E-01	-7.41596E-04	-6.41366E-01	1.97871E 01	3.47373E 02	02
20.50	8.74570E-01	1.89163E 01	7.15277E-01	-7.45869E-04	-6.49607E-01	1.98837E 01	3.48128E 02	02
20.60	8.74563E-01	1.90126E 01	7.23806E-01	-7.50094E-04	-6.57899E-01	1.99802E 01	3.48880E 02	02
20.70	8.74556E-01	1.91088E 01	7.32385E-01	-7.54275E-04	-6.66241E-01	2.00767E 01	3.49628E 02	02
20.80	8.74550E-01	1.92051E 01	7.41015E-01	-7.58390E-04	-6.74633E-01	2.01733E 01	3.50375E 02	02
20.90	8.74543E-01	1.93014E 01	7.49696E-01	-7.62453E-04	-6.83077E-01	2.02699E 01	3.51120E 02	02
21.00	8.74536E-01	1.93977E 01	7.58427E-01	-7.66473E-04	-6.91571E-01	2.03665E 01	3.51861E 02	02
21.10	8.74530E-01	1.94940E 01	7.67208E-01	-7.70439E-04	-7.00115E-01	2.04632E 01	3.52601E 02	02
21.20	8.74523E-01	1.95904E 01	7.76041E-01	-7.74345E-04	-7.08711E-01	2.05598E 01	3.53339E 02	02
21.30	8.74516E-01	1.96868E 01	7.84924E-01	-7.78214E-04	-7.17357E-01	2.06565E 01	3.54074E 02	02
21.40	8.74510E-01	1.97832E 01	7.93857E-01	-7.82022E-04	-7.26054E-01	2.07532E 01	3.54808E 02	02
21.50	8.74503E-01	1.98796E 01	8.02842E-01	-7.85787E-04	-7.34802E-01	2.08500E 01	3.55540E 02	02
21.60	8.74497E-01	1.99761E 01	8.11877E-01	-7.89508E-04	-7.43601E-01	2.09467E 01	3.56268E 02	02
21.70	8.74490E-01	2.00725E 01	8.20963E-01	-7.93172E-04	-7.52450E-01	2.10435E 01	3.56996E 02	02
21.80	8.74484E-01	2.01690E 01	8.30100E-01	-7.96792E-04	-7.61351E-01	2.11403E 01	3.57722E 02	02
21.90	8.74477E-01	2.02656E 01	8.39288E-01	-8.00371E-04	-7.70302E-01	2.12372E 01	3.58444E 02	02
22.00	8.74471E-01	2.03621E 01	8.48527E-01	-8.03904E-04	-7.79305E-01	2.13340E 01	3.59166E 02	02
22.10	8.74464E-01	2.04587E 01	8.57816E-01	-8.07388E-04	-7.88358E-01	2.14309E 01	3.59885E 02	02
22.20	8.74458E-01	2.05552E 01	8.67157E-01	-8.10828E-04	-7.97463E-01	2.15278E 01	3.60603E 02	02
22.30	8.74452E-01	2.06519E 01	8.76548E-01	-8.14215E-04	-8.06618E-01	2.16248E 01	3.61320E 02	02
22.40	8.74445E-01	2.07485E 01	8.85991E-01	-8.17575E-04	-8.15825E-01	2.17217E 01	3.62033E 02	02
22.50	8.74439E-01	2.08451E 01	8.95484E-01	-8.20880E-04	-8.25082E-01	2.18187E 01	3.62745E 02	02
22.60	8.74433E-01	2.09418E 01	9.05029E-01	-8.24143E-04	-8.34391E-01	2.19157E 01	3.63457E 02	02
22.70	8.74426E-01	2.10385E 01	9.14624E-01	-8.27371E-04	-8.43751E-01	2.20127E 01	3.64165E 02	02
22.80	8.74420E-01	2.11353E 01	9.24271E-01	-8.30547E-04	-8.53162E-01	2.21098E 01	3.64873E 02	02
22.90	8.74414E-01	2.12320E 01	9.33968E-01	-8.33691E-04	-8.62624E-01	2.22069E 01	3.65578E 02	02
23.00	8.74407E-01	2.13288E 01	9.43717E-01	-8.36794E-04	-8.72137E-01	2.23040E 01	3.66282E 02	02
23.10	8.74401E-01	2.14256E 01	9.53518E-01	-8.39852E-04	-8.81702E-01	2.24011E 01	3.66985E 02	02
23.20	8.74395E-01	2.15224E 01	9.63369E-01	-8.42868E-04	-8.91318E-01	2.24983E 01	3.67687E 02	02
23.30	8.74389E-01	2.16193E 01	9.73271E-01	-8.45856E-04	-9.00985E-01	2.25955E 01	3.68385E 02	02
23.40	8.74382E-01	2.17162E 01	9.83225E-01	-8.48797E-04	-9.10704E-01	2.26927E 01	3.69083E 02	02
23.50	8.74376E-01	2.18131E 01	9.93230E-01	-8.51700E-04	-9.20474E-01	2.27899E 01	3.69780E 02	02
23.60	8.74370E-01	2.19100E 01	1.00329E 00	-8.54560E-04	-9.30295E-01	2.28872E 01	3.70476E 02	02
23.70	8.74364E-01	2.20069E 01	1.01339E 00	-8.57395E-04	-9.40168E-01	2.29844E 01	3.71169E 02	02
23.80	8.74358E-01	2.21039E 01	1.02355E 00	-8.60181E-04	-9.50093E-01	2.30818E 01	3.71862E 02	02
23.90	8.74352E-01	2.22009E 01	1.03376E 00	-8.62939E-04	-9.60068E-01	2.31791E 01	3.72553E 02	02
24.00	8.74346E-01	2.22979E 01	1.04403E 00	-8.65658E-04	-9.70096E-01	2.32765E 01	3.73243E 02	02

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	4.72190E-04	7.65248E-01	1.49082E-02	-3.23987E 01	-1.32605E-02	8.08677E-01	2.96545E-02
18.20	4.77421E-04	7.73845E-01	1.51948E-02	-3.24027E 01	-1.35313E-02	8.17514E-01	2.96574E-02
18.30	4.82680E-04	7.82490E-01	1.54851E-02	-3.24067E 01	-1.38057E-02	8.26399E-01	2.96602E-02
18.40	4.87969E-04	7.91182E-01	1.57790E-02	-3.24106E 01	-1.40835E-02	8.35332E-01	2.96629E-02
18.50	4.93286E-04	7.99923E-01	1.60765E-02	-3.24145E 01	-1.43650E-02	8.44313E-01	2.96657E-02
18.60	4.98631E-04	8.08711E-01	1.63777E-02	-3.24183E 01	-1.46501E-02	8.53341E-01	2.96684E-02
18.70	5.04006E-04	8.17547E-01	1.66826E-02	-3.24221E 01	-1.49387E-02	8.62418E-01	2.96711E-02
18.80	5.09409E-04	8.26431E-01	1.69912E-02	-3.24258E 01	-1.52310E-02	8.71542E-01	2.96738E-02
18.90	5.14841E-04	8.35362E-01	1.73035E-02	-3.24295E 01	-1.55270E-02	8.80714E-01	2.96764E-02
19.00	5.20302E-04	8.44341E-01	1.76196E-02	-3.24332E 01	-1.58266E-02	8.89933E-01	2.96790E-02
19.10	5.25792E-04	8.53369E-01	1.79394E-02	-3.24368E 01	-1.61299E-02	8.99201E-01	2.96816E-02
19.20	5.31311E-04	8.62444E-01	1.82631E-02	-3.24404E 01	-1.64370E-02	9.08516E-01	2.96842E-02
19.30	5.36858E-04	8.71567E-01	1.85906E-02	-3.24439E 01	-1.67478E-02	9.17879E-01	2.96867E-02
19.40	5.42434E-04	8.80738E-01	1.89219E-02	-3.24475E 01	-1.70624E-02	9.27290E-01	2.96893E-02
19.50	5.48039E-04	8.89956E-01	1.92570E-02	-3.24509E 01	-1.73807E-02	9.36749E-01	2.96918E-02
19.60	5.53672E-04	8.99222E-01	1.95961E-02	-3.24544E 01	-1.77029E-02	9.46255E-01	2.96942E-02
19.70	5.59335E-04	9.08536E-01	1.99391E-02	-3.24578E 01	-1.80289E-02	9.55809E-01	2.96967E-02
19.80	5.65026E-04	9.17898E-01	2.02860E-02	-3.24611E 01	-1.83588E-02	9.65411E-01	2.96991E-02
19.90	5.70746E-04	9.27307E-01	2.06368E-02	-3.24644E 01	-1.86925E-02	9.75061E-01	2.97015E-02
20.00	5.76495E-04	9.36764E-01	2.09916E-02	-3.24677E 01	-1.90302E-02	9.84758E-01	2.97039E-02
20.10	5.82272E-04	9.46269E-01	2.13505E-02	-3.24710E 01	-1.93717E-02	9.94503E-01	2.97063E-02
20.20	5.88079E-04	9.55822E-01	2.17133E-02	-3.24742E 01	-1.97172E-02	1.00430E 00	2.97086E-02
20.30	5.93914E-04	9.65423E-01	2.20802E-02	-3.24774E 01	-2.00667E-02	1.01414E 00	2.97109E-02
20.40	5.99778E-04	9.75071E-01	2.24511E-02	-3.24806E 01	-2.04202E-02	1.02403E 00	2.97132E-02
20.50	6.05671E-04	9.84767E-01	2.28261E-02	-3.24837E 01	-2.07777E-02	1.03396E 00	2.97155E-02
20.60	6.11592E-04	9.94511E-01	2.32053E-02	-3.24868E 01	-2.11392E-02	1.04395E 00	2.97177E-02
20.70	6.17542E-04	1.00430E 00	2.35885E-02	-3.24899E 01	-2.15047E-02	1.05398E 00	2.97200E-02
20.80	6.23521E-04	1.01414E 00	2.39759E-02	-3.24929E 01	-2.18744E-02	1.06406E 00	2.97222E-02
20.90	6.29529E-04	1.02403E 00	2.43675E-02	-3.24959E 01	-2.22481E-02	1.07418E 00	2.97244E-02
21.00	6.35566E-04	1.03396E 00	2.47633E-02	-3.24989E 01	-2.26260E-02	1.08436E 00	2.97266E-02
21.10	6.41631E-04	1.04395E 00	2.51633E-02	-3.25018E 01	-2.30080E-02	1.09458E 00	2.97287E-02
21.20	6.47726E-04	1.05398E 00	2.55675E-02	-3.25047E 01	-2.33941E-02	1.10485E 00	2.97309E-02
21.30	6.53849E-04	1.06405E 00	2.59760E-02	-3.25076E 01	-2.37845E-02	1.11517E 00	2.97330E-02
21.40	6.60001E-04	1.07418E 00	2.63888E-02	-3.25105E 01	-2.41791E-02	1.12553E 00	2.97351E-02
21.50	6.66181E-04	1.08435E 00	2.68059E-02	-3.25133E 01	-2.45779E-02	1.13595E 00	2.97372E-02
21.60	6.72390E-04	1.09457E 00	2.72273E-02	-3.25161E 01	-2.49809E-02	1.14641E 00	2.97392E-02
21.70	6.78629E-04	1.10484E 00	2.76530E-02	-3.25189E 01	-2.53882E-02	1.15692E 00	2.97413E-02
21.80	6.84896E-04	1.11516E 00	2.80832E-02	-3.25216E 01	-2.57999E-02	1.16747E 00	2.97433E-02
21.90	6.91191E-04	1.12552E 00	2.85177E-02	-3.25243E 01	-2.62158E-02	1.17808E 00	2.97453E-02
22.00	6.97516E-04	1.13593E 00	2.89566E-02	-3.25271E 01	-2.66361E-02	1.18873E 00	2.97473E-02
22.10	7.03869E-04	1.14639E 00	2.94000E-02	-3.25297E 01	-2.70607E-02	1.19943E 00	2.97493E-02
22.20	7.10251E-04	1.15690E 00	2.98479E-02	-3.25324E 01	-2.74898E-02	1.21017E 00	2.97513E-02
22.30	7.16662E-04	1.16745E 00	3.03002E-02	-3.25350E 01	-2.79232E-02	1.22097E 00	2.97532E-02
22.40	7.23102E-04	1.17806E 00	3.07570E-02	-3.25376E 01	-2.83611E-02	1.23181E 00	2.97552E-02
22.50	7.29570E-04	1.18871E 00	3.12183E-02	-3.25402E 01	-2.88034E-02	1.24270E 00	2.97571E-02
22.60	7.36068E-04	1.19940E 00	3.16842E-02	-3.25427E 01	-2.92502E-02	1.25364E 00	2.97590E-02
22.70	7.42594E-04	1.21015E 00	3.21547E-02	-3.25453E 01	-2.97015E-02	1.26462E 00	2.97609E-02
22.80	7.49148E-04	1.22094E 00	3.26297E-02	-3.25478E 01	-3.01573E-02	1.27565E 00	2.97627E-02
22.90	7.55732E-04	1.23178E 00	3.31094E-02	-3.25502E 01	-3.06177E-02	1.28673E 00	2.97646E-02
23.00	7.62344E-04	1.24267E 00	3.35937E-02	-3.25527E 01	-3.10826E-02	1.29786E 00	2.97664E-02
23.10	7.68986E-04	1.25360E 00	3.40827E-02	-3.25551E 01	-3.15521E-02	1.30904E 00	2.97682E-02
23.20	7.75656E-04	1.26459E 00	3.45763E-02	-3.25576E 01	-3.20262E-02	1.32026E 00	2.97700E-02
23.30	7.82354E-04	1.27562E 00	3.50746E-02	-3.25600E 01	-3.25049E-02	1.33153E 00	2.97718E-02
23.40	7.89082E-04	1.28670E 00	3.55777E-02	-3.25623E 01	-3.29883E-02	1.34285E 00	2.97736E-02
23.50	7.95838E-04	1.29782E 00	3.60855E-02	-3.25647E 01	-3.34764E-02	1.35422E 00	2.97754E-02
23.60	8.02623E-04	1.30900E 00	3.65981E-02	-3.25670E 01	-3.39691E-02	1.36563E 00	2.97771E-02
23.70	8.09437E-04	1.32022E 00	3.71155E-02	-3.25693E 01	-3.44666E-02	1.37709E 00	2.97789E-02
23.80	8.16280E-04	1.33149E 00	3.76376E-02	-3.25716E 01	-3.49688E-02	1.38860E 00	2.97806E-02
23.90	8.23151E-04	1.34280E 00	3.81647E-02	-3.25739E 01	-3.54758E-02	1.40015E 00	2.97823E-02
24.00	8.30051E-04	1.35417E 00	3.86965E-02	-3.25761E 01	-3.59875E-02	1.41176E 00	2.97840E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6$	$A=12$	$\rho=1.3 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
24.10	8.74340E-01	2.23950E 01	1.05434E 00	-8.68336E-04	-9.80175E-01	2.33739E 01	3.73932E 02	
24.20	8.74334E-01	2.24920E 01	1.06470E 00	-8.70980E-04	-9.90305E-01	2.34713E 01	3.74619E 02	
24.30	8.74327E-01	2.25891E 01	1.07512E 00	-8.73594E-04	-1.00049E 00	2.35687E 01	3.75305E 02	
24.40	8.74321E-01	2.26863E 01	1.08559E 00	-8.76171E-04	-1.01072E 00	2.36662E 01	3.75990E 02	
24.50	8.74316E-01	2.27834E 01	1.09611E 00	-8.78712E-04	-1.02101E 00	2.37637E 01	3.76674E 02	
24.60	8.74310E-01	2.28806E 01	1.10668E 00	-8.81218E-04	-1.03134E 00	2.38612E 01	3.77357E 02	
24.70	8.74304E-01	2.29778E 01	1.11730E 00	-8.83697E-04	-1.04173E 00	2.39588E 01	3.78037E 02	
24.80	8.74298E-01	2.30750E 01	1.12797E 00	-8.86132E-04	-1.05217E 00	2.40563E 01	3.78719E 02	
24.90	8.74292E-01	2.31723E 01	1.13870E 00	-8.88544E-04	-1.06266E 00	2.41540E 01	3.79398E 02	
25.00	8.74286E-01	2.32695E 01	1.14948E 00	-8.90919E-04	-1.07321E 00	2.42516E 01	3.80076E 02	
25.10	8.74280E-01	2.33669E 01	1.16031E 00	-8.93255E-04	-1.08380E 00	2.43492E 01	3.80754E 02	
25.20	8.74274E-01	2.34642E 01	1.17119E 00	-8.95573E-04	-1.09445E 00	2.44469E 01	3.81430E 02	
25.30	8.74268E-01	2.35615E 01	1.18212E 00	-8.97850E-04	-1.10515E 00	2.45446E 01	3.82105E 02	
25.40	8.74262E-01	2.36589E 01	1.19311E 00	-9.00101E-04	-1.11590E 00	2.46424E 01	3.82779E 02	
25.50	8.74256E-01	2.37563E 01	1.20414E 00	-9.02318E-04	-1.12671E 00	2.47402E 01	3.83453E 02	
25.60	8.74251E-01	2.38538E 01	1.21523E 00	-9.04503E-04	-1.13756E 00	2.48380E 01	3.84125E 02	
25.70	8.74245E-01	2.39512E 01	1.22637E 00	-9.06660E-04	-1.14847E 00	2.49358E 01	3.84797E 02	
25.80	8.74239E-01	2.40487E 01	1.23756E 00	-9.08783E-04	-1.15943E 00	2.50336E 01	3.85469E 02	
25.90	8.74233E-01	2.41462E 01	1.24881E 00	-9.10880E-04	-1.17044E 00	2.51315E 01	3.86138E 02	
26.00	8.74227E-01	2.42438E 01	1.26010E 00	-9.12947E-04	-1.18150E 00	2.52294E 01	3.86808E 02	
26.10	8.74222E-01	2.43413E 01	1.27145E 00	-9.14978E-04	-1.19262E 00	2.53274E 01	3.87477E 02	
26.20	8.74216E-01	2.44389E 01	1.28285E 00	-9.16989E-04	-1.20379E 00	2.54253E 01	3.88144E 02	
26.30	8.74210E-01	2.45366E 01	1.29430E 00	-9.18963E-04	-1.21501E 00	2.55233E 01	3.88812E 02	
26.40	8.74205E-01	2.46342E 01	1.30581E 00	-9.20917E-04	-1.22628E 00	2.56214E 01	3.89478E 02	
26.50	8.74199E-01	2.47319E 01	1.31737E 00	-9.22834E-04	-1.23760E 00	2.57194E 01	3.90145E 02	
26.60	8.74193E-01	2.48296E 01	1.32898E 00	-9.24728E-04	-1.24898E 00	2.58175E 01	3.90810E 02	
26.70	8.74187E-01	2.49273E 01	1.34064E 00	-9.26598E-04	-1.26041E 00	2.59156E 01	3.91474E 02	
26.80	8.74182E-01	2.50251E 01	1.35235E 00	-9.28438E-04	-1.27189E 00	2.60137E 01	3.92138E 02	
26.90	8.74176E-01	2.51229E 01	1.36412E 00	-9.30247E-04	-1.28343E 00	2.61119E 01	3.92802E 02	
27.00	8.74171E-01	2.52207E 01	1.37593E 00	-9.32031E-04	-1.29501E 00	2.62101E 01	3.93465E 02	
27.10	8.74165E-01	2.53186E 01	1.38780E 00	-9.33791E-04	-1.30665E 00	2.63083E 01	3.94127E 02	
27.20	8.74159E-01	2.54164E 01	1.39973E 00	-9.35524E-04	-1.31834E 00	2.64066E 01	3.94789E 02	
27.30	8.74154E-01	2.55143E 01	1.41170E 00	-9.37233E-04	-1.33009E 00	2.65049E 01	3.95450E 02	
27.40	8.74149E-01	2.56123E 01	1.42373E 00	-9.38909E-04	-1.34188E 00	2.66032E 01	3.96111E 02	
27.50	8.74143E-01	2.57102E 01	1.43581E 00	-9.40566E-04	-1.35373E 00	2.67016E 01	3.96771E 02	
27.60	8.74138E-01	2.58082E 01	1.44794E 00	-9.42194E-04	-1.36563E 00	2.67999E 01	3.97431E 02	
27.70	8.74132E-01	2.59062E 01	1.46013E 00	-9.43793E-04	-1.37759E 00	2.68983E 01	3.98092E 02	
27.80	8.74127E-01	2.60043E 01	1.47237E 00	-9.45376E-04	-1.38960E 00	2.69968E 01	3.98750E 02	
27.90	8.74121E-01	2.61023E 01	1.48466E 00	-9.46932E-04	-1.40166E 00	2.70952E 01	3.99409E 02	
28.00	8.74116E-01	2.62005E 01	1.49700E 00	-9.48466E-04	-1.41377E 00	2.71937E 01	4.00067E 02	
28.10	8.74111E-01	2.62986E 01	1.50940E 00	-9.49961E-04	-1.42593E 00	2.72923E 01	4.00726E 02	
28.20	8.74105E-01	2.63967E 01	1.52185E 00	-9.51447E-04	-1.43815E 00	2.73908E 01	4.01383E 02	
28.30	8.74100E-01	2.64949E 01	1.53435E 00	-9.52903E-04	-1.45042E 00	2.74894E 01	4.02041E 02	
28.40	8.74094E-01	2.65932E 01	1.54690E 00	-9.54331E-04	-1.46275E 00	2.75880E 01	4.02699E 02	
28.50	8.74089E-01	2.66914E 01	1.55951E 00	-9.55739E-04	-1.47512E 00	2.76867E 01	4.03357E 02	
28.60	8.74084E-01	2.67897E 01	1.57217E 00	-9.57128E-04	-1.48755E 00	2.77854E 01	4.04013E 02	
28.70	8.74078E-01	2.68880E 01	1.58488E 00	-9.58491E-04	-1.50004E 00	2.78841E 01	4.04670E 02	
28.80	8.74073E-01	2.69863E 01	1.59765E 00	-9.59831E-04	-1.51257E 00	2.79828E 01	4.05326E 02	
28.90	8.74068E-01	2.70847E 01	1.61046E 00	-9.61149E-04	-1.52516E 00	2.80816E 01	4.05983E 02	
29.00	8.74063E-01	2.71831E 01	1.62334E 00	-9.62446E-04	-1.53780E 00	2.81804E 01	4.06638E 02	
29.10	8.74057E-01	2.72815E 01	1.63626E 00	-9.63717E-04	-1.55050E 00	2.82793E 01	4.07295E 02	
29.20	8.74052E-01	2.73800E 01	1.64924E 00	-9.64965E-04	-1.56325E 00	2.83781E 01	4.07951E 02	
29.30	8.74047E-01	2.74785E 01	1.66227E 00	-9.66189E-04	-1.57605E 00	2.84770E 01	4.08608E 02	
29.40	8.74042E-01	2.75770E 01	1.67535E 00	-9.67399E-04	-1.58891E 00	2.85760E 01	4.09263E 02	
29.50	8.74037E-01	2.76755E 01	1.68849E 00	-9.68585E-04	-1.60181E 00	2.86749E 01	4.09919E 02	
29.60	8.74031E-01	2.77741E 01	1.70168E 00	-9.69748E-04	-1.61478E 00	2.87739E 01	4.10574E 02	
29.70	8.74026E-01	2.78727E 01	1.71493E 00	-9.70885E-04	-1.62779E 00	2.88730E 01	4.11231E 02	
29.80	8.74021E-01	2.79714E 01	1.72822E 00	-9.72010E-04	-1.64086E 00	2.89720E 01	4.11886E 02	
29.90	8.74016E-01	2.80700E 01	1.74157E 00	-9.73104E-04	-1.65398E 00	2.90711E 01	4.12543E 02	
30.00	8.74011E-01	2.81688E 01	1.75498E 00	-9.74191E-04	-1.66716E 00	2.91702E 01	4.13197E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z=6$  $A=12$  $\rho=1.3 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_2$
24.10	8.36981E-04	1.36558E 00	3.92333E-02	-3.25784E 01	-3.65041E-02	1.42341E 00	2.97857E-02
24.20	8.43939E-04	1.37704E 00	3.97749E-02	-3.25806E 01	-3.70255E-02	1.43511E 00	2.97874E-02
24.30	8.50925E-04	1.38854E 00	4.03215E-02	-3.25828E 01	-3.75517E-02	1.44685E 00	2.97890E-02
24.40	8.57940E-04	1.40010E 00	4.08730E-02	-3.25850E 01	-3.80828E-02	1.45865E 00	2.97907E-02
24.50	8.64985E-04	1.41170E 00	4.14295E-02	-3.25871E 01	-3.86188E-02	1.47049E 00	2.97923E-02
24.60	8.72058E-04	1.42335E 00	4.19910E-02	-3.25893E 01	-3.91597E-02	1.48238E 00	2.97939E-02
24.70	8.79159E-04	1.43505E 00	4.25574E-02	-3.25914E 01	-3.97055E-02	1.49431E 00	2.97955E-02
24.80	8.86290E-04	1.44679E 00	4.31289E-02	-3.25935E 01	-4.02563E-02	1.50630E 00	2.97971E-02
24.90	8.93449E-04	1.45858E 00	4.37055E-02	-3.25956E 01	-4.08121E-02	1.51833E 00	2.97987E-02
25.00	9.00637E-04	1.47042E 00	4.42871E-02	-3.25976E 01	-4.13728E-02	1.53041E 00	2.98003E-02
25.10	9.07854E-04	1.48231E 00	4.48738E-02	-3.25997E 01	-4.19386E-02	1.54253E 00	2.98018E-02
25.20	9.15100E-04	1.49424E 00	4.54657E-02	-3.26017E 01	-4.25095E-02	1.55471E 00	2.98034E-02
25.30	9.22374E-04	1.50622E 00	4.60627E-02	-3.26038E 01	-4.30854E-02	1.56693E 00	2.98049E-02
25.40	9.29677E-04	1.51825E 00	4.66648E-02	-3.26058E 01	-4.36664E-02	1.57920E 00	2.98065E-02
25.50	9.37009E-04	1.53033E 00	4.72722E-02	-3.26077E 01	-4.42525E-02	1.59151E 00	2.98080E-02
25.60	9.44370E-04	1.54245E 00	4.78847E-02	-3.26097E 01	-4.48438E-02	1.60388E 00	2.98095E-02
25.70	9.51759E-04	1.55462E 00	4.85025E-02	-3.26117E 01	-4.54402E-02	1.61629E 00	2.98110E-02
25.80	9.59178E-04	1.56684E 00	4.91255E-02	-3.26136E 01	-4.60417E-02	1.62874E 00	2.98124E-02
25.90	9.66625E-04	1.57911E 00	4.97538E-02	-3.26155E 01	-4.66485E-02	1.64125E 00	2.98139E-02
26.00	9.74101E-04	1.59142E 00	5.03874E-02	-3.26174E 01	-4.72605E-02	1.65380E 00	2.98154E-02
26.10	9.81605E-04	1.60378E 00	5.10263E-02	-3.26193E 01	-4.78777E-02	1.66640E 00	2.98168E-02
26.20	9.89139E-04	1.61619E 00	5.16705E-02	-3.26212E 01	-4.85003E-02	1.67905E 00	2.98183E-02
26.30	9.96701E-04	1.62865E 00	5.23201E-02	-3.26231E 01	-4.91281E-02	1.69175E 00	2.98197E-02
26.40	1.00429E-03	1.64115E 00	5.29751E-02	-3.26249E 01	-4.97612E-02	1.70449E 00	2.98211E-02
26.50	1.01191E-03	1.65370E 00	5.36355E-02	-3.26268E 01	-5.03996E-02	1.71728E 00	2.98225E-02
26.60	1.01956E-03	1.66630E 00	5.43013E-02	-3.26286E 01	-5.10434E-02	1.73012E 00	2.98239E-02
26.70	1.02724E-03	1.67895E 00	5.49726E-02	-3.26304E 01	-5.16925E-02	1.74300E 00	2.98253E-02
26.80	1.03494E-03	1.69164E 00	5.56493E-02	-3.26322E 01	-5.23471E-02	1.75594E 00	2.98267E-02
26.90	1.04268E-03	1.70438E 00	5.63315E-02	-3.26339E 01	-5.30071E-02	1.76892E 00	2.98281E-02
27.00	1.05044E-03	1.71717E 00	5.70193E-02	-3.26357E 01	-5.36725E-02	1.78194E 00	2.98294E-02
27.10	1.05824E-03	1.73000E 00	5.77126E-02	-3.26375E 01	-5.43434E-02	1.79502E 00	2.98308E-02
27.20	1.06606E-03	1.74288E 00	5.84114E-02	-3.26392E 01	-5.50197E-02	1.80814E 00	2.98321E-02
27.30	1.07391E-03	1.75581E 00	5.91158E-02	-3.26409E 01	-5.57016E-02	1.82131E 00	2.98335E-02
27.40	1.08179E-03	1.76879E 00	5.98258E-02	-3.26426E 01	-5.63890E-02	1.83452E 00	2.98348E-02
27.50	1.08969E-03	1.78182E 00	6.05414E-02	-3.26443E 01	-5.70819E-02	1.84779E 00	2.98361E-02
27.60	1.09763E-03	1.79489E 00	6.12627E-02	-3.26460E 01	-5.77805E-02	1.86110E 00	2.98374E-02
27.70	1.10559E-03	1.80801E 00	6.19896E-02	-3.26477E 01	-5.84846E-02	1.87446E 00	2.98387E-02
27.80	1.11359E-03	1.82117E 00	6.27223E-02	-3.26494E 01	-5.91943E-02	1.88786E 00	2.98400E-02
27.90	1.12161E-03	1.83439E 00	6.34606E-02	-3.26510E 01	-5.99097E-02	1.90132E 00	2.98413E-02
28.00	1.12966E-03	1.84765E 00	6.42047E-02	-3.26526E 01	-6.06307E-02	1.91482E 00	2.98425E-02
28.10	1.13774E-03	1.86096E 00	6.49545E-02	-3.26543E 01	-6.13574E-02	1.92836E 00	2.98438E-02
28.20	1.14585E-03	1.87431E 00	6.57101E-02	-3.26559E 01	-6.20898E-02	1.94196E 00	2.98450E-02
28.30	1.15399E-03	1.88772E 00	6.64715E-02	-3.26575E 01	-6.28279E-02	1.95560E 00	2.98463E-02
28.40	1.16216E-03	1.90117E 00	6.72387E-02	-3.26591E 01	-6.35718E-02	1.96929E 00	2.98475E-02
28.50	1.17035E-03	1.91466E 00	6.80118E-02	-3.26606E 01	-6.43214E-02	1.98303E 00	2.98488E-02
28.60	1.17858E-03	1.92821E 00	6.87907E-02	-3.26622E 01	-6.50769E-02	1.99681E 00	2.98500E-02
28.70	1.18683E-03	1.94180E 00	6.95755E-02	-3.26638E 01	-6.58381E-02	2.01064E 00	2.98512E-02
28.80	1.19511E-03	1.95544E 00	7.03663E-02	-3.26653E 01	-6.66052E-02	2.02452E 00	2.98524E-02
28.90	1.20342E-03	1.96913E 00	7.11629E-02	-3.26668E 01	-6.73781E-02	2.03845E 00	2.98536E-02
29.00	1.21176E-03	1.98286E 00	7.19655E-02	-3.26684E 01	-6.81569E-02	2.05242E 00	2.98548E-02
29.10	1.22013E-03	1.99664E 00	7.27741E-02	-3.26699E 01	-6.89417E-02	2.06644E 00	2.98560E-02
29.20	1.22852E-03	2.01047E 00	7.35886E-02	-3.26714E 01	-6.97323E-02	2.08051E 00	2.98571E-02
29.30	1.23695E-03	2.02434E 00	7.44092E-02	-3.26729E 01	-7.05289E-02	2.09462E 00	2.98583E-02
29.40	1.24540E-03	2.03827E 00	7.52358E-02	-3.26743E 01	-7.13314E-02	2.10878E 00	2.98595E-02
29.50	1.25389E-03	2.05224E 00	7.60685E-02	-3.26758E 01	-7.21399E-02	2.12299E 00	2.98606E-02
29.60	1.26240E-03	2.06625E 00	7.69073E-02	-3.26773E 01	-7.29545E-02	2.13725E 00	2.98618E-02
29.70	1.27094E-03	2.08032E 00	7.77521E-02	-3.26787E 01	-7.37751E-02	2.15155E 00	2.98629E-02
29.80	1.27951E-03	2.09443E 00	7.86031E-02	-3.26802E 01	-7.46017E-02	2.16590E 00	2.98640E-02
29.90	1.28811E-03	2.10859E 00	7.94602E-02	-3.26816E 01	-7.54344E-02	2.18030E 00	2.98651E-02
30.00	1.29674E-03	2.12279E 00	8.03235E-02	-3.26830E 01	-7.62732E-02	2.19474E 00	2.98663E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6 \quad A=12 \quad \rho=1.3 A^{1/3} F$							
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
30.10	8.74006E-01	2.82675 E 01	1.76843 E 00	-9.75236E-04	-1.68039E 00	2.92694E 01	4.13856 E 02	
30.20	8.74001 E-01	2.83663 E 01	1.78194 E 00	-9.76281E-04	-1.69367 E 00	2.93686 E 01	4.14511 E 02	
30.30	8.73995 E-01	2.84651 E 01	1.79551 E 00	-9.77297E-04	-1.70700 E 00	2.94678 E 01	4.15167 E 02	
30.40	8.73990 E-01	2.85639 E 01	1.80913 E 00	-9.78298E-04	-1.72039 E 00	2.95671 E 01	4.15823 E 02	
30.50	8.73985 E-01	2.86627 E 01	1.82280 E 00	-9.79269E-04	-1.73384 E 00	2.96664 E 01	4.16480 E 02	
30.60	8.73980 E-01	2.87616 E 01	1.83652 E 00	-9.80228E-04	-1.74734 E 00	2.97657 E 01	4.17137 E 02	
30.70	8.73975 E-01	2.88606 E 01	1.85030 E 00	-9.81164E-04	-1.76089 E 00	2.98650 E 01	4.17794 E 02	
30.80	8.73970 E-01	2.89595 E 01	1.86413 E 00	-9.82079E-04	-1.77449 E 00	2.99644 E 01	4.18451 E 02	
30.90	8.73965 E-01	2.90585 E 01	1.87802 E 00	-9.82972E-04	-1.78815 E 00	3.00639 E 01	4.19109 E 02	
31.00	8.73960 E-01	2.91575 E 01	1.89196 E 00	-9.83853E-04	-1.80186 E 00	3.01633 E 01	4.19766 E 02	
31.10	8.73955 E-01	2.92566 E 01	1.90595 E 00	-9.84719E-04	-1.81563 E 00	3.02628 E 01	4.20423 E 02	
31.20	8.73950 E-01	2.93557 E 01	1.92000 E 00	-9.85559E-04	-1.82945 E 00	3.03623 E 01	4.21081 E 02	
31.30	8.73945 E-01	2.94548 E 01	1.93410 E 00	-9.86377E-04	-1.84332 E 00	3.04619 E 01	4.21740 E 02	
31.40	8.73940 E-01	2.95539 E 01	1.94825 E 00	-9.87183E-04	-1.85725 E 00	3.05615 E 01	4.22398 E 02	
31.50	8.73935 E-01	2.96531 E 01	1.96246 E 00	-9.87964E-04	-1.87123 E 00	3.06611 E 01	4.23058 E 02	
31.60	8.73930 E-01	2.97523 E 01	1.97672 E 00	-9.88727E-04	-1.88527 E 00	3.07608 E 01	4.23718 E 02	
31.70	8.73926 E-01	2.98516 E 01	1.99104 E 00	-9.89475E-04	-1.89936 E 00	3.08605 E 01	4.24378 E 02	
31.80	8.73921 E-01	2.99508 E 01	2.00541 E 00	-9.90212E-04	-1.91350 E 00	3.09602 E 01	4.25036 E 02	
31.90	8.73916 E-01	3.00502 E 01	2.01983 E 00	-9.90915E-04	-1.92770 E 00	3.10599 E 01	4.25698 E 02	
32.00	8.73911 E-01	3.01495 E 01	2.03431 E 00	-9.91608E-04	-1.94196 E 00	3.11597 E 01	4.26359 E 02	
32.10	8.73906 E-01	3.02489 E 01	2.04885 E 00	-9.92286E-04	-1.95626 E 00	3.12596 E 01	4.27020 E 02	
32.20	8.73901 E-01	3.03483 E 01	2.06343 E 00	-9.92943E-04	-1.97062 E 00	3.13594 E 01	4.27682 E 02	
32.30	8.73896 E-01	3.04477 E 01	2.07807 E 00	-9.93582E-04	-1.98504 E 00	3.14593 E 01	4.28344 E 02	
32.40	8.73892 E-01	3.05472 E 01	2.09277 E 00	-9.94207E-04	-1.99951 E 00	3.15593 E 01	4.29007 E 02	
32.50	8.73887 E-01	3.06467 E 01	2.10752 E 00	-9.94814E-04	-2.01404 E 00	3.16592 E 01	4.29670 E 02	
32.60	8.73882 E-01	3.07463 E 01	2.12232 E 00	-9.95397E-04	-2.02862 E 00	3.17593 E 01	4.30334 E 02	
32.70	8.73877 E-01	3.08459 E 01	2.13718 E 00	-9.95969E-04	-2.04325 E 00	3.18593 E 01	4.30999 E 02	
32.80	8.73872 E-01	3.09455 E 01	2.15209 E 00	-9.96523E-04	-2.05794 E 00	3.19594 E 01	4.31663 E 02	
32.90	8.73868 E-01	3.10451 E 01	2.16706 E 00	-9.97061E-04	-2.07268 E 00	3.20595 E 01	4.32329 E 02	
33.00	8.73863 E-01	3.11448 E 01	2.18208 E 00	-9.97577E-04	-2.08748 E 00	3.21596 E 01	4.32996 E 02	
33.10	8.73858 E-01	3.12445 E 01	2.19716 E 00	-9.98082E-04	-2.10233 E 00	3.22598 E 01	4.33662 E 02	
33.20	8.73854 E-01	3.13443 E 01	2.21229 E 00	-9.98563E-04	-2.11724 E 00	3.23600 E 01	4.34330 E 02	
33.30	8.73849 E-01	3.14441 E 01	2.22748 E 00	-9.99037E-04	-2.13220 E 00	3.24603 E 01	4.34998 E 02	
33.40	8.73844 E-01	3.15439 E 01	2.24272 E 00	-9.99493E-04	-2.14722 E 00	3.25606 E 01	4.35666 E 02	
33.50	8.73840 E-01	3.16437 E 01	2.25801 E 00	-9.99927E-04	-2.16229 E 00	3.26609 E 01	4.36336 E 02	
33.60	8.73835 E-01	3.17436 E 01	2.27336 E 00	-1.00035E-03	-2.17742 E 00	3.27613 E 01	4.37006 E 02	
33.70	8.73830 E-01	3.18436 E 01	2.28877 E 00	-1.00075E-03	-2.19260 E 00	3.28617 E 01	4.37677 E 02	
33.80	8.73826 E-01	3.19435 E 01	2.30423 E 00	-1.00114E-03	-2.20783 E 00	3.29621 E 01	4.38348 E 02	
33.90	8.73821 E-01	3.20435 E 01	2.31974 E 00	-1.00152E-03	-2.22313 E 00	3.30626 E 01	4.39021 E 02	
34.00	8.73816 E-01	3.21435 E 01	2.33531 E 00	-1.00187E-03	-2.23847 E 00	3.31631 E 01	4.39694 E 02	
34.10	8.73812 E-01	3.22436 E 01	2.35094 E 00	-1.00222E-03	-2.25387 E 00	3.32637 E 01	4.40366 E 02	
34.20	8.73807 E-01	3.23437 E 01	2.36662 E 00	-1.00255E-03	-2.26933 E 00	3.33642 E 01	4.41040 E 02	
34.30	8.73803 E-01	3.24439 E 01	2.38235 E 00	-1.00286E-03	-2.28484 E 00	3.34649 E 01	4.41717 E 02	
34.40	8.73798 E-01	3.25440 E 01	2.39814 E 00	-1.00316E-03	-2.30041 E 00	3.35655 E 01	4.42392 E 02	
34.50	8.73794 E-01	3.26442 E 01	2.41399 E 00	-1.00343E-03	-2.31603 E 00	3.36662 E 01	4.43070 E 02	
34.60	8.73789 E-01	3.27445 E 01	2.42989 E 00	-1.00370E-03	-2.33171 E 00	3.37670 E 01	4.43747 E 02	
34.70	8.73784 E-01	3.28448 E 01	2.44584 E 00	-1.00395E-03	-2.34745 E 00	3.38677 E 01	4.44427 E 02	
34.80	8.73780 E-01	3.29451 E 01	2.46185 E 00	-1.00418E-03	-2.36324 E 00	3.39685 E 01	4.45106 E 02	
34.90	8.73775 E-01	3.30454 E 01	2.47792 E 00	-1.00441E-03	-2.37908 E 00	3.40694 E 01	4.45786 E 02	
35.00	8.73771 E-01	3.31458 E 01	2.49404 E 00	-1.00461E-03	-2.39498 E 00	3.41703 E 01	4.46469 E 02	
35.10	8.73766 E-01	3.32463 E 01	2.51022 E 00	-1.00480E-03	-2.41094 E 00	3.42712 E 01	4.47151 E 02	
35.20	8.73762 E-01	3.33467 E 01	2.52645 E 00	-1.00498E-03	-2.42695 E 00	3.43722 E 01	4.47834 E 02	
35.30	8.73757 E-01	3.34472 E 01	2.54274 E 00	-1.00514E-03	-2.44301 E 00	3.44732 E 01	4.48519 E 02	
35.40	8.73753 E-01	3.35478 E 01	2.55908 E 00	-1.00529E-03	-2.45914 E 00	3.45742 E 01	4.49203 E 02	
35.50	8.73749 E-01	3.36483 E 01	2.57548 E 00	-1.00542E-03	-2.47531 E 00	3.46753 E 01	4.49891 E 02	
35.60	8.73744 E-01	3.37489 E 01	2.59193 E 00	-1.00554E-03	-2.49155 E 00	3.47764 E 01	4.50578 E 02	
35.70	8.73740 E-01	3.38496 E 01	2.60844 E 00	-1.00565E-03	-2.50784 E 00	3.48775 E 01	4.51266 E 02	
35.80	8.73735 E-01	3.39503 E 01	2.62501 E 00	-1.00573E-03	-2.52418 E 00	3.49787 E 01	4.51957 E 02	
35.90	8.73731 E-01	3.40510 E 01	2.64163 E 00	-1.00581E-03	-2.54059 E 00	3.50800 E 01	4.52647 E 02	
36.00	8.73726 E-01	3.41518 E 01	2.65831 E 00	-1.00588E-03	-2.55704 E 00	3.51812 E 01	4.53337 E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z=6$  $A=12$  $\rho=1.3A^{1/3}F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
30.10	1.30539E-03	2.13705E 00	8.11931E-02	-3.26844E 01	-7.71181E-02	2.20923E 00	2.98674E-02
30.20	1.31408E-03	2.15135E 00	8.20688E-02	-3.26858E 01	-7.79692E-02	2.22377E 00	2.98685E-02
30.30	1.32279E-03	2.16569E 00	8.29507E-02	-3.26872E 01	-7.88264E-02	2.23836E 00	2.98696E-02
30.40	1.33153E-03	2.18009E 00	8.38389E-02	-3.26886E 01	-7.96897E-02	2.25299E 00	2.98706E-02
30.50	1.34030E-03	2.19453E 00	8.47334E-02	-3.26899E 01	-8.05593E-02	2.26767E 00	2.98717E-02
30.60	1.34910E-03	2.20902E 00	8.56342E-02	-3.26913E 01	-8.14352E-02	2.28240E 00	2.98728E-02
30.70	1.35793E-03	2.22355E 00	8.65412E-02	-3.26927E 01	-8.23172E-02	2.29717E 00	2.98739E-02
30.80	1.36679E-03	2.23814E 00	8.74547E-02	-3.26940E 01	-8.32056E-02	2.31200E 00	2.98749E-02
30.90	1.37567E-03	2.25277E 00	8.83745E-02	-3.26953E 01	-8.41002E-02	2.32686E 00	2.98760E-02
31.00	1.38459E-03	2.26744E 00	8.93006E-02	-3.26967E 01	-8.50011E-02	2.34178E 00	2.98770E-02
31.10	1.39353E-03	2.28217E 00	9.02332E-02	-3.26980E 01	-8.59084E-02	2.35674E 00	2.98781E-02
31.20	1.40250E-03	2.29694E 00	9.11723E-02	-3.26993E 01	-8.68220E-02	2.37175E 00	2.98791E-02
31.30	1.41151E-03	2.31176E 00	9.21177E-02	-3.27006E 01	-8.77421E-02	2.38681E 00	2.98801E-02
31.40	1.42054E-03	2.32662E 00	9.30697E-02	-3.27019E 01	-8.86685E-02	2.40191E 00	2.98812E-02
31.50	1.42959E-03	2.34153E 00	9.40281E-02	-3.27032E 01	-8.96013E-02	2.41706E 00	2.98822E-02
31.60	1.43868E-03	2.35649E 00	9.49931E-02	-3.27044E 01	-9.05406E-02	2.43226E 00	2.98832E-02
31.70	1.44780E-03	2.37150E 00	9.59646E-02	-3.27057E 01	-9.14863E-02	2.44751E 00	2.98842E-02
31.80	1.45694E-03	2.38655E 00	9.69426E-02	-3.27070E 01	-9.24385E-02	2.46280E 00	2.98852E-02
31.90	1.46612E-03	2.40165E 00	9.79272E-02	-3.27082E 01	-9.33973E-02	2.47814E 00	2.98862E-02
32.00	1.47532E-03	2.41680E 00	9.89185E-02	-3.27094E 01	-9.43626E-02	2.49352E 00	2.98872E-02
32.10	1.48455E-03	2.43200E 00	9.99163E-02	-3.27107E 01	-9.53344E-02	2.50896E 00	2.98882E-02
32.20	1.49381E-03	2.44724E 00	1.00921E-01	-3.27119E 01	-9.63128E-02	2.52443E 00	2.98891E-02
32.30	1.50310E-03	2.46252E 00	1.01932E-01	-3.27131E 01	-9.72978E-02	2.53996E 00	2.98901E-02
32.40	1.51242E-03	2.47786E 00	1.02950E-01	-3.27143E 01	-9.82894E-02	2.55554E 00	2.98911E-02
32.50	1.52176E-03	2.49324E 00	1.03974E-01	-3.27155E 01	-9.92876E-02	2.57116E 00	2.98920E-02
32.60	1.53114E-03	2.50867E 00	1.05006E-01	-3.27167E 01	-1.00293E-01	2.58682E 00	2.98930E-02
32.70	1.54054E-03	2.52415E 00	1.06044E-01	-3.27179E 01	-1.01304E-01	2.60254E 00	2.98939E-02
32.80	1.54998E-03	2.53967E 00	1.07089E-01	-3.27191E 01	-1.02322E-01	2.61830E 00	2.98949E-02
32.90	1.55944E-03	2.55524E 00	1.08140E-01	-3.27203E 01	-1.03347E-01	2.63411E 00	2.98958E-02
33.00	1.56893E-03	2.57086E 00	1.09199E-01	-3.27214E 01	-1.04379E-01	2.64996E 00	2.98967E-02
33.10	1.57845E-03	2.58652E 00	1.10264E-01	-3.27226E 01	-1.05418E-01	2.66587E 00	2.98977E-02
33.20	1.58799E-03	2.60223E 00	1.11336E-01	-3.27237E 01	-1.06463E-01	2.68181E 00	2.98986E-02
33.30	1.59757E-03	2.61799E 00	1.12415E-01	-3.27249E 01	-1.07515E-01	2.69781E 00	2.98995E-02
33.40	1.60718E-03	2.63379E 00	1.13501E-01	-3.27260E 01	-1.08574E-01	2.71385E 00	2.99004E-02
33.50	1.61681E-03	2.64965E 00	1.14594E-01	-3.27271E 01	-1.09640E-01	2.72994E 00	2.99013E-02
33.60	1.62647E-03	2.66554E 00	1.15694E-01	-3.27282E 01	-1.10713E-01	2.74608E 00	2.99022E-02
33.70	1.63617E-03	2.68149E 00	1.16801E-01	-3.27294E 01	-1.11792E-01	2.76226E 00	2.99031E-02
33.80	1.64589E-03	2.69748E 00	1.17915E-01	-3.27305E 01	-1.12879E-01	2.77849E 00	2.99040E-02
33.90	1.65564E-03	2.71352E 00	1.19035E-01	-3.27316E 01	-1.13972E-01	2.79477E 00	2.99049E-02
34.00	1.66541E-03	2.72961E 00	1.20163E-01	-3.27327E 01	-1.15073E-01	2.81109E 00	2.99058E-02
34.10	1.67522E-03	2.74574E 00	1.21298E-01	-3.27338E 01	-1.16180E-01	2.82746E 00	2.99066E-02
34.20	1.68506E-03	2.76192E 00	1.22440E-01	-3.27348E 01	-1.17295E-01	2.84388E 00	2.99075E-02
34.30	1.69492E-03	2.77814E 00	1.23589E-01	-3.27359E 01	-1.18416E-01	2.86035E 00	2.99084E-02
34.40	1.70481E-03	2.79442E 00	1.24745E-01	-3.27370E 01	-1.19545E-01	2.87686E 00	2.99092E-02
34.50	1.71474E-03	2.81074E 00	1.25909E-01	-3.27380E 01	-1.20680E-01	2.89341E 00	2.99101E-02
34.60	1.72469E-03	2.82710E 00	1.27079E-01	-3.27391E 01	-1.21823E-01	2.91002E 00	2.99110E-02
34.70	1.73467E-03	2.84352E 00	1.28257E-01	-3.27401E 01	-1.22973E-01	2.92667E 00	2.99118E-02
34.80	1.74467E-03	2.85998E 00	1.29442E-01	-3.27412E 01	-1.24130E-01	2.94337E 00	2.99126E-02
34.90	1.75471E-03	2.87648E 00	1.30634E-01	-3.27422E 01	-1.25294E-01	2.96011E 00	2.99135E-02
35.00	1.76478E-03	2.89304E 00	1.31834E-01	-3.27432E 01	-1.26465E-01	2.97691E 00	2.99143E-02
35.10	1.77487E-03	2.90964E 00	1.33040E-01	-3.27443E 01	-1.27643E-01	2.99374E 00	2.99151E-02
35.20	1.78499E-03	2.92628E 00	1.34254E-01	-3.27453E 01	-1.28829E-01	3.01063E 00	2.99160E-02
35.30	1.79515E-03	2.94298E 00	1.35476E-01	-3.27463E 01	-1.30022E-01	3.02756E 00	2.99168E-02
35.40	1.80533E-03	2.95972E 00	1.36704E-01	-3.27473E 01	-1.31222E-01	3.04454E 00	2.99176E-02
35.50	1.81554E-03	2.97650E 00	1.37940E-01	-3.27483E 01	-1.32430E-01	3.06156E 00	2.99184E-02
35.60	1.82578E-03	2.99334E 00	1.39184E-01	-3.27493E 01	-1.33644E-01	3.07864E 00	2.99192E-02
35.70	1.83604E-03	3.01022E 00	1.40434E-01	-3.27503E 01	-1.34867E-01	3.09575E 00	2.99200E-02
35.80	1.84634E-03	3.02715E 00	1.41693E-01	-3.27513E 01	-1.36096E-01	3.11292E 00	2.99208E-02
35.90	1.85666E-03	3.04412E 00	1.42958E-01	-3.27522E 01	-1.37333E-01	3.13013E 00	2.99216E-02
36.00	1.86702E-03	3.06114E 00	1.44231E-01	-3.27532E 01	-1.38577E-01	3.14739E 00	2.99224E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6$		$A=12$		$\rho=1.3 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
36.10	8.73722E-01	3.42526E 01	2.67504E 00	-1.00592E-03	-2.57356E 00	3.52826E 01	4.54031E 02	
36.20	8.73718E-01	3.43534E 01	2.69183E 00	-1.00595E-03	-2.59013E 00	3.53839E 01	4.54726E 02	
36.30	8.73713E-01	3.44543E 01	2.70868E 00	-1.00598E-03	-2.60675E 00	3.54853E 01	4.55420E 02	
36.40	8.73709E-01	3.45552E 01	2.72558E 00	-1.00598E-03	-2.62344E 00	3.55867E 01	4.56116E 02	
36.50	8.73705E-01	3.46561E 01	2.74254E 00	-1.00597E-03	-2.64018E 00	3.56882E 01	4.56814E 02	
36.60	8.73700E-01	3.47571E 01	2.75955E 00	-1.00595E-03	-2.65697E 00	3.57897E 01	4.57514E 02	
36.70	8.73696E-01	3.48581E 01	2.77662E 00	-1.00592E-03	-2.67382E 00	3.58912E 01	4.58212E 02	
36.80	8.73692E-01	3.49592E 01	2.79374E 00	-1.00587E-03	-2.69073E 00	3.59928E 01	4.58914E 02	
36.90	8.73687E-01	3.50603E 01	2.81093E 00	-1.00581E-03	-2.70769E 00	3.60945E 01	4.59616E 02	
37.00	8.73683E-01	3.51614E 01	2.82816E 00	-1.00574E-03	-2.72471E 00	3.61961E 01	4.60320E 02	
37.10	8.73679E-01	3.52626E 01	2.84546E 00	-1.00565E-03	-2.74179E 00	3.62978E 01	4.61025E 02	
37.20	8.73675E-01	3.53639E 01	2.86281E 00	-1.00555E-03	-2.75892E 00	3.63996E 01	4.61732E 02	
37.30	8.73670E-01	3.54651E 01	2.88022E 00	-1.00544E-03	-2.77611E 00	3.65014E 01	4.62439E 02	
37.40	8.73666E-01	3.55664E 01	2.89768E 00	-1.00531E-03	-2.79336E 00	3.66032E 01	4.63148E 02	
37.50	8.73662E-01	3.56677E 01	2.91520E 00	-1.00517E-03	-2.81066E 00	3.67051E 01	4.63858E 02	
37.60	8.73658E-01	3.57691E 01	2.93278E 00	-1.00502E-03	-2.82802E 00	3.68070E 01	4.64570E 02	
37.70	8.73653E-01	3.58705E 01	2.95041E 00	-1.00486E-03	-2.84544E 00	3.69089E 01	4.65282E 02	
37.80	8.73649E-01	3.59720E 01	2.96810E 00	-1.00468E-03	-2.86291E 00	3.70109E 01	4.65997E 02	
37.90	8.73645E-01	3.60735E 01	2.98585E 00	-1.00449E-03	-2.88044E 00	3.71130E 01	4.66713E 02	
38.00	8.73641E-01	3.61750E 01	3.00365E 00	-1.00428E-03	-2.89803E 00	3.72150E 01	4.67431E 02	
38.10	8.73637E-01	3.62766E 01	3.02151E 00	-1.00407E-03	-2.91567E 00	3.73172E 01	4.68149E 02	
38.20	8.73632E-01	3.63782E 01	3.03943E 00	-1.00385E-03	-2.93338E 00	3.74193E 01	4.68868E 02	
38.30	8.73628E-01	3.64799E 01	3.05740E 00	-1.00361E-03	-2.95113E 00	3.75215E 01	4.69590E 02	
38.40	8.73624E-01	3.65815E 01	3.07544E 00	-1.00335E-03	-2.96895E 00	3.76238E 01	4.70314E 02	
38.50	8.73620E-01	3.66833E 01	3.09352E 00	-1.00309E-03	-2.98682E 00	3.77260E 01	4.71038E 02	
38.60	8.73616E-01	3.67851E 01	3.11167E 00	-1.00282E-03	-3.00475E 00	3.78284E 01	4.71763E 02	
38.70	8.73612E-01	3.68869E 01	3.12987E 00	-1.00253E-03	-3.02274E 00	3.79307E 01	4.72492E 02	
38.80	8.73608E-01	3.69887E 01	3.14813E 00	-1.00223E-03	-3.04078E 00	3.80332E 01	4.73221E 02	
38.90	8.73604E-01	3.70906E 01	3.16645E 00	-1.00191E-03	-3.05889E 00	3.81356E 01	4.73953E 02	
39.00	8.73600E-01	3.71926E 01	3.18482E 00	-1.00159E-03	-3.07705E 00	3.82381E 01	4.74685E 02	
39.10	8.73595E-01	3.72946E 01	3.20325E 00	-1.00125E-03	-3.09526E 00	3.83406E 01	4.75418E 02	
39.20	8.73591E-01	3.73966E 01	3.22174E 00	-1.00090E-03	-3.11354E 00	3.84432E 01	4.76154E 02	
39.30	8.73587E-01	3.74986E 01	3.24029E 00	-1.00054E-03	-3.13187E 00	3.85459E 01	4.76892E 02	
39.40	8.73583E-01	3.76007E 01	3.25889E 00	-1.00017E-03	-3.15026E 00	3.86485E 01	4.77630E 02	
39.50	8.73579E-01	3.77029E 01	3.27755E 00	-9.99787E-04	-3.16871E 00	3.87512E 01	4.78372E 02	
39.60	8.73575E-01	3.78051E 01	3.29627E 00	-9.99392E-04	-3.18721E 00	3.88540E 01	4.79114E 02	
39.70	8.73571E-01	3.79073E 01	3.31505E 00	-9.98985E-04	-3.20578E 00	3.89568E 01	4.79858E 02	
39.80	8.73567E-01	3.80096E 01	3.33388E 00	-9.98565E-04	-3.22440E 00	3.90596E 01	4.80605E 02	
39.90	8.73563E-01	3.81119E 01	3.35277E 00	-9.98142E-04	-3.24308E 00	3.91625E 01	4.81351E 02	
40.00	8.73559E-01	3.82142E 01	3.37172E 00	-9.97720E-04	-3.26181E 00	3.92654E 01	4.82101E 02	
40.10	8.73555E-01	3.83166E 01	3.39073E 00	-9.97244E-04	-3.28061E 00	3.93684E 01	4.82853E 02	
40.20	8.73551E-01	3.84191E 01	3.40980E 00	-9.96776E-04	-3.29946E 00	3.94714E 01	4.83607E 02	
40.30	8.73547E-01	3.85216E 01	3.42892E 00	-9.96304E-04	-3.31837E 00	3.95745E 01	4.84361E 02	
40.40	8.73543E-01	3.86241E 01	3.44810E 00	-9.95819E-04	-3.33734E 00	3.96776E 01	4.85117E 02	
40.50	8.73539E-01	3.87267E 01	3.46734E 00	-9.95322E-04	-3.35637E 00	3.97808E 01	4.85876E 02	
40.60	8.73535E-01	3.88293E 01	3.48664E 00	-9.94811E-04	-3.37545E 00	3.98839E 01	4.86637E 02	
40.70	8.73531E-01	3.89319E 01	3.50599E 00	-9.94300E-04	-3.39460E 00	3.99872E 01	4.87397E 02	
40.80	8.73527E-01	3.90346E 01	3.52540E 00	-9.93766E-04	-3.41380E 00	4.00905E 01	4.88162E 02	
40.90	8.73524E-01	3.91374E 01	3.54488E 00	-9.93223E-04	-3.43306E 00	4.01938E 01	4.88929E 02	
41.00	8.73520E-01	3.92401E 01	3.56441E 00	-9.92678E-04	-3.45238E 00	4.02972E 01	4.89696E 02	
41.10	8.73516E-01	3.93430E 01	3.58400E 00	-9.92108E-04	-3.47176E 00	4.04006E 01	4.90467E 02	
41.20	8.73512E-01	3.94458E 01	3.60364E 00	-9.91538E-04	-3.49120E 00	4.05041E 01	4.91239E 02	
41.30	8.73508E-01	3.95488E 01	3.62335E 00	-9.90949E-04	-3.51069E 00	4.06076E 01	4.92014E 02	
41.40	8.73504E-01	3.96517E 01	3.64311E 00	-9.90347E-04	-3.53025E 00	4.07111E 01	4.92791E 02	
41.50	8.73500E-01	3.97547E 01	3.66293E 00	-9.89746E-04	-3.54986E 00	4.08147E 01	4.93569E 02	
41.60	8.73496E-01	3.98578E 01	3.68282E 00	-9.89127E-04	-3.56953E 00	4.09184E 01	4.94349E 02	
41.70	8.73492E-01	3.99609E 01	3.70276E 00	-9.88502E-04	-3.58926E 00	4.10221E 01	4.95131E 02	
41.80	8.73489E-01	4.00640E 01	3.72275E 00	-9.87863E-04	-3.60905E 00	4.11258E 01	4.95916E 02	
41.90	8.73485E-01	4.01672E 01	3.74281E 00	-9.87212E-04	-3.62890E 00	4.12296E 01	4.96703E 02	
42.00	8.73481E-01	4.02704E 01	3.76293E 00	-9.86549E-04	-3.64881E 00	4.13334E 01	4.97493E 02	

## ELECTRON RADIAL FUNCTIONS

$\rho$	$Z=6 \quad A=12 \quad \rho=1.3 A^{1/3} F$								Positron
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$		
36.10	1.87740E-03	3.07821E 00	1.45512E-01	-3.27542E 01	-1.39829E-01	3.16470E 00	2.99232E-02		
36.20	1.88781E-03	3.09532E 00	1.46800E-01	-3.27551E 01	-1.41088E-01	3.18205E 00	2.99240E-02		
36.30	1.89825E-03	3.11248E 00	1.48096E-01	-3.27561E 01	-1.42355E-01	3.19945E 00	2.99248E-02		
36.40	1.90872E-03	3.12969E 00	1.49399E-01	-3.27570E 01	-1.43629E-01	3.21689E 00	2.99255E-02		
36.50	1.91922E-03	3.14694E 00	1.50710E-01	-3.27580E 01	-1.44910E-01	3.23438E 00	2.99263E-02		
36.60	1.92974E-03	3.16425E 00	1.52028E-01	-3.27589E 01	-1.46199E-01	3.25192E 00	2.99271E-02		
36.70	1.94030E-03	3.18159E 00	1.53354E-01	-3.27599E 01	-1.47496E-01	3.26950E 00	2.99278E-02		
36.80	1.95088E-03	3.19899E 00	1.54688E-01	-3.27608E 01	-1.48800E-01	3.28714E 00	2.99286E-02		
36.90	1.96149E-03	3.21643E 00	1.56029E-01	-3.27617E 01	-1.50112E-01	3.30481E 00	2.99293E-02		
37.00	1.97213E-03	3.23391E 00	1.57378E-01	-3.27626E 01	-1.51431E-01	3.32254E 00	2.99301E-02		
37.10	1.98280E-03	3.25145E 00	1.58735E-01	-3.27635E 01	-1.52758E-01	3.34031E 00	2.99308E-02		
37.20	1.99350E-03	3.26902E 00	1.60099E-01	-3.27645E 01	-1.54093E-01	3.35813E 00	2.99316E-02		
37.30	2.00423E-03	3.28665E 00	1.61471E-01	-3.27654E 01	-1.55435E-01	3.37599E 00	2.99323E-02		
37.40	2.01499E-03	3.30432E 00	1.62851E-01	-3.27662E 01	-1.56785E-01	3.39390E 00	2.99331E-02		
37.50	2.02577E-03	3.32204E 00	1.64239E-01	-3.27671E 01	-1.58143E-01	3.41186E 00	2.99338E-02		
37.60	2.03659E-03	3.33981E 00	1.65634E-01	-3.27680E 01	-1.59509E-01	3.42986E 00	2.99345E-02		
37.70	2.04743E-03	3.35762E 00	1.67038E-01	-3.27689E 01	-1.60882E-01	3.44791E 00	2.99352E-02		
37.80	2.05830E-03	3.37548E 00	1.68449E-01	-3.27698E 01	-1.62263E-01	3.46601E 00	2.99360E-02		
37.90	2.06920E-03	3.39339E 00	1.69868E-01	-3.27707E 01	-1.63652E-01	3.48415E 00	2.99367E-02		
38.00	2.08013E-03	3.41134E 00	1.71295E-01	-3.27715E 01	-1.65048E-01	3.50234E 00	2.99374E-02		
38.10	2.09109E-03	3.42934E 00	1.72730E-01	-3.27724E 01	-1.66453E-01	3.52057E 00	2.99381E-02		
38.20	2.10207E-03	3.44738E 00	1.74173E-01	-3.27733E 01	-1.67865E-01	3.53886E 00	2.99388E-02		
38.30	2.11309E-03	3.46547E 00	1.75624E-01	-3.27741E 01	-1.69286E-01	3.55718E 00	2.99395E-02		
38.40	2.12413E-03	3.48361E 00	1.77082E-01	-3.27749E 01	-1.70714E-01	3.57556E 00	2.99402E-02		
38.50	2.13521E-03	3.50179E 00	1.78549E-01	-3.27758E 01	-1.72150E-01	3.59398E 00	2.99409E-02		
38.60	2.14631E-03	3.52002E 00	1.80024E-01	-3.27766E 01	-1.73594E-01	3.61245E 00	2.99416E-02		
38.70	2.15744E-03	3.53830E 00	1.81507E-01	-3.27775E 01	-1.75046E-01	3.63096E 00	2.99423E-02		
38.80	2.16860E-03	3.55662E 00	1.82998E-01	-3.27783E 01	-1.76506E-01	3.64952E 00	2.99430E-02		
38.90	2.17978E-03	3.57499E 00	1.84497E-01	-3.27791E 01	-1.77974E-01	3.66813E 00	2.99437E-02		
39.00	2.19100E-03	3.59341E 00	1.86004E-01	-3.27799E 01	-1.79450E-01	3.68678E 00	2.99443E-02		
39.10	2.20225E-03	3.61187E 00	1.87519E-01	-3.27808E 01	-1.80935E-01	3.70548E 00	2.99450E-02		
39.20	2.21352E-03	3.63038E 00	1.89043E-01	-3.27816E 01	-1.82427E-01	3.72423E 00	2.99457E-02		
39.30	2.22482E-03	3.64894E 00	1.90574E-01	-3.27824E 01	-1.83927E-01	3.74302E 00	2.99464E-02		
39.40	2.23616E-03	3.66754E 00	1.92114E-01	-3.27832E 01	-1.85436E-01	3.76186E 00	2.99470E-02		
39.50	2.24752E-03	3.68618E 00	1.93662E-01	-3.27840E 01	-1.86952E-01	3.78074E 00	2.99477E-02		
39.60	2.25891E-03	3.70488E 00	1.95219E-01	-3.27848E 01	-1.88477E-01	3.79968E 00	2.99484E-02		
39.70	2.27032E-03	3.72362E 00	1.96783E-01	-3.27856E 01	-1.90010E-01	3.81865E 00	2.99490E-02		
39.80	2.28177E-03	3.74241E 00	1.98356E-01	-3.27864E 01	-1.91551E-01	3.83768E 00	2.99497E-02		
39.90	2.29325E-03	3.76124E 00	1.99937E-01	-3.27871E 01	-1.93101E-01	3.85675E 00	2.99503E-02		
40.00	2.30475E-03	3.78012E 00	2.01526E-01	-3.27879E 01	-1.94659E-01	3.87586E 00	2.99510E-02		
40.10	2.31628E-03	3.79904E 00	2.03124E-01	-3.27887E 01	-1.96224E-01	3.89503E 00	2.99516E-02		
40.20	2.32784E-03	3.81802E 00	2.04730E-01	-3.27895E 01	-1.97799E-01	3.91423E 00	2.99523E-02		
40.30	2.33944E-03	3.83703E 00	2.06345E-01	-3.27902E 01	-1.99381E-01	3.93349E 00	2.99529E-02		
40.40	2.35106E-03	3.85610E 00	2.07968E-01	-3.27910E 01	-2.00972E-01	3.95279E 00	2.99535E-02		
40.50	2.36270E-03	3.87521E 00	2.09599E-01	-3.27918E 01	-2.02572E-01	3.97214E 00	2.99542E-02		
40.60	2.37438E-03	3.89437E 00	2.11239E-01	-3.27925E 01	-2.04179E-01	3.99153E 00	2.99548E-02		
40.70	2.38609E-03	3.91357E 00	2.12887E-01	-3.27933E 01	-2.05795E-01	4.01097E 00	2.99554E-02		
40.80	2.39782E-03	3.93282E 00	2.14544E-01	-3.27940E 01	-2.07420E-01	4.03046E 00	2.99560E-02		
40.90	2.40958E-03	3.95211E 00	2.16210E-01	-3.27948E 01	-2.09053E-01	4.04999E 00	2.99567E-02		
41.00	2.42138E-03	3.97145E 00	2.17883E-01	-3.27955E 01	-2.10694E-01	4.06957E 00	2.99573E-02		
41.10	2.43320E-03	3.99084E 00	2.19566E-01	-3.27962E 01	-2.12344E-01	4.08919E 00	2.99579E-02		
41.20	2.44505E-03	4.01027E 00	2.21257E-01	-3.27970E 01	-2.14002E-01	4.10886E 00	2.99585E-02		
41.30	2.45692E-03	4.02975E 00	2.22956E-01	-3.27977E 01	-2.15669E-01	4.12858E 00	2.99591E-02		
41.40	2.46883E-03	4.04928E 00	2.24665E-01	-3.27984E 01	-2.17345E-01	4.14834E 00	2.99597E-02		
41.50	2.48077E-03	4.06885E 00	2.26382E-01	-3.27991E 01	-2.19029E-01	4.16815E 00	2.99603E-02		
41.60	2.49273E-03	4.08847E 00	2.28107E-01	-3.27999E 01	-2.20722E-01	4.18800E 00	2.99610E-02		
41.70	2.50473E-03	4.10813E 00	2.29841E-01	-3.28006E 01	-2.22423E-01	4.20791E 00	2.99616E-02		
41.80	2.51675E-03	4.12784E 00	2.31584E-01	-3.28013E 01	-2.24133E-01	4.22785E 00	2.99622E-02		
41.90	2.52880E-03	4.14760E 00	2.33336E-01	-3.28020E 01	-2.25851E-01	4.24785E 00	2.99627E-02		
42.00	2.54088E-03	4.16740E 00	2.35096E-01	-3.28027E 01	-2.27579E-01	4.26788E 00	2.99633E-02		



## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 7$	$A = 14$	$\rho = 1.3 A^{1/3} F$				
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
0.10	1.36495E-01	2.91453E-03	-4.37557E-05	2.30203E-01	1.06550E-03	5.21717E-02	3.98269E 00
0.20	4.03980E-01	1.82732E-02	-2.73602E-04	1.11060E-01	3.64567E-03	1.78859E-01	7.12425E 00
0.30	5.54442E-01	4.65266E-02	-6.93586E-04	7.38208E-02	6.34914E-03	3.12498E-01	1.04984E 01
0.40	6.41720E-01	8.63893E-02	-1.28012E-03	5.53965E-02	8.99940E-03	4.44897E-01	1.39278E 01
0.50	6.96734E-01	1.36319E-01	-2.00484E-03	4.43434E-02	1.15541E-02	5.74344E-01	1.73737E 01
0.60	7.33678E-01	1.94729E-01	-2.83851E-03	3.69484E-02	1.39976E-02	7.00342E-01	2.08178E 01
0.70	7.59675E-01	2.60124E-01	-3.75342E-03	3.16391E-02	1.63245E-02	8.22834E-01	2.42490E 01
0.80	7.78633E-01	3.31177E-01	-4.72492E-03	2.76336E-02	1.85355E-02	9.41985E-01	2.76595E 01
0.90	7.92852E-01	4.06756E-01	-5.73196E-03	2.44993E-02	2.06342E-02	1.05806E 00	3.10438E 01
1.00	8.03764E-01	4.85932E-01	-6.75717E-03	2.19766E-02	2.26259E-02	1.17138E 00	3.43977E 01
1.10	8.12301E-01	5.67953E-01	-7.78645E-03	1.99004E-02	2.45165E-02	1.28227E 00	3.77185E 01
1.20	8.19090E-01	6.52219E-01	-8.80858E-03	1.81606E-02	2.63119E-02	1.39102E 00	4.10041E 01
1.30	8.24566E-01	7.38261E-01	-9.81466E-03	1.66806E-02	2.80175E-02	1.49792E 00	4.42532E 01
1.40	8.29037E-01	8.25705E-01	-1.07977E-02	1.54059E-02	2.96384E-02	1.60322E 00	4.74648E 01
1.50	8.32729E-01	9.14263E-01	-1.17521E-02	1.42960E-02	3.11791E-02	1.70713E 00	5.06384E 01
1.60	8.35807E-01	1.00371E 00	-1.26737E-02	1.33207E-02	3.26434E-02	1.80983E 00	5.37738E 01
1.70	8.38396E-01	1.09386E 00	-1.35589E-02	1.24568E-02	3.40348E-02	1.91149E 00	5.68710E 01
1.80	8.40591E-01	1.18457E 00	-1.44051E-02	1.16860E-02	3.53561E-02	2.01225E 00	5.99302E 01
1.90	8.42466E-01	1.27575E 00	-1.52102E-02	1.09940E-02	3.66099E-02	2.11223E 00	6.29515E 01
2.00	8.44076E-01	1.36729E 00	-1.59724E-02	1.03692E-02	3.77984E-02	2.21151E 00	6.59352E 01
2.10	8.45468E-01	1.45912E 00	-1.66905E-02	9.80229E-03	3.89233E-02	2.31020E 00	6.88819E 01
2.20	8.46679E-01	1.55120E 00	-1.73632E-02	9.28550E-03	3.99863E-02	2.40836E 00	7.17920E 01
2.30	8.47736E-01	1.64348E 00	-1.79898E-02	8.81245E-03	4.09888E-02	2.50606E 00	7.46659E 01
2.40	8.48663E-01	1.73592E 00	-1.85695E-02	8.37779E-03	4.19319E-02	2.60335E 00	7.75042E 01
2.50	8.49481E-01	1.82849E 00	-1.91018E-02	7.97703E-03	4.28167E-02	2.70028E 00	8.03074E 01
2.60	8.50204E-01	1.92117E 00	-1.95861E-02	7.60633E-03	4.36441E-02	2.79688E 00	8.30761E 01
2.70	8.50846E-01	2.01394E 00	-2.00222E-02	7.26244E-03	4.44148E-02	2.89320E 00	8.58109E 01
2.80	8.51418E-01	2.10678E 00	-2.04096E-02	6.94252E-03	4.51294E-02	2.98927E 00	8.85122E 01
2.90	8.51929E-01	2.19969E 00	-2.07481E-02	6.64417E-03	4.57887E-02	3.08511E 00	9.11806E 01
3.00	8.52387E-01	2.29265E 00	-2.10375E-02	6.36528E-03	4.63931E-02	3.18074E 00	9.38168E 01
3.10	8.52798E-01	2.38564E 00	-2.12776E-02	6.10398E-03	4.69430E-02	3.27619E 00	9.64212E 01
3.20	8.53168E-01	2.47868E 00	-2.14682E-02	5.85868E-03	4.74389E-02	3.37147E 00	9.89946E 01
3.30	8.53503E-01	2.57174E 00	-2.16093E-02	5.62794E-03	4.78811E-02	3.46660E 00	1.01537E 02
3.40	8.53805E-01	2.66483E 00	-2.17007E-02	5.41051E-03	4.82700E-02	3.56160E 00	1.04050E 02
3.50	8.54079E-01	2.75794E 00	-2.17424E-02	5.20526E-03	4.86057E-02	3.65647E 00	1.06533E 02
3.60	8.54328E-01	2.85106E 00	-2.17342E-02	5.01121E-03	4.88886E-02	3.75124E 00	1.08987E 02
3.70	8.54554E-01	2.94420E 00	-2.16761E-02	4.82746E-03	4.91189E-02	3.84590E 00	1.11412E 02
3.80	8.54759E-01	3.03735E 00	-2.15680E-02	4.65321E-03	4.92968E-02	3.94047E 00	1.13809E 02
3.90	8.54947E-01	3.13051E 00	-2.14099E-02	4.48774E-03	4.94223E-02	4.03496E 00	1.16179E 02
4.00	8.55119E-01	3.22368E 00	-2.12018E-02	4.33041E-03	4.94958E-02	4.12937E 00	1.18522E 02
4.10	8.55275E-01	3.31686E 00	-2.09436E-02	4.18063E-03	4.95174E-02	4.22371E 00	1.20838E 02
4.20	8.55418E-01	3.41005E 00	-2.06353E-02	4.03788E-03	4.94871E-02	4.31798E 00	1.23128E 02
4.30	8.55549E-01	3.50324E 00	-2.02768E-02	3.90167E-03	4.94051E-02	4.41220E 00	1.25392E 02
4.40	8.55669E-01	3.59644E 00	-1.98681E-02	3.77156E-03	4.92715E-02	4.50637E 00	1.27631E 02
4.50	8.55779E-01	3.68964E 00	-1.94093E-02	3.64715E-03	4.90863E-02	4.60048E 00	1.29846E 02
4.60	8.55881E-01	3.78284E 00	-1.89002E-02	3.52809E-03	4.88498E-02	4.69456E 00	1.32036E 02
4.70	8.55974E-01	3.87605E 00	-1.83409E-02	3.41402E-03	4.85619E-02	4.78859E 00	1.34202E 02
4.80	8.56059E-01	3.96926E 00	-1.77314E-02	3.30465E-03	4.82227E-02	4.88258E 00	1.36344E 02
4.90	8.56137E-01	4.06248E 00	-1.70716E-02	3.19969E-03	4.78323E-02	4.97654E 00	1.38463E 02
5.00	8.56210E-01	4.15570E 00	-1.63616E-02	3.09888E-03	4.73908E-02	5.07047E 00	1.40560E 02
5.10	8.56275E-01	4.24892E 00	-1.56012E-02	3.00198E-03	4.68981E-02	5.16437E 00	1.42634E 02
5.20	8.56336E-01	4.34215E 00	-1.47906E-02	2.90877E-03	4.63543E-02	5.25824E 00	1.44687E 02
5.30	8.56392E-01	4.43538E 00	-1.39297E-02	2.81905E-03	4.57596E-02	5.35209E 00	1.46718E 02
5.40	8.56443E-01	4.52862E 00	-1.30185E-02	2.73261E-03	4.51139E-02	5.44592E 00	1.48727E 02
5.50	8.56490E-01	4.62186E 00	-1.20570E-02	2.64929E-03	4.44172E-02	5.53973E 00	1.50716E 02
5.60	8.56533E-01	4.71510E 00	-1.10451E-02	2.56894E-03	4.36696E-02	5.63352E 00	1.52684E 02
5.70	8.56573E-01	4.80834E 00	-9.98293E-03	2.49136E-03	4.28711E-02	5.72730E 00	1.54632E 02
5.80	8.56609E-01	4.90159E 00	-8.87040E-03	2.41646E-03	4.20218E-02	5.82106E 00	1.56561E 02
5.90	8.56642E-01	4.99485E 00	-7.70752E-03	2.34407E-03	4.11216E-02	5.91481E 00	1.58469E 02
6.00	8.56672E-01	5.08810E 00	-6.49429E-03	2.27407E-03	4.01706E-02	6.00854E 00	1.60359E 02

## ELECTRON RADIAL FUNCTIONS

$$Z = 7 \quad A = 14 \quad \rho = 1.3 A^{1/3} F$$

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	3.12030E-09	8.07554E-07	-6.80183E-09	-1.93299E 00	1.84135E-07	1.57805E-05	2.31355E-01
0.20	3.12339E-08	9.91894E-06	-8.33062E-08	-4.07750E 00	1.15853E-06	9.94916E-05	1.13974E-01
0.30	9.32175E-08	3.77379E-05	-3.15466E-07	-6.06943E 00	2.97479E-06	2.56334E-04	7.85227E-02
0.40	1.89513E-07	9.33097E-05	-7.75014E-07	-7.92500E 00	5.58702E-06	4.83660E-04	6.18327E-02
0.50	3.19736E-07	1.83951E-04	-1.51562E-06	-9.63454E 00	8.93907E-06	7.78326E-04	5.24336E-02
0.60	4.83418E-07	3.15245E-04	-2.57275E-06	-1.11927E 01	1.29719E-05	1.13720E-03	4.65986E-02
0.70	6.80136E-07	4.91236E-04	-3.96561E-06	-1.26008E 01	1.76276E-05	1.55742E-03	4.27492E-02
0.80	9.09537E-07	7.14715E-04	-5.70012E-06	-1.38656E 01	2.28519E-05	2.03651E-03	4.01026E-02
0.90	1.17134E-06	9.87522E-04	-7.77209E-06	-1.49972E 01	2.85953E-05	2.57244E-03	3.82283E-02
1.00	1.46530E-06	1.31081E-03	-1.01700E-05	-1.60074E 01	3.48127E-05	3.16357E-03	3.68714E-02
1.10	1.79126E-06	1.68527E-03	-1.28772E-05	-1.69088E 01	4.14635E-05	3.80861E-03	3.58726E-02
1.20	2.14907E-06	2.11126E-03	-1.58737E-05	-1.77135E 01	4.85104E-05	4.50660E-03	3.51280E-02
1.30	2.53862E-06	2.58895E-03	-1.91372E-05	-1.84327E 01	5.59192E-05	5.25676E-03	3.45678E-02
1.40	2.95982E-06	3.11837E-03	-2.26440E-05	-1.90768E 01	6.36582E-05	6.05854E-03	3.41435E-02
1.50	3.41261E-06	3.69948E-03	-2.63695E-05	-1.96550E 01	7.16972E-05	6.91152E-03	3.38211E-02
1.60	3.89693E-06	4.33221E-03	-3.02888E-05	-2.01754E 01	8.00074E-05	7.81536E-03	3.35758E-02
1.70	4.41273E-06	5.01645E-03	-3.43764E-05	-2.06450E 01	8.85613E-05	8.76983E-03	3.33896E-02
1.80	4.95998E-06	5.75208E-03	-3.86070E-05	-2.10700E 01	9.73320E-05	9.77474E-03	3.32490E-02
1.90	5.53865E-06	6.53899E-03	-4.29551E-05	-2.14558E 01	1.06293E-04	1.08300E-02	3.31440E-02
2.00	6.14872E-06	7.37708E-03	-4.73952E-05	-2.18070E 01	1.15419E-04	1.19354E-02	3.30670E-02
2.10	6.79017E-06	8.26625E-03	-5.19021E-05	-2.21276E 01	1.24685E-04	1.30910E-02	3.30120E-02
2.20	7.46298E-06	9.20640E-03	-5.64504E-05	-2.24210E 01	1.34065E-04	1.42967E-02	3.29745E-02
2.30	8.16713E-06	1.01974E-02	-6.10148E-05	-2.26903E 01	1.43533E-04	1.55524E-02	3.29508E-02
2.40	8.90262E-06	1.12393E-02	-6.55702E-05	-2.29381E 01	1.53067E-04	1.68582E-02	3.29382E-02
2.50	9.66944E-06	1.23319E-02	-7.00916E-05	-2.31667E 01	1.62640E-04	1.82140E-02	3.29345E-02
2.60	1.04676E-05	1.34752E-02	-7.45539E-05	-2.33781E 01	1.72228E-04	1.96197E-02	3.29378E-02
2.70	1.12970E-05	1.46692E-02	-7.89323E-05	-2.35740E 01	1.81806E-04	2.10755E-02	3.29468E-02
2.80	1.21578E-05	1.59137E-02	-8.32017E-05	-2.37559E 01	1.91351E-04	2.25812E-02	3.29603E-02
2.90	1.30498E-05	1.72088E-02	-8.73374E-05	-2.39253E 01	2.00837E-04	2.41368E-02	3.29774E-02
3.00	1.39732E-05	1.85543E-02	-9.13146E-05	-2.40832E 01	2.10241E-04	2.57425E-02	3.29973E-02
3.10	1.49278E-05	1.99504E-02	-9.51084E-05	-2.42308E 01	2.19537E-04	2.73981E-02	3.30195E-02
3.20	1.59137E-05	2.13968E-02	-9.86944E-05	-2.43690E 01	2.28702E-04	2.91037E-02	3.30434E-02
3.30	1.69309E-05	2.28937E-02	-1.02048E-04	-2.44985E 01	2.37711E-04	3.08593E-02	3.30686E-02
3.40	1.79794E-05	2.44409E-02	-1.05144E-04	-2.46202E 01	2.46540E-04	3.26648E-02	3.30948E-02
3.50	1.90592E-05	2.60385E-02	-1.07958E-04	-2.47347E 01	2.55164E-04	3.45204E-02	3.31217E-02
3.60	2.01702E-05	2.76864E-02	-1.10465E-04	-2.48426E 01	2.63559E-04	3.64259E-02	3.31491E-02
3.70	2.13125E-05	2.93846E-02	-1.12642E-04	-2.49445E 01	2.71700E-04	3.83814E-02	3.31768E-02
3.80	2.24861E-05	3.11331E-02	-1.14462E-04	-2.50407E 01	2.79564E-04	4.03870E-02	3.32047E-02
3.90	2.36909E-05	3.29318E-02	-1.15903E-04	-2.51318E 01	2.87126E-04	4.24425E-02	3.32326E-02
4.00	2.49270E-05	3.47809E-02	-1.16939E-04	-2.52181E 01	2.94361E-04	4.45480E-02	3.32604E-02
4.10	2.61944E-05	3.66801E-02	-1.17545E-04	-2.52999E 01	3.01246E-04	4.67035E-02	3.32880E-02
4.20	2.74930E-05	3.86296E-02	-1.17698E-04	-2.53777E 01	3.07756E-04	4.89090E-02	3.33155E-02
4.30	2.88229E-05	4.06293E-02	-1.17373E-04	-2.54516E 01	3.13866E-04	5.11646E-02	3.33426E-02
4.40	3.01840E-05	4.26792E-02	-1.16545E-04	-2.55220E 01	3.19553E-04	5.34702E-02	3.33694E-02
4.50	3.15764E-05	4.47793E-02	-1.15190E-04	-2.55891E 01	3.24791E-04	5.58257E-02	3.33959E-02
4.60	3.30001E-05	4.69296E-02	-1.13283E-04	-2.56531E 01	3.29557E-04	5.82313E-02	3.34220E-02
4.70	3.44550E-05	4.91300E-02	-1.10799E-04	-2.57142E 01	3.33826E-04	6.06870E-02	3.34476E-02
4.80	3.59411E-05	5.13806E-02	-1.07716E-04	-2.57726E 01	3.37574E-04	6.31926E-02	3.34729E-02
4.90	3.74585E-05	5.36813E-02	-1.04007E-04	-2.58285E 01	3.40776E-04	6.57483E-02	3.34977E-02
5.00	3.90072E-05	5.60321E-02	-9.96490E-05	-2.58820E 01	3.43409E-04	6.83541E-02	3.35221E-02
5.10	4.05871E-05	5.84331E-02	-9.46169E-05	-2.59332E 01	3.45447E-04	7.10098E-02	3.35460E-02
5.20	4.21983E-05	6.08841E-02	-8.88867E-05	-2.59824E 01	3.46867E-04	7.37157E-02	3.35695E-02
5.30	4.38407E-05	6.33852E-02	-8.24337E-05	-2.60296E 01	3.47644E-04	7.64715E-02	3.35925E-02
5.40	4.55143E-05	6.59364E-02	-7.52336E-05	-2.60749E 01	3.47754E-04	7.92774E-02	3.36151E-02
5.50	4.72193E-05	6.85376E-02	-6.72621E-05	-2.61185E 01	3.47172E-04	8.21334E-02	3.36372E-02
5.60	4.89554E-05	7.11887E-02	-5.84945E-05	-2.61604E 01	3.45873E-04	8.50393E-02	3.36589E-02
5.70	5.07228E-05	7.38897E-02	-4.89067E-05	-2.62007E 01	3.43835E-04	8.79954E-02	3.36802E-02
5.80	5.25214E-05	7.66407E-02	-3.84743E-05	-2.62396E 01	3.41032E-04	9.10015E-02	3.37010E-02
5.90	5.43513E-05	7.94412E-02	-2.71730E-05	-2.62770E 01	3.37439E-04	9.40576E-02	3.37214E-02
6.00	5.62124E-05	8.22915E-02	-1.49786E-05	-2.63132E 01	3.33034E-04	9.71638E-02	3.37414E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=7$		$A=14$		$\rho=1.3 A^{1/3} F$		
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
6.10	8.56700E-01	5.18136E 00	-5.23068E-03	2.20637E-03	3.91688E-02	6.10227E 00	1.62230E 02
6.20	8.56726E-01	5.27463E 00	-3.91672E-03	2.14083E-03	3.81163E-02	6.19599E 00	1.64082E 02
6.30	8.56748E-01	5.36790E 00	-2.55238E-03	2.07736E-03	3.70129E-02	6.28970E 00	1.65916E 02
6.40	8.56769E-01	5.46117E 00	-1.13766E-03	2.01588E-03	3.58589E-02	6.38340E 00	1.67732E 02
6.50	8.56787E-01	5.55444E 00	3.27454E-04	1.95627E-03	3.46540E-02	6.47710E 00	1.69530E 02
6.60	8.56804E-01	5.64772E 00	1.84296E-03	1.89846E-03	3.33985E-02	6.57079E 00	1.71311E 02
6.70	8.56819E-01	5.74101E 00	3.40887E-03	1.84239E-03	3.20922E-02	6.66448E 00	1.73075E 02
6.80	8.56833E-01	5.83429E 00	5.02518E-03	1.78796E-03	3.07353E-02	6.75817E 00	1.74822E 02
6.90	8.56845E-01	5.92758E 00	6.69190E-03	1.73511E-03	2.93276E-02	6.85185E 00	1.76552E 02
7.00	8.56856E-01	6.02087E 00	8.40903E-03	1.68376E-03	2.78692E-02	6.94554E 00	1.78267E 02
7.10	8.56865E-01	6.11416E 00	1.01766E-02	1.63386E-03	2.63602E-02	7.03922E 00	1.79965E 02
7.20	8.56872E-01	6.20745E 00	1.19945E-02	1.58535E-03	2.48004E-02	7.13290E 00	1.81647E 02
7.30	8.56880E-01	6.30073E 00	1.38629E-02	1.53817E-03	2.31900E-02	7.22659E 00	1.83314E 02
7.40	8.56885E-01	6.39402E 00	1.57817E-02	1.49228E-03	2.15288E-02	7.32027E 00	1.84966E 02
7.50	8.56889E-01	6.48729E 00	1.77509E-02	1.44759E-03	1.98170E-02	7.41395E 00	1.86603E 02
7.60	8.56893E-01	6.58054E 00	1.97704E-02	1.40410E-03	1.80545E-02	7.50764E 00	1.88224E 02
7.70	8.56896E-01	6.67376E 00	2.18403E-02	1.36174E-03	1.62413E-02	7.60133E 00	1.89832E 02
7.80	8.56898E-01	6.76696E 00	2.39604E-02	1.32048E-03	1.43774E-02	7.69503E 00	1.91425E 02
7.90	8.56900E-01	6.86006E 00	2.61306E-02	1.28026E-03	1.24628E-02	7.78873E 00	1.93004E 02
8.00	8.56900E-01	6.95301E 00	2.83504E-02	1.24106E-03	1.04976E-02	7.88243E 00	1.94569E 02
8.10	8.56900E-01	7.04567E 00	3.06193E-02	1.20283E-03	8.48161E-03	7.97614E 00	1.96120E 02
8.20	8.56899E-01	7.13751E 00	3.29345E-02	1.16553E-03	6.41496E-03	8.06986E 00	1.97658E 02
8.30	8.56898E-01	7.22563E 00	3.52812E-02	1.12916E-03	4.29759E-03	8.16358E 00	1.99183E 02
8.40	8.56895E-01	7.38302E 00	3.80324E-02	1.09365E-03	2.12952E-03	8.25731E 00	2.00695E 02
8.50	8.56893E-01	7.42963E 00	4.02680E-02	1.05899E-03	-8.92667E-05	8.35104E 00	2.02193E 02
8.60	8.56890E-01	7.51974E 00	4.27765E-02	1.02514E-03	-2.35877E-03	8.44478E 00	2.03680E 02
8.70	8.56886E-01	7.61196E 00	4.53462E-02	9.92079E-04	-4.67900E-03	8.53853E 00	2.05153E 02
8.80	8.56882E-01	7.70484E 00	4.79699E-02	9.59780E-04	-7.04997E-03	8.63228E 00	2.06615E 02
8.90	8.56878E-01	7.79793E 00	5.06453E-02	9.28220E-04	-9.47167E-03	8.72605E 00	2.08064E 02
9.00	8.56873E-01	7.89118E 00	5.33720E-02	8.97360E-04	-1.19441E-02	8.81982E 00	2.09501E 02
9.10	8.56867E-01	7.98451E 00	5.61498E-02	8.67204E-04	-1.44673E-02	8.91360E 00	2.10928E 02
9.20	8.56862E-01	8.07790E 00	5.89784E-02	8.37702E-04	-1.70413E-02	9.00739E 00	2.12341E 02
9.30	8.56856E-01	8.17132E 00	6.18579E-02	8.08854E-04	-1.96660E-02	9.10119E 00	2.13744E 02
9.40	8.56849E-01	8.26479E 00	6.47881E-02	7.80631E-04	-2.23415E-02	9.19500E 00	2.15136E 02
9.50	8.56843E-01	8.35827E 00	6.77691E-02	7.53015E-04	-2.50679E-02	9.28882E 00	2.16517E 02
9.60	8.56836E-01	8.45179E 00	7.08009E-02	7.25977E-04	-2.78450E-02	9.38265E 00	2.17886E 02
9.70	8.56829E-01	8.54532E 00	7.38835E-02	6.99513E-04	-3.06729E-02	9.47649E 00	2.19245E 02
9.80	8.56821E-01	8.63887E 00	7.70168E-02	6.73602E-04	-3.35516E-02	9.57033E 00	2.20594E 02
9.90	8.56813E-01	8.73244E 00	8.02008E-02	6.48226E-04	-3.64812E-02	9.66420E 00	2.21932E 02
10.00	8.56805E-01	8.82603E 00	8.34358E-02	6.23378E-04	-3.94616E-02	9.75807E 00	2.23260E 02
10.10	8.56797E-01	8.91964E 00	8.67214E-02	5.99029E-04	-4.24928E-02	9.85195E 00	2.24578E 02
10.20	8.56789E-01	9.01325E 00	9.00578E-02	5.75170E-04	-4.55749E-02	9.94585E 00	2.25886E 02
10.30	8.56781E-01	9.10689E 00	9.34451E-02	5.51793E-04	-4.87079E-02	1.00398E 01	2.27184E 02
10.40	8.56772E-01	9.20054E 00	9.68832E-02	5.28863E-04	-5.18918E-02	1.01337E 01	2.28472E 02
10.50	8.56763E-01	9.29421E 00	1.00372E-01	5.06401E-04	-5.51265E-02	1.02276E 01	2.29752E 02
10.60	8.56755E-01	9.38788E 00	1.03912E-01	4.84363E-04	-5.84122E-02	1.03216E 01	2.31021E 02
10.70	8.56746E-01	9.48158E 00	1.07502E-01	4.62761E-04	-6.17488E-02	1.04155E 01	2.32282E 02
10.80	8.56736E-01	9.57529E 00	1.11144E-01	4.41572E-04	-6.51364E-02	1.05095E 01	2.33533E 02
10.90	8.56727E-01	9.66901E 00	1.14836E-01	4.20782E-04	-6.85748E-02	1.06035E 01	2.34776E 02
11.00	8.56717E-01	9.76275E 00	1.18579E-01	4.00381E-04	-7.20643E-02	1.06975E 01	2.36009E 02
11.10	8.56708E-01	9.85651E 00	1.22374E-01	3.80367E-04	-7.56047E-02	1.07915E 01	2.37234E 02
11.20	8.56699E-01	9.95028E 00	1.26219E-01	3.60719E-04	-7.91961E-02	1.08855E 01	2.38450E 02
11.30	8.56689E-01	1.00441E 01	1.30115E-01	3.41441E-04	-8.28385E-02	1.09795E 01	2.39658E 02
11.40	8.56679E-01	1.01379E 01	1.34062E-01	3.22509E-04	-8.65319E-02	1.10736E 01	2.40858E 02
11.50	8.56669E-01	1.02317E 01	1.38060E-01	3.03926E-04	-9.02764E-02	1.11677E 01	2.42049E 02
11.60	8.56659E-01	1.03255E 01	1.42108E-01	2.85666E-04	-9.40718E-02	1.12617E 01	2.43232E 02
11.70	8.56649E-01	1.04193E 01	1.46208E-01	2.67749E-04	-9.79184E-02	1.13558E 01	2.44408E 02
11.80	8.56639E-01	1.05132E 01	1.50359E-01	2.50139E-04	-1.01816E-01	1.14499E 01	2.45575E 02
11.90	8.56629E-01	1.06071E 01	1.54561E-01	2.32847E-04	-1.05765E-01	1.15441E 01	2.46735E 02
12.00	8.56619E-01	1.07009E 01	1.58814E-01	2.15847E-04	-1.09765E-01	1.16382E 01	2.47886E 02

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$        $A = 14$        $\rho = 1.3 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	5.81048E-05	8.51911E-02	-1.86674E-06	-2.63480E 01	3.27790E-04	1.00320E-01	3.37610E-02
6.20	6.00283E-05	8.81398E-02	1.21863E-05	-2.63817E 01	3.21684E-04	1.03526E-01	3.37802E-02
6.30	6.19832E-05	9.11364E-02	2.72042E-05	-2.64142E 01	3.14692E-04	1.06783E-01	3.37990E-02
6.40	6.39692E-05	9.41798E-02	4.32098E-05	-2.64456E 01	3.06788E-04	1.10089E-01	3.38175E-02
6.50	6.59865E-05	9.72676E-02	6.02245E-05	-2.64760E 01	2.97949E-04	1.13446E-01	3.38355E-02
6.60	6.80351E-05	1.00387E-01	7.82599E-05	-2.65054E 01	2.88151E-04	1.16852E-01	3.38532E-02
6.70	7.01148E-05	1.03488E-01	9.72842E-05	-2.65339E 01	2.77369E-04	1.20309E-01	3.38706E-02
6.80	7.22258E-05	1.12409E-01	1.23715E-04	-2.65615E 01	2.65578E-04	1.23815E-01	3.38876E-02
6.90	7.43681E-05	1.10438E-01	1.39280E-04	-2.65882E 01	2.52754E-04	1.27372E-01	3.39042E-02
7.00	7.65416E-05	1.13700E-01	1.61655E-04	-2.66142E 01	2.38873E-04	1.30979E-01	3.39205E-02
7.10	7.87463E-05	1.17073E-01	1.85261E-04	-2.66393E 01	2.23910E-04	1.34636E-01	3.39365E-02
7.20	8.09822E-05	1.20511E-01	2.10069E-04	-2.66637E 01	2.07842E-04	1.38343E-01	3.39522E-02
7.30	8.32494E-05	1.24006E-01	2.36096E-04	-2.66874E 01	1.90643E-04	1.42100E-01	3.39676E-02
7.40	8.55478E-05	1.27554E-01	2.63362E-04	-2.67104E 01	1.72290E-04	1.45907E-01	3.39827E-02
7.50	8.78774E-05	1.31155E-01	2.91889E-04	-2.67327E 01	1.52757E-04	1.49764E-01	3.39975E-02
7.60	9.02383E-05	1.34806E-01	3.21703E-04	-2.67544E 01	1.32021E-04	1.53671E-01	3.40120E-02
7.70	9.26304E-05	1.38508E-01	3.52825E-04	-2.67755E 01	1.10058E-04	1.57628E-01	3.40262E-02
7.80	9.50537E-05	1.42262E-01	3.85281E-04	-2.67961E 01	8.68417E-05	1.61636E-01	3.40401E-02
7.90	9.75083E-05	1.46065E-01	4.19095E-04	-2.68161E 01	6.23492E-05	1.65693E-01	3.40538E-02
8.00	9.99940E-05	1.49919E-01	4.54291E-04	-2.68355E 01	3.65557E-05	1.69800E-01	3.40673E-02
8.10	1.02511E-04	1.53823E-01	4.90893E-04	-2.68545E 01	9.43689E-06	1.73958E-01	3.40805E-02
8.20	1.05059E-04	1.57778E-01	5.28927E-04	-2.68729E 01	-1.90316E-05	1.78165E-01	3.40934E-02
8.30	1.07639E-04	1.61782E-01	5.68414E-04	-2.68909E 01	-4.88742E-05	1.82423E-01	3.41061E-02
8.40	1.10249E-04	1.65837E-01	6.09382E-04	-2.69084E 01	-8.01152E-05	1.86731E-01	3.41186E-02
8.50	1.12891E-04	1.69942E-01	6.51853E-04	-2.69255E 01	-1.12779E-04	1.91088E-01	3.41308E-02
8.60	1.15564E-04	1.74098E-01	6.95853E-04	-2.69421E 01	-1.46890E-04	1.95496E-01	3.41428E-02
8.70	1.18269E-04	1.78303E-01	7.41405E-04	-2.69584E 01	-1.82473E-04	1.99954E-01	3.41546E-02
8.80	1.21004E-04	1.82559E-01	7.88534E-04	-2.69743E 01	-2.19552E-04	2.04462E-01	3.41662E-02
8.90	1.23771E-04	1.86865E-01	8.37265E-04	-2.69897E 01	-2.58151E-04	2.09020E-01	3.41776E-02
9.00	1.26569E-04	1.91220E-01	8.87621E-04	-2.70048E 01	-2.98294E-04	2.13628E-01	3.41888E-02
9.10	1.29399E-04	1.95626E-01	9.39628E-04	-2.70196E 01	-3.40007E-04	2.18286E-01	3.41998E-02
9.20	1.32259E-04	2.00082E-01	9.93308E-04	-2.70340E 01	-3.83313E-04	2.22994E-01	3.42106E-02
9.30	1.35151E-04	2.04589E-01	1.04869E-03	-2.70481E 01	-4.28238E-04	2.27752E-01	3.42212E-02
9.40	1.38074E-04	2.09145E-01	1.10579E-03	-2.70619E 01	-4.74804E-04	2.32561E-01	3.42317E-02
9.50	1.41028E-04	2.13751E-01	1.16464E-03	-2.70754E 01	-5.23037E-04	2.37419E-01	3.42419E-02
9.60	1.44013E-04	2.18408E-01	1.22526E-03	-2.70885E 01	-5.72961E-04	2.42327E-01	3.42520E-02
9.70	1.47030E-04	2.23115E-01	1.28768E-03	-2.71014E 01	-6.24600E-04	2.47286E-01	3.42619E-02
9.80	1.50077E-04	2.27871E-01	1.35192E-03	-2.71140E 01	-6.77979E-04	2.52294E-01	3.42717E-02
9.90	1.53156E-04	2.32678E-01	1.41801E-03	-2.71263E 01	-7.33122E-04	2.57353E-01	3.42813E-02
10.00	1.56267E-04	2.37535E-01	1.48596E-03	-2.71384E 01	-7.90054E-04	2.62461E-01	3.42907E-02
10.10	1.59408E-04	2.42442E-01	1.55581E-03	-2.71502E 01	-8.48799E-04	2.67620E-01	3.43000E-02
10.20	1.62581E-04	2.47399E-01	1.62757E-03	-2.71618E 01	-9.09380E-04	2.72829E-01	3.43092E-02
10.30	1.65785E-04	2.52406E-01	1.70128E-03	-2.71731E 01	-9.71824E-04	2.78087E-01	3.43182E-02
10.40	1.69020E-04	2.57463E-01	1.77696E-03	-2.71842E 01	-1.03615E-03	2.83396E-01	3.43270E-02
10.50	1.72286E-04	2.62570E-01	1.85463E-03	-2.71951E 01	-1.10239E-03	2.88755E-01	3.43357E-02
10.60	1.75584E-04	2.67728E-01	1.93431E-03	-2.72057E 01	-1.17057E-03	2.94164E-01	3.43443E-02
10.70	1.78912E-04	2.72935E-01	2.01603E-03	-2.72162E 01	-1.24070E-03	2.99623E-01	3.43527E-02
10.80	1.82272E-04	2.78193E-01	2.09982E-03	-2.72264E 01	-1.31282E-03	3.05132E-01	3.43610E-02
10.90	1.85664E-04	2.83500E-01	2.18570E-03	-2.72365E 01	-1.38694E-03	3.10691E-01	3.43692E-02
11.00	1.89086E-04	2.88858E-01	2.27368E-03	-2.72463E 01	-1.46310E-03	3.16300E-01	3.43773E-02
11.10	1.92540E-04	2.94265E-01	2.36381E-03	-2.72560E 01	-1.54131E-03	3.21959E-01	3.43852E-02
11.20	1.96025E-04	2.99723E-01	2.45610E-03	-2.72655E 01	-1.62161E-03	3.27668E-01	3.43930E-02
11.30	1.99541E-04	3.05231E-01	2.55058E-03	-2.72748E 01	-1.70401E-03	3.33427E-01	3.44007E-02
11.40	2.03088E-04	3.10788E-01	2.64726E-03	-2.72839E 01	-1.78854E-03	3.39236E-01	3.44083E-02
11.50	2.06666E-04	3.16396E-01	2.74618E-03	-2.72929E 01	-1.87522E-03	3.45095E-01	3.44157E-02
11.60	2.10276E-04	3.22054E-01	2.84736E-03	-2.73017E 01	-1.96408E-03	3.51004E-01	3.44231E-02
11.70	2.13917E-04	3.27762E-01	2.95083E-03	-2.73103E 01	-2.05515E-03	3.56964E-01	3.44304E-02
11.80	2.17589E-04	3.33520E-01	3.05660E-03	-2.73188E 01	-2.14844E-03	3.62973E-01	3.44375E-02
11.90	2.21292E-04	3.39328E-01	3.16471E-03	-2.73271E 01	-2.24398E-03	3.69032E-01	3.44445E-02
12.00	2.25027E-04	3.45186E-01	3.27517E-03	-2.73353E 01	-2.34180E-03	3.75141E-01	3.44515E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=7$ $A=14$ $\rho=1.3A^{1/3}F$						
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
12.10	8.56608E-01	1.07949E 01	1.63118E-01	1.99156E-04	-1.13816E-01	1.17324E 01	2.49031E 02
12.20	8.56598E-01	1.08888E 01	1.67474E-01	1.82748E-04	-1.17918E-01	1.18266E 01	2.50169E 02
12.30	8.56587E-01	1.09827E 01	1.71880E-01	1.66625E-04	-1.22071E-01	1.19207E 01	2.51299E 02
12.40	8.56577E-01	1.10767E 01	1.76337E-01	1.50774E-04	-1.26275E-01	1.20149E 01	2.52421E 02
12.50	8.56566E-01	1.11706E 01	1.80845E-01	1.35186E-04	-1.30531E-01	1.21092E 01	2.53537E 02
12.60	8.56555E-01	1.12646E 01	1.85405E-01	1.19866E-04	-1.34838E-01	1.22034E 01	2.54645E 02
12.70	8.56545E-01	1.13586E 01	1.90016E-01	1.04805E-04	-1.39196E-01	1.22976E 01	2.55747E 02
12.80	8.56534E-01	1.14526E 01	1.94678E-01	8.99948E-05	-1.43605E-01	1.23919E 01	2.56842E 02
12.90	8.56524E-01	1.15466E 01	1.99391E-01	7.54282E-05	-1.48065E-01	1.24862E 01	2.57930E 02
13.00	8.56514E-01	1.16407E 01	2.04155E-01	6.11008E-05	-1.52577E-01	1.25805E 01	2.59012E 02
13.10	8.56503E-01	1.17348E 01	2.08970E-01	4.70057E-05	-1.57140E-01	1.26748E 01	2.60087E 02
13.20	8.56492E-01	1.18288E 01	2.13837E-01	3.31413E-05	-1.61754E-01	1.27692E 01	2.61155E 02
13.30	8.56482E-01	1.19229E 01	2.18755E-01	1.94999E-05	-1.66420E-01	1.28635E 01	2.62218E 02
13.40	8.56471E-01	1.20170E 01	2.23725E-01	6.07531E-06	-1.71137E-01	1.29579E 01	2.63274E 02
13.50	8.56460E-01	1.21112E 01	2.28745E-01	-7.13356E-06	-1.75905E-01	1.30523E 01	2.64323E 02
13.60	8.56449E-01	1.22053E 01	2.33817E-01	-2.01258E-05	-1.80725E-01	1.31467E 01	2.65368E 02
13.70	8.56439E-01	1.22995E 01	2.38940E-01	-3.29179E-05	-1.85596E-01	1.32411E 01	2.66406E 02
13.80	8.56428E-01	1.23937E 01	2.44115E-01	-4.55016E-05	-1.90518E-01	1.33355E 01	2.67438E 02
13.90	8.56417E-01	1.24879E 01	2.49341E-01	-5.79061E-05	-1.95492E-01	1.34300E 01	2.68464E 02
14.00	8.56407E-01	1.25821E 01	2.54618E-01	-7.01010E-05	-2.00517E-01	1.35245E 01	2.69485E 02
14.10	8.56396E-01	1.26763E 01	2.59947E-01	-8.21206E-05	-2.05594E-01	1.36190E 01	2.70499E 02
14.20	8.56385E-01	1.27706E 01	2.65327E-01	-9.39376E-05	-2.10723E-01	1.37135E 01	2.71509E 02
14.30	8.56375E-01	1.28648E 01	2.70759E-01	-1.05585E-04	-2.15902E-01	1.38080E 01	2.72513E 02
14.40	8.56364E-01	1.29591E 01	2.76242E-01	-1.17055E-04	-2.21134E-01	1.39026E 01	2.73511E 02
14.50	8.56353E-01	1.30534E 01	2.81776E-01	-1.28352E-04	-2.26416E-01	1.39971E 01	2.74504E 02
14.60	8.56342E-01	1.31477E 01	2.87362E-01	-1.39466E-04	-2.31751E-01	1.40917E 01	2.75493E 02
14.70	8.56332E-01	1.32421E 01	2.93000E-01	-1.50424E-04	-2.37137E-01	1.41863E 01	2.76476E 02
14.80	8.56321E-01	1.33364E 01	2.98689E-01	-1.61218E-04	-2.42574E-01	1.42809E 01	2.77453E 02
14.90	8.56310E-01	1.34308E 01	3.04429E-01	-1.71845E-04	-2.48063E-01	1.43756E 01	2.78426E 02
15.00	8.56300E-01	1.35252E 01	3.10222E-01	-1.82319E-04	-2.53604E-01	1.44703E 01	2.79394E 02
15.10	8.56289E-01	1.36196E 01	3.16065E-01	-1.92639E-04	-2.59197E-01	1.45649E 01	2.80356E 02
15.20	8.56278E-01	1.37141E 01	3.21961E-01	-2.02807E-04	-2.64841E-01	1.46596E 01	2.81314E 02
15.30	8.56268E-01	1.38085E 01	3.27908E-01	-2.12818E-04	-2.70537E-01	1.47544E 01	2.82268E 02
15.40	8.56257E-01	1.39030E 01	3.33907E-01	-2.22686E-04	-2.76284E-01	1.48491E 01	2.83217E 02
15.50	8.56247E-01	1.39975E 01	3.39957E-01	-2.32416E-04	-2.82084E-01	1.49439E 01	2.84161E 02
15.60	8.56236E-01	1.40920E 01	3.46059E-01	-2.41998E-04	-2.87935E-01	1.50387E 01	2.85101E 02
15.70	8.56225E-01	1.41865E 01	3.52213E-01	-2.51450E-04	-2.93837E-01	1.51335E 01	2.86035E 02
15.80	8.56215E-01	1.42810E 01	3.58419E-01	-2.60758E-04	-2.99792E-01	1.52283E 01	2.86966E 02
15.90	8.56205E-01	1.43756E 01	3.64676E-01	-2.69941E-04	-3.05799E-01	1.53231E 01	2.87892E 02
16.00	8.56194E-01	1.44702E 01	3.70985E-01	-2.78986E-04	-3.11857E-01	1.54180E 01	2.88815E 02
16.10	8.56184E-01	1.45648E 01	3.77346E-01	-2.87905E-04	-3.17967E-01	1.55129E 01	2.89732E 02
16.20	8.56174E-01	1.46594E 01	3.83759E-01	-2.96692E-04	-3.24129E-01	1.56078E 01	2.90647E 02
16.30	8.56163E-01	1.47541E 01	3.90223E-01	-3.05366E-04	-3.30343E-01	1.57027E 01	2.91556E 02
16.40	8.56153E-01	1.48487E 01	3.96740E-01	-3.13907E-04	-3.36609E-01	1.57977E 01	2.92462E 02
16.50	8.56142E-01	1.49434E 01	4.03308E-01	-3.22335E-04	-3.42927E-01	1.58926E 01	2.93363E 02
16.60	8.56132E-01	1.50381E 01	4.09929E-01	-3.30639E-04	-3.49297E-01	1.59876E 01	2.94261E 02
16.70	8.56122E-01	1.51329E 01	4.16601E-01	-3.38834E-04	-3.55719E-01	1.60826E 01	2.95155E 02
16.80	8.56112E-01	1.52276E 01	4.23325E-01	-3.46903E-04	-3.62193E-01	1.61777E 01	2.96046E 02
16.90	8.56101E-01	1.53224E 01	4.30101E-01	-3.54873E-04	-3.68719E-01	1.62727E 01	2.96932E 02
17.00	8.56091E-01	1.54172E 01	4.36930E-01	-3.62726E-04	-3.75297E-01	1.63678E 01	2.97815E 02
17.10	8.56081E-01	1.55120E 01	4.43810E-01	-3.70472E-04	-3.81927E-01	1.64629E 01	2.98694E 02
17.20	8.56071E-01	1.56068E 01	4.50742E-01	-3.78124E-04	-3.88609E-01	1.65580E 01	2.99569E 02
17.30	8.56061E-01	1.57017E 01	4.57726E-01	-3.85649E-04	-3.95344E-01	1.66532E 01	3.00442E 02
17.40	8.56050E-01	1.57965E 01	4.64763E-01	-3.93089E-04	-4.02130E-01	1.67484E 01	3.01310E 02
17.50	8.56040E-01	1.58914E 01	4.71851E-01	-4.00418E-04	-4.08969E-01	1.68435E 01	3.02175E 02
17.60	8.56030E-01	1.59863E 01	4.78992E-01	-4.07646E-04	-4.15860E-01	1.69388E 01	3.03037E 02
17.70	8.56020E-01	1.60813E 01	4.86185E-01	-4.14786E-04	-4.22803E-01	1.70340E 01	3.03895E 02
17.80	8.56010E-01	1.61762E 01	4.93430E-01	-4.21809E-04	-4.29799E-01	1.71292E 01	3.04752E 02
17.90	8.56000E-01	1.62712E 01	5.00728E-01	-4.28750E-04	-4.36847E-01	1.72245E 01	3.05604E 02
18.00	8.55990E-01	1.63662E 01	5.08077E-01	-4.35601E-04	-4.43947E-01	1.73198E 01	3.06452E 02

## ELECTRON RADIAL FUNCTIONS

 $Z=7$  $A=14$  $\rho = 1.3 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	2.28792E-04	3.51094E-01	3.38802E-03	-2.73434E 01	-2.44192E-03	3.81301E-01	3.44583E-02
12.20	2.32589E-04	3.57052E-01	3.50326E-03	-2.73513E 01	-2.54437E-03	3.87510E-01	3.44651E-02
12.30	2.36418E-04	3.63060E-01	3.62094E-03	-2.73591E 01	-2.64916E-03	3.93769E-01	3.44717E-02
12.40	2.40277E-04	3.69118E-01	3.74108E-03	-2.73667E 01	-2.75633E-03	4.00079E-01	3.44783E-02
12.50	2.44167E-04	3.75226E-01	3.86369E-03	-2.73742E 01	-2.86589E-03	4.06438E-01	3.44848E-02
12.60	2.48089E-04	3.81385E-01	3.98880E-03	-2.73816E 01	-2.97788E-03	4.12847E-01	3.44912E-02
12.70	2.52042E-04	3.87593E-01	4.11644E-03	-2.73889E 01	-3.09231E-03	4.19307E-01	3.44975E-02
12.80	2.56026E-04	3.93851E-01	4.24664E-03	-2.73960E 01	-3.20921E-03	4.25816E-01	3.45037E-02
12.90	2.60042E-04	4.00159E-01	4.37941E-03	-2.74030E 01	-3.32861E-03	4.32375E-01	3.45098E-02
13.00	2.64088E-04	4.06517E-01	4.51478E-03	-2.74100E 01	-3.45053E-03	4.38985E-01	3.45158E-02
13.10	2.68166E-04	4.12925E-01	4.65277E-03	-2.74167E 01	-3.57499E-03	4.45644E-01	3.45218E-02
13.20	2.72275E-04	4.19383E-01	4.79342E-03	-2.74234E 01	-3.70202E-03	4.52353E-01	3.45277E-02
13.30	2.76415E-04	4.25892E-01	4.93673E-03	-2.74300E 01	-3.83164E-03	4.59113E-01	3.45335E-02
13.40	2.80587E-04	4.32450E-01	5.08275E-03	-2.74365E 01	-3.96388E-03	4.65922E-01	3.45392E-02
13.50	2.84790E-04	4.39058E-01	5.23149E-03	-2.74429E 01	-4.09876E-03	4.72781E-01	3.45449E-02
13.60	2.89023E-04	4.45716E-01	5.38297E-03	-2.74492E 01	-4.23630E-03	4.79690E-01	3.45505E-02
13.70	2.93288E-04	4.52425E-01	5.53723E-03	-2.74554E 01	-4.37654E-03	4.86649E-01	3.45560E-02
13.80	2.97584E-04	4.59183E-01	5.69428E-03	-2.74615E 01	-4.51949E-03	4.93659E-01	3.45614E-02
13.90	3.01912E-04	4.65991E-01	5.85415E-03	-2.74675E 01	-4.66517E-03	5.00718E-01	3.45668E-02
14.00	3.06271E-04	4.72849E-01	6.01686E-03	-2.74734E 01	-4.81362E-03	5.07827E-01	3.45721E-02
14.10	3.10661E-04	4.79757E-01	6.18244E-03	-2.74792E 01	-4.96486E-03	5.14986E-01	3.45773E-02
14.20	3.15082E-04	4.86715E-01	6.35092E-03	-2.74850E 01	-5.11891E-03	5.22195E-01	3.45825E-02
14.30	3.19534E-04	4.93723E-01	6.52231E-03	-2.74906E 01	-5.27580E-03	5.29454E-01	3.45876E-02
14.40	3.24017E-04	5.00781E-01	6.69664E-03	-2.74962E 01	-5.43554E-03	5.36763E-01	3.45927E-02
14.50	3.28532E-04	5.07889E-01	6.87394E-03	-2.75017E 01	-5.59817E-03	5.44122E-01	3.45977E-02
14.60	3.33078E-04	5.15048E-01	7.05423E-03	-2.75071E 01	-5.76371E-03	5.51531E-01	3.46026E-02
14.70	3.37655E-04	5.22255E-01	7.23753E-03	-2.75124E 01	-5.93218E-03	5.58990E-01	3.46075E-02
14.80	3.42263E-04	5.29513E-01	7.42387E-03	-2.75177E 01	-6.10361E-03	5.66499E-01	3.46123E-02
14.90	3.46903E-04	5.36821E-01	7.61327E-03	-2.75229E 01	-6.27802E-03	5.74057E-01	3.46170E-02
15.00	3.51574E-04	5.44179E-01	7.80576E-03	-2.75280E 01	-6.45544E-03	5.81666E-01	3.46217E-02
15.10	3.56275E-04	5.51587E-01	8.00137E-03	-2.75330E 01	-6.63589E-03	5.89325E-01	3.46263E-02
15.20	3.61008E-04	5.59044E-01	8.20010E-03	-2.75380E 01	-6.81939E-03	5.97033E-01	3.46309E-02
15.30	3.65773E-04	5.66552E-01	8.40200E-03	-2.75429E 01	-7.00598E-03	6.04792E-01	3.46355E-02
15.40	3.70568E-04	5.74110E-01	8.60708E-03	-2.75477E 01	-7.19566E-03	6.12600E-01	3.46399E-02
15.50	3.75395E-04	5.81717E-01	8.81537E-03	-2.75525E 01	-7.38847E-03	6.20458E-01	3.46444E-02
15.60	3.80253E-04	5.89375E-01	9.02690E-03	-2.75572E 01	-7.58444E-03	6.28367E-01	3.46487E-02
15.70	3.85142E-04	5.97082E-01	9.24168E-03	-2.75619E 01	-7.78358E-03	6.36325E-01	3.46531E-02
15.80	3.90062E-04	6.04839E-01	9.45975E-03	-2.75664E 01	-7.98593E-03	6.44333E-01	3.46573E-02
15.90	3.95014E-04	6.12646E-01	9.68111E-03	-2.75710E 01	-8.19149E-03	6.52391E-01	3.46616E-02
16.00	3.99997E-04	6.20503E-01	9.90581E-03	-2.75754E 01	-8.40031E-03	6.60499E-01	3.46657E-02
16.10	4.05010E-04	6.28410E-01	1.01339E-02	-2.75798E 01	-8.61240E-03	6.68657E-01	3.46699E-02
16.20	4.10055E-04	6.36368E-01	1.03653E-02	-2.75842E 01	-8.82779E-03	6.76864E-01	3.46740E-02
16.30	4.15132E-04	6.44374E-01	1.06001E-02	-2.75885E 01	-9.04650E-03	6.85122E-01	3.46780E-02
16.40	4.20239E-04	6.52431E-01	1.08384E-02	-2.75927E 01	-9.26856E-03	6.93429E-01	3.46820E-02
16.50	4.25378E-04	6.60538E-01	1.10801E-02	-2.75969E 01	-9.49399E-03	7.01787E-01	3.46860E-02
16.60	4.30548E-04	6.68694E-01	1.13253E-02	-2.76010E 01	-9.72281E-03	7.10194E-01	3.46899E-02
16.70	4.35749E-04	6.76901E-01	1.15740E-02	-2.76051E 01	-9.95505E-03	7.18651E-01	3.46937E-02
16.80	4.40981E-04	6.85157E-01	1.18262E-02	-2.76091E 01	-1.01907E-02	7.27158E-01	3.46976E-02
16.90	4.46245E-04	6.93463E-01	1.20820E-02	-2.76131E 01	-1.04299E-02	7.35715E-01	3.47014E-02
17.00	4.51539E-04	7.01819E-01	1.23413E-02	-2.76171E 01	-1.06725E-02	7.44322E-01	3.47051E-02
17.10	4.56865E-04	7.10225E-01	1.26043E-02	-2.76209E 01	-1.09187E-02	7.52978E-01	3.47088E-02
17.20	4.62222E-04	7.18681E-01	1.28708E-02	-2.76248E 01	-1.11684E-02	7.61685E-01	3.47125E-02
17.30	4.67610E-04	7.27187E-01	1.31410E-02	-2.76286E 01	-1.14217E-02	7.70441E-01	3.47161E-02
17.40	4.73030E-04	7.35742E-01	1.34149E-02	-2.76323E 01	-1.16785E-02	7.79247E-01	3.47197E-02
17.50	4.78480E-04	7.44348E-01	1.36925E-02	-2.76360E 01	-1.19390E-02	7.88104E-01	3.47232E-02
17.60	4.83962E-04	7.53003E-01	1.39737E-02	-2.76397E 01	-1.22031E-02	7.97009E-01	3.47268E-02
17.70	4.89475E-04	7.61708E-01	1.42588E-02	-2.76433E 01	-1.24709E-02	8.05965E-01	3.47302E-02
17.80	4.95020E-04	7.70463E-01	1.45476E-02	-2.76469E 01	-1.27424E-02	8.14971E-01	3.47337E-02
17.90	5.00595E-04	7.79268E-01	1.48402E-02	-2.76504E 01	-1.30175E-02	8.24026E-01	3.47371E-02
18.00	5.06202E-04	7.88122E-01	1.51366E-02	-2.76539E 01	-1.32964E-02	8.33131E-01	3.47405E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=7$	$A=14$	$\rho=1.3A^{1/3}F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	8.55980E-01	1.64612E 01	5.15479E-01	-4.42357E-04	-4.51100E-01	1.74152E 01	3.07298E 02	02
18.20	8.55970E-01	1.65563E 01	5.22933E-01	-4.49014E-04	-4.58304E-01	1.75105E 01	3.08141E 02	02
18.30	8.55961E-01	1.66514E 01	5.30440E-01	-4.55601E-04	-4.65562E-01	1.76059E 01	3.08980E 02	02
18.40	8.55951E-01	1.67465E 01	5.37999E-01	-4.62081E-04	-4.72871E-01	1.77013E 01	3.09818E 02	02
18.50	8.55941E-01	1.68416E 01	5.45610E-01	-4.68477E-04	-4.80233E-01	1.77967E 01	3.10652E 02	02
18.60	8.55932E-01	1.69367E 01	5.53274E-01	-4.74791E-04	-4.87648E-01	1.78922E 01	3.11483E 02	02
18.70	8.55922E-01	1.70319E 01	5.60990E-01	-4.81017E-04	-4.95115E-01	1.79876E 01	3.12312E 02	02
18.80	8.55912E-01	1.71270E 01	5.68758E-01	-4.87173E-04	-5.02634E-01	1.80831E 01	3.13136E 02	02
18.90	8.55902E-01	1.72222E 01	5.76579E-01	-4.93233E-04	-5.10207E-01	1.81786E 01	3.13959E 02	02
19.00	8.55893E-01	1.73175E 01	5.84452E-01	-4.99217E-04	-5.17831E-01	1.82742E 01	3.14780E 02	02
19.10	8.55883E-01	1.74127E 01	5.92378E-01	-5.05124E-04	-5.25508E-01	1.83697E 01	3.15597E 02	02
19.20	8.55873E-01	1.75080E 01	6.00357E-01	-5.10947E-04	-5.33238E-01	1.84653E 01	3.16412E 02	02
19.30	8.55864E-01	1.76033E 01	6.08388E-01	-5.16702E-04	-5.41021E-01	1.85609E 01	3.17224E 02	02
19.40	8.55854E-01	1.76986E 01	6.16471E-01	-5.22375E-04	-5.48856E-01	1.86566E 01	3.18034E 02	02
19.50	8.55845E-01	1.77939E 01	6.24608E-01	-5.27972E-04	-5.56744E-01	1.87522E 01	3.18841E 02	02
19.60	8.55835E-01	1.78893E 01	6.32796E-01	-5.33495E-04	-5.64684E-01	1.88479E 01	3.19647E 02	02
19.70	8.55826E-01	1.79847E 01	6.41038E-01	-5.38947E-04	-5.72678E-01	1.89436E 01	3.20449E 02	02
19.80	8.55816E-01	1.80801E 01	6.49332E-01	-5.44332E-04	-5.80724E-01	1.90394E 01	3.21249E 02	02
19.90	8.55807E-01	1.81755E 01	6.57679E-01	-5.49641E-04	-5.88823E-01	1.91351E 01	3.22047E 02	02
20.00	8.55798E-01	1.82710E 01	6.66079E-01	-5.54872E-04	-5.96975E-01	1.92309E 01	3.22844E 02	02
20.10	8.55788E-01	1.83665E 01	6.74532E-01	-5.60048E-04	-6.05179E-01	1.93267E 01	3.23636E 02	02
20.20	8.55779E-01	1.84620E 01	6.83037E-01	-5.65150E-04	-6.13437E-01	1.94226E 01	3.24428E 02	02
20.30	8.55769E-01	1.85575E 01	6.91595E-01	-5.70182E-04	-6.21748E-01	1.95184E 01	3.25217E 02	02
20.40	8.55760E-01	1.86531E 01	7.00207E-01	-5.75154E-04	-6.30111E-01	1.96143E 01	3.26004E 02	02
20.50	8.55751E-01	1.87487E 01	7.08871E-01	-5.80051E-04	-6.38527E-01	1.97102E 01	3.26790E 02	02
20.60	8.55742E-01	1.88443E 01	7.17588E-01	-5.84895E-04	-6.46997E-01	1.98062E 01	3.27573E 02	02
20.70	8.55733E-01	1.89399E 01	7.26357E-01	-5.89673E-04	-6.55519E-01	1.99022E 01	3.28353E 02	02
20.80	8.55723E-01	1.90356E 01	7.35180E-01	-5.94387E-04	-6.64095E-01	1.99981E 01	3.29132E 02	02
20.90	8.55714E-01	1.91312E 01	7.44056E-01	-5.99035E-04	-6.72724E-01	2.00942E 01	3.29910E 02	02
21.00	8.55705E-01	1.92269E 01	7.52985E-01	-6.03623E-04	-6.81405E-01	2.01902E 01	3.30685E 02	02
21.10	8.55696E-01	1.93227E 01	7.61967E-01	-6.08157E-04	-6.90140E-01	2.02863E 01	3.31458E 02	02
21.20	8.55687E-01	1.94184E 01	7.71002E-01	-6.12624E-04	-6.98928E-01	2.03824E 01	3.32230E 02	02
21.30	8.55678E-01	1.95142E 01	7.80091E-01	-6.17036E-04	-7.07770E-01	2.04785E 01	3.33000E 02	02
21.40	8.55669E-01	1.96100E 01	7.89232E-01	-6.21388E-04	-7.16664E-01	2.05747E 01	3.33768E 02	02
21.50	8.55660E-01	1.97059E 01	7.98427E-01	-6.25681E-04	-7.25612E-01	2.06708E 01	3.34535E 02	02
21.60	8.55651E-01	1.98017E 01	8.07674E-01	-6.29926E-04	-7.34613E-01	2.07671E 01	3.35299E 02	02
21.70	8.55642E-01	1.98976E 01	8.16975E-01	-6.34107E-04	-7.43668E-01	2.08633E 01	3.36063E 02	02
21.80	8.55633E-01	1.99935E 01	8.26330E-01	-6.38236E-04	-7.52776E-01	2.09595E 01	3.36824E 02	02
21.90	8.55625E-01	2.00894E 01	8.35737E-01	-6.42303E-04	-7.61937E-01	2.10558E 01	3.37585E 02	02
22.00	8.55616E-01	2.01854E 01	8.45198E-01	-6.46328E-04	-7.71151E-01	2.11522E 01	3.38343E 02	02
22.10	8.55607E-01	2.02814E 01	8.54713E-01	-6.50290E-04	-7.80420E-01	2.12485E 01	3.39100E 02	02
22.20	8.55598E-01	2.03774E 01	8.64280E-01	-6.54196E-04	-7.89741E-01	2.13449E 01	3.39857E 02	02
22.30	8.55589E-01	2.04734E 01	8.73901E-01	-6.58060E-04	-7.99116E-01	2.14413E 01	3.40611E 02	02
22.40	8.55581E-01	2.05695E 01	8.83576E-01	-6.61872E-04	-8.08545E-01	2.15377E 01	3.41363E 02	02
22.50	8.55572E-01	2.06656E 01	8.93304E-01	-6.65633E-04	-8.18027E-01	2.16342E 01	3.42114E 02	02
22.60	8.55564E-01	2.07617E 01	9.03086E-01	-6.69341E-04	-8.27563E-01	2.17306E 01	3.42865E 02	02
22.70	8.55555E-01	2.08579E 01	9.12921E-01	-6.73005E-04	-8.37153E-01	2.18272E 01	3.43613E 02	02
22.80	8.55547E-01	2.09541E 01	9.22810E-01	-6.76608E-04	-8.46796E-01	2.19237E 01	3.44361E 02	02
22.90	8.55538E-01	2.10503E 01	9.32752E-01	-6.80164E-04	-8.56493E-01	2.20203E 01	3.45108E 02	02
23.00	8.55529E-01	2.11465E 01	9.42748E-01	-6.83688E-04	-8.66244E-01	2.21169E 01	3.45852E 02	02
23.10	8.55521E-01	2.12427E 01	9.52798E-01	-6.87149E-04	-8.76048E-01	2.22135E 01	3.46597E 02	02
23.20	8.55512E-01	2.13390E 01	9.62901E-01	-6.90567E-04	-8.85906E-01	2.23101E 01	3.47340E 02	02
23.30	8.55504E-01	2.14353E 01	9.73058E-01	-6.93944E-04	-8.95818E-01	2.24068E 01	3.48081E 02	02
23.40	8.55496E-01	2.15317E 01	9.83269E-01	-6.97267E-04	-9.05784E-01	2.25035E 01	3.48822E 02	02
23.50	8.55487E-01	2.16280E 01	9.93534E-01	-7.00547E-04	-9.15804E-01	2.26003E 01	3.49562E 02	02
23.60	8.55479E-01	2.17244E 01	1.00385E 00	-7.03792E-04	-9.25878E-01	2.26971E 01	3.50299E 02	02
23.70	8.55471E-01	2.18209E 01	1.01423E 00	-7.06982E-04	-9.36006E-01	2.27939E 01	3.51037E 02	02
23.80	8.55462E-01	2.19173E 01	1.02465E 00	-7.10134E-04	-9.46187E-01	2.28907E 01	3.51774E 02	02
23.90	8.55454E-01	2.20138E 01	1.03513E 00	-7.13237E-04	-9.56423E-01	2.29876E 01	3.52510E 02	02
24.00	8.55446E-01	2.21103E 01	1.04567E 00	-7.16295E-04	-9.66713E-01	2.30844E 01	3.53245E 02	02

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$  $A = 14$  $\rho = 1.3 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	5.11840E-04	7.97028E-01	1.54368E-02	-2.76573E 01	-1.35791E-02	8.42287E-01	3.47438E-02
18.20	5.17509E-04	8.05982E-01	1.57410E-02	-2.76607E 01	-1.38656E-02	8.51492E-01	3.47471E-02
18.30	5.23209E-04	8.14986E-01	1.60489E-02	-2.76641E 01	-1.41558E-02	8.60747E-01	3.47504E-02
18.40	5.28941E-04	8.24040E-01	1.63609E-02	-2.76674E 01	-1.44499E-02	8.70051E-01	3.47536E-02
18.50	5.34703E-04	8.33144E-01	1.66767E-02	-2.76707E 01	-1.47479E-02	8.79405E-01	3.47568E-02
18.60	5.40497E-04	8.42298E-01	1.69965E-02	-2.76740E 01	-1.50497E-02	8.88810E-01	3.47600E-02
18.70	5.46322E-04	8.51501E-01	1.73203E-02	-2.76772E 01	-1.53554E-02	8.98263E-01	3.47632E-02
18.80	5.52178E-04	8.60754E-01	1.76481E-02	-2.76804E 01	-1.56651E-02	9.07767E-01	3.47663E-02
18.90	5.58065E-04	8.70057E-01	1.79800E-02	-2.76835E 01	-1.59787E-02	9.17321E-01	3.47694E-02
19.00	5.63984E-04	8.79410E-01	1.83159E-02	-2.76866E 01	-1.62963E-02	9.26924E-01	3.47724E-02
19.10	5.69934E-04	8.88812E-01	1.86559E-02	-2.76897E 01	-1.66179E-02	9.36577E-01	3.47755E-02
19.20	5.75915E-04	8.98265E-01	1.89999E-02	-2.76928E 01	-1.69435E-02	9.46280E-01	3.47785E-02
19.30	5.81927E-04	9.07767E-01	1.93482E-02	-2.76958E 01	-1.72732E-02	9.56032E-01	3.47814E-02
19.40	5.87970E-04	9.17319E-01	1.97005E-02	-2.76988E 01	-1.76069E-02	9.65835E-01	3.47844E-02
19.50	5.94044E-04	9.26921E-01	2.00571E-02	-2.77017E 01	-1.79448E-02	9.75687E-01	3.47873E-02
19.60	6.00150E-04	9.36572E-01	2.04179E-02	-2.77046E 01	-1.82867E-02	9.85588E-01	3.47902E-02
19.70	6.06287E-04	9.46273E-01	2.07828E-02	-2.77075E 01	-1.86329E-02	9.95540E-01	3.47930E-02
19.80	6.12455E-04	9.56024E-01	2.11521E-02	-2.77104E 01	-1.89831E-02	1.00554E 00	3.47959E-02
19.90	6.18654E-04	9.65825E-01	2.15256E-02	-2.77132E 01	-1.93376E-02	1.01559E 00	3.47987E-02
20.00	6.24885E-04	9.75675E-01	2.19034E-02	-2.77160E 01	-1.96963E-02	1.02569E 00	3.48015E-02
20.10	6.31146E-04	9.85576E-01	2.22856E-02	-2.77188E 01	-2.00593E-02	1.03584E 00	3.48042E-02
20.20	6.37439E-04	9.95526E-01	2.26721E-02	-2.77215E 01	-2.04265E-02	1.04604E 00	3.48069E-02
20.30	6.43763E-04	1.00553E 00	2.30629E-02	-2.77242E 01	-2.07980E-02	1.05629E 00	3.48097E-02
20.40	6.50118E-04	1.01557E 00	2.34582E-02	-2.77269E 01	-2.11738E-02	1.06659E 00	3.48123E-02
20.50	6.56505E-04	1.02567E 00	2.38579E-02	-2.77296E 01	-2.15540E-02	1.07694E 00	3.48150E-02
20.60	6.62922E-04	1.03582E 00	2.42620E-02	-2.77322E 01	-2.19385E-02	1.08734E 00	3.48176E-02
20.70	6.69371E-04	1.04602E 00	2.46706E-02	-2.77348E 01	-2.23274E-02	1.09779E 00	3.48202E-02
20.80	6.75851E-04	1.05627E 00	2.50837E-02	-2.77374E 01	-2.27208E-02	1.10829E 00	3.48228E-02
20.90	6.82362E-04	1.06657E 00	2.55013E-02	-2.77400E 01	-2.31185E-02	1.11884E 00	3.48254E-02
21.00	6.88905E-04	1.07691E 00	2.59235E-02	-2.77425E 01	-2.35208E-02	1.12944E 00	3.48279E-02
21.10	6.95478E-04	1.08731E 00	2.63502E-02	-2.77450E 01	-2.39275E-02	1.14008E 00	3.48304E-02
21.20	7.02083E-04	1.09776E 00	2.67815E-02	-2.77475E 01	-2.43387E-02	1.15078E 00	3.48329E-02
21.30	7.08719E-04	1.10826E 00	2.72174E-02	-2.77499E 01	-2.47545E-02	1.16153E 00	3.48354E-02
21.40	7.15386E-04	1.11880E 00	2.76580E-02	-2.77524E 01	-2.51748E-02	1.17232E 00	3.48379E-02
21.50	7.22084E-04	1.12940E 00	2.81033E-02	-2.77548E 01	-2.55997E-02	1.18317E 00	3.48403E-02
21.60	7.28813E-04	1.14004E 00	2.85532E-02	-2.77572E 01	-2.60293E-02	1.19407E 00	3.48427E-02
21.70	7.35574E-04	1.15074E 00	2.90078E-02	-2.77595E 01	-2.64634E-02	1.20501E 00	3.48451E-02
21.80	7.42366E-04	1.16148E 00	2.94672E-02	-2.77619E 01	-2.69022E-02	1.21601E 00	3.48475E-02
21.90	7.49189E-04	1.17228E 00	2.99313E-02	-2.77642E 01	-2.73457E-02	1.22705E 00	3.48498E-02
22.00	7.56043E-04	1.18312E 00	3.04002E-02	-2.77665E 01	-2.77939E-02	1.23815E 00	3.48521E-02
22.10	7.62928E-04	1.19402E 00	3.08739E-02	-2.77687E 01	-2.82468E-02	1.24929E 00	3.48545E-02
22.20	7.69845E-04	1.20496E 00	3.13525E-02	-2.77710E 01	-2.87045E-02	1.26048E 00	3.48568E-02
22.30	7.76793E-04	1.21595E 00	3.18359E-02	-2.77732E 01	-2.91669E-02	1.27173E 00	3.48590E-02
22.40	7.83772E-04	1.22700E 00	3.23242E-02	-2.77754E 01	-2.96342E-02	1.28302E 00	3.48613E-02
22.50	7.90782E-04	1.23809E 00	3.28174E-02	-2.77776E 01	-3.01062E-02	1.29436E 00	3.48635E-02
22.60	7.97824E-04	1.24923E 00	3.33156E-02	-2.77798E 01	-3.05832E-02	1.30576E 00	3.48657E-02
22.70	8.04896E-04	1.26042E 00	3.38186E-02	-2.77819E 01	-3.10650E-02	1.31720E 00	3.48679E-02
22.80	8.12000E-04	1.27166E 00	3.43267E-02	-2.77841E 01	-3.15516E-02	1.32869E 00	3.48701E-02
22.90	8.19135E-04	1.28296E 00	3.48398E-02	-2.77862E 01	-3.20433E-02	1.34023E 00	3.48723E-02
23.00	8.26301E-04	1.29430E 00	3.53578E-02	-2.77883E 01	-3.25398E-02	1.35182E 00	3.48744E-02
23.10	8.33498E-04	1.30569E 00	3.58810E-02	-2.77904E 01	-3.30413E-02	1.36346E 00	3.48766E-02
23.20	8.40726E-04	1.31712E 00	3.64092E-02	-2.77924E 01	-3.35479E-02	1.37515E 00	3.48787E-02
23.30	8.47986E-04	1.32861E 00	3.69425E-02	-2.77944E 01	-3.40594E-02	1.38689E 00	3.48808E-02
23.40	8.55277E-04	1.34015E 00	3.74809E-02	-2.77965E 01	-3.45760E-02	1.39868E 00	3.48828E-02
23.50	8.62599E-04	1.35174E 00	3.80245E-02	-2.77985E 01	-3.50976E-02	1.41051E 00	3.48849E-02
23.60	8.69952E-04	1.36338E 00	3.85733E-02	-2.78004E 01	-3.56244E-02	1.42240E 00	3.48869E-02
23.70	8.77336E-04	1.37507E 00	3.91272E-02	-2.78024E 01	-3.61562E-02	1.43434E 00	3.48890E-02
23.80	8.84752E-04	1.38680E 00	3.96864E-02	-2.78044E 01	-3.66932E-02	1.44633E 00	3.48910E-02
23.90	8.92198E-04	1.39859E 00	4.02508E-02	-2.78063E 01	-3.72354E-02	1.45836E 00	3.48930E-02
24.00	8.99676E-04	1.41042E 00	4.08205E-02	-2.78082E 01	-3.77827E-02	1.47045E 00	3.48950E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 7$		$A = 14$		$\rho = 1.3 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
24.10	8.55437E-01	2.22068E 01	1.05625E 00	-7.19316E-04	-9.77058E-01	2.31814E 01	3.53979E 02	
24.20	8.55429E-01	2.23034E 01	1.06690E 00	-7.22296E-04	-9.87456E-01	2.32783E 01	3.54712E 02	
24.30	8.55421E-01	2.24000E 01	1.07759E 00	-7.25238E-04	-9.97908E-01	2.33753E 01	3.55443E 02	
24.40	8.55413E-01	2.24966E 01	1.08834E 00	-7.28131E-04	-1.00841E 00	2.34723E 01	3.56175E 02	
24.50	8.55405E-01	2.25933E 01	1.09915E 00	-7.30982E-04	-1.01898E 00	2.35694E 01	3.56906E 02	
24.60	8.55396E-01	2.26899E 01	1.11001E 00	-7.33795E-04	-1.02959E 00	2.36664E 01	3.57636E 02	
24.70	8.55388E-01	2.27867E 01	1.12092E 00	-7.36577E-04	-1.04026E 00	2.37635E 01	3.58365E 02	
24.80	8.55380E-01	2.28834E 01	1.13189E 00	-7.39316E-04	-1.05098E 00	2.38607E 01	3.59093E 02	
24.90	8.55372E-01	2.29802E 01	1.14291E 00	-7.42008E-04	-1.06176E 00	2.39578E 01	3.59821E 02	
25.00	8.55364E-01	2.30770E 01	1.15398E 00	-7.44668E-04	-1.07259E 00	2.40550E 01	3.60548E 02	
25.10	8.55356E-01	2.31738E 01	1.16512E 00	-7.47277E-04	-1.08348E 00	2.41523E 01	3.61276E 02	
25.20	8.55348E-01	2.32706E 01	1.17630E 00	-7.49862E-04	-1.09442E 00	2.42495E 01	3.62002E 02	
25.30	8.55340E-01	2.33675E 01	1.18754E 00	-7.52412E-04	-1.10542E 00	2.43468E 01	3.62727E 02	
25.40	8.55332E-01	2.34644E 01	1.19883E 00	-7.54918E-04	-1.11647E 00	2.44441E 01	3.63452E 02	
25.50	8.55324E-01	2.35614E 01	1.21018E 00	-7.57392E-04	-1.12757E 00	2.45415E 01	3.64176E 02	
25.60	8.55317E-01	2.36584E 01	1.22158E 00	-7.59819E-04	-1.13873E 00	2.46388E 01	3.64901E 02	
25.70	8.55309E-01	2.37554E 01	1.23304E 00	-7.62223E-04	-1.14995E 00	2.47363E 01	3.65624E 02	
25.80	8.55301E-01	2.38524E 01	1.24455E 00	-7.64587E-04	-1.16122E 00	2.48337E 01	3.66347E 02	
25.90	8.55293E-01	2.39495E 01	1.25612E 00	-7.66914E-04	-1.17254E 00	2.49312E 01	3.67070E 02	
26.00	8.55285E-01	2.40466E 01	1.26774E 00	-7.69202E-04	-1.18392E 00	2.50287E 01	3.67793E 02	
26.10	8.55277E-01	2.41437E 01	1.27941E 00	-7.71458E-04	-1.19535E 00	2.51262E 01	3.68516E 02	
26.20	8.55270E-01	2.42409E 01	1.29114E 00	-7.73686E-04	-1.20684E 00	2.52238E 01	3.69237E 02	
26.30	8.55262E-01	2.43381E 01	1.30293E 00	-7.75868E-04	-1.21838E 00	2.53214E 01	3.69959E 02	
26.40	8.55254E-01	2.44353E 01	1.31477E 00	-7.78024E-04	-1.22998E 00	2.54191E 01	3.70680E 02	
26.50	8.55247E-01	2.45325E 01	1.32666E 00	-7.80150E-04	-1.24164E 00	2.55167E 01	3.71401E 02	
26.60	8.55239E-01	2.46298E 01	1.33861E 00	-7.82242E-04	-1.25334E 00	2.56144E 01	3.72121E 02	
26.70	8.55232E-01	2.47271E 01	1.35062E 00	-7.84300E-04	-1.26511E 00	2.57122E 01	3.72842E 02	
26.80	8.55224E-01	2.48245E 01	1.36268E 00	-7.86317E-04	-1.27693E 00	2.58100E 01	3.73563E 02	
26.90	8.55216E-01	2.49219E 01	1.37479E 00	-7.88312E-04	-1.28880E 00	2.59078E 01	3.74283E 02	
27.00	8.55209E-01	2.50193E 01	1.38696E 00	-7.90272E-04	-1.30073E 00	2.60056E 01	3.75003E 02	
27.10	8.55201E-01	2.51167E 01	1.39919E 00	-7.92198E-04	-1.31271E 00	2.61035E 01	3.75724E 02	
27.20	8.55194E-01	2.52142E 01	1.41147E 00	-7.94099E-04	-1.32475E 00	2.62014E 01	3.76443E 02	
27.30	8.55186E-01	2.53117E 01	1.42380E 00	-7.95963E-04	-1.33684E 00	2.62993E 01	3.77164E 02	
27.40	8.55179E-01	2.54092E 01	1.43619E 00	-7.97804E-04	-1.34899E 00	2.63973E 01	3.77882E 02	
27.50	8.55171E-01	2.55068E 01	1.44864E 00	-7.99608E-04	-1.36120E 00	2.64953E 01	3.78603E 02	
27.60	8.55164E-01	2.56044E 01	1.46114E 00	-8.01379E-04	-1.37346E 00	2.65933E 01	3.79323E 02	
27.70	8.55157E-01	2.57020E 01	1.47369E 00	-8.03130E-04	-1.38578E 00	2.66914E 01	3.80042E 02	
27.80	8.55149E-01	2.57997E 01	1.48630E 00	-8.04842E-04	-1.39815E 00	2.67895E 01	3.80763E 02	
27.90	8.55142E-01	2.58974E 01	1.49897E 00	-8.06524E-04	-1.41057E 00	2.68876E 01	3.81484E 02	
28.00	8.55134E-01	2.59951E 01	1.51169E 00	-8.08187E-04	-1.42306E 00	2.69858E 01	3.82203E 02	
28.10	8.55127E-01	2.60929E 01	1.52447E 00	-8.09813E-04	-1.43559E 00	2.70840E 01	3.82924E 02	
28.20	8.55120E-01	2.61907E 01	1.53730E 00	-8.11415E-04	-1.44819E 00	2.71823E 01	3.83644E 02	
28.30	8.55113E-01	2.62885E 01	1.55019E 00	-8.12992E-04	-1.46084E 00	2.72806E 01	3.84364E 02	
28.40	8.55105E-01	2.63864E 01	1.56314E 00	-8.14530E-04	-1.47354E 00	2.73789E 01	3.85085E 02	
28.50	8.55098E-01	2.64843E 01	1.57614E 00	-8.16033E-04	-1.48630E 00	2.74772E 01	3.85808E 02	
28.60	8.55091E-01	2.65822E 01	1.58919E 00	-8.17529E-04	-1.49912E 00	2.75756E 01	3.86529E 02	
28.70	8.55084E-01	2.66802E 01	1.60230E 00	-8.18989E-04	-1.51199E 00	2.76740E 01	3.87250E 02	
28.80	8.55077E-01	2.67782E 01	1.61547E 00	-8.20421E-04	-1.52492E 00	2.77725E 01	3.87972E 02	
28.90	8.55070E-01	2.68762E 01	1.62869E 00	-8.21822E-04	-1.53790E 00	2.78710E 01	3.88695E 02	
29.00	8.55062E-01	2.69743E 01	1.64197E 00	-8.23201E-04	-1.55094E 00	2.79695E 01	3.89418E 02	
29.10	8.55055E-01	2.70724E 01	1.65531E 00	-8.24554E-04	-1.56404E 00	2.80681E 01	3.90141E 02	
29.20	8.55048E-01	2.71705E 01	1.66870E 00	-8.25882E-04	-1.57719E 00	2.81667E 01	3.90864E 02	
29.30	8.55041E-01	2.72687E 01	1.68214E 00	-8.27179E-04	-1.59040E 00	2.82653E 01	3.91588E 02	
29.40	8.55034E-01	2.73669E 01	1.69565E 00	-8.28454E-04	-1.60367E 00	2.83640E 01	3.92312E 02	
29.50	8.55027E-01	2.74651E 01	1.70921E 00	-8.29699E-04	-1.61699E 00	2.84627E 01	3.93037E 02	
29.60	8.55020E-01	2.75634E 01	1.72282E 00	-8.30928E-04	-1.63036E 00	2.85614E 01	3.93761E 02	
29.70	8.55013E-01	2.76617E 01	1.73649E 00	-8.32121E-04	-1.64380E 00	2.86602E 01	3.94487E 02	
29.80	8.55006E-01	2.77601E 01	1.75022E 00	-8.33300E-04	-1.65729E 00	2.87590E 01	3.95213E 02	
29.90	8.54999E-01	2.78585E 01	1.76400E 00	-8.34446E-04	-1.67083E 00	2.88579E 01	3.95939E 02	
30.00	8.54992E-01	2.79569E 01	1.77784E 00	-8.35565E-04	-1.68443E 00	2.89568E 01	3.96667E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$        $A = 14$        $\rho = 1.3 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
24.10	9.07186E-04	1.42231E 00	4.13955E-02	-2.78101E 01	-3.83353E-02	1.48258E 00	3.48969E-02
24.20	9.14726E-04	1.43425E 00	4.19758E-02	-2.78120E 01	-3.88931E-02	1.49477E 00	3.48989E-02
24.30	9.22297E-04	1.44623E 00	4.25614E-02	-2.78139E 01	-3.94561E-02	1.50700E 00	3.49008E-02
24.40	9.29900E-04	1.45826E 00	4.31524E-02	-2.78157E 01	-4.00244E-02	1.51929E 00	3.49027E-02
24.50	9.37534E-04	1.47035E 00	4.37488E-02	-2.78175E 01	-4.05981E-02	1.53162E 00	3.49046E-02
24.60	9.45199E-04	1.48248E 00	4.43506E-02	-2.78194E 01	-4.11770E-02	1.54400E 00	3.49065E-02
24.70	9.52895E-04	1.49466E 00	4.49578E-02	-2.78212E 01	-4.17614E-02	1.55643E 00	3.49084E-02
24.80	9.60622E-04	1.50689E 00	4.55704E-02	-2.78230E 01	-4.23511E-02	1.56892E 00	3.49103E-02
24.90	9.68381E-04	1.51918E 00	4.61886E-02	-2.78247E 01	-4.29462E-02	1.58145E 00	3.49121E-02
25.00	9.76170E-04	1.53151E 00	4.68123E-02	-2.78265E 01	-4.35467E-02	1.59403E 00	3.49140E-02
25.10	9.83991E-04	1.54389E 00	4.74415E-02	-2.78282E 01	-4.41527E-02	1.60666E 00	3.49158E-02
25.20	9.91843E-04	1.55632E 00	4.80762E-02	-2.78300E 01	-4.47641E-02	1.61934E 00	3.49176E-02
25.30	9.99726E-04	1.56879E 00	4.87166E-02	-2.78317E 01	-4.53811E-02	1.63207E 00	3.49194E-02
25.40	1.00764E-03	1.58132E 00	4.93625E-02	-2.78334E 01	-4.60036E-02	1.64484E 00	3.49212E-02
25.50	1.01559E-03	1.59390E 00	5.00141E-02	-2.78351E 01	-4.66316E-02	1.65767E 00	3.49229E-02
25.60	1.02356E-03	1.60653E 00	5.06713E-02	-2.78367E 01	-4.72652E-02	1.67055E 00	3.49247E-02
25.70	1.03157E-03	1.61920E 00	5.13342E-02	-2.78384E 01	-4.79044E-02	1.68347E 00	3.49264E-02
25.80	1.03961E-03	1.63193E 00	5.20028E-02	-2.78401E 01	-4.85493E-02	1.69645E 00	3.49282E-02
25.90	1.04768E-03	1.64471E 00	5.26772E-02	-2.78417E 01	-4.91997E-02	1.70948E 00	3.49299E-02
26.00	1.05578E-03	1.65753E 00	5.33572E-02	-2.78433E 01	-4.98559E-02	1.72255E 00	3.49316E-02
26.10	1.06391E-03	1.67040E 00	5.40431E-02	-2.78449E 01	-5.05177E-02	1.73567E 00	3.49333E-02
26.20	1.07208E-03	1.68333E 00	5.47347E-02	-2.78465E 01	-5.11852E-02	1.74885E 00	3.49350E-02
26.30	1.08027E-03	1.69630E 00	5.54322E-02	-2.78481E 01	-5.18585E-02	1.76207E 00	3.49366E-02
26.40	1.08850E-03	1.70932E 00	5.61355E-02	-2.78497E 01	-5.25375E-02	1.77534E 00	3.49383E-02
26.50	1.09676E-03	1.72239E 00	5.68447E-02	-2.78512E 01	-5.32224E-02	1.78866E 00	3.49399E-02
26.60	1.10505E-03	1.73552E 00	5.75597E-02	-2.78528E 01	-5.39130E-02	1.80203E 00	3.49416E-02
26.70	1.11337E-03	1.74869E 00	5.82807E-02	-2.78543E 01	-5.46095E-02	1.81545E 00	3.49432E-02
26.80	1.12172E-03	1.76191E 00	5.90076E-02	-2.78558E 01	-5.53119E-02	1.82892E 00	3.49448E-02
26.90	1.13010E-03	1.77518E 00	5.97405E-02	-2.78574E 01	-5.60201E-02	1.84244E 00	3.49464E-02
27.00	1.13851E-03	1.78849E 00	6.04794E-02	-2.78589E 01	-5.67342E-02	1.85601E 00	3.49480E-02
27.10	1.14696E-03	1.80186E 00	6.12243E-02	-2.78603E 01	-5.74543E-02	1.86962E 00	3.49496E-02
27.20	1.15543E-03	1.81528E 00	6.19752E-02	-2.78618E 01	-5.81803E-02	1.88329E 00	3.49511E-02
27.30	1.16394E-03	1.82874E 00	6.27322E-02	-2.78633E 01	-5.89123E-02	1.89701E 00	3.49527E-02
27.40	1.17248E-03	1.84226E 00	6.34953E-02	-2.78647E 01	-5.96503E-02	1.91077E 00	3.49542E-02
27.50	1.18105E-03	1.85582E 00	6.42645E-02	-2.78662E 01	-6.03944E-02	1.92459E 00	3.49558E-02
27.60	1.18965E-03	1.86944E 00	6.50398E-02	-2.78676E 01	-6.11445E-02	1.93845E 00	3.49573E-02
27.70	1.19828E-03	1.88310E 00	6.58213E-02	-2.78690E 01	-6.19006E-02	1.95236E 00	3.49588E-02
27.80	1.20694E-03	1.89681E 00	6.66089E-02	-2.78705E 01	-6.26629E-02	1.96632E 00	3.49603E-02
27.90	1.21563E-03	1.91058E 00	6.74028E-02	-2.78719E 01	-6.34313E-02	1.98034E 00	3.49618E-02
28.00	1.22436E-03	1.92439E 00	6.82029E-02	-2.78732E 01	-6.42058E-02	1.99440E 00	3.49633E-02
28.10	1.23311E-03	1.93825E 00	6.90092E-02	-2.78746E 01	-6.49865E-02	2.00851E 00	3.49647E-02
28.20	1.24190E-03	1.95216E 00	6.98218E-02	-2.78760E 01	-6.57735E-02	2.02266E 00	3.49662E-02
28.30	1.25072E-03	1.96612E 00	7.06407E-02	-2.78774E 01	-6.65666E-02	2.03687E 00	3.49677E-02
28.40	1.25957E-03	1.98012E 00	7.14659E-02	-2.78787E 01	-6.73660E-02	2.05113E 00	3.49691E-02
28.50	1.26845E-03	1.99418E 00	7.22976E-02	-2.78801E 01	-6.81716E-02	2.06544E 00	3.49705E-02
28.60	1.27736E-03	2.00829E 00	7.31355E-02	-2.78814E 01	-6.89835E-02	2.07979E 00	3.49720E-02
28.70	1.28631E-03	2.02244E 00	7.39799E-02	-2.78827E 01	-6.98018E-02	2.09420E 00	3.49734E-02
28.80	1.29528E-03	2.03665E 00	7.48306E-02	-2.78840E 01	-7.06264E-02	2.10865E 00	3.49748E-02
28.90	1.30429E-03	2.05090E 00	7.56879E-02	-2.78853E 01	-7.14573E-02	2.12315E 00	3.49762E-02
29.00	1.31332E-03	2.06520E 00	7.65515E-02	-2.78866E 01	-7.22947E-02	2.13770E 00	3.49776E-02
29.10	1.32239E-03	2.07955E 00	7.74217E-02	-2.78879E 01	-7.31384E-02	2.15231E 00	3.49790E-02
29.20	1.33149E-03	2.09396E 00	7.82984E-02	-2.78892E 01	-7.39886E-02	2.16696E 00	3.49803E-02
29.30	1.34062E-03	2.10841E 00	7.91816E-02	-2.78904E 01	-7.48453E-02	2.18166E 00	3.49817E-02
29.40	1.34978E-03	2.12291E 00	8.00714E-02	-2.78917E 01	-7.57084E-02	2.19640E 00	3.49830E-02
29.50	1.35898E-03	2.13746E 00	8.09678E-02	-2.78929E 01	-7.65780E-02	2.21120E 00	3.49844E-02
29.60	1.36820E-03	2.15205E 00	8.18708E-02	-2.78942E 01	-7.74542E-02	2.22605E 00	3.49857E-02
29.70	1.37745E-03	2.16670E 00	8.27804E-02	-2.78954E 01	-7.83369E-02	2.24095E 00	3.49871E-02
29.80	1.38674E-03	2.18140E 00	8.36967E-02	-2.78966E 01	-7.92262E-02	2.25589E 00	3.49884E-02
29.90	1.39606E-03	2.19614E 00	8.46197E-02	-2.78978E 01	-8.01221E-02	2.27088E 00	3.49897E-02
30.00	1.40541E-03	2.21093E 00	8.55494E-02	-2.78991E 01	-8.10247E-02	2.28593E 00	3.49910E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=7$		$A=14$		$\rho=1.3 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
30.10	8.54985E-01	2.80553E 01	1.79174E 00	-8.36660E-04	-1.69809E 00	2.90557E 01	3.97395E 02	
30.20	8.54978E-01	2.81538E 01	1.80569E 00	-8.37734E-04	-1.71181E 00	2.91547E 01	3.98124E 02	
30.30	8.54972E-01	2.82523E 01	1.81970E 00	-8.38781E-04	-1.72558E 00	2.92537E 01	3.98853E 02	
30.40	8.54965E-01	2.83509E 01	1.83376E 00	-8.39795E-04	-1.73941E 00	2.93527E 01	3.99585E 02	
30.50	8.54958E-01	2.84495E 01	1.84788E 00	-8.40802E-04	-1.75329E 00	2.94518E 01	4.00314E 02	
30.60	8.54951E-01	2.85481E 01	1.86206E 00	-8.41783E-04	-1.76723E 00	2.95509E 01	4.01045E 02	
30.70	8.54944E-01	2.86468E 01	1.87629E 00	-8.42734E-04	-1.78123E 00	2.96500E 01	4.01777E 02	
30.80	8.54938E-01	2.87455E 01	1.89059E 00	-8.43665E-04	-1.79529E 00	2.97492E 01	4.02509E 02	
30.90	8.54931E-01	2.88442E 01	1.90493E 00	-8.44572E-04	-1.80940E 00	2.98485E 01	4.03243E 02	
31.00	8.54924E-01	2.89430E 01	1.91934E 00	-8.45460E-04	-1.82357E 00	2.99477E 01	4.03976E 02	
31.10	8.54918E-01	2.90418E 01	1.93380E 00	-8.46319E-04	-1.83779E 00	3.00470E 01	4.04711E 02	
31.20	8.54911E-01	2.91406E 01	1.94832E 00	-8.47156E-04	-1.85208E 00	3.01464E 01	4.05448E 02	
31.30	8.54904E-01	2.92395E 01	1.96289E 00	-8.47969E-04	-1.86642E 00	3.02457E 01	4.06184E 02	
31.40	8.54898E-01	2.93384E 01	1.97752E 00	-8.48766E-04	-1.88081E 00	3.03452E 01	4.06921E 02	
31.50	8.54891E-01	2.94374E 01	1.99221E 00	-8.49536E-04	-1.89527E 00	3.04446E 01	4.07660E 02	
31.60	8.54884E-01	2.95364E 01	2.00696E 00	-8.50284E-04	-1.90978E 00	3.05441E 01	4.08399E 02	
31.70	8.54878E-01	2.96354E 01	2.02176E 00	-8.51016E-04	-1.92434E 00	3.06436E 01	4.09139E 02	
31.80	8.54871E-01	2.97345E 01	2.03662E 00	-8.51721E-04	-1.93897E 00	3.07432E 01	4.09880E 02	
31.90	8.54865E-01	2.98336E 01	2.05153E 00	-8.52408E-04	-1.95365E 00	3.08428E 01	4.10622E 02	
32.00	8.54858E-01	2.99327E 01	2.06651E 00	-8.53067E-04	-1.96839E 00	3.09425E 01	4.11366E 02	
32.10	8.54852E-01	3.00319E 01	2.08154E 00	-8.53710E-04	-1.98319E 00	3.10422E 01	4.12109E 02	
32.20	8.54845E-01	3.01311E 01	2.09663E 00	-8.54330E-04	-1.99804E 00	3.11419E 01	4.12854E 02	
32.30	8.54839E-01	3.02304E 01	2.11177E 00	-8.54928E-04	-2.01295E 00	3.12417E 01	4.13601E 02	
32.40	8.54832E-01	3.03297E 01	2.12698E 00	-8.55509E-04	-2.02792E 00	3.13415E 01	4.14348E 02	
32.50	8.54826E-01	3.04290E 01	2.14224E 00	-8.56062E-04	-2.04295E 00	3.14413E 01	4.15097E 02	
32.60	8.54819E-01	3.05284E 01	2.15755E 00	-8.56604E-04	-2.05804E 00	3.15412E 01	4.15846E 02	
32.70	8.54813E-01	3.06278E 01	2.17293E 00	-8.57122E-04	-2.07318E 00	3.16412E 01	4.16596E 02	
32.80	8.54807E-01	3.07273E 01	2.18836E 00	-8.57621E-04	-2.08838E 00	3.17411E 01	4.17347E 02	
32.90	8.54800E-01	3.08268E 01	2.20385E 00	-8.58096E-04	-2.10364E 00	3.18411E 01	4.18101E 02	
33.00	8.54794E-01	3.09263E 01	2.21940E 00	-8.58549E-04	-2.11895E 00	3.19412E 01	4.18856E 02	
33.10	8.54787E-01	3.10258E 01	2.23501E 00	-8.58984E-04	-2.13432E 00	3.20413E 01	4.19611E 02	
33.20	8.54781E-01	3.11254E 01	2.25067E 00	-8.59394E-04	-2.14975E 00	3.21414E 01	4.20369E 02	
33.30	8.54775E-01	3.12251E 01	2.26639E 00	-8.59795E-04	-2.16524E 00	3.22416E 01	4.21126E 02	
33.40	8.54769E-01	3.13248E 01	2.28217E 00	-8.60170E-04	-2.18079E 00	3.23418E 01	4.21886E 02	
33.50	8.54762E-01	3.14245E 01	2.29801E 00	-8.60534E-04	-2.19640E 00	3.24421E 01	4.22645E 02	
33.60	8.54756E-01	3.15243E 01	2.31390E 00	-8.60869E-04	-2.21206E 00	3.25424E 01	4.23408E 02	
33.70	8.54750E-01	3.16241E 01	2.32985E 00	-8.61192E-04	-2.22778E 00	3.26427E 01	4.24170E 02	
33.80	8.54744E-01	3.17239E 01	2.34586E 00	-8.61494E-04	-2.24356E 00	3.27431E 01	4.24935E 02	
33.90	8.54737E-01	3.18238E 01	2.36193E 00	-8.61771E-04	-2.25940E 00	3.28435E 01	4.25702E 02	
34.00	8.54731E-01	3.19237E 01	2.37806E 00	-8.62029E-04	-2.27529E 00	3.29440E 01	4.26470E 02	
34.10	8.54725E-01	3.20237E 01	2.39424E 00	-8.62279E-04	-2.29125E 00	3.30445E 01	4.27238E 02	
34.20	8.54719E-01	3.21237E 01	2.41049E 00	-8.62503E-04	-2.30726E 00	3.31450E 01	4.28008E 02	
34.30	8.54713E-01	3.22237E 01	2.42679E 00	-8.62711E-04	-2.32333E 00	3.32456E 01	4.28780E 02	
34.40	8.54706E-01	3.23238E 01	2.44315E 00	-8.62897E-04	-2.33946E 00	3.33462E 01	4.29553E 02	
34.50	8.54700E-01	3.24239E 01	2.45957E 00	-8.63068E-04	-2.35565E 00	3.34469E 01	4.30328E 02	
34.60	8.54694E-01	3.25241E 01	2.47604E 00	-8.63218E-04	-2.37190E 00	3.35476E 01	4.31105E 02	
34.70	8.54688E-01	3.26243E 01	2.49258E 00	-8.63349E-04	-2.38820E 00	3.36484E 01	4.31883E 02	
34.80	8.54682E-01	3.27245E 01	2.50917E 00	-8.63467E-04	-2.40457E 00	3.37492E 01	4.32663E 02	
34.90	8.54676E-01	3.28248E 01	2.52582E 00	-8.63568E-04	-2.42099E 00	3.38500E 01	4.33443E 02	
35.00	8.54670E-01	3.29252E 01	2.54254E 00	-8.63652E-04	-2.43747E 00	3.39509E 01	4.34226E 02	
35.10	8.54664E-01	3.30255E 01	2.55931E 00	-8.63707E-04	-2.45401E 00	3.40518E 01	4.35011E 02	
35.20	8.54658E-01	3.31259E 01	2.57613E 00	-8.63755E-04	-2.47061E 00	3.41528E 01	4.35797E 02	
35.30	8.54652E-01	3.32264E 01	2.59302E 00	-8.63782E-04	-2.48727E 00	3.42538E 01	4.36585E 02	
35.40	8.54646E-01	3.33269E 01	2.60997E 00	-8.63791E-04	-2.50399E 00	3.43549E 01	4.37375E 02	
35.50	8.54640E-01	3.34274E 01	2.62697E 00	-8.63785E-04	-2.52077E 00	3.44560E 01	4.38167E 02	
35.60	8.54634E-01	3.35280E 01	2.64404E 00	-8.63755E-04	-2.53760E 00	3.45572E 01	4.38961E 02	
35.70	8.54628E-01	3.36286E 01	2.66116E 00	-8.63714E-04	-2.55450E 00	3.46584E 01	4.39755E 02	
35.80	8.54622E-01	3.37293E 01	2.67834E 00	-8.63653E-04	-2.57145E 00	3.47596E 01	4.40553E 02	
35.90	8.54616E-01	3.38300E 01	2.69558E 00	-8.63579E-04	-2.58847E 00	3.48609E 01	4.41351E 02	
36.00	8.54610E-01	3.39308E 01	2.71288E 00	-8.63491E-04	-2.60554E 00	3.49622E 01	4.42151E 02	

ELECTRON RADIAL FUNCTIONS

$Z = 7$        $A = 14$        $\rho = 1.3 A^{1/3} F$       Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
30.10	1.41479E-03	2.22578E 00	8.64858E-02	-2.79003E 01	-8.19339E-02	2.30102E 00	3.49923E-02
30.20	1.42420E-03	2.24067E 00	8.74290E-02	-2.79014E 01	-8.28497E-02	2.31616E 00	3.49936E-02
30.30	1.43364E-03	2.25561E 00	8.83789E-02	-2.79026E 01	-8.37723E-02	2.33135E 00	3.49948E-02
30.40	1.44311E-03	2.27060E 00	8.93356E-02	-2.79038E 01	-8.47016E-02	2.34659E 00	3.49961E-02
30.50	1.45262E-03	2.28564E 00	9.02992E-02	-2.79050E 01	-8.56376E-02	2.36188E 00	3.49974E-02
30.60	1.46215E-03	2.30073E 00	9.12696E-02	-2.79061E 01	-8.65804E-02	2.37722E 00	3.49986E-02
30.70	1.47172E-03	2.31587E 00	9.22469E-02	-2.79073E 01	-8.75300E-02	2.39260E 00	3.49999E-02
30.80	1.48132E-03	2.33105E 00	9.32311E-02	-2.79084E 01	-8.84864E-02	2.40804E 00	3.50011E-02
30.90	1.49095E-03	2.34629E 00	9.42222E-02	-2.79095E 01	-8.94496E-02	2.42352E 00	3.50023E-02
31.00	1.50061E-03	2.36157E 00	9.52202E-02	-2.79107E 01	-9.04198E-02	2.43906E 00	3.50036E-02
31.10	1.51030E-03	2.37691E 00	9.62253E-02	-2.79118E 01	-9.13968E-02	2.45464E 00	3.50048E-02
31.20	1.52002E-03	2.39229E 00	9.72373E-02	-2.79129E 01	-9.23807E-02	2.47027E 00	3.50060E-02
31.30	1.52977E-03	2.40772E 00	9.82563E-02	-2.79140E 01	-9.33716E-02	2.48595E 00	3.50072E-02
31.40	1.53956E-03	2.42320E 00	9.92824E-02	-2.79151E 01	-9.43694E-02	2.50168E 00	3.50084E-02
31.50	1.54938E-03	2.43873E 00	1.00316E-01	-2.79162E 01	-9.53742E-02	2.51746E 00	3.50096E-02
31.60	1.55922E-03	2.45431E 00	1.01356E-01	-2.79173E 01	-9.63860E-02	2.53328E 00	3.50108E-02
31.70	1.56910E-03	2.46994E 00	1.02403E-01	-2.79183E 01	-9.74048E-02	2.54916E 00	3.50119E-02
31.80	1.57901E-03	2.48561E 00	1.03458E-01	-2.79194E 01	-9.84307E-02	2.56509E 00	3.50131E-02
31.90	1.58895E-03	2.50134E 00	1.04519E-01	-2.79205E 01	-9.94637E-02	2.58106E 00	3.50143E-02
32.00	1.59892E-03	2.51711E 00	1.05588E-01	-2.79215E 01	-1.00504E-01	2.59708E 00	3.50154E-02
32.10	1.60893E-03	2.53293E 00	1.06664E-01	-2.79226E 01	-1.01551E-01	2.61315E 00	3.50166E-02
32.20	1.61896E-03	2.54881E 00	1.07747E-01	-2.79236E 01	-1.02605E-01	2.62927E 00	3.50177E-02
32.30	1.62903E-03	2.56473E 00	1.08838E-01	-2.79246E 01	-1.03667E-01	2.64544E 00	3.50188E-02
32.40	1.63912E-03	2.58070E 00	1.09936E-01	-2.79257E 01	-1.04736E-01	2.66166E 00	3.50200E-02
32.50	1.64925E-03	2.59671E 00	1.11041E-01	-2.79267E 01	-1.05811E-01	2.67793E 00	3.50211E-02
32.60	1.65941E-03	2.61278E 00	1.12153E-01	-2.79277E 01	-1.06895E-01	2.69424E 00	3.50222E-02
32.70	1.66960E-03	2.62890E 00	1.13273E-01	-2.79287E 01	-1.07985E-01	2.71061E 00	3.50233E-02
32.80	1.67982E-03	2.64506E 00	1.14400E-01	-2.79297E 01	-1.09083E-01	2.72702E 00	3.50244E-02
32.90	1.69007E-03	2.66128E 00	1.15534E-01	-2.79307E 01	-1.10188E-01	2.74348E 00	3.50255E-02
33.00	1.70036E-03	2.67754E 00	1.16676E-01	-2.79317E 01	-1.11300E-01	2.75999E 00	3.50266E-02
33.10	1.71067E-03	2.69385E 00	1.17826E-01	-2.79327E 01	-1.12420E-01	2.77655E 00	3.50277E-02
33.20	1.72102E-03	2.71021E 00	1.18983E-01	-2.79337E 01	-1.13547E-01	2.79316E 00	3.50287E-02
33.30	1.73140E-03	2.72662E 00	1.20147E-01	-2.79346E 01	-1.14682E-01	2.80982E 00	3.50298E-02
33.40	1.74180E-03	2.74308E 00	1.21319E-01	-2.79356E 01	-1.15824E-01	2.82653E 00	3.50309E-02
33.50	1.75224E-03	2.75958E 00	1.22498E-01	-2.79366E 01	-1.16973E-01	2.84328E 00	3.50319E-02
33.60	1.76271E-03	2.77614E 00	1.23685E-01	-2.79375E 01	-1.18130E-01	2.86008E 00	3.50330E-02
33.70	1.77322E-03	2.79274E 00	1.24880E-01	-2.79385E 01	-1.19295E-01	2.87694E 00	3.50340E-02
33.80	1.78375E-03	2.80939E 00	1.26082E-01	-2.79394E 01	-1.20467E-01	2.89384E 00	3.50351E-02
33.90	1.79431E-03	2.82609E 00	1.27292E-01	-2.79403E 01	-1.21646E-01	2.91079E 00	3.50361E-02
34.00	1.80491E-03	2.84284E 00	1.28509E-01	-2.79413E 01	-1.22834E-01	2.92778E 00	3.50371E-02
34.10	1.81553E-03	2.85964E 00	1.29734E-01	-2.79422E 01	-1.24028E-01	2.94483E 00	3.50382E-02
34.20	1.82619E-03	2.87649E 00	1.30967E-01	-2.79431E 01	-1.25231E-01	2.96193E 00	3.50392E-02
34.30	1.83688E-03	2.89339E 00	1.32208E-01	-2.79440E 01	-1.26441E-01	2.97907E 00	3.50402E-02
34.40	1.84760E-03	2.91033E 00	1.33456E-01	-2.79449E 01	-1.27658E-01	2.99627E 00	3.50412E-02
34.50	1.85835E-03	2.92732E 00	1.34712E-01	-2.79458E 01	-1.28884E-01	3.01351E 00	3.50422E-02
34.60	1.86914E-03	2.94437E 00	1.35976E-01	-2.79467E 01	-1.30117E-01	3.03080E 00	3.50432E-02
34.70	1.87995E-03	2.96146E 00	1.37248E-01	-2.79476E 01	-1.31358E-01	3.04814E 00	3.50442E-02
34.80	1.89079E-03	2.97860E 00	1.38527E-01	-2.79485E 01	-1.32606E-01	3.06552E 00	3.50452E-02
34.90	1.90167E-03	2.99578E 00	1.39815E-01	-2.79494E 01	-1.33863E-01	3.08296E 00	3.50461E-02
35.00	1.91258E-03	3.01302E 00	1.41110E-01	-2.79502E 01	-1.35127E-01	3.10044E 00	3.50471E-02
35.10	1.92351E-03	3.03031E 00	1.42413E-01	-2.79511E 01	-1.36399E-01	3.11798E 00	3.50481E-02
35.20	1.93448E-03	3.04764E 00	1.43724E-01	-2.79520E 01	-1.37679E-01	3.13556E 00	3.50490E-02
35.30	1.94548E-03	3.06502E 00	1.45044E-01	-2.79528E 01	-1.38967E-01	3.15319E 00	3.50500E-02
35.40	1.95652E-03	3.08245E 00	1.46371E-01	-2.79537E 01	-1.40262E-01	3.17087E 00	3.50510E-02
35.50	1.96758E-03	3.09993E 00	1.47706E-01	-2.79545E 01	-1.41566E-01	3.18860E 00	3.50519E-02
35.60	1.97867E-03	3.11746E 00	1.49049E-01	-2.79554E 01	-1.42878E-01	3.20637E 00	3.50529E-02
35.70	1.98980E-03	3.13504E 00	1.50400E-01	-2.79562E 01	-1.44197E-01	3.22420E 00	3.50538E-02
35.80	2.00095E-03	3.15266E 00	1.51760E-01	-2.79571E 01	-1.45525E-01	3.24207E 00	3.50547E-02
35.90	2.01214E-03	3.17034E 00	1.53127E-01	-2.79579E 01	-1.46860E-01	3.25999E 00	3.50557E-02
36.00	2.02336E-03	3.18806E 00	1.54503E-01	-2.79587E 01	-1.48204E-01	3.27796E 00	3.50566E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=7$		$A=14$		$\rho=1.3 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
36.10	8.54604E-01	3.40316E 01	2.73024E 00	-8.63380E-04	-2.62267E 00	3.50636E 01	4.42954E 02	
36.20	8.54598E-01	3.41324E 01	2.74766E 00	-8.63261E-04	-2.63986E 00	3.51650E 01	4.43757E 02	
36.30	8.54593E-01	3.42333E 01	2.76514E 00	-8.63114E-04	-2.65712E 00	3.52665E 01	4.44564E 02	
36.40	8.54587E-01	3.43342E 01	2.78268E 00	-8.62961E-04	-2.67443E 00	3.53680E 01	4.45371E 02	
36.50	8.54581E-01	3.44352E 01	2.80027E 00	-8.62786E-04	-2.69180E 00	3.54695E 01	4.46182E 02	
36.60	8.54575E-01	3.45362E 01	2.81793E 00	-8.62598E-04	-2.70923E 00	3.55711E 01	4.46993E 02	
36.70	8.54569E-01	3.46372E 01	2.83564E 00	-8.62380E-04	-2.72672E 00	3.56728E 01	4.47810E 02	
36.80	8.54564E-01	3.47383E 01	2.85342E 00	-8.62164E-04	-2.74427E 00	3.57744E 01	4.48625E 02	
36.90	8.54558E-01	3.48395E 01	2.87126E 00	-8.61918E-04	-2.76188E 00	3.58762E 01	4.49444E 02	
37.00	8.54552E-01	3.49406E 01	2.88915E 00	-8.61673E-04	-2.77955E 00	3.59779E 01	4.50263E 02	
37.10	8.54546E-01	3.50419E 01	2.90710E 00	-8.61398E-04	-2.79728E 00	3.60798E 01	4.51086E 02	
37.20	8.54541E-01	3.51431E 01	2.92512E 00	-8.61109E-04	-2.81507E 00	3.61816E 01	4.51911E 02	
37.30	8.54534E-01	3.52445E 01	2.94319E 00	-8.60808E-04	-2.83291E 00	3.62835E 01	4.52738E 02	
37.40	8.54528E-01	3.53458E 01	2.96133E 00	-8.60492E-04	-2.85082E 00	3.63855E 01	4.53567E 02	
37.50	8.54523E-01	3.54472E 01	2.97952E 00	-8.60158E-04	-2.86879E 00	3.64875E 01	4.54398E 02	
37.60	8.54517E-01	3.55487E 01	2.99778E 00	-8.59812E-04	-2.88683E 00	3.65896E 01	4.55231E 02	
37.70	8.54511E-01	3.56502E 01	3.01609E 00	-8.59447E-04	-2.90492E 00	3.66917E 01	4.56067E 02	
37.80	8.54506E-01	3.57517E 01	3.03446E 00	-8.59068E-04	-2.92307E 00	3.67938E 01	4.56905E 02	
37.90	8.54500E-01	3.58533E 01	3.05290E 00	-8.58673E-04	-2.94128E 00	3.68960E 01	4.57745E 02	
38.00	8.54495E-01	3.59549E 01	3.07139E 00	-8.58261E-04	-2.95955E 00	3.69983E 01	4.58588E 02	
38.10	8.54489E-01	3.60566E 01	3.08995E 00	-8.57841E-04	-2.97788E 00	3.71006E 01	4.59432E 02	
38.20	8.54483E-01	3.61583E 01	3.10857E 00	-8.57397E-04	-2.99628E 00	3.72029E 01	4.60281E 02	
38.30	8.54478E-01	3.62601E 01	3.12724E 00	-8.56943E-04	-3.01473E 00	3.73053E 01	4.61130E 02	
38.40	8.54472E-01	3.63619E 01	3.14598E 00	-8.56474E-04	-3.03324E 00	3.74077E 01	4.61982E 02	
38.50	8.54467E-01	3.64638E 01	3.16478E 00	-8.55982E-04	-3.05182E 00	3.75102E 01	4.62839E 02	
38.60	8.54461E-01	3.65657E 01	3.18363E 00	-8.55494E-04	-3.07046E 00	3.76127E 01	4.63694E 02	
38.70	8.54456E-01	3.66676E 01	3.20255E 00	-8.54974E-04	-3.08915E 00	3.77153E 01	4.64554E 02	
38.80	8.54450E-01	3.67696E 01	3.22153E 00	-8.54455E-04	-3.10791E 00	3.78179E 01	4.65415E 02	
38.90	8.54445E-01	3.68717E 01	3.24057E 00	-8.53906E-04	-3.12673E 00	3.79206E 01	4.66281E 02	
39.00	8.54439E-01	3.69738E 01	3.25967E 00	-8.53349E-04	-3.14561E 00	3.80233E 01	4.67148E 02	
39.10	8.54434E-01	3.70759E 01	3.27884E 00	-8.52779E-04	-3.16455E 00	3.81261E 01	4.68018E 02	
39.20	8.54428E-01	3.71781E 01	3.29806E 00	-8.52197E-04	-3.18356E 00	3.82289E 01	4.68890E 02	
39.30	8.54423E-01	3.72803E 01	3.31734E 00	-8.51592E-04	-3.20262E 00	3.83318E 01	4.69766E 02	
39.40	8.54417E-01	3.73826E 01	3.33669E 00	-8.50975E-04	-3.22174E 00	3.84347E 01	4.70644E 02	
39.50	8.54412E-01	3.74849E 01	3.35610E 00	-8.50348E-04	-3.24093E 00	3.85377E 01	4.71525E 02	
39.60	8.54406E-01	3.75873E 01	3.37556E 00	-8.49706E-04	-3.26018E 00	3.86407E 01	4.72408E 02	
39.70	8.54401E-01	3.76897E 01	3.39509E 00	-8.49053E-04	-3.27949E 00	3.87438E 01	4.73293E 02	
39.80	8.54396E-01	3.77922E 01	3.41468E 00	-8.48386E-04	-3.29886E 00	3.88469E 01	4.74182E 02	
39.90	8.54390E-01	3.78947E 01	3.43434E 00	-8.47690E-04	-3.31829E 00	3.89500E 01	4.75076E 02	
40.00	8.54385E-01	3.79973E 01	3.45405E 00	-8.46998E-04	-3.33779E 00	3.90533E 01	4.75969E 02	
40.10	8.54380E-01	3.80999E 01	3.47382E 00	-8.46287E-04	-3.35734E 00	3.91565E 01	4.76866E 02	
40.20	8.54374E-01	3.82026E 01	3.49366E 00	-8.45558E-04	-3.37696E 00	3.92598E 01	4.77768E 02	
40.30	8.54369E-01	3.83053E 01	3.51356E 00	-8.44818E-04	-3.39664E 00	3.93632E 01	4.78671E 02	
40.40	8.54364E-01	3.84080E 01	3.53352E 00	-8.44069E-04	-3.41639E 00	3.94666E 01	4.79576E 02	
40.50	8.54358E-01	3.85108E 01	3.55354E 00	-8.43303E-04	-3.43619E 00	3.95701E 01	4.80486E 02	
40.60	8.54353E-01	3.86137E 01	3.57362E 00	-8.42527E-04	-3.45606E 00	3.96736E 01	4.81397E 02	
40.70	8.54348E-01	3.87166E 01	3.59377E 00	-8.41739E-04	-3.47598E 00	3.97772E 01	4.82311E 02	
40.80	8.54343E-01	3.88196E 01	3.61398E 00	-8.40927E-04	-3.49598E 00	3.98808E 01	4.83231E 02	
40.90	8.54337E-01	3.89226E 01	3.63425E 00	-8.40110E-04	-3.51603E 00	3.99845E 01	4.84152E 02	
41.00	8.54332E-01	3.90256E 01	3.65458E 00	-8.39277E-04	-3.53614E 00	4.00882E 01	4.85076E 02	
41.10	8.54327E-01	3.91287E 01	3.67497E 00	-8.38427E-04	-3.55632E 00	4.01920E 01	4.86005E 02	
41.20	8.54322E-01	3.92319E 01	3.69543E 00	-8.37568E-04	-3.57656E 00	4.02958E 01	4.86936E 02	
41.30	8.54316E-01	3.93351E 01	3.71595E 00	-8.36697E-04	-3.59687E 00	4.03997E 01	4.87869E 02	
41.40	8.54311E-01	3.94383E 01	3.73653E 00	-8.35815E-04	-3.61723E 00	4.05036E 01	4.88806E 02	
41.50	8.54306E-01	3.95416E 01	3.75717E 00	-8.34914E-04	-3.63766E 00	4.06076E 01	4.89747E 02	
41.60	8.54301E-01	3.96450E 01	3.77788E 00	-8.34003E-04	-3.65815E 00	4.07116E 01	4.90691E 02	
41.70	8.54296E-01	3.97484E 01	3.79865E 00	-8.33080E-04	-3.67870E 00	4.08157E 01	4.91638E 02	
41.80	8.54291E-01	3.98519E 01	3.81948E 00	-8.32146E-04	-3.69932E 00	4.09199E 01	4.92587E 02	
41.90	8.54285E-01	3.99554E 01	3.84037E 00	-8.31190E-04	-3.72000E 00	4.10240E 01	4.93543E 02	
42.00	8.54280E-01	4.00589E 01	3.86133E 00	-8.30227E-04	-3.74074E 00	4.11283E 01	4.94500E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z=7$  $A=14$  $\rho=1.3A^{1/3}F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
36.10	2.03461E-03	3.20583E 00	1.55887E-01	-2.79595E 01	-1.49556E-01	3.29598E 00	3.50575E-02
36.20	2.04589E-03	3.22365E 00	1.57278E-01	-2.79604E 01	-1.50916E-01	3.31405E 00	3.50584E-02
36.30	2.05720E-03	3.24152E 00	1.58679E-01	-2.79612E 01	-1.52284E-01	3.33217E 00	3.50593E-02
36.40	2.06855E-03	3.25944E 00	1.60087E-01	-2.79620E 01	-1.53660E-01	3.35033E 00	3.50602E-02
36.50	2.07992E-03	3.27740E 00	1.61503E-01	-2.79628E 01	-1.55044E-01	3.36854E 00	3.50611E-02
36.60	2.09133E-03	3.29541E 00	1.62928E-01	-2.79636E 01	-1.56437E-01	3.38680E 00	3.50620E-02
36.70	2.10276E-03	3.31347E 00	1.64361E-01	-2.79644E 01	-1.57837E-01	3.40511E 00	3.50629E-02
36.80	2.11423E-03	3.33158E 00	1.65803E-01	-2.79651E 01	-1.59246E-01	3.42347E 00	3.50638E-02
36.90	2.12573E-03	3.34974E 00	1.67253E-01	-2.79659E 01	-1.60663E-01	3.44188E 00	3.50647E-02
37.00	2.13726E-03	3.36795E 00	1.68711E-01	-2.79667E 01	-1.62089E-01	3.46033E 00	3.50656E-02
37.10	2.14882E-03	3.38621E 00	1.70177E-01	-2.79675E 01	-1.63523E-01	3.47884E 00	3.50664E-02
37.20	2.16042E-03	3.40451E 00	1.71652E-01	-2.79683E 01	-1.64965E-01	3.49739E 00	3.50673E-02
37.30	2.17204E-03	3.42286E 00	1.73136E-01	-2.79690E 01	-1.66415E-01	3.51599E 00	3.50682E-02
37.40	2.18369E-03	3.44126E 00	1.74628E-01	-2.79698E 01	-1.67874E-01	3.53464E 00	3.50690E-02
37.50	2.19538E-03	3.45971E 00	1.76128E-01	-2.79705E 01	-1.69341E-01	3.55333E 00	3.50699E-02
37.60	2.20710E-03	3.47821E 00	1.77637E-01	-2.79713E 01	-1.70817E-01	3.57208E 00	3.50707E-02
37.70	2.21885E-03	3.49675E 00	1.79154E-01	-2.79720E 01	-1.72301E-01	3.59087E 00	3.50716E-02
37.80	2.23063E-03	3.51535E 00	1.80680E-01	-2.79728E 01	-1.73794E-01	3.60971E 00	3.50724E-02
37.90	2.24244E-03	3.53399E 00	1.82215E-01	-2.79735E 01	-1.75295E-01	3.62860E 00	3.50733E-02
38.00	2.25428E-03	3.55268E 00	1.83758E-01	-2.79743E 01	-1.76805E-01	3.64754E 00	3.50741E-02
38.10	2.26615E-03	3.57142E 00	1.85310E-01	-2.79750E 01	-1.78323E-01	3.66653E 00	3.50749E-02
38.20	2.27806E-03	3.59021E 00	1.86870E-01	-2.79757E 01	-1.79850E-01	3.68556E 00	3.50758E-02
38.30	2.28999E-03	3.60904E 00	1.88439E-01	-2.79765E 01	-1.81385E-01	3.70464E 00	3.50766E-02
38.40	2.30196E-03	3.62792E 00	1.90017E-01	-2.79772E 01	-1.82929E-01	3.72377E 00	3.50774E-02
38.50	2.31396E-03	3.64686E 00	1.91603E-01	-2.79779E 01	-1.84481E-01	3.74295E 00	3.50782E-02
38.60	2.32599E-03	3.66584E 00	1.93198E-01	-2.79786E 01	-1.86043E-01	3.76218E 00	3.50790E-02
38.70	2.33805E-03	3.68486E 00	1.94802E-01	-2.79793E 01	-1.87613E-01	3.78146E 00	3.50798E-02
38.80	2.35014E-03	3.70394E 00	1.96415E-01	-2.79800E 01	-1.89191E-01	3.80078E 00	3.50806E-02
38.90	2.36226E-03	3.72307E 00	1.98037E-01	-2.79807E 01	-1.90779E-01	3.82015E 00	3.50814E-02
39.00	2.37441E-03	3.74224E 00	1.99667E-01	-2.79814E 01	-1.92375E-01	3.83957E 00	3.50822E-02
39.10	2.38660E-03	3.76146E 00	2.01306E-01	-2.79821E 01	-1.93980E-01	3.85904E 00	3.50830E-02
39.20	2.39881E-03	3.78073E 00	2.02955E-01	-2.79828E 01	-1.95594E-01	3.87856E 00	3.50838E-02
39.30	2.41106E-03	3.80005E 00	2.04612E-01	-2.79835E 01	-1.97216E-01	3.89812E 00	3.50846E-02
39.40	2.42334E-03	3.81941E 00	2.06278E-01	-2.79842E 01	-1.98848E-01	3.91774E 00	3.50854E-02
39.50	2.43565E-03	3.83883E 00	2.07953E-01	-2.79848E 01	-2.00488E-01	3.93740E 00	3.50861E-02
39.60	2.44799E-03	3.85829E 00	2.09637E-01	-2.79855E 01	-2.02137E-01	3.95711E 00	3.50869E-02
39.70	2.46036E-03	3.87780E 00	2.11329E-01	-2.79862E 01	-2.03795E-01	3.97687E 00	3.50877E-02
39.80	2.47276E-03	3.89736E 00	2.13031E-01	-2.79869E 01	-2.05462E-01	3.99667E 00	3.50885E-02
39.90	2.48520E-03	3.91696E 00	2.14742E-01	-2.79875E 01	-2.07138E-01	4.01652E 00	3.50892E-02
40.00	2.49766E-03	3.93662E 00	2.16462E-01	-2.79882E 01	-2.08823E-01	4.03643E 00	3.50900E-02
40.10	2.51016E-03	3.95632E 00	2.18192E-01	-2.79888E 01	-2.10517E-01	4.05638E 00	3.50907E-02
40.20	2.52269E-03	3.97607E 00	2.19930E-01	-2.79895E 01	-2.12220E-01	4.07637E 00	3.50915E-02
40.30	2.53525E-03	3.99587E 00	2.21677E-01	-2.79901E 01	-2.13932E-01	4.09642E 00	3.50922E-02
40.40	2.54784E-03	4.01572E 00	2.23434E-01	-2.79908E 01	-2.15654E-01	4.11651E 00	3.50930E-02
40.50	2.56046E-03	4.03561E 00	2.25200E-01	-2.79914E 01	-2.17384E-01	4.13666E 00	3.50937E-02
40.60	2.57311E-03	4.05556E 00	2.26974E-01	-2.79921E 01	-2.19123E-01	4.15685E 00	3.50945E-02
40.70	2.58579E-03	4.07555E 00	2.28759E-01	-2.79927E 01	-2.20872E-01	4.17708E 00	3.50952E-02
40.80	2.59851E-03	4.09558E 00	2.30552E-01	-2.79933E 01	-2.22630E-01	4.19737E 00	3.50959E-02
40.90	2.61125E-03	4.11567E 00	2.32355E-01	-2.79940E 01	-2.24397E-01	4.21770E 00	3.50967E-02
41.00	2.62403E-03	4.13581E 00	2.34167E-01	-2.79946E 01	-2.26173E-01	4.23808E 00	3.50974E-02
41.10	2.63684E-03	4.15599E 00	2.35988E-01	-2.79952E 01	-2.27958E-01	4.25851E 00	3.50981E-02
41.20	2.64968E-03	4.17622E 00	2.37819E-01	-2.79958E 01	-2.29753E-01	4.27899E 00	3.50988E-02
41.30	2.66255E-03	4.19650E 00	2.39659E-01	-2.79965E 01	-2.31557E-01	4.29952E 00	3.50995E-02
41.40	2.67545E-03	4.21682E 00	2.41508E-01	-2.79971E 01	-2.33370E-01	4.32009E 00	3.51002E-02
41.50	2.68838E-03	4.23720E 00	2.43367E-01	-2.79977E 01	-2.35193E-01	4.34071E 00	3.51010E-02
41.60	2.70134E-03	4.25762E 00	2.45236E-01	-2.79983E 01	-2.37025E-01	4.36138E 00	3.51017E-02
41.70	2.71434E-03	4.27809E 00	2.47113E-01	-2.79989E 01	-2.38867E-01	4.38210E 00	3.51024E-02
41.80	2.72736E-03	4.29861E 00	2.49001E-01	-2.79995E 01	-2.40717E-01	4.40286E 00	3.51031E-02
41.90	2.74042E-03	4.31917E 00	2.50898E-01	-2.80001E 01	-2.42578E-01	4.42368E 00	3.51038E-02
42.00	2.75351E-03	4.33979E 00	2.52804E-01	-2.80007E 01	-2.44447E-01	4.44454E 00	3.51045E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$		$A=12$		$\rho=1.1 A^{1/3} F$		
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
0.10	3.00119E 00	-1.32769E-02	-2.90465E-04	-1.91068E-01	-4.28525E-03	2.44469E-01	-4.39128E 00
0.20	1.89011E 00	-3.91820E-02	-8.58467E-04	-9.15769E-02	-6.78923E-03	3.86607E-01	-8.01017E 00
0.30	1.57777E 00	-4.71535E-02	-1.71644E-03	-5.99149E-02	-9.27856E-03	5.26778E-01	-1.17252E 01
0.40	1.43663E 00	-1.28918E-01	-2.84061E-03	-4.41841E-02	-1.17640E-02	6.65174E-01	-1.53936E 01
0.50	1.35816E 00	-1.89965E-01	-4.20269E-03	-3.47314E-02	-1.42423E-02	8.01266E-01	-1.89838E 01
0.60	1.30918E 00	-2.59731E-01	-5.77335E-03	-2.84021E-02	-1.67132E-02	9.34764E-01	-2.24825E 01
0.70	1.27625E 00	-3.36727E-01	-7.52475E-03	-2.38558E-02	-1.91787E-02	1.06560E 00	-2.58832E 01
0.80	1.25296E 00	-4.19623E-01	-9.43195E-03	-2.04250E-02	-2.16428E-02	1.19386E 00	-2.91829E 01
0.90	1.23583E 00	-5.07279E-01	-1.14736E-02	-1.77399E-02	-2.41103E-02	1.31972E 00	-3.23811E 01
1.00	1.22285E 00	-5.98748E-01	-1.36322E-02	-1.55785E-02	-2.65860E-02	1.44339E 00	-3.54784E 01
1.10	1.21278E 00	-6.93260E-01	-1.58932E-02	-1.37995E-02	-2.90748E-02	1.56513E 00	-3.84768E 01
1.20	1.20481E 00	-7.90200E-01	-1.82453E-02	-1.23086E-02	-3.15811E-02	1.68516E 00	-4.13788E 01
1.30	1.19839E 00	-8.89076E-01	-2.06793E-02	-1.10404E-02	-3.41048E-02	1.80370E 00	-4.41874E 01
1.40	1.19315E 00	-9.89500E-01	-2.31881E-02	-9.94793E-03	-3.66617E-02	1.92093E 00	-4.69057E 01
1.50	1.18880E 00	-1.09117E 00	-2.57660E-02	-8.99676E-03	-3.92425E-02	2.03704E 00	-4.95372E 01
1.60	1.18517E 00	-1.19383E 00	-2.84085E-02	-8.16091E-03	-4.18539E-02	2.15218E 00	-5.20851E 01
1.70	1.18209E 00	-1.29731E 00	-3.11122E-02	-7.42047E-03	-4.44980E-02	2.26646E 00	-5.45530E 01
1.80	1.17947E 00	-1.40143E 00	-3.38742E-02	-6.75985E-03	-4.71768E-02	2.38000E 00	-5.69439E 01
1.90	1.17721E 00	-1.50610E 00	-3.66923E-02	-6.16677E-03	-4.98918E-02	2.49290E 00	-5.92612E 01
2.00	1.17525E 00	-1.61120E 00	-3.95647E-02	-5.63129E-03	-5.26444E-02	2.60523E 00	-6.15080E 01
2.10	1.17354E 00	-1.71666E 00	-4.24901E-02	-5.14540E-03	-5.54356E-02	2.71707E 00	-6.36872E 01
2.20	1.17204E 00	-1.82241E 00	-4.54672E-02	-4.70245E-03	-5.82666E-02	2.82847E 00	-6.58015E 01
2.30	1.17071E 00	-1.92841E 00	-4.84952E-02	-4.29699E-03	-6.11380E-02	2.93949E 00	-6.78539E 01
2.40	1.16953E 00	-2.03460E 00	-5.15733E-02	-3.92444E-03	-6.40507E-02	3.05017E 00	-6.98468E 01
2.50	1.16847E 00	-2.14097E 00	-5.47008E-02	-3.58094E-03	-6.70052E-02	3.16055E 00	-7.17828E 01
2.60	1.16753E 00	-2.24748E 00	-5.78773E-02	-3.26320E-03	-7.00021E-02	3.27066E 00	-7.36641E 01
2.70	1.16667E 00	-2.35410E 00	-6.11024E-02	-2.96844E-03	-7.30417E-02	3.38052E 00	-7.54930E 01
2.80	1.16590E 00	-2.46082E 00	-6.43757E-02	-2.69423E-03	-7.61246E-02	3.49017E 00	-7.72715E 01
2.90	1.16520E 00	-2.56762E 00	-6.76970E-02	-2.43850E-03	-7.92510E-02	3.59962E 00	-7.90019E 01
3.00	1.16456E 00	-2.67449E 00	-7.10659E-02	-2.19943E-03	-8.24212E-02	3.70889E 00	-8.06858E 01
3.10	1.16398E 00	-2.78142E 00	-7.44823E-02	-1.97546E-03	-8.56355E-02	3.81801E 00	-8.23253E 01
3.20	1.16344E 00	-2.88839E 00	-7.79460E-02	-1.76520E-03	-8.88942E-02	3.92698E 00	-8.39219E 01
3.30	1.16295E 00	-2.99540E 00	-8.14569E-02	-1.56741E-03	-9.21973E-02	4.03581E 00	-8.54773E 01
3.40	1.16249E 00	-3.10244E 00	-8.50148E-02	-1.38103E-03	-9.55451E-02	4.14453E 00	-8.69931E 01
3.50	1.16207E 00	-3.20951E 00	-8.86197E-02	-1.20509E-03	-9.89378E-02	4.25313E 00	-8.84708E 01
3.60	1.16168E 00	-3.31659E 00	-9.22715E-02	-1.03875E-03	-1.02375E-01	4.36163E 00	-8.99120E 01
3.70	1.16132E 00	-3.42370E 00	-9.59700E-02	-8.81224E-04	-1.05858E-01	4.47003E 00	-9.13176E 01
3.80	1.16098E 00	-3.53081E 00	-9.97152E-02	-7.31848E-04	-1.09386E-01	4.57835E 00	-9.26893E 01
3.90	1.16067E 00	-3.63794E 00	-1.03507E-01	-5.90004E-04	-1.12959E-01	4.68658E 00	-9.40281E 01
4.00	1.16037E 00	-3.74508E 00	-1.07346E-01	-4.55133E-04	-1.16578E-01	4.79474E 00	-9.53352E 01
4.10	1.16009E 00	-3.85222E 00	-1.11231E-01	-3.26734E-04	-1.20242E-01	4.90283E 00	-9.66118E 01
4.20	1.15983E 00	-3.95936E 00	-1.15162E-01	-2.04354E-04	-1.23952E-01	5.01086E 00	-9.78590E 01
4.30	1.15959E 00	-4.06650E 00	-1.19141E-01	-8.75785E-05	-1.27707E-01	5.11882E 00	-9.90776E 01
4.40	1.15936E 00	-4.17365E 00	-1.23165E-01	2.39631E-05	-1.31508E-01	5.22672E 00	-1.00269E 02
4.50	1.15914E 00	-4.28079E 00	-1.27236E-01	1.30621E-04	-1.35354E-01	5.33457E 00	-1.01433E 02
4.60	1.15893E 00	-4.38793E 00	-1.31354E-01	2.32710E-04	-1.39247E-01	5.44237E 00	-1.02572E 02
4.70	1.15874E 00	-4.49506E 00	-1.35517E-01	3.30506E-04	-1.43185E-01	5.55012E 00	-1.03686E 02
4.80	1.15855E 00	-4.60219E 00	-1.39728E-01	4.24277E-04	-1.47168E-01	5.65783E 00	-1.04777E 02
4.90	1.15838E 00	-4.70931E 00	-1.43984E-01	5.14272E-04	-1.51198E-01	5.76549E 00	-1.05843E 02
5.00	1.15821E 00	-4.81643E 00	-1.48287E-01	6.00700E-04	-1.55274E-01	5.87311E 00	-1.06888E 02
5.10	1.15805E 00	-4.92354E 00	-1.52637E-01	6.83794E-04	-1.59395E-01	5.98069E 00	-1.07910E 02
5.20	1.15790E 00	-5.03064E 00	-1.57032E-01	7.63707E-04	-1.63562E-01	6.08823E 00	-1.08912E 02
5.30	1.15775E 00	-5.13773E 00	-1.61474E-01	8.40651E-04	-1.67776E-01	6.19574E 00	-1.09893E 02
5.40	1.15761E 00	-5.24482E 00	-1.65962E-01	9.14767E-04	-1.72035E-01	6.30321E 00	-1.10854E 02
5.50	1.15748E 00	-5.35190E 00	-1.70497E-01	9.86212E-04	-1.76340E-01	6.41065E 00	-1.11796E 02
5.60	1.15735E 00	-5.45897E 00	-1.75078E-01	1.05513E-03	-1.80692E-01	6.51806E 00	-1.12720E 02
5.70	1.15723E 00	-5.56603E 00	-1.79705E-01	1.12165E-03	-1.85089E-01	6.62544E 00	-1.13625E 02
5.80	1.15711E 00	-5.67307E 00	-1.84378E-01	1.18590E-03	-1.89532E-01	6.73279E 00	-1.14513E 02
5.90	1.15700E 00	-5.78011E 00	-1.89098E-01	1.24798E-03	-1.94021E-01	6.84011E 00	-1.15384E 02
6.00	1.15689E 00	-5.88714E 00	-1.93864E-01	1.30801E-03	-1.98557E-01	6.94741E 00	-1.16238E 02

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	Electron
0.10	4.19769E-08	-2.92806E-06	-3.69642E-08	2.32085E 00	-5.79498E-07	5.78616E-05	-1.93681E-01	
0.20	9.30472E-08	-1.70641E-05	-2.15750E-07	4.82351E 00	-1.72261E-06	1.71667E-04	-9.56841E-02	
0.30	1.70385E-07	-5.09374E-05	-6.45634E-07	7.18406E 00	-3.48736E-06	3.46443E-04	-6.55560E-02	
0.40	2.73370E-07	-1.11949E-04	-1.42378E-06	9.40344E 00	-5.87039E-06	5.80695E-04	-5.13141E-02	
0.50	4.02173E-07	-2.06140E-04	-2.63274E-06	1.14638E 01	-8.86810E-06	8.72609E-04	-4.32807E-02	
0.60	5.57041E-07	-3.38173E-04	-4.34027E-06	1.33544E 01	-1.24781E-05	1.22028E-03	-3.82896E-02	
0.70	7.38198E-07	-5.11470E-04	-6.60078E-06	1.50732E 01	-1.67002E-05	1.62191E-03	-3.49954E-02	
0.80	9.45834E-07	-7.28431E-04	-9.45777E-06	1.66252E 01	-2.15373E-05	2.07591E-03	-3.27299E-02	
0.90	1.18010E-06	-9.90679E-04	-1.29464E-05	1.80205E 01	-2.69950E-05	2.58095E-03	-3.11252E-02	
1.00	1.44112E-06	-1.29926E-03	-1.70958E-05	1.92715E 01	-3.30816E-05	3.13595E-03	-2.99634E-02	
1.10	1.72898E-06	-1.65484E-03	-2.19307E-05	2.03920E 01	-3.98077E-05	3.74005E-03	-2.91080E-02	
1.20	2.04375E-06	-2.05778E-03	-2.74733E-05	2.13956E 01	-4.71856E-05	4.39261E-03	-2.84704E-02	
1.30	2.38551E-06	-2.50829E-03	-3.37436E-05	2.22954E 01	-5.52294E-05	5.09312E-03	-2.79906E-02	
1.40	2.75428E-06	-3.00647E-03	-4.07606E-05	2.31034E 01	-6.39539E-05	5.84121E-03	-2.76273E-02	
1.50	3.15010E-06	-3.55231E-03	-4.85425E-05	2.38305E 01	-7.33749E-05	6.63658E-03	-2.73511E-02	
1.60	3.57301E-06	-4.14580E-03	-5.71071E-05	2.44863E 01	-8.35090E-05	7.47903E-03	-2.71410E-02	
1.70	4.02302E-06	-4.78688E-03	-6.64718E-05	2.50793E 01	-9.43731E-05	8.36839E-03	-2.69815E-02	
1.80	4.50014E-06	-5.47549E-03	-7.66543E-05	2.56170E 01	-1.05984E-04	9.30455E-03	-2.68611E-02	
1.90	5.00439E-06	-6.21155E-03	-8.76718E-05	2.61059E 01	-1.18361E-04	1.02874E-02	-2.67712E-02	
2.00	5.53579E-06	-6.99501E-03	-9.95418E-05	2.65515E 01	-1.31519E-04	1.13169E-02	-2.67053E-02	
2.10	6.09434E-06	-7.82577E-03	-1.12282E-04	2.69588E 01	-1.45478E-04	1.23930E-02	-2.66581E-02	
2.20	6.68004E-06	-8.70379E-03	-1.25909E-04	2.73321E 01	-1.60256E-04	1.35157E-02	-2.66260E-02	
2.30	7.29291E-06	-9.62901E-03	-1.40441E-04	2.76751E 01	-1.75870E-04	1.46849E-02	-2.66057E-02	
2.40	7.93295E-06	-1.06014E-02	-1.55896E-04	2.79911E 01	-1.92339E-04	1.59006E-02	-2.65949E-02	
2.50	8.60015E-06	-1.16208E-02	-1.72291E-04	2.82828E 01	-2.09680E-04	1.71628E-02	-2.65918E-02	
2.60	9.29452E-06	-1.26873E-02	-1.89644E-04	2.85528E 01	-2.27912E-04	1.84715E-02	-2.65946E-02	
2.70	1.00161E-05	-1.38008E-02	-2.07973E-04	2.88032E 01	-2.47054E-04	1.98266E-02	-2.66023E-02	
2.80	1.07648E-05	-1.49612E-02	-2.27295E-04	2.90360E 01	-2.67122E-04	2.12283E-02	-2.66139E-02	
2.90	1.15407E-05	-1.61686E-02	-2.47629E-04	2.92528E 01	-2.88137E-04	2.26764E-02	-2.66286E-02	
3.00	1.23438E-05	-1.74228E-02	-2.68991E-04	2.94551E 01	-3.10115E-04	2.41710E-02	-2.66457E-02	
3.10	1.31740E-05	-1.87239E-02	-2.91401E-04	2.96443E 01	-3.33075E-04	2.57121E-02	-2.66647E-02	
3.20	1.40315E-05	-2.00719E-02	-3.14876E-04	2.98215E 01	-3.57035E-04	2.72996E-02	-2.66851E-02	
3.30	1.49161E-05	-2.14667E-02	-3.39434E-04	2.99877E 01	-3.82014E-04	2.89336E-02	-2.67067E-02	
3.40	1.58279E-05	-2.29083E-02	-3.65092E-04	3.01440E 01	-4.08029E-04	3.06141E-02	-2.67292E-02	
3.50	1.67669E-05	-2.43966E-02	-3.91870E-04	3.02911E 01	-4.35099E-04	3.23410E-02	-2.67523E-02	
3.60	1.77331E-05	-2.59317E-02	-4.19785E-04	3.04298E 01	-4.63243E-04	3.41145E-02	-2.67757E-02	
3.70	1.87264E-05	-2.75135E-02	-4.48854E-04	3.05607E 01	-4.92478E-04	3.59344E-02	-2.67995E-02	
3.80	1.97469E-05	-2.91420E-02	-4.79097E-04	3.06844E 01	-5.22822E-04	3.78007E-02	-2.68234E-02	
3.90	2.07946E-05	-3.08173E-02	-5.10531E-04	3.08016E 01	-5.54295E-04	3.97135E-02	-2.68473E-02	
4.00	2.18695E-05	-3.25392E-02	-5.43174E-04	3.09127E 01	-5.86913E-04	4.16728E-02	-2.68711E-02	
4.10	2.29716E-05	-3.43078E-02	-5.77044E-04	3.10181E 01	-6.20696E-04	4.36786E-02	-2.68948E-02	
4.20	2.41008E-05	-3.61231E-02	-6.12159E-04	3.11182E 01	-6.55661E-04	4.57308E-02	-2.69183E-02	
4.30	2.52573E-05	-3.79850E-02	-6.48538E-04	3.12135E 01	-6.91826E-04	4.78295E-02	-2.69415E-02	
4.40	2.64409E-05	-3.98936E-02	-6.86198E-04	3.13042E 01	-7.29211E-04	4.99747E-02	-2.69645E-02	
4.50	2.76517E-05	-4.18488E-02	-7.25158E-04	3.13907E 01	-7.67832E-04	5.21663E-02	-2.69872E-02	
4.60	2.88896E-05	-4.38506E-02	-7.65435E-04	3.14732E 01	-8.07709E-04	5.44044E-02	-2.70095E-02	
4.70	3.01547E-05	-4.58991E-02	-8.07048E-04	3.15520E 01	-8.48859E-04	5.66890E-02	-2.70315E-02	
4.80	3.14471E-05	-4.79941E-02	-8.50015E-04	3.16273E 01	-8.91302E-04	5.90200E-02	-2.70532E-02	
4.90	3.27666E-05	-5.01358E-02	-8.94354E-04	3.16994E 01	-9.35054E-04	6.13975E-02	-2.70744E-02	
5.00	3.41132E-05	-5.23240E-02	-9.40082E-04	3.17684E 01	-9.80133E-04	6.38214E-02	-2.70953E-02	
5.10	3.54871E-05	-5.45588E-02	-9.87220E-04	3.18346E 01	-1.02656E-03	6.62919E-02	-2.71158E-02	
5.20	3.68881E-05	-5.68402E-02	-1.03578E-03	3.18981E 01	-1.07435E-03	6.88087E-02	-2.71359E-02	
5.30	3.83163E-05	-5.91681E-02	-1.08579E-03	3.19590E 01	-1.12352E-03	7.13720E-02	-2.71556E-02	
5.40	3.97717E-05	-6.15426E-02	-1.13726E-03	3.20176E 01	-1.17410E-03	7.39818E-02	-2.71750E-02	
5.50	4.12543E-05	-6.39637E-02	-1.19021E-03	3.20739E 01	-1.22609E-03	7.66380E-02	-2.71939E-02	
5.60	4.27640E-05	-6.64313E-02	-1.24466E-03	3.21280E 01	-1.27952E-03	7.93407E-02	-2.72125E-02	
5.70	4.43009E-05	-6.89455E-02	-1.30063E-03	3.21802E 01	-1.33440E-03	8.20898E-02	-2.72308E-02	
5.80	4.58650E-05	-7.15061E-02	-1.35813E-03	3.22304E 01	-1.39076E-03	8.48854E-02	-2.72486E-02	
5.90	4.74562E-05	-7.41134E-02	-1.41719E-03	3.22788E 01	-1.44861E-03	8.77274E-02	-2.72661E-02	
6.00	4.90746E-05	-7.67671E-02	-1.47781E-03	3.23255E 01	-1.50797E-03	9.06159E-02	-2.72832E-02	



## ELECTRON RADIAL FUNCTIONS

Electron	$Z = 6$	$A = 12$	$\rho = 1.1 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	1.15679E 00	-5.99416E 00	-1.98676E-01	1.36608E-03	-2.03138E-01	7.05468E 00	-1.17076E 02	
6.20	1.15669E 00	-6.10117E 00	-2.03534E-01	1.42229E-03	-2.07765E-01	7.16192E 00	-1.17899E 02	
6.30	1.15659E 00	-6.20817E 00	-2.08439E-01	1.47673E-03	-2.12439E-01	7.26914E 00	-1.18706E 02	
6.40	1.15650E 00	-6.31516E 00	-2.13390E-01	1.52946E-03	-2.17159E-01	7.37634E 00	-1.19499E 02	
6.50	1.15641E 00	-6.42214E 00	-2.18387E-01	1.58059E-03	-2.21924E-01	7.48351E 00	-1.20278E 02	
6.60	1.15632E 00	-6.52910E 00	-2.23430E-01	1.63018E-03	-2.26736E-01	7.59066E 00	-1.21042E 02	
6.70	1.15623E 00	-6.63606E 00	-2.28520E-01	1.67828E-03	-2.31594E-01	7.69779E 00	-1.21793E 02	
6.80	1.15615E 00	-6.74300E 00	-2.33655E-01	1.72499E-03	-2.36498E-01	7.80489E 00	-1.22531E 02	
6.90	1.15607E 00	-6.84994E 00	-2.38837E-01	1.77033E-03	-2.41448E-01	7.91198E 00	-1.23256E 02	
7.00	1.15600E 00	-6.95686E 00	-2.44065E-01	1.81439E-03	-2.46444E-01	8.01905E 00	-1.23969E 02	
7.10	1.15592E 00	-7.06377E 00	-2.49340E-01	1.85720E-03	-2.51486E-01	8.12609E 00	-1.24669E 02	
7.20	1.15585E 00	-7.17067E 00	-2.54660E-01	1.89882E-03	-2.56574E-01	8.23311E 00	-1.25358E 02	
7.30	1.15578E 00	-7.27755E 00	-2.60027E-01	1.93931E-03	-2.61708E-01	8.34012E 00	-1.26035E 02	
7.40	1.15571E 00	-7.38443E 00	-2.65439E-01	1.97870E-03	-2.66889E-01	8.44711E 00	-1.26701E 02	
7.50	1.15565E 00	-7.49129E 00	-2.70898E-01	2.01704E-03	-2.72115E-01	8.55408E 00	-1.27356E 02	
7.60	1.15558E 00	-7.59815E 00	-2.76404E-01	2.05436E-03	-2.77388E-01	8.66103E 00	-1.28001E 02	
7.70	1.15552E 00	-7.70499E 00	-2.81955E-01	2.09072E-03	-2.82706E-01	8.76796E 00	-1.28635E 02	
7.80	1.15546E 00	-7.81182E 00	-2.87552E-01	2.12615E-03	-2.88071E-01	8.87488E 00	-1.29259E 02	
7.90	1.15540E 00	-7.91864E 00	-2.93196E-01	2.16066E-03	-2.93482E-01	8.98178E 00	-1.29873E 02	
8.00	1.15534E 00	-8.02545E 00	-2.98886E-01	2.19432E-03	-2.98939E-01	9.08866E 00	-1.30477E 02	
8.10	1.15528E 00	-8.13225E 00	-3.04621E-01	2.22714E-03	-3.04442E-01	9.19552E 00	-1.31072E 02	
8.20	1.15523E 00	-8.23903E 00	-3.10404E-01	2.25915E-03	-3.09991E-01	9.30237E 00	-1.31658E 02	
8.30	1.15518E 00	-8.34580E 00	-3.16232E-01	2.29039E-03	-3.15586E-01	9.40920E 00	-1.32235E 02	
8.40	1.15512E 00	-8.45256E 00	-3.22106E-01	2.32087E-03	-3.21228E-01	9.51601E 00	-1.32803E 02	
8.50	1.15507E 00	-8.55931E 00	-3.28026E-01	2.35064E-03	-3.26915E-01	9.62281E 00	-1.33363E 02	
8.60	1.15502E 00	-8.66605E 00	-3.33993E-01	2.37971E-03	-3.32648E-01	9.72960E 00	-1.33914E 02	
8.70	1.15497E 00	-8.77278E 00	-3.40005E-01	2.40810E-03	-3.38428E-01	9.83636E 00	-1.34457E 02	
8.80	1.15493E 00	-8.87949E 00	-3.46064E-01	2.43584E-03	-3.44254E-01	9.94312E 00	-1.34992E 02	
8.90	1.15488E 00	-8.98619E 00	-3.52169E-01	2.46295E-03	-3.50125E-01	1.00499E 01	-1.35520E 02	
9.00	1.15483E 00	-9.09288E 00	-3.58319E-01	2.48945E-03	-3.56043E-01	1.01566E 01	-1.36040E 02	
9.10	1.15479E 00	-9.19956E 00	-3.64516E-01	2.51537E-03	-3.62007E-01	1.02633E 01	-1.36553E 02	
9.20	1.15474E 00	-9.30623E 00	-3.70759E-01	2.54071E-03	-3.68016E-01	1.03700E 01	-1.37058E 02	
9.30	1.15470E 00	-9.41288E 00	-3.77048E-01	2.56550E-03	-3.74072E-01	1.04766E 01	-1.37556E 02	
9.40	1.15466E 00	-9.51952E 00	-3.83384E-01	2.58975E-03	-3.80174E-01	1.05833E 01	-1.38047E 02	
9.50	1.15462E 00	-9.62615E 00	-3.89765E-01	2.61348E-03	-3.86322E-01	1.06900E 01	-1.38532E 02	
9.60	1.15458E 00	-9.73278E 00	-3.96192E-01	2.63672E-03	-3.92516E-01	1.07966E 01	-1.39010E 02	
9.70	1.15454E 00	-9.83938E 00	-4.02665E-01	2.65946E-03	-3.98756E-01	1.09032E 01	-1.39481E 02	
9.80	1.15450E 00	-9.94598E 00	-4.09185E-01	2.68172E-03	-4.05042E-01	1.10098E 01	-1.39947E 02	
9.90	1.15446E 00	-1.00526E 01	-4.15750E-01	2.70354E-03	-4.11374E-01	1.11164E 01	-1.40406E 02	
10.00	1.15442E 00	-1.01591E 01	-4.22361E-01	2.72491E-03	-4.17752E-01	1.12230E 01	-1.40859E 02	
10.10	1.15439E 00	-1.02657E 01	-4.29019E-01	2.74584E-03	-4.24176E-01	1.13295E 01	-1.41306E 02	
10.20	1.15435E 00	-1.03722E 01	-4.35722E-01	2.76637E-03	-4.30646E-01	1.14361E 01	-1.41747E 02	
10.30	1.15432E 00	-1.04788E 01	-4.42472E-01	2.78647E-03	-4.37163E-01	1.15426E 01	-1.42182E 02	
10.40	1.15428E 00	-1.05853E 01	-4.49267E-01	2.80619E-03	-4.43725E-01	1.16491E 01	-1.42612E 02	
10.50	1.15425E 00	-1.06918E 01	-4.56109E-01	2.82551E-03	-4.50333E-01	1.17556E 01	-1.43037E 02	
10.60	1.15421E 00	-1.07983E 01	-4.62996E-01	2.84446E-03	-4.56987E-01	1.18621E 01	-1.43456E 02	
10.70	1.15418E 00	-1.09048E 01	-4.69930E-01	2.86305E-03	-4.63687E-01	1.19686E 01	-1.43870E 02	
10.80	1.15415E 00	-1.10113E 01	-4.76909E-01	2.88129E-03	-4.70433E-01	1.20751E 01	-1.44279E 02	
10.90	1.15411E 00	-1.11177E 01	-4.83934E-01	2.89918E-03	-4.77225E-01	1.21815E 01	-1.44683E 02	
11.00	1.15408E 00	-1.12242E 01	-4.91006E-01	2.91673E-03	-4.84063E-01	1.22879E 01	-1.45082E 02	
11.10	1.15405E 00	-1.13306E 01	-4.98123E-01	2.93396E-03	-4.90947E-01	1.23944E 01	-1.45476E 02	
11.20	1.15402E 00	-1.14370E 01	-5.05287E-01	2.95087E-03	-4.97877E-01	1.25008E 01	-1.45865E 02	
11.30	1.15399E 00	-1.15434E 01	-5.12496E-01	2.96748E-03	-5.04853E-01	1.26072E 01	-1.46250E 02	
11.40	1.15396E 00	-1.16498E 01	-5.19751E-01	2.98378E-03	-5.11875E-01	1.27135E 01	-1.46630E 02	
11.50	1.15393E 00	-1.17562E 01	-5.27052E-01	2.99978E-03	-5.18942E-01	1.28199E 01	-1.47006E 02	
11.60	1.15390E 00	-1.18626E 01	-5.34399E-01	3.01551E-03	-5.26056E-01	1.29262E 01	-1.47377E 02	
11.70	1.15387E 00	-1.19690E 01	-5.41792E-01	3.03095E-03	-5.33216E-01	1.30326E 01	-1.47744E 02	
11.80	1.15384E 00	-1.20753E 01	-5.49231E-01	3.04612E-03	-5.40421E-01	1.31389E 01	-1.48107E 02	
11.90	1.15382E 00	-1.21817E 01	-5.56716E-01	3.06102E-03	-5.47673E-01	1.32452E 01	-1.48466E 02	
12.00	1.15379E 00	-1.22880E 01	-5.64247E-01	3.07566E-03	-5.54970E-01	1.33515E 01	-1.48821E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z=6$  $A=12$  $\rho=1.1 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	5.07203E-05	-7.94674E-02	-1.54003E-03	3.23706E 01	-1.56886E-03	9.35508E-02	-2.73000E-02
6.20	5.23930E-05	-8.22141E-02	-1.60385E-03	3.24141E 01	-1.63129E-03	9.65321E-02	-2.73165E-02
6.30	5.40930E-05	-8.50074E-02	-1.66930E-03	3.24562E 01	-1.69529E-03	9.95599E-02	-2.73326E-02
6.40	5.58201E-05	-8.78472E-02	-1.73639E-03	3.24968E 01	-1.76087E-03	1.02634E-01	-2.73484E-02
6.50	5.75743E-05	-9.07334E-02	-1.80515E-03	3.25362E 01	-1.82805E-03	1.05755E-01	-2.73639E-02
6.60	5.93558E-05	-9.36662E-02	-1.87558E-03	3.25742E 01	-1.89685E-03	1.08922E-01	-2.73790E-02
6.70	6.11644E-05	-9.66454E-02	-1.94771E-03	3.26111E 01	-1.96729E-03	1.12135E-01	-2.73939E-02
6.80	6.30002E-05	-9.96711E-02	-2.02156E-03	3.26468E 01	-2.03938E-03	1.15395E-01	-2.74085E-02
6.90	6.48632E-05	-1.02743E-01	-2.09714E-03	3.26814E 01	-2.11314E-03	1.18701E-01	-2.74227E-02
7.00	6.67534E-05	-1.05862E-01	-2.17448E-03	3.27149E 01	-2.18860E-03	1.22054E-01	-2.74367E-02
7.10	6.86706E-05	-1.09027E-01	-2.25358E-03	3.27475E 01	-2.26576E-03	1.25453E-01	-2.74504E-02
7.20	7.06151E-05	-1.12239E-01	-2.33448E-03	3.27790E 01	-2.34465E-03	1.28899E-01	-2.74639E-02
7.30	7.25868E-05	-1.15497E-01	-2.41718E-03	3.28097E 01	-2.42529E-03	1.32391E-01	-2.74770E-02
7.40	7.45856E-05	-1.18801E-01	-2.50171E-03	3.28395E 01	-2.50769E-03	1.35929E-01	-2.74900E-02
7.50	7.66116E-05	-1.22152E-01	-2.58807E-03	3.28684E 01	-2.59187E-03	1.39514E-01	-2.75026E-02
7.60	7.86648E-05	-1.25550E-01	-2.67630E-03	3.28966E 01	-2.67786E-03	1.43145E-01	-2.75151E-02
7.70	8.07451E-05	-1.28993E-01	-2.76641E-03	3.29239E 01	-2.76566E-03	1.46822E-01	-2.75272E-02
7.80	8.28525E-05	-1.32484E-01	-2.85842E-03	3.29505E 01	-2.85530E-03	1.50546E-01	-2.75392E-02
7.90	8.49872E-05	-1.36020E-01	-2.95234E-03	3.29764E 01	-2.94679E-03	1.54316E-01	-2.75509E-02
8.00	8.71490E-05	-1.39603E-01	-3.04820E-03	3.30016E 01	-3.04015E-03	1.58133E-01	-2.75624E-02
8.10	8.93380E-05	-1.43233E-01	-3.14600E-03	3.30261E 01	-3.13541E-03	1.61996E-01	-2.75737E-02
8.20	9.15541E-05	-1.46909E-01	-3.24578E-03	3.30500E 01	-3.23257E-03	1.65905E-01	-2.75848E-02
8.30	9.37975E-05	-1.50631E-01	-3.34755E-03	3.30733E 01	-3.33166E-03	1.69861E-01	-2.75957E-02
8.40	9.60679E-05	-1.54400E-01	-3.45132E-03	3.30961E 01	-3.43269E-03	1.73863E-01	-2.76064E-02
8.50	9.83655E-05	-1.58215E-01	-3.55711E-03	3.31182E 01	-3.53569E-03	1.77912E-01	-2.76169E-02
8.60	1.00690E-04	-1.62077E-01	-3.66495E-03	3.31398E 01	-3.64067E-03	1.82006E-01	-2.76272E-02
8.70	1.03042E-04	-1.65984E-01	-3.77484E-03	3.31609E 01	-3.74765E-03	1.86148E-01	-2.76373E-02
8.80	1.05421E-04	-1.69939E-01	-3.88682E-03	3.31814E 01	-3.85664E-03	1.90335E-01	-2.76472E-02
8.90	1.07828E-04	-1.73939E-01	-4.00089E-03	3.32015E 01	-3.96768E-03	1.94569E-01	-2.76570E-02
9.00	1.10261E-04	-1.77987E-01	-4.11708E-03	3.32211E 01	-4.08076E-03	1.98849E-01	-2.76666E-02
9.10	1.12722E-04	-1.82080E-01	-4.23540E-03	3.32402E 01	-4.19592E-03	2.03176E-01	-2.76760E-02
9.20	1.15210E-04	-1.86220E-01	-4.35586E-03	3.32589E 01	-4.31316E-03	2.07548E-01	-2.76853E-02
9.30	1.17724E-04	-1.90406E-01	-4.47850E-03	3.32772E 01	-4.43251E-03	2.11968E-01	-2.76944E-02
9.40	1.20267E-04	-1.94638E-01	-4.60332E-03	3.32950E 01	-4.55399E-03	2.16433E-01	-2.77033E-02
9.50	1.22836E-04	-1.98917E-01	-4.73035E-03	3.33125E 01	-4.67762E-03	2.20945E-01	-2.77121E-02
9.60	1.25432E-04	-2.03242E-01	-4.85960E-03	3.33296E 01	-4.80340E-03	2.25503E-01	-2.77207E-02
9.70	1.28056E-04	-2.07614E-01	-4.99110E-03	3.33463E 01	-4.93137E-03	2.30108E-01	-2.77292E-02
9.80	1.30707E-04	-2.12032E-01	-5.12485E-03	3.33626E 01	-5.06153E-03	2.34758E-01	-2.77376E-02
9.90	1.33385E-04	-2.16496E-01	-5.26088E-03	3.33786E 01	-5.19391E-03	2.39456E-01	-2.77458E-02
10.00	1.36090E-04	-2.21007E-01	-5.39920E-03	3.33943E 01	-5.32852E-03	2.44199E-01	-2.77539E-02
10.10	1.38822E-04	-2.25564E-01	-5.53984E-03	3.34096E 01	-5.46539E-03	2.48989E-01	-2.77619E-02
10.20	1.41581E-04	-2.30167E-01	-5.68281E-03	3.34246E 01	-5.60453E-03	2.53825E-01	-2.77697E-02
10.30	1.44368E-04	-2.34816E-01	-5.82813E-03	3.34393E 01	-5.74595E-03	2.58707E-01	-2.77774E-02
10.40	1.47182E-04	-2.39512E-01	-5.97581E-03	3.34537E 01	-5.88968E-03	2.63635E-01	-2.77850E-02
10.50	1.50023E-04	-2.44254E-01	-6.12588E-03	3.34678E 01	-6.03574E-03	2.68610E-01	-2.77924E-02
10.60	1.52891E-04	-2.49043E-01	-6.27836E-03	3.34817E 01	-6.18414E-03	2.73631E-01	-2.77998E-02
10.70	1.55786E-04	-2.53878E-01	-6.43325E-03	3.34952E 01	-6.33490E-03	2.78699E-01	-2.78070E-02
10.80	1.58708E-04	-2.58759E-01	-6.59059E-03	3.35085E 01	-6.48804E-03	2.83812E-01	-2.78141E-02
10.90	1.61658E-04	-2.63686E-01	-6.75038E-03	3.35215E 01	-6.64357E-03	2.88972E-01	-2.78211E-02
11.00	1.64634E-04	-2.68660E-01	-6.91265E-03	3.35343E 01	-6.80153E-03	2.94178E-01	-2.78280E-02
11.10	1.67638E-04	-2.73680E-01	-7.07741E-03	3.35469E 01	-6.96191E-03	2.99431E-01	-2.78348E-02
11.20	1.70669E-04	-2.78746E-01	-7.24469E-03	3.35592E 01	-7.12474E-03	3.04729E-01	-2.78415E-02
11.30	1.73727E-04	-2.83858E-01	-7.41449E-03	3.35713E 01	-7.29005E-03	3.10074E-01	-2.78481E-02
11.40	1.76813E-04	-2.89017E-01	-7.58684E-03	3.35831E 01	-7.45784E-03	3.15465E-01	-2.78546E-02
11.50	1.79925E-04	-2.94222E-01	-7.76176E-03	3.35947E 01	-7.62814E-03	3.20903E-01	-2.78610E-02
11.60	1.83065E-04	-2.99473E-01	-7.93926E-03	3.36062E 01	-7.80095E-03	3.26386E-01	-2.78673E-02
11.70	1.86231E-04	-3.04770E-01	-8.11937E-03	3.36174E 01	-7.97631E-03	3.31916E-01	-2.78735E-02
11.80	1.89425E-04	-3.10114E-01	-8.30209E-03	3.36284E 01	-8.15423E-03	3.37492E-01	-2.78797E-02
11.90	1.92646E-04	-3.15504E-01	-8.48745E-03	3.36392E 01	-8.33473E-03	3.43114E-01	-2.78857E-02
12.00	1.95895E-04	-3.20940E-01	-8.67547E-03	3.36499E 01	-8.51782E-03	3.48783E-01	-2.78916E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$	$A=12$	$\rho=1.1 A^{1/3} F$						
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$		
12.10	1.15376E 00	-1.23943E 01	-5.71824E-01	3.09006E-03	-5.62313E-01	1.34578E 01	-1.49172E 02		
12.20	1.15374E 00	-1.25006E 01	-5.79446E-01	3.10420E-03	-5.69703E-01	1.35641E 01	-1.49519E 02		
12.30	1.15371E 00	-1.26069E 01	-5.87115E-01	3.11810E-03	-5.77138E-01	1.36703E 01	-1.49862E 02		
12.40	1.15368E 00	-1.27132E 01	-5.94829E-01	3.13177E-03	-5.84619E-01	1.37766E 01	-1.50202E 02		
12.50	1.15366E 00	-1.28194E 01	-6.02589E-01	3.14522E-03	-5.92145E-01	1.38828E 01	-1.50537E 02		
12.60	1.15363E 00	-1.29257E 01	-6.10395E-01	3.15843E-03	-5.99718E-01	1.39890E 01	-1.50870E 02		
12.70	1.15361E 00	-1.30319E 01	-6.18247E-01	3.17142E-03	-6.07337E-01	1.40952E 01	-1.51198E 02		
12.80	1.15358E 00	-1.31381E 01	-6.26145E-01	3.18420E-03	-6.15001E-01	1.42014E 01	-1.51524E 02		
12.90	1.15356E 00	-1.32443E 01	-6.34089E-01	3.19679E-03	-6.22711E-01	1.43076E 01	-1.51845E 02		
13.00	1.15353E 00	-1.33505E 01	-6.42078E-01	3.20914E-03	-6.30468E-01	1.44137E 01	-1.52164E 02		
13.10	1.15351E 00	-1.34567E 01	-6.50114E-01	3.22131E-03	-6.38270E-01	1.45199E 01	-1.52479E 02		
13.20	1.15349E 00	-1.35629E 01	-6.58195E-01	3.23328E-03	-6.46117E-01	1.46260E 01	-1.52791E 02		
13.30	1.15346E 00	-1.36691E 01	-6.66322E-01	3.24507E-03	-6.54011E-01	1.47321E 01	-1.53100E 02		
13.40	1.15344E 00	-1.37752E 01	-6.74495E-01	3.25666E-03	-6.61951E-01	1.48382E 01	-1.53405E 02		
13.50	1.15342E 00	-1.38813E 01	-6.82713E-01	3.26807E-03	-6.69936E-01	1.49443E 01	-1.53708E 02		
13.60	1.15340E 00	-1.39875E 01	-6.90978E-01	3.27930E-03	-6.77967E-01	1.50504E 01	-1.54008E 02		
13.70	1.15337E 00	-1.40936E 01	-6.99288E-01	3.29036E-03	-6.86044E-01	1.51564E 01	-1.54305E 02		
13.80	1.15335E 00	-1.41997E 01	-7.07644E-01	3.30125E-03	-6.94167E-01	1.52625E 01	-1.54598E 02		
13.90	1.15333E 00	-1.43057E 01	-7.16046E-01	3.31195E-03	-7.02335E-01	1.53685E 01	-1.54890E 02		
14.00	1.15331E 00	-1.44118E 01	-7.24494E-01	3.32251E-03	-7.10550E-01	1.54746E 01	-1.55178E 02		
14.10	1.15329E 00	-1.45179E 01	-7.32987E-01	3.33290E-03	-7.18810E-01	1.55806E 01	-1.55463E 02		
14.20	1.15327E 00	-1.46239E 01	-7.41526E-01	3.34313E-03	-7.27116E-01	1.56866E 01	-1.55746E 02		
14.30	1.15325E 00	-1.47299E 01	-7.50111E-01	3.35322E-03	-7.35467E-01	1.57925E 01	-1.56026E 02		
14.40	1.15323E 00	-1.48359E 01	-7.58742E-01	3.36314E-03	-7.43865E-01	1.58985E 01	-1.56303E 02		
14.50	1.15321E 00	-1.49419E 01	-7.67418E-01	3.37292E-03	-7.52308E-01	1.60045E 01	-1.56578E 02		
14.60	1.15319E 00	-1.50479E 01	-7.76140E-01	3.38255E-03	-7.60797E-01	1.61104E 01	-1.56851E 02		
14.70	1.15317E 00	-1.51539E 01	-7.84908E-01	3.39204E-03	-7.69331E-01	1.62163E 01	-1.57121E 02		
14.80	1.15315E 00	-1.52599E 01	-7.93722E-01	3.40139E-03	-7.77912E-01	1.63222E 01	-1.57388E 02		
14.90	1.15313E 00	-1.53658E 01	-8.02581E-01	3.41060E-03	-7.86538E-01	1.64281E 01	-1.57653E 02		
15.00	1.15311E 00	-1.54718E 01	-8.11486E-01	3.41968E-03	-7.95210E-01	1.65340E 01	-1.57916E 02		
15.10	1.15309E 00	-1.55777E 01	-8.20436E-01	3.42862E-03	-8.03927E-01	1.66399E 01	-1.58177E 02		
15.20	1.15307E 00	-1.56836E 01	-8.29433E-01	3.43744E-03	-8.12690E-01	1.67457E 01	-1.58435E 02		
15.30	1.15305E 00	-1.57895E 01	-8.38475E-01	3.44613E-03	-8.21499E-01	1.68516E 01	-1.58691E 02		
15.40	1.15303E 00	-1.58954E 01	-8.47562E-01	3.45469E-03	-8.30354E-01	1.69574E 01	-1.58945E 02		
15.50	1.15301E 00	-1.60012E 01	-8.56696E-01	3.46313E-03	-8.39254E-01	1.70632E 01	-1.59196E 02		
15.60	1.15299E 00	-1.61071E 01	-8.65875E-01	3.47146E-03	-8.48200E-01	1.71690E 01	-1.59446E 02		
15.70	1.15298E 00	-1.62129E 01	-8.75100E-01	3.47966E-03	-8.57192E-01	1.72748E 01	-1.59693E 02		
15.80	1.15296E 00	-1.63188E 01	-8.84370E-01	3.48776E-03	-8.66229E-01	1.73806E 01	-1.59938E 02		
15.90	1.15294E 00	-1.64246E 01	-8.93686E-01	3.49573E-03	-8.75312E-01	1.74863E 01	-1.60182E 02		
16.00	1.15292E 00	-1.65304E 01	-9.03048E-01	3.50359E-03	-8.84440E-01	1.75921E 01	-1.60423E 02		
16.10	1.15291E 00	-1.66361E 01	-9.12455E-01	3.51135E-03	-8.93615E-01	1.76978E 01	-1.60662E 02		
16.20	1.15289E 00	-1.67419E 01	-9.21908E-01	3.51899E-03	-9.02835E-01	1.78035E 01	-1.60900E 02		
16.30	1.15287E 00	-1.68477E 01	-9.31407E-01	3.52653E-03	-9.12100E-01	1.79092E 01	-1.61135E 02		
16.40	1.15285E 00	-1.69534E 01	-9.40951E-01	3.53397E-03	-9.21411E-01	1.80149E 01	-1.61369E 02		
16.50	1.15284E 00	-1.70591E 01	-9.50541E-01	3.54130E-03	-9.30768E-01	1.81205E 01	-1.61601E 02		
16.60	1.15282E 00	-1.71649E 01	-9.60176E-01	3.54853E-03	-9.40170E-01	1.82262E 01	-1.61831E 02		
16.70	1.15280E 00	-1.72706E 01	-9.69857E-01	3.55567E-03	-9.49618E-01	1.83318E 01	-1.62059E 02		
16.80	1.15279E 00	-1.73763E 01	-9.79583E-01	3.56271E-03	-9.59111E-01	1.84375E 01	-1.62285E 02		
16.90	1.15277E 00	-1.74819E 01	-9.89355E-01	3.56965E-03	-9.68651E-01	1.85431E 01	-1.62510E 02		
17.00	1.15276E 00	-1.75876E 01	-9.99173E-01	3.57650E-03	-9.78235E-01	1.86487E 01	-1.62733E 02		
17.10	1.15274E 00	-1.76932E 01	-1.00904E 00	3.58326E-03	-9.87865E-01	1.87543E 01	-1.62954E 02		
17.20	1.15272E 00	-1.77989E 01	-1.01894E 00	3.58993E-03	-9.97541E-01	1.88598E 01	-1.63174E 02		
17.30	1.15271E 00	-1.79045E 01	-1.02890E 00	3.59650E-03	-1.00726E 00	1.89654E 01	-1.63392E 02		
17.40	1.15269E 00	-1.80101E 01	-1.03890E 00	3.60299E-03	-1.01703E 00	1.90709E 01	-1.63608E 02		
17.50	1.15268E 00	-1.81157E 01	-1.04894E 00	3.60940E-03	-1.02684E 00	1.91764E 01	-1.63823E 02		
17.60	1.15266E 00	-1.82212E 01	-1.05903E 00	3.61572E-03	-1.03670E 00	1.92820E 01	-1.64037E 02		
17.70	1.15265E 00	-1.83268E 01	-1.06917E 00	3.62196E-03	-1.04660E 00	1.93874E 01	-1.64248E 02		
17.80	1.15263E 00	-1.84323E 01	-1.07935E 00	3.62811E-03	-1.05655E 00	1.94929E 01	-1.64459E 02		
17.90	1.15262E 00	-1.85379E 01	-1.08958E 00	3.63418E-03	-1.06655E 00	1.95984E 01	-1.64668E 02		
18.00	1.15260E 00	-1.86434E 01	-1.09985E 00	3.64017E-03	-1.07659E 00	1.97038E 01	-1.64875E 02		

## ELECTRON RADIAL FUNCTIONS

$\rho$	Electron							
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
12.10	1.99170E-04	-3.26423E-01	-8.86617E-03	3.36603E 01	-8.70354E-03	3.54498E-01	-2.78975E-02	
12.20	2.02473E-04	-3.31952E-01	-9.05955E-03	3.36706E 01	-8.89187E-03	3.60259E-01	-2.79033E-02	
12.30	2.05803E-04	-3.37526E-01	-9.25565E-03	3.36807E 01	-9.08286E-03	3.66066E-01	-2.79090E-02	
12.40	2.09159E-04	-3.43148E-01	-9.45447E-03	3.36906E 01	-9.27651E-03	3.71919E-01	-2.79146E-02	
12.50	2.12543E-04	-3.48815E-01	-9.65604E-03	3.37004E 01	-9.47285E-03	3.77818E-01	-2.79202E-02	
12.60	2.15954E-04	-3.54528E-01	-9.86037E-03	3.37099E 01	-9.67189E-03	3.83764E-01	-2.79256E-02	
12.70	2.19393E-04	-3.60288E-01	-1.00675E-02	3.37194E 01	-9.87366E-03	3.89756E-01	-2.79310E-02	
12.80	2.22858E-04	-3.66094E-01	-1.02774E-02	3.37286E 01	-1.00782E-02	3.95793E-01	-2.79363E-02	
12.90	2.26351E-04	-3.71946E-01	-1.04901E-02	3.37378E 01	-1.02854E-02	4.01878E-01	-2.79416E-02	
13.00	2.29871E-04	-3.77844E-01	-1.07057E-02	3.37468E 01	-1.04955E-02	4.08008E-01	-2.79468E-02	
13.10	2.33418E-04	-3.83789E-01	-1.09241E-02	3.37556E 01	-1.07083E-02	4.14184E-01	-2.79519E-02	
13.20	2.36992E-04	-3.89779E-01	-1.11454E-02	3.37643E 01	-1.09239E-02	4.20407E-01	-2.79569E-02	
13.30	2.40593E-04	-3.95816E-01	-1.13696E-02	3.37728E 01	-1.11424E-02	4.26676E-01	-2.79619E-02	
13.40	2.44221E-04	-4.01899E-01	-1.15967E-02	3.37813E 01	-1.13637E-02	4.32990E-01	-2.79668E-02	
13.50	2.47877E-04	-4.08028E-01	-1.18267E-02	3.37896E 01	-1.15879E-02	4.39352E-01	-2.79717E-02	
13.60	2.51560E-04	-4.14203E-01	-1.20597E-02	3.37977E 01	-1.18150E-02	4.45759E-01	-2.79764E-02	
13.70	2.55270E-04	-4.20425E-01	-1.22956E-02	3.38058E 01	-1.20449E-02	4.52212E-01	-2.79812E-02	
13.80	2.59007E-04	-4.26692E-01	-1.25345E-02	3.38137E 01	-1.22778E-02	4.58711E-01	-2.79858E-02	
13.90	2.62771E-04	-4.33006E-01	-1.27764E-02	3.38215E 01	-1.25137E-02	4.65257E-01	-2.79904E-02	
14.00	2.66562E-04	-4.39366E-01	-1.30213E-02	3.38292E 01	-1.27524E-02	4.71848E-01	-2.79950E-02	
14.10	2.70381E-04	-4.45772E-01	-1.32693E-02	3.38367E 01	-1.29942E-02	4.78486E-01	-2.79995E-02	
14.20	2.74226E-04	-4.52224E-01	-1.35203E-02	3.38442E 01	-1.32389E-02	4.85170E-01	-2.80039E-02	
14.30	2.78099E-04	-4.58722E-01	-1.37744E-02	3.38515E 01	-1.34867E-02	4.91900E-01	-2.80083E-02	
14.40	2.81999E-04	-4.65266E-01	-1.40315E-02	3.38588E 01	-1.37375E-02	4.98676E-01	-2.80126E-02	
14.50	2.85926E-04	-4.71857E-01	-1.42918E-02	3.38659E 01	-1.39913E-02	5.05498E-01	-2.80169E-02	
14.60	2.89880E-04	-4.78493E-01	-1.45552E-02	3.38729E 01	-1.42482E-02	5.12366E-01	-2.80211E-02	
14.70	2.93862E-04	-4.85176E-01	-1.48217E-02	3.38799E 01	-1.45082E-02	5.19280E-01	-2.80253E-02	
14.80	2.97870E-04	-4.91904E-01	-1.50914E-02	3.38867E 01	-1.47712E-02	5.26241E-01	-2.80294E-02	
14.90	3.01906E-04	-4.98679E-01	-1.53643E-02	3.38934E 01	-1.50374E-02	5.33247E-01	-2.80335E-02	
15.00	3.05969E-04	-5.05500E-01	-1.56403E-02	3.39001E 01	-1.53067E-02	5.40299E-01	-2.80375E-02	
15.10	3.10058E-04	-5.12367E-01	-1.59196E-02	3.39066E 01	-1.55792E-02	5.47398E-01	-2.80415E-02	
15.20	3.14176E-04	-5.19280E-01	-1.62021E-02	3.39131E 01	-1.58549E-02	5.54542E-01	-2.80454E-02	
15.30	3.18320E-04	-5.26239E-01	-1.64879E-02	3.39195E 01	-1.61337E-02	5.61733E-01	-2.80493E-02	
15.40	3.22491E-04	-5.33244E-01	-1.67769E-02	3.39257E 01	-1.64157E-02	5.68969E-01	-2.80531E-02	
15.50	3.26690E-04	-5.40295E-01	-1.70692E-02	3.39320E 01	-1.67010E-02	5.76252E-01	-2.80569E-02	
15.60	3.30916E-04	-5.47392E-01	-1.73649E-02	3.39381E 01	-1.69895E-02	5.83581E-01	-2.80606E-02	
15.70	3.35169E-04	-5.54536E-01	-1.76638E-02	3.39441E 01	-1.72813E-02	5.90955E-01	-2.80643E-02	
15.80	3.39449E-04	-5.61725E-01	-1.79661E-02	3.39501E 01	-1.75763E-02	5.98376E-01	-2.80680E-02	
15.90	3.43756E-04	-5.68960E-01	-1.82717E-02	3.39559E 01	-1.78747E-02	6.05843E-01	-2.80716E-02	
16.00	3.48090E-04	-5.76241E-01	-1.85807E-02	3.39617E 01	-1.81763E-02	6.13355E-01	-2.80752E-02	
16.10	3.52451E-04	-5.83569E-01	-1.88931E-02	3.39675E 01	-1.84813E-02	6.20914E-01	-2.80787E-02	
16.20	3.56840E-04	-5.90942E-01	-1.92089E-02	3.39731E 01	-1.87897E-02	6.28518E-01	-2.80822E-02	
16.30	3.61256E-04	-5.98361E-01	-1.95282E-02	3.39787E 01	-1.91014E-02	6.36169E-01	-2.80857E-02	
16.40	3.65699E-04	-6.05827E-01	-1.98508E-02	3.39842E 01	-1.94165E-02	6.43866E-01	-2.80891E-02	
16.50	3.70169E-04	-6.13338E-01	-2.01770E-02	3.39897E 01	-1.97350E-02	6.51608E-01	-2.80925E-02	
16.60	3.74666E-04	-6.20895E-01	-2.05066E-02	3.39950E 01	-2.00569E-02	6.59397E-01	-2.80959E-02	
16.70	3.79190E-04	-6.28499E-01	-2.08398E-02	3.40003E 01	-2.03822E-02	6.67231E-01	-2.80992E-02	
16.80	3.83742E-04	-6.36148E-01	-2.11764E-02	3.40056E 01	-2.07111E-02	6.75112E-01	-2.81025E-02	
16.90	3.88320E-04	-6.43843E-01	-2.15166E-02	3.40107E 01	-2.10434E-02	6.83038E-01	-2.81057E-02	
17.00	3.92926E-04	-6.51584E-01	-2.18603E-02	3.40159E 01	-2.13791E-02	6.91010E-01	-2.81089E-02	
17.10	3.97559E-04	-6.59372E-01	-2.22076E-02	3.40209E 01	-2.17184E-02	6.99028E-01	-2.81121E-02	
17.20	4.02219E-04	-6.67205E-01	-2.25586E-02	3.40259E 01	-2.20613E-02	7.07093E-01	-2.81152E-02	
17.30	4.06906E-04	-6.75084E-01	-2.29131E-02	3.40308E 01	-2.24076E-02	7.15203E-01	-2.81183E-02	
17.40	4.11621E-04	-6.83009E-01	-2.32712E-02	3.40357E 01	-2.27576E-02	7.23359E-01	-2.81214E-02	
17.50	4.16362E-04	-6.90980E-01	-2.36330E-02	3.40405E 01	-2.31111E-02	7.31561E-01	-2.81245E-02	
17.60	4.21131E-04	-6.98996E-01	-2.39984E-02	3.40452E 01	-2.34682E-02	7.39809E-01	-2.81275E-02	
17.70	4.25927E-04	-7.07059E-01	-2.43675E-02	3.40499E 01	-2.38290E-02	7.48102E-01	-2.81305E-02	
17.80	4.30750E-04	-7.15168E-01	-2.47404E-02	3.40546E 01	-2.41934E-02	7.56442E-01	-2.81334E-02	
17.90	4.35600E-04	-7.23323E-01	-2.51169E-02	3.40592E 01	-2.45614E-02	7.64828E-01	-2.81363E-02	
18.00	4.40477E-04	-7.31523E-01	-2.54971E-02	3.40637E 01	-2.49331E-02	7.73259E-01	-2.81392E-02	



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$		$A=12$		$\rho=1.1 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
18.10	1.15259E 00	-1.87489E 01	-1.11017E 00	3.64609E-03	-1.08667E 00	1.98093E 01	-1.65081E 02			
18.20	1.15257E 00	-1.88544E 01	-1.12054E 00	3.65193E-03	-1.09680E 00	1.99147E 01	-1.65285E 02			
18.30	1.15256E 00	-1.89598E 01	-1.13094E 00	3.65769E-03	-1.10698E 00	2.00201E 01	-1.65489E 02			
18.40	1.15254E 00	-1.90653E 01	-1.14140E 00	3.66337E-03	-1.11720E 00	2.01255E 01	-1.65690E 02			
18.50	1.15253E 00	-1.91707E 01	-1.15190E 00	3.66899E-03	-1.12747E 00	2.02309E 01	-1.65891E 02			
18.60	1.15251E 00	-1.92762E 01	-1.16245E 00	3.67453E-03	-1.13778E 00	2.03362E 01	-1.66090E 02			
18.70	1.15250E 00	-1.93816E 01	-1.17304E 00	3.68000E-03	-1.14814E 00	2.04416E 01	-1.66288E 02			
18.80	1.15249E 00	-1.94870E 01	-1.18367E 00	3.68540E-03	-1.15854E 00	2.05469E 01	-1.66484E 02			
18.90	1.15247E 00	-1.95924E 01	-1.19435E 00	3.69072E-03	-1.16899E 00	2.06522E 01	-1.66679E 02			
19.00	1.15246E 00	-1.96977E 01	-1.20508E 00	3.69599E-03	-1.17949E 00	2.07575E 01	-1.66873E 02			
19.10	1.15244E 00	-1.98031E 01	-1.21585E 00	3.70119E-03	-1.19003E 00	2.08628E 01	-1.67066E 02			
19.20	1.15243E 00	-1.99084E 01	-1.22667E 00	3.70631E-03	-1.20061E 00	2.09681E 01	-1.67258E 02			
19.30	1.15242E 00	-2.00137E 01	-1.23754E 00	3.71137E-03	-1.21124E 00	2.10733E 01	-1.67448E 02			
19.40	1.15240E 00	-2.01191E 01	-1.24844E 00	3.71637E-03	-1.22192E 00	2.11786E 01	-1.67637E 02			
19.50	1.15239E 00	-2.02244E 01	-1.25940E 00	3.72131E-03	-1.23264E 00	2.12838E 01	-1.67825E 02			
19.60	1.15238E 00	-2.03296E 01	-1.27040E 00	3.72619E-03	-1.24341E 00	2.13890E 01	-1.68012E 02			
19.70	1.15236E 00	-2.04349E 01	-1.28144E 00	3.73099E-03	-1.25422E 00	2.14942E 01	-1.68197E 02			
19.80	1.15235E 00	-2.05401E 01	-1.29253E 00	3.73574E-03	-1.26508E 00	2.15994E 01	-1.68382E 02			
19.90	1.15234E 00	-2.06454E 01	-1.30367E 00	3.74043E-03	-1.27598E 00	2.17045E 01	-1.68565E 02			
20.00	1.15232E 00	-2.07506E 01	-1.31485E 00	3.74506E-03	-1.28693E 00	2.18097E 01	-1.68748E 02			
20.10	1.15231E 00	-2.08558E 01	-1.32607E 00	3.74963E-03	-1.29792E 00	2.19148E 01	-1.68929E 02			
20.20	1.15230E 00	-2.09610E 01	-1.33735E 00	3.75415E-03	-1.30896E 00	2.20199E 01	-1.69110E 02			
20.30	1.15229E 00	-2.10661E 01	-1.34866E 00	3.75861E-03	-1.32004E 00	2.21250E 01	-1.69289E 02			
20.40	1.15227E 00	-2.11713E 01	-1.36002E 00	3.76302E-03	-1.33117E 00	2.22301E 01	-1.69467E 02			
20.50	1.15226E 00	-2.12764E 01	-1.37143E 00	3.76736E-03	-1.34235E 00	2.23352E 01	-1.69644E 02			
20.60	1.15225E 00	-2.13816E 01	-1.38288E 00	3.77164E-03	-1.35357E 00	2.24402E 01	-1.69821E 02			
20.70	1.15224E 00	-2.14867E 01	-1.39438E 00	3.77589E-03	-1.36483E 00	2.25453E 01	-1.69996E 02			
20.80	1.15222E 00	-2.15918E 01	-1.40593E 00	3.78007E-03	-1.37615E 00	2.26503E 01	-1.70170E 02			
20.90	1.15221E 00	-2.16968E 01	-1.41751E 00	3.78421E-03	-1.38750E 00	2.27553E 01	-1.70344E 02			
21.00	1.15220E 00	-2.18019E 01	-1.42915E 00	3.78829E-03	-1.39890E 00	2.28603E 01	-1.70516E 02			
21.10	1.15219E 00	-2.19069E 01	-1.44083E 00	3.79232E-03	-1.41035E 00	2.29652E 01	-1.70687E 02			
21.20	1.15217E 00	-2.20120E 01	-1.45255E 00	3.79630E-03	-1.42184E 00	2.30702E 01	-1.70858E 02			
21.30	1.15216E 00	-2.21170E 01	-1.46432E 00	3.80024E-03	-1.43338E 00	2.31751E 01	-1.71028E 02			
21.40	1.15215E 00	-2.22220E 01	-1.47613E 00	3.80411E-03	-1.44496E 00	2.32801E 01	-1.71197E 02			
21.50	1.15214E 00	-2.23270E 01	-1.48799E 00	3.80795E-03	-1.45659E 00	2.33850E 01	-1.71365E 02			
21.60	1.15213E 00	-2.24319E 01	-1.49990E 00	3.81174E-03	-1.46826E 00	2.34899E 01	-1.71532E 02			
21.70	1.15212E 00	-2.25369E 01	-1.51185E 00	3.81547E-03	-1.47998E 00	2.35947E 01	-1.71698E 02			
21.80	1.15210E 00	-2.26418E 01	-1.52384E 00	3.81916E-03	-1.49174E 00	2.36996E 01	-1.71863E 02			
21.90	1.15209E 00	-2.27467E 01	-1.53588E 00	3.82281E-03	-1.50355E 00	2.38044E 01	-1.72028E 02			
22.00	1.15208E 00	-2.28516E 01	-1.54797E 00	3.82641E-03	-1.51540E 00	2.39093E 01	-1.72192E 02			
22.10	1.15207E 00	-2.29565E 01	-1.56010E 00	3.82997E-03	-1.52730E 00	2.40141E 01	-1.72355E 02			
22.20	1.15206E 00	-2.30614E 01	-1.57227E 00	3.83348E-03	-1.53924E 00	2.41189E 01	-1.72517E 02			
22.30	1.15205E 00	-2.31663E 01	-1.58450E 00	3.83694E-03	-1.55123E 00	2.42236E 01	-1.72678E 02			
22.40	1.15204E 00	-2.32711E 01	-1.59676E 00	3.84037E-03	-1.56326E 00	2.43284E 01	-1.72839E 02			
22.50	1.15202E 00	-2.33759E 01	-1.60907E 00	3.84375E-03	-1.57534E 00	2.44331E 01	-1.72999E 02			
22.60	1.15201E 00	-2.34807E 01	-1.62143E 00	3.84709E-03	-1.58747E 00	2.45379E 01	-1.73158E 02			
22.70	1.15200E 00	-2.35855E 01	-1.63383E 00	3.85039E-03	-1.59964E 00	2.46426E 01	-1.73316E 02			
22.80	1.15199E 00	-2.36903E 01	-1.64628E 00	3.85364E-03	-1.61185E 00	2.47473E 01	-1.73474E 02			
22.90	1.15198E 00	-2.37950E 01	-1.65877E 00	3.85686E-03	-1.62411E 00	2.48520E 01	-1.73631E 02			
23.00	1.15197E 00	-2.38998E 01	-1.67130E 00	3.86004E-03	-1.63641E 00	2.49566E 01	-1.73787E 02			
23.10	1.15196E 00	-2.40045E 01	-1.68388E 00	3.86317E-03	-1.64876E 00	2.50613E 01	-1.73943E 02			
23.20	1.15195E 00	-2.41092E 01	-1.69651E 00	3.86626E-03	-1.66116E 00	2.51659E 01	-1.74098E 02			
23.30	1.15194E 00	-2.42139E 01	-1.70918E 00	3.86933E-03	-1.67360E 00	2.52705E 01	-1.74252E 02			
23.40	1.15193E 00	-2.43186E 01	-1.72190E 00	3.87235E-03	-1.68608E 00	2.53751E 01	-1.74406E 02			
23.50	1.15192E 00	-2.44232E 01	-1.73466E 00	3.87533E-03	-1.69861E 00	2.54797E 01	-1.74559E 02			
23.60	1.15191E 00	-2.45279E 01	-1.74747E 00	3.87826E-03	-1.71119E 00	2.55842E 01	-1.74711E 02			
23.70	1.15189E 00	-2.46325E 01	-1.76032E 00	3.88118E-03	-1.72380E 00	2.56888E 01	-1.74863E 02			
23.80	1.15188E 00	-2.47371E 01	-1.77322E 00	3.88404E-03	-1.73647E 00	2.57933E 01	-1.75014E 02			
23.90	1.15187E 00	-2.48417E 01	-1.78616E 00	3.88688E-03	-1.74918E 00	2.58978E 01	-1.75164E 02			
24.00	1.15186E 00	-2.49462E 01	-1.79914E 00	3.88967E-03	-1.76193E 00	2.60023E 01	-1.75314E 02			

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	4.45382E-04	-7.39770E-01	-2.58812E-02	3.40682E 01	-2.53085E-02	7.81737E-01	-2.81421E-02
18.20	4.50313E-04	-7.48062E-01	-2.62690E-02	3.40726E 01	-2.56876E-02	7.90260E-01	-2.81449E-02
18.30	4.55272E-04	-7.56401E-01	-2.66605E-02	3.40770E 01	-2.60704E-02	7.98829E-01	-2.81477E-02
18.40	4.60258E-04	-7.64785E-01	-2.70559E-02	3.40813E 01	-2.64570E-02	8.07444E-01	-2.81505E-02
18.50	4.65271E-04	-7.73215E-01	2.74551E-02	3.40856E 01	-2.68474E-02	8.16104E-01	-2.81533E-02
18.60	4.70311E-04	-7.81690E-01	-2.78581E-02	3.40898E 01	-2.72415E-02	8.24811E-01	-2.81560E-02
18.70	4.75378E-04	-7.90212E-01	-2.82650E-02	3.40940E 01	-2.76394E-02	8.33564E-01	-2.81587E-02
18.80	4.80473E-04	-7.98780E-01	-2.86758E-02	3.40982E 01	-2.80411E-02	8.42362E-01	-2.81613E-02
18.90	4.85594E-04	-8.07393E-01	-2.90905E-02	3.41023E 01	-2.84467E-02	8.51206E-01	-2.81640E-02
19.00	4.90743E-04	-8.16052E-01	-2.95090E-02	3.41063E 01	-2.88561E-02	8.60096E-01	-2.81666E-02
19.10	4.95919E-04	-8.24757E-01	-2.99315E-02	3.41103E 01	-2.92694E-02	8.69031E-01	-2.81692E-02
19.20	5.01122E-04	-8.33508E-01	-3.03580E-02	3.41143E 01	-2.96865E-02	8.78013E-01	-2.81718E-02
19.30	5.06352E-04	-8.42305E-01	-3.07884E-02	3.41182E 01	-3.01076E-02	8.87040E-01	-2.81743E-02
19.40	5.11609E-04	-8.51147E-01	-3.12228E-02	3.41221E 01	-3.05326E-02	8.96113E-01	-2.81768E-02
19.50	5.16894E-04	-8.60036E-01	-3.16612E-02	3.41259E 01	-3.09615E-02	9.05232E-01	-2.81793E-02
19.60	5.22205E-04	-8.68970E-01	-3.21036E-02	3.41297E 01	-3.13944E-02	9.14397E-01	-2.81818E-02
19.70	5.27544E-04	-8.77950E-01	-3.25500E-02	3.41335E 01	-3.18313E-02	9.23607E-01	-2.81843E-02
19.80	5.32910E-04	-8.86975E-01	-3.30006E-02	3.41372E 01	-3.22721E-02	9.32863E-01	-2.81867E-02
19.90	5.38303E-04	-8.96047E-01	-3.34551E-02	3.41409E 01	-3.27170E-02	9.42165E-01	-2.81891E-02
20.00	5.43723E-04	-9.05164E-01	-3.39138E-02	3.41445E 01	-3.31659E-02	9.51513E-01	-2.81915E-02
20.10	5.49170E-04	-9.14327E-01	-3.43766E-02	3.41481E 01	-3.36189E-02	9.60907E-01	-2.81938E-02
20.20	5.54644E-04	-9.23536E-01	-3.48434E-02	3.41517E 01	-3.40759E-02	9.70346E-01	-2.81962E-02
20.30	5.60146E-04	-9.32790E-01	-3.53145E-02	3.41552E 01	-3.45370E-02	9.79831E-01	-2.81985E-02
20.40	5.65675E-04	-9.42091E-01	-3.57897E-02	3.41587E 01	-3.50022E-02	9.89361E-01	-2.82008E-02
20.50	5.71231E-04	-9.51437E-01	-3.62691E-02	3.41622E 01	-3.54715E-02	9.98938E-01	-2.82031E-02
20.60	5.76814E-04	-9.60828E-01	-3.67526E-02	3.41656E 01	-3.59449E-02	1.00856E 00	-2.82053E-02
20.70	5.82424E-04	-9.70266E-01	-3.72404E-02	3.41690E 01	-3.64225E-02	1.01823E 00	-2.82075E-02
20.80	5.88061E-04	-9.79749E-01	-3.77324E-02	3.41723E 01	-3.69043E-02	1.02794E 00	-2.82098E-02
20.90	5.93725E-04	-9.89278E-01	-3.82287E-02	3.41757E 01	-3.73902E-02	1.03770E 00	-2.82120E-02
21.00	5.99417E-04	-9.98853E-01	-3.87292E-02	3.41790E 01	-3.78804E-02	1.04751E 00	-2.82141E-02
21.10	6.05136E-04	-1.00847E 00	-3.92341E-02	3.41822E 01	-3.83748E-02	1.05736E 00	-2.82163E-02
21.20	6.10881E-04	-1.01814E 00	-3.97432E-02	3.41854E 01	-3.88734E-02	1.06725E 00	-2.82184E-02
21.30	6.16654E-04	-1.02785E 00	-4.02566E-02	3.41886E 01	-3.93763E-02	1.07719E 00	-2.82206E-02
21.40	6.22455E-04	-1.03761E 00	-4.07744E-02	3.41918E 01	-3.98835E-02	1.08718E 00	-2.82226E-02
21.50	6.28282E-04	-1.04741E 00	-4.12965E-02	3.41949E 01	-4.03950E-02	1.09721E 00	-2.82247E-02
21.60	6.34136E-04	-1.05726E 00	-4.18230E-02	3.41980E 01	-4.09108E-02	1.10729E 00	-2.82268E-02
21.70	6.40018E-04	-1.06715E 00	-4.23540E-02	3.42011E 01	-4.14309E-02	1.11742E 00	-2.82288E-02
21.80	6.45926E-04	-1.07709E 00	-4.28893E-02	3.42041E 01	-4.19553E-02	1.12759E 00	-2.82309E-02
21.90	6.51862E-04	-1.08708E 00	-4.34290E-02	3.42072E 01	-4.24842E-02	1.13780E 00	-2.82329E-02
22.00	6.57825E-04	-1.09711E 00	-4.39732E-02	3.42101E 01	-4.30174E-02	1.14806E 00	-2.82349E-02
22.10	6.63815E-04	-1.10719E 00	-4.45218E-02	3.42131E 01	-4.35550E-02	1.15837E 00	-2.82369E-02
22.20	6.69833E-04	-1.11731E 00	-4.50749E-02	3.42160E 01	-4.40970E-02	1.16872E 00	-2.82388E-02
22.30	6.75877E-04	-1.12748E 00	-4.56326E-02	3.42189E 01	-4.46435E-02	1.17912E 00	-2.82408E-02
22.40	6.81948E-04	-1.13769E 00	-4.61947E-02	3.42218E 01	-4.51944E-02	1.18957E 00	-2.82427E-02
22.50	6.88047E-04	-1.14795E 00	-4.67614E-02	3.42247E 01	-4.57498E-02	1.20006E 00	-2.82446E-02
22.60	6.94173E-04	-1.15826E 00	-4.73326E-02	3.42275E 01	-4.63097E-02	1.21059E 00	-2.82465E-02
22.70	7.00326E-04	-1.16861E 00	-4.79084E-02	3.42303E 01	-4.68741E-02	1.22117E 00	-2.82484E-02
22.80	7.06506E-04	-1.17900E 00	-4.84888E-02	3.42330E 01	-4.74430E-02	1.23180E 00	-2.82503E-02
22.90	7.12713E-04	-1.18945E 00	-4.90737E-02	3.42358E 01	-4.80165E-02	1.24247E 00	-2.82521E-02
23.00	7.18947E-04	-1.19993E 00	-4.96633E-02	3.42385E 01	-4.85946E-02	1.25319E 00	-2.82540E-02
23.10	7.25209E-04	-1.21047E 00	-5.02576E-02	3.42412E 01	-4.91772E-02	1.26395E 00	-2.82558E-02
23.20	7.31497E-04	-1.22104E 00	-5.08565E-02	3.42439E 01	-4.97644E-02	1.27476E 00	-2.82576E-02
23.30	7.37813E-04	-1.23167E 00	-5.14601E-02	3.42465E 01	-5.03562E-02	1.28561E 00	-2.82594E-02
23.40	7.44156E-04	-1.24234E 00	-5.20683E-02	3.42492E 01	-5.09526E-02	1.29651E 00	-2.82612E-02
23.50	7.50526E-04	-1.25305E 00	-5.26813E-02	3.42518E 01	-5.15538E-02	1.30745E 00	-2.82629E-02
23.60	7.56923E-04	-1.26381E 00	-5.32990E-02	3.42544E 01	-5.21595E-02	1.31844E 00	-2.82647E-02
23.70	7.63348E-04	-1.27462E 00	-5.39214E-02	3.42569E 01	-5.27700E-02	1.32948E 00	-2.82664E-02
23.80	7.69799E-04	-1.28547E 00	-5.45487E-02	3.42594E 01	-5.33851E-02	1.34056E 00	-2.82681E-02
23.90	7.76278E-04	-1.29637E 00	-5.51806E-02	3.42620E 01	-5.40050E-02	1.35169E 00	-2.82698E-02
24.00	7.82783E-04	-1.30731E 00	-5.58174E-02	3.42645E 01	-5.46297E-02	1.36286E 00	-2.82715E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$		$A=12$		$\rho=1.1 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
24.10	1.15185E 00	-2.50508E 01	-1.81218E 00	3.89243E-03	-1.77473E 00	2.61068E 01	-1.75463E 02	
24.20	1.15184E 00	-2.51553E 01	-1.82525E 00	3.89516E-03	-1.78758E 00	2.62112E 01	-1.75612E 02	
24.30	1.15183E 00	-2.52599E 01	-1.83837E 00	3.89785E-03	-1.80047E 00	2.63157E 01	-1.75760E 02	
24.40	1.15182E 00	-2.53644E 01	-1.85154E 00	3.90051E-03	-1.81340E 00	2.64201E 01	-1.75907E 02	
24.50	1.15181E 00	-2.54689E 01	-1.86475E 00	3.90313E-03	-1.82638E 00	2.65245E 01	-1.76054E 02	
24.60	1.15180E 00	-2.55733E 01	-1.87801E 00	3.90572E-03	-1.83941E 00	2.66289E 01	-1.76201E 02	
24.70	1.15179E 00	-2.56778E 01	-1.89131E 00	3.90828E-03	-1.85248E 00	2.67333E 01	-1.76346E 02	
24.80	1.15178E 00	-2.57822E 01	-1.90465E 00	3.91080E-03	-1.86559E 00	2.68376E 01	-1.76492E 02	
24.90	1.15177E 00	-2.58866E 01	-1.91804E 00	3.91329E-03	-1.87875E 00	2.69420E 01	-1.76636E 02	
25.00	1.15176E 00	-2.59910E 01	-1.93148E 00	3.91575E-03	-1.89195E 00	2.70463E 01	-1.76780E 02	
25.10	1.15175E 00	-2.60954E 01	-1.94496E 00	3.91817E-03	-1.90520E 00	2.71506E 01	-1.76924E 02	
25.20	1.15174E 00	-2.61998E 01	-1.95849E 00	3.92057E-03	-1.91850E 00	2.72549E 01	-1.77067E 02	
25.30	1.15173E 00	-2.63041E 01	-1.97206E 00	3.92293E-03	-1.93183E 00	2.73591E 01	-1.77210E 02	
25.40	1.15172E 00	-2.64085E 01	-1.98567E 00	3.92527E-03	-1.94522E 00	2.74634E 01	-1.77352E 02	
25.50	1.15171E 00	-2.65128E 01	-1.99933E 00	3.92757E-03	-1.95865E 00	2.75676E 01	-1.77494E 02	
25.60	1.15170E 00	-2.66171E 01	-2.01304E 00	3.92984E-03	-1.97212E 00	2.76718E 01	-1.77635E 02	
25.70	1.15170E 00	-2.67213E 01	-2.02679E 00	3.93209E-03	-1.98564E 00	2.77760E 01	-1.77775E 02	
25.80	1.15169E 00	-2.68256E 01	-2.04058E 00	3.93430E-03	-1.99920E 00	2.78802E 01	-1.77916E 02	
25.90	1.15168E 00	-2.69298E 01	-2.05442E 00	3.93648E-03	-2.01281E 00	2.79844E 01	-1.78056E 02	
26.00	1.15167E 00	-2.70341E 01	-2.06830E 00	3.93863E-03	-2.02646E 00	2.80885E 01	-1.78195E 02	
26.10	1.15166E 00	-2.71383E 01	-2.08223E 00	3.94075E-03	-2.04016E 00	2.81926E 01	-1.78334E 02	
26.20	1.15165E 00	-2.72425E 01	-2.09621E 00	3.94285E-03	-2.05390E 00	2.82967E 01	-1.78472E 02	
26.30	1.15164E 00	-2.73466E 01	-2.11022E 00	3.94491E-03	-2.06768E 00	2.84008E 01	-1.78610E 02	
26.40	1.15163E 00	-2.74508E 01	-2.12429E 00	3.94696E-03	-2.08152E 00	2.85049E 01	-1.78748E 02	
26.50	1.15162E 00	-2.75549E 01	-2.13839E 00	3.94896E-03	-2.09539E 00	2.86089E 01	-1.78885E 02	
26.60	1.15161E 00	-2.76590E 01	-2.15255E 00	3.95095E-03	-2.10931E 00	2.87130E 01	-1.79022E 02	
26.70	1.15160E 00	-2.77631E 01	-2.16674E 00	3.95291E-03	-2.12328E 00	2.88170E 01	-1.79158E 02	
26.80	1.15159E 00	-2.78672E 01	-2.18099E 00	3.95484E-03	-2.13729E 00	2.89210E 01	-1.79294E 02	
26.90	1.15158E 00	-2.79713E 01	-2.19527E 00	3.95674E-03	-2.15134E 00	2.90250E 01	-1.79429E 02	
27.00	1.15158E 00	-2.80753E 01	-2.20960E 00	3.95862E-03	-2.16544E 00	2.91289E 01	-1.79565E 02	
27.10	1.15157E 00	-2.81794E 01	-2.22398E 00	3.96047E-03	-2.17959E 00	2.92329E 01	-1.79699E 02	
27.20	1.15156E 00	-2.82834E 01	-2.23840E 00	3.96229E-03	-2.19378E 00	2.93368E 01	-1.79833E 02	
27.30	1.15155E 00	-2.83874E 01	-2.25286E 00	3.96410E-03	-2.20801E 00	2.94407E 01	-1.79967E 02	
27.40	1.15154E 00	-2.84913E 01	-2.26738E 00	3.96587E-03	-2.22229E 00	2.95446E 01	-1.80101E 02	
27.50	1.15153E 00	-2.85953E 01	-2.28193E 00	3.96762E-03	-2.23661E 00	2.96485E 01	-1.80234E 02	
27.60	1.15152E 00	-2.86992E 01	-2.29653E 00	3.96934E-03	-2.25098E 00	2.97523E 01	-1.80367E 02	
27.70	1.15151E 00	-2.88032E 01	-2.31117E 00	3.97103E-03	-2.26539E 00	2.98561E 01	-1.80500E 02	
27.80	1.15151E 00	-2.89071E 01	-2.32586E 00	3.97271E-03	-2.27985E 00	2.99600E 01	-1.80632E 02	
27.90	1.15150E 00	-2.90109E 01	-2.34059E 00	3.97436E-03	-2.29435E 00	3.00637E 01	-1.80764E 02	
28.00	1.15149E 00	-2.91148E 01	-2.35537E 00	3.97599E-03	-2.30890E 00	3.01675E 01	-1.80895E 02	
28.10	1.15148E 00	-2.92186E 01	-2.37019E 00	3.97758E-03	-2.32349E 00	3.02713E 01	-1.81026E 02	
28.20	1.15147E 00	-2.93225E 01	-2.38506E 00	3.97917E-03	-2.33813E 00	3.03750E 01	-1.81157E 02	
28.30	1.15146E 00	-2.94263E 01	-2.39997E 00	3.98072E-03	-2.35281E 00	3.04787E 01	-1.81288E 02	
28.40	1.15145E 00	-2.95301E 01	-2.41493E 00	3.98225E-03	-2.36753E 00	3.05824E 01	-1.81418E 02	
28.50	1.15145E 00	-2.96338E 01	-2.42993E 00	3.98375E-03	-2.38230E 00	3.06861E 01	-1.81548E 02	
28.60	1.15144E 00	-2.97376E 01	-2.44497E 00	3.98524E-03	-2.39711E 00	3.07898E 01	-1.81677E 02	
28.70	1.15143E 00	-2.98413E 01	-2.46006E 00	3.98670E-03	-2.41197E 00	3.08934E 01	-1.81807E 02	
28.80	1.15142E 00	-2.99450E 01	-2.47519E 00	3.98814E-03	-2.42687E 00	3.09970E 01	-1.81936E 02	
28.90	1.15141E 00	-3.00487E 01	-2.49037E 00	3.98956E-03	-2.44182E 00	3.11007E 01	-1.82064E 02	
29.00	1.15140E 00	-3.01524E 01	-2.50560E 00	3.99096E-03	-2.45681E 00	3.12042E 01	-1.82193E 02	
29.10	1.15140E 00	-3.02561E 01	-2.52086E 00	3.99233E-03	-2.47185E 00	3.13078E 01	-1.82321E 02	
29.20	1.15139E 00	-3.03597E 01	-2.53617E 00	3.99368E-03	-2.48693E 00	3.14114E 01	-1.82449E 02	
29.30	1.15138E 00	-3.04633E 01	-2.55153E 00	3.99500E-03	-2.50205E 00	3.15149E 01	-1.82576E 02	
29.40	1.15137E 00	-3.05669E 01	-2.56693E 00	3.99631E-03	-2.51722E 00	3.16184E 01	-1.12704E 02	
29.50	1.15136E 00	-3.06705E 01	-2.58238E 00	3.99760E-03	-2.53244E 00	3.17219E 01	-1.82831E 02	
29.60	1.15136E 00	-3.07740E 01	-2.59786E 00	3.99887E-03	-2.54770E 00	3.18253E 01	-1.82957E 02	
29.70	1.15135E 00	-3.08776E 01	-2.61340E 00	4.00011E-03	-2.56300E 00	3.19288E 01	-1.83084E 02	
29.80	1.15134E 00	-3.09811E 01	-2.62898E 00	4.00134E-03	-2.57835E 00	3.20322E 01	-1.83210E 02	
29.90	1.15133E 00	-3.10846E 01	-2.64460E 00	4.00254E-03	-2.59374E 00	3.21356E 01	-1.83336E 02	
30.00	1.15132E 00	-3.11881E 01	-2.66027E 00	4.00373E-03	-2.60918E 00	3.22390E 01	-1.83462E 02	

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
							Electron
			$Z=6$	$A=12$	$\rho=1.1 A^{1/3} F$		
24.10	7.89317E-04	-1.31830E 00	-5.64591E-02	3.42669E 01	-5.52591E-02	1.37408E 00	-2.82732E-02
24.20	7.95877E-04	-1.32933E 00	-5.71055E-02	3.42694E 01	-5.58932E-02	1.38534E 00	-2.82749E-02
24.30	8.02464E-04	-1.34041E 00	-5.77568E-02	3.42718E 01	-5.65322E-02	1.39665E 00	-2.82766E-02
24.40	8.09078E-04	-1.35154E 00	-5.84130E-02	3.42742E 01	-5.71759E-02	1.40800E 00	-2.82782E-02
24.50	8.15720E-04	-1.36271E 00	-5.90740E-02	3.42766E 01	-5.78245E-02	1.41940E 00	-2.82798E-02
24.60	8.22388E-04	-1.37392E 00	-5.97400E-02	3.42790E 01	-5.84779E-02	1.43085E 00	-2.82815E-02
24.70	8.29084E-04	-1.38518E 00	-6.04109E-02	3.42813E 01	-5.91362E-02	1.44234E 00	-2.82831E-02
24.80	8.35807E-04	-1.39649E 00	-6.10867E-02	3.42836E 01	-5.97994E-02	1.45387E 00	-2.82847E-02
24.90	8.42556E-04	-1.40784E 00	-6.17675E-02	3.42860E 01	-6.04674E-02	1.46545E 00	-2.82862E-02
25.00	8.49334E-04	-1.41924E 00	-6.24532E-02	3.42882E 01	-6.11404E-02	1.47708E 00	-2.82878E-02
25.10	8.56138E-04	-1.43068E 00	-6.31439E-02	3.42905E 01	-6.18183E-02	1.48875E 00	-2.82894E-02
25.20	8.62969E-04	-1.44217E 00	-6.38397E-02	3.42928E 01	-6.25012E-02	1.50047E 00	-2.82909E-02
25.30	8.69828E-04	-1.45370E 00	-6.45405E-02	3.42950E 01	-6.31890E-02	1.51223E 00	-2.82925E-02
25.40	8.76713E-04	-1.46528E 00	-6.52463E-02	3.42972E 01	-6.38818E-02	1.52404E 00	-2.82940E-02
25.50	8.83626E-04	-1.47690E 00	-6.59572E-02	3.42994E 01	-6.45796E-02	1.53589E 00	-2.82955E-02
25.60	8.90566E-04	-1.48857E 00	-6.66732E-02	3.43016E 01	-6.52825E-02	1.54779E 00	-2.82970E-02
25.70	8.97533E-04	-1.50029E 00	-6.73942E-02	3.43038E 01	-6.59904E-02	1.55973E 00	-2.82985E-02
25.80	9.04527E-04	-1.51205E 00	-6.81204E-02	3.43059E 01	-6.67033E-02	1.57172E 00	-2.83000E-02
25.90	9.11549E-04	-1.52385E 00	-6.88517E-02	3.43080E 01	-6.74213E-02	1.58376E 00	-2.83014E-02
26.00	9.18597E-04	-1.53570E 00	-6.95882E-02	3.43101E 01	-6.81444E-02	1.59584E 00	-2.83029E-02
26.10	9.25673E-04	-1.54760E 00	-7.03298E-02	3.43122E 01	-6.88726E-02	1.60796E 00	-2.83043E-02
26.20	9.32776E-04	-1.55954E 00	-7.10766E-02	3.43143E 01	-6.96059E-02	1.62013E 00	-2.83058E-02
26.30	9.39905E-04	-1.57153E 00	-7.18287E-02	3.43164E 01	-7.03444E-02	1.63235E 00	-2.83072E-02
26.40	9.47062E-04	-1.58356E 00	-7.25859E-02	3.43184E 01	-7.10880E-02	1.64461E 00	-2.83086E-02
26.50	9.54246E-04	-1.59564E 00	-7.33484E-02	3.43205E 01	-7.18369E-02	1.65692E 00	-2.83100E-02
26.60	9.61458E-04	-1.60776E 00	-7.41161E-02	3.43225E 01	-7.25909E-02	1.66927E 00	-2.83114E-02
26.70	9.68696E-04	-1.61993E 00	-7.48891E-02	3.43245E 01	-7.33501E-02	1.68167E 00	-2.83128E-02
26.80	9.75962E-04	-1.63214E 00	-7.56675E-02	3.43265E 01	-7.41146E-02	1.69411E 00	-2.83142E-02
26.90	9.83255E-04	-1.64440E 00	-7.64511E-02	3.43284E 01	-7.48843E-02	1.70660E 00	-2.83156E-02
27.00	9.90575E-04	-1.65670E 00	-7.72400E-02	3.43304E 01	-7.56593E-02	1.71913E 00	-2.83169E-02
27.10	9.97922E-04	-1.66905E 00	-7.80343E-02	3.43323E 01	-7.64395E-02	1.73171E 00	-2.83183E-02
27.20	1.00530E-03	-1.68145E 00	-7.88340E-02	3.43342E 01	-7.72251E-02	1.74433E 00	-2.83196E-02
27.30	1.01270E-03	-1.69389E 00	-7.96390E-02	3.43362E 01	-7.80160E-02	1.75700E 00	-2.83210E-02
27.40	1.02013E-03	-1.70637E 00	-8.04494E-02	3.43380E 01	-7.88122E-02	1.76971E 00	-2.83223E-02
27.50	1.02758E-03	-1.71890E 00	-8.12653E-02	3.43399E 01	-7.96138E-02	1.78247E 00	-2.83236E-02
27.60	1.03506E-03	-1.73148E 00	-8.20865E-02	3.43418E 01	-8.04207E-02	1.79527E 00	-2.83249E-02
27.70	1.04257E-03	-1.74410E 00	-8.29133E-02	3.43437E 01	-8.12331E-02	1.80812E 00	-2.83262E-02
27.80	1.05011E-03	-1.75676E 00	-8.37455E-02	3.43455E 01	-8.20508E-02	1.82102E 00	-2.83275E-02
27.90	1.05767E-03	-1.76947E 00	-8.45831E-02	3.43473E 01	-8.28740E-02	1.83395E 00	-2.83288E-02
28.00	1.06527E-03	-1.78223E 00	-8.54263E-02	3.43491E 01	-8.37026E-02	1.84694E 00	-2.83300E-02
28.10	1.07288E-03	-1.79503E 00	-8.62750E-02	3.43509E 01	-8.45366E-02	1.85997E 00	-2.83313E-02
28.20	1.08053E-03	-1.80788E 00	-8.71292E-02	3.43527E 01	-8.53762E-02	1.87304E 00	-2.83325E-02
28.30	1.08820E-03	-1.82077E 00	-8.79890E-02	3.43545E 01	-8.62212E-02	1.88616E 00	-2.83338E-02
28.40	1.09590E-03	-1.83370E 00	-8.88544E-02	3.43562E 01	-8.70718E-02	1.89933E 00	-2.83350E-02
28.50	1.10363E-03	-1.84669E 00	-8.97253E-02	3.43580E 01	-8.79279E-02	1.91254E 00	-2.83362E-02
28.60	1.11138E-03	-1.85971E 00	-9.06019E-02	3.43597E 01	-8.87895E-02	1.92579E 00	-2.83375E-02
28.70	1.11916E-03	-1.87279E 00	-9.14841E-02	3.43614E 01	-8.96567E-02	1.93909E 00	-2.83387E-02
28.80	1.12697E-03	-1.88590E 00	-9.23719E-02	3.43631E 01	-9.05295E-02	1.95244E 00	-2.83399E-02
28.90	1.13481E-03	-1.89906E 00	-9.32654E-02	3.43648E 01	-9.14078E-02	1.96583E 00	-2.83411E-02
29.00	1.14267E-03	-1.91227E 00	-9.41645E-02	3.43665E 01	-9.22918E-02	1.97926E 00	-2.83423E-02
29.10	1.15056E-03	-1.92552E 00	-9.50694E-02	3.43682E 01	-9.31815E-02	1.99274E 00	-2.83434E-02
29.20	1.15848E-03	-1.93882E 00	-9.59799E-02	3.43699E 01	-9.40768E-02	2.00627E 00	-2.83446E-02
29.30	1.16642E-03	-1.95216E 00	-9.68962E-02	3.43715E 01	-9.49777E-02	2.01984E 00	-2.83458E-02
29.40	1.17439E-03	-1.96555E 00	-9.78183E-02	3.43732E 01	-9.58843E-02	2.03346E 00	-2.83469E-02
29.50	1.18239E-03	-1.97898E 00	-9.87461E-02	3.43748E 01	-9.67967E-02	2.04712E 00	-2.83481E-02
29.60	1.19041E-03	-1.99246E 00	-9.96797E-02	3.43764E 01	-9.77148E-02	2.06082E 00	-2.83492E-02
29.70	1.19847E-03	-2.00598E 00	-1.00619E-01	3.43780E 01	-9.86385E-02	2.07457E 00	-2.83504E-02
29.80	1.20655E-03	-2.01955E 00	-1.01564E-01	3.43796E 01	-9.95681E-02	2.08837E 00	-2.83515E-02
29.90	1.21465E-03	-2.03316E 00	-1.02515E-01	3.43812E 01	-1.00503E-01	2.10221E 00	-2.83526E-02
30.00	1.22279E-03	-2.04682E 00	-1.03472E-01	3.43827E 01	-1.01445E-01	2.11609E 00	-2.83537E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$		$A=12$		$\rho=1.1 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
30.10	1.15132E 00	-3.12916E 01	-2.67598E 00	4.00488E-03	-2.62466E 00	3.23424E 01	-1.83588E 02			
30.20	1.15131E 00	-3.13950E 01	-2.69173E 00	4.00603E-03	-2.64018E 00	3.24458E 01	-1.83713E 02			
30.30	1.15130E 00	-3.14984E 01	-2.70753E 00	4.00715E-03	-2.65575E 00	3.25491E 01	-1.83838E 02			
30.40	1.15129E 00	-3.16018E 01	-2.72338E 00	4.00826E-03	-2.67136E 00	3.26524E 01	-1.83963E 02			
30.50	1.15128E 00	-3.17052E 01	-2.73927E 00	4.00934E-03	-2.68702E 00	3.27557E 01	-1.84088E 02			
30.60	1.15128E 00	-3.18086E 01	-2.75520E 00	4.01040E-03	-2.70272E 00	3.28590E 01	-1.84212E 02			
30.70	1.15127E 00	-3.19119E 01	-2.77118E 00	4.01145E-03	-2.71847E 00	3.29622E 01	-1.84336E 02			
30.80	1.15126E 00	-3.20153E 01	-2.78720E 00	4.01247E-03	-2.73426E 00	3.30655E 01	-1.84460E 02			
30.90	1.15125E 00	-3.21186E 01	-2.80326E 00	4.01348E-03	-2.75010E 00	3.31687E 01	-1.84584E 02			
31.00	1.15125E 00	-3.22219E 01	-2.81937E 00	4.01446E-03	-2.76598E 00	3.32719E 01	-1.84708E 02			
31.10	1.15124E 00	-3.23251E 01	-2.83553E 00	4.01544E-03	-2.78190E 00	3.33751E 01	-1.84831E 02			
31.20	1.15123E 00	-3.24284E 01	-2.85173E 00	4.01639E-03	-2.79787E 00	3.34782E 01	-1.84954E 02			
31.30	1.15122E 00	-3.25316E 01	-2.86797E 00	4.01732E-03	-2.81388E 00	3.35814E 01	-1.85077E 02			
31.40	1.15122E 00	-3.26348E 01	-2.88426E 00	4.01823E-03	-2.82994E 00	3.36845E 01	-1.85200E 02			
31.50	1.15121E 00	-3.27380E 01	-2.90059E 00	4.01913E-03	-2.84604E 00	3.37876E 01	-1.85323E 02			
31.60	1.15120E 00	-3.28412E 01	-2.91696E 00	4.02000E-03	-2.86218E 00	3.38906E 01	-1.85445E 02			
31.70	1.15119E 00	-3.29443E 01	-2.93338E 00	4.02086E-03	-2.87837E 00	3.39937E 01	-1.85567E 02			
31.80	1.15119E 00	-3.30474E 01	-2.94985E 00	4.02171E-03	-2.89461E 00	3.40967E 01	-1.85689E 02			
31.90	1.15118E 00	-3.31505E 01	-2.96636E 00	4.02253E-03	-2.91088E 00	3.41997E 01	-1.85811E 02			
32.00	1.15117E 00	-3.32536E 01	-2.98291E 00	4.02334E-03	-2.92721E 00	3.43027E 01	-1.85933E 02			
32.10	1.15116E 00	-3.33567E 01	-2.99950E 00	4.02413E-03	-2.94357E 00	3.44057E 01	-1.86055E 02			
32.20	1.15116E 00	-3.34597E 01	-3.01614E 00	4.02490E-03	-2.95998E 00	3.45087E 01	-1.86176E 02			
32.30	1.15115E 00	-3.35628E 01	-3.03283E 00	4.02565E-03	-2.97644E 00	3.46116E 01	-1.86297E 02			
32.40	1.15114E 00	-3.36658E 01	-3.04956E 00	4.02639E-03	-2.99293E 00	3.47145E 01	-1.86418E 02			
32.50	1.15113E 00	-3.37688E 01	-3.06633E 00	4.02712E-03	-3.00948E 00	3.48174E 01	-1.86539E 02			
32.60	1.15113E 00	-3.38717E 01	-3.08315E 00	4.02782E-03	-3.02606E 00	3.49203E 01	-1.86660E 02			
32.70	1.15112E 00	-3.39747E 01	-3.10001E 00	4.02850E-03	-3.04269E 00	3.50231E 01	-1.86781E 02			
32.80	1.15111E 00	-3.40776E 01	-3.11691E 00	4.02918E-03	-3.05937E 00	3.51259E 01	-1.86901E 02			
32.90	1.15111E 00	-3.41805E 01	-3.13386E 00	4.02983E-03	-3.07609E 00	3.52288E 01	-1.87022E 02			
33.00	1.15110E 00	-3.42834E 01	-3.15086E 00	4.03047E-03	-3.09285E 00	3.53315E 01	-1.87142E 02			
33.10	1.15109E 00	-3.43862E 01	-3.16789E 00	4.03109E-03	-3.10966E 00	3.54343E 01	-1.87262E 02			
33.20	1.15108E 00	-3.44891E 01	-3.18497E 00	4.03169E-03	-3.12651E 00	3.55371E 01	-1.87383E 02			
33.30	1.15108E 00	-3.45919E 01	-3.20210E 00	4.03229E-03	-3.14341E 00	3.56398E 01	-1.87502E 02			
33.40	1.15107E 00	-3.46947E 01	-3.21927E 00	4.03286E-03	-3.16034E 00	3.57425E 01	-1.87622E 02			
33.50	1.15106E 00	-3.47975E 01	-3.23648E 00	4.03342E-03	-3.17733E 00	3.58452E 01	-1.87742E 02			
33.60	1.15106E 00	-3.49002E 01	-3.25374E 00	4.03396E-03	-3.19435E 00	3.59478E 01	-1.87861E 02			
33.70	1.15105E 00	-3.50030E 01	-3.27104E 00	4.03449E-03	-3.21143E 00	3.60505E 01	-1.87981E 02			
33.80	1.15104E 00	-3.51057E 01	-3.28839E 00	4.03500E-03	-3.22854E 00	3.61531E 01	-1.88100E 02			
33.90	1.15104E 00	-3.52084E 01	-3.30577E 00	4.03549E-03	-3.24570E 00	3.62557E 01	-1.88219E 02			
34.00	1.15103E 00	-3.53111E 01	-3.32321E 00	4.03597E-03	-3.26290E 00	3.63583E 01	-1.88338E 02			
34.10	1.15102E 00	-3.54137E 01	-3.34068E 00	4.03644E-03	-3.28015E 00	3.64608E 01	-1.88457E 02			
34.20	1.15101E 00	-3.55163E 01	-3.35821E 00	4.03690E-03	-3.29744E 00	3.65634E 01	-1.88576E 02			
34.30	1.15101E 00	-3.56190E 01	-3.37577E 00	4.03733E-03	-3.31478E 00	3.66659E 01	-1.88695E 02			
34.40	1.15100E 00	-3.57215E 01	-3.39338E 00	4.03775E-03	-3.33216E 00	3.67684E 01	-1.88813E 02			
34.50	1.15099E 00	-3.58241E 01	-3.41103E 00	4.03815E-03	-3.34958E 00	3.68708E 01	-1.88932E 02			
34.60	1.15099E 00	-3.59267E 01	-3.42873E 00	4.03855E-03	-3.36704E 00	3.69733E 01	-1.89051E 02			
34.70	1.15098E 00	-3.60292E 01	-3.44647E 00	4.03892E-03	-3.38456E 00	3.70757E 01	-1.89169E 02			
34.80	1.15097E 00	-3.61317E 01	-3.46425E 00	4.03928E-03	-3.40211E 00	3.71781E 01	-1.89288E 02			
34.90	1.15097E 00	-3.62342E 01	-3.48208E 00	4.03963E-03	-3.41971E 00	3.72805E 01	-1.89406E 02			
35.00	1.15096E 00	-3.63366E 01	-3.49995E 00	4.03996E-03	-3.43735E 00	3.73829E 01	-1.89524E 02			
35.10	1.15095E 00	-3.64391E 01	-3.51787E 00	4.04028E-03	-3.45504E 00	3.74852E 01	-1.89642E 02			
35.20	1.15095E 00	-3.65415E 01	-3.53583E 00	4.04059E-03	-3.47277E 00	3.75875E 01	-1.89760E 02			
35.30	1.15094E 00	-3.66439E 01	-3.55383E 00	4.04088E-03	-3.49054E 00	3.76898E 01	-1.89878E 02			
35.40	1.15093E 00	-3.67463E 01	-3.57188E 00	4.04116E-03	-3.50836E 00	3.77921E 01	-1.89996E 02			
35.50	1.15093E 00	-3.68486E 01	-3.58997E 00	4.04142E-03	-3.52622E 00	3.78944E 01	-1.90114E 02			
35.60	1.15092E 00	-3.69510E 01	-3.60810E 00	4.04167E-03	-3.54412E 00	3.79966E 01	-1.90232E 02			
35.70	1.15091E 00	-3.70533E 01	-3.62628E 00	4.04191E-03	-3.56207E 00	3.80988E 01	-1.90349E 02			
35.80	1.15091E 00	-3.71556E 01	-3.64450E 00	4.04212E-03	-3.58006E 00	3.82010E 01	-1.90467E 02			
35.90	1.15090E 00	-3.72578E 01	-3.66277E 00	4.04233E-03	-3.59810E 00	3.83032E 01	-1.90585E 02			
36.00	1.15090E 00	-3.73601E 01	-3.68108E 00	4.04253E-03	-3.61618E 00	3.84053E 01	-1.90702E 02			

## ELECTRON RADIAL FUNCTIONS

 $Z = 6$  $A = 12$  $\rho = 1.1 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
30.10	1.23095E-03	-2.06052E 00	-1.04435E-01	3.43843E 01	-1.02392E-01	2.13003E 00	-2.83548E-02
30.20	1.23914E-03	-2.07427E 00	-1.05404E-01	3.43858E 01	-1.03344E-01	2.14400E 00	-2.83559E-02
30.30	1.24735E-03	-2.08806E 00	-1.06378E-01	3.43874E 01	-1.04303E-01	2.15802E 00	-2.83570E-02
30.40	1.25559E-03	-2.10190E 00	-1.07359E-01	3.43889E 01	-1.05267E-01	2.17209E 00	-2.83581E-02
30.50	1.26386E-03	-2.11578E 00	-1.08345E-01	3.43904E 01	-1.06238E-01	2.18620E 00	-2.83592E-02
30.60	1.27216E-03	-2.12971E 00	-1.09337E-01	3.43919E 01	-1.07214E-01	2.20035E 00	-2.83603E-02
30.70	1.28048E-03	-2.14368E 00	-1.10336E-01	3.43934E 01	-1.08196E-01	2.21455E 00	-2.83613E-02
30.80	1.28883E-03	-2.15770E 00	-1.11340E-01	3.43949E 01	-1.09184E-01	2.22880E 00	-2.83624E-02
30.90	1.29721E-03	-2.17176E 00	-1.12350E-01	3.43964E 01	-1.10178E-01	2.24309E 00	-2.83635E-02
31.00	1.30562E-03	-2.18587E 00	-1.13367E-01	3.43979E 01	-1.11178E-01	2.25742E 00	-2.83645E-02
31.10	1.31405E-03	-2.20002E 00	-1.14389E-01	3.43993E 01	-1.12184E-01	2.27180E 00	-2.83655E-02
31.20	1.32251E-03	-2.21422E 00	-1.15418E-01	3.44008E 01	-1.13196E-01	2.28623E 00	-2.83666E-02
31.30	1.33100E-03	-2.22846E 00	-1.16452E-01	3.44022E 01	-1.14214E-01	2.30070E 00	-2.83676E-02
31.40	1.33951E-03	-2.24275E 00	-1.17493E-01	3.44037E 01	-1.15238E-01	2.31521E 00	-2.83686E-02
31.50	1.34805E-03	-2.25708E 00	-1.18539E-01	3.44051E 01	-1.16268E-01	2.32977E 00	-2.83696E-02
31.60	1.35662E-03	-2.27145E 00	-1.19592E-01	3.44065E 01	-1.17305E-01	2.34437E 00	-2.83706E-02
31.70	1.36521E-03	-2.28588E 00	-1.20651E-01	3.44079E 01	-1.18347E-01	2.35902E 00	-2.83716E-02
31.80	1.37384E-03	-2.30034E 00	-1.21717E-01	3.44093E 01	-1.19395E-01	2.37371E 00	-2.83726E-02
31.90	1.38248E-03	-2.31485E 00	-1.22788E-01	3.44107E 01	-1.20450E-01	2.38845E 00	-2.83736E-02
32.00	1.39116E-03	-2.32941E 00	-1.23866E-01	3.44120E 01	-1.21510E-01	2.40324E 00	-2.83746E-02
32.10	1.39986E-03	-2.34401E 00	-1.24949E-01	3.44134E 01	-1.22577E-01	2.41806E 00	-2.83756E-02
32.20	1.40860E-03	-2.35865E 00	-1.26039E-01	3.44148E 01	-1.23650E-01	2.43294E 00	-2.83766E-02
32.30	1.41735E-03	-2.37334E 00	-1.27136E-01	3.44161E 01	-1.24729E-01	2.44785E 00	-2.83775E-02
32.40	1.42614E-03	-2.38808E 00	-1.28238E-01	3.44174E 01	-1.25814E-01	2.46282E 00	-2.83785E-02
32.50	1.43495E-03	-2.40286E 00	-1.29347E-01	3.44188E 01	-1.26906E-01	2.47782E 00	-2.83795E-02
32.60	1.44379E-03	-2.41768E 00	-1.30462E-01	3.44201E 01	-1.28004E-01	2.49287E 00	-2.83804E-02
32.70	1.45266E-03	-2.43255E 00	-1.31583E-01	3.44214E 01	-1.29108E-01	2.50797E 00	-2.83814E-02
32.80	1.46155E-03	-2.44746E 00	-1.32711E-01	3.44227E 01	-1.30218E-01	2.52311E 00	-2.83823E-02
32.90	1.47047E-03	-2.46242E 00	-1.33845E-01	3.44240E 01	-1.31335E-01	2.53830E 00	-2.83832E-02
33.00	1.47942E-03	-2.47743E 00	-1.34986E-01	3.44253E 01	-1.32458E-01	2.55353E 00	-2.83842E-02
33.10	1.48839E-03	-2.49247E 00	-1.36133E-01	3.44266E 01	-1.33587E-01	2.56880E 00	-2.83851E-02
33.20	1.49739E-03	-2.50757E 00	-1.37286E-01	3.44279E 01	-1.34723E-01	2.58412E 00	-2.83860E-02
33.30	1.50642E-03	-2.52271E 00	-1.38446E-01	3.44291E 01	-1.35865E-01	2.59949E 00	-2.83869E-02
33.40	1.51548E-03	-2.53789E 00	-1.39612E-01	3.44304E 01	-1.37013E-01	2.61490E 00	-2.83878E-02
33.50	1.52456E-03	-2.55311E 00	-1.40785E-01	3.44316E 01	-1.38168E-01	2.63035E 00	-2.83887E-02
33.60	1.53367E-03	-2.56839E 00	-1.41964E-01	3.44329E 01	-1.39329E-01	2.64585E 00	-2.83896E-02
33.70	1.54281E-03	-2.58370E 00	-1.43149E-01	3.44341E 01	-1.40497E-01	2.66139E 00	-2.83905E-02
33.80	1.55198E-03	-2.59906E 00	-1.44341E-01	3.44353E 01	-1.41671E-01	2.67698E 00	-2.83914E-02
33.90	1.56117E-03	-2.61447E 00	-1.45540E-01	3.44366E 01	-1.42851E-01	2.69261E 00	-2.83923E-02
34.00	1.57039E-03	-2.62992E 00	-1.46745E-01	3.44378E 01	-1.44039E-01	2.70829E 00	-2.83932E-02
34.10	1.57963E-03	-2.64541E 00	-1.47957E-01	3.44390E 01	-1.45232E-01	2.72401E 00	-2.83941E-02
34.20	1.58891E-03	-2.66095E 00	-1.49175E-01	3.44402E 01	-1.46432E-01	2.73978E 00	-2.83949E-02
34.30	1.59821E-03	-2.67654E 00	-1.50400E-01	3.44414E 01	-1.47639E-01	2.75559E 00	-2.83958E-02
34.40	1.60753E-03	-2.69216E 00	-1.51632E-01	3.44426E 01	-1.48852E-01	2.77144E 00	-2.83966E-02
34.50	1.61689E-03	-2.70784E 00	-1.52870E-01	3.44437E 01	-1.50072E-01	2.78734E 00	-2.83975E-02
34.60	1.62627E-03	-2.72355E 00	-1.54115E-01	3.44449E 01	-1.51298E-01	2.80329E 00	-2.83984E-02
34.70	1.63568E-03	-2.73932E 00	-1.55366E-01	3.44461E 01	-1.52531E-01	2.81928E 00	-2.83992E-02
34.80	1.64512E-03	-2.75512E 00	-1.56624E-01	3.44472E 01	-1.53770E-01	2.83531E 00	-2.84000E-02
34.90	1.65458E-03	-2.77097E 00	-1.57889E-01	3.44484E 01	-1.55017E-01	2.85139E 00	-2.84009E-02
35.00	1.66407E-03	-2.78687E 00	-1.59161E-01	3.44495E 01	-1.56269E-01	2.86751E 00	-2.84017E-02
35.10	1.67359E-03	-2.80281E 00	-1.60439E-01	3.44506E 01	-1.57529E-01	2.88368E 00	-2.84025E-02
35.20	1.68313E-03	-2.81880E 00	-1.61724E-01	3.44518E 01	-1.58795E-01	2.89989E 00	-2.84034E-02
35.30	1.69270E-03	-2.83482E 00	-1.63016E-01	3.44529E 01	-1.60068E-01	2.91614E 00	-2.84042E-02
35.40	1.70230E-03	-2.85090E 00	-1.64315E-01	3.44540E 01	-1.61348E-01	2.93244E 00	-2.84050E-02
35.50	1.71193E-03	-2.86702E 00	-1.65620E-01	3.44551E 01	-1.62634E-01	2.94879E 00	-2.84058E-02
35.60	1.72158E-03	-2.88318E 00	-1.66932E-01	3.44562E 01	-1.63927E-01	2.96518E 00	-2.84066E-02
35.70	1.73126E-03	-2.89939E 00	-1.68251E-01	3.44573E 01	-1.65227E-01	2.98161E 00	-2.84074E-02
35.80	1.74097E-03	-2.91564E 00	-1.69577E-01	3.44584E 01	-1.66534E-01	2.99809E 00	-2.84082E-02
35.90	1.75070E-03	-2.93193E 00	-1.70910E-01	3.44595E 01	-1.67847E-01	3.01461E 00	-2.84090E-02
36.00	1.76046E-03	-2.94827E 00	-1.72250E-01	3.44606E 01	-1.69168E-01	3.03118E 00	-2.84098E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=6$		$A=12$		$\rho=1.1 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
36.10	1.15089E 00	-3.74623E 01	-3.69943E 00	4.04271E-03	-3.63430E 00	3.85075E 01	-1.90820E 02	02
36.20	1.15088E 00	-3.75645E 01	-3.71783E 00	4.04287E-03	-3.65247E 00	3.86096E 01	-1.90937E 02	02
36.30	1.15088E 00	-3.76667E 01	-3.73627E 00	4.04303E-03	-3.67068E 00	3.87116E 01	-1.91055E 02	02
36.40	1.15087E 00	-3.77688E 01	-3.75475E 00	4.04317E-03	-3.68894E 00	3.88137E 01	-1.91172E 02	02
36.50	1.15086E 00	-3.78710E 01	-3.77328E 00	4.04330E-03	-3.70724E 00	3.89157E 01	-1.91289E 02	02
36.60	1.15086E 00	-3.79731E 01	-3.79185E 00	4.04341E-03	-3.72558E 00	3.90177E 01	-1.91407E 02	02
36.70	1.15085E 00	-3.80752E 01	-3.81047E 00	4.04352E-03	-3.74396E 00	3.91197E 01	-1.91524E 02	02
36.80	1.15084E 00	-3.81772E 01	-3.82912E 00	4.04361E-03	-3.76239E 00	3.92217E 01	-1.91641E 02	02
36.90	1.15084E 00	-3.82793E 01	-3.84783E 00	4.04368E-03	-3.78086E 00	3.93237E 01	-1.91758E 02	02
37.00	1.15083E 00	-3.83813E 01	-3.86657E 00	4.04375E-03	-3.79938E 00	3.94256E 01	-1.91876E 02	02
37.10	1.15083E 00	-3.84833E 01	-3.88536E 00	4.04379E-03	-3.81794E 00	3.95275E 01	-1.91993E 02	02
37.20	1.15082E 00	-3.85853E 01	-3.90419E 00	4.04383E-03	-3.83654E 00	3.96294E 01	-1.92110E 02	02
37.30	1.15081E 00	-3.86873E 01	-3.92307E 00	4.04386E-03	-3.85519E 00	3.97312E 01	-1.92227E 02	02
37.40	1.15081E 00	-3.87892E 01	-3.94199E 00	4.04387E-03	-3.87388E 00	3.98330E 01	-1.92344E 02	02
37.50	1.15080E 00	-3.88911E 01	-3.96095E 00	4.04387E-03	-3.89262E 00	3.99349E 01	-1.92461E 02	02
37.60	1.15079E 00	-3.89930E 01	-3.97996E 00	4.04386E-03	-3.91139E 00	4.00366E 01	-1.92578E 02	02
37.70	1.15079E 00	-3.90949E 01	-3.99901E 00	4.04384E-03	-3.93022E 00	4.01384E 01	-1.92695E 02	02
37.80	1.15078E 00	-3.91967E 01	-4.01810E 00	4.04380E-03	-3.94908E 00	4.02402E 01	-1.92812E 02	02
37.90	1.15078E 00	-3.92985E 01	-4.03724E 00	4.04375E-03	-3.96799E 00	4.03419E 01	-1.92929E 02	02
38.00	1.15077E 00	-3.94003E 01	-4.05642E 00	4.04369E-03	-3.98694E 00	4.04436E 01	-1.93047E 02	02
38.10	1.15076E 00	-3.95021E 01	-4.07565E 00	4.04362E-03	-4.00594E 00	4.05452E 01	-1.93164E 02	02
38.20	1.15076E 00	-3.96039E 01	-4.09491E 00	4.04354E-03	-4.02498E 00	4.06469E 01	-1.93280E 02	02
38.30	1.15075E 00	-3.97056E 01	-4.11422E 00	4.04344E-03	-4.04406E 00	4.07485E 01	-1.93397E 02	02
38.40	1.15075E 00	-3.98073E 01	-4.13358E 00	4.04333E-03	-4.06318E 00	4.08501E 01	-1.93515E 02	02
38.50	1.15074E 00	-3.99090E 01	-4.15298E 00	4.04321E-03	-4.08235E 00	4.09517E 01	-1.93631E 02	02
38.60	1.15073E 00	-4.00107E 01	-4.17242E 00	4.04309E-03	-4.10157E 00	4.10533E 01	-1.93748E 02	02
38.70	1.15073E 00	-4.01123E 01	-4.19190E 00	4.04294E-03	-4.12082E 00	4.11548E 01	-1.93865E 02	02
38.80	1.15072E 00	-4.02139E 01	-4.21143E 00	4.04279E-03	-4.14012E 00	4.12563E 01	-1.93982E 02	02
38.90	1.15072E 00	-4.03155E 01	-4.23100E 00	4.04262E-03	-4.15946E 00	4.13578E 01	-1.94100E 02	02
39.00	1.15071E 00	-4.04171E 01	-4.25062E 00	4.04244E-03	-4.17885E 00	4.14593E 01	-1.94217E 02	02
39.10	1.15070E 00	-4.05186E 01	-4.27028E 00	4.04225E-03	-4.19828E 00	4.15607E 01	-1.94334E 02	02
39.20	1.15070E 00	-4.06201E 01	-4.28998E 00	4.04205E-03	-4.21775E 00	4.16622E 01	-1.94451E 02	02
39.30	1.15069E 00	-4.07216E 01	-4.30972E 00	4.04184E-03	-4.23727E 00	4.17635E 01	-1.94568E 02	02
39.40	1.15069E 00	-4.08231E 01	-4.32951E 00	4.04162E-03	-4.25683E 00	4.18649E 01	-1.94685E 02	02
39.50	1.15068E 00	-4.09246E 01	-4.34934E 00	4.04138E-03	-4.27643E 00	4.19663E 01	-1.94802E 02	02
39.60	1.15067E 00	-4.10260E 01	-4.36922E 00	4.04113E-03	-4.29607E 00	4.20676E 01	-1.94919E 02	02
39.70	1.15067E 00	-4.11274E 01	-4.38913E 00	4.04088E-03	-4.31576E 00	4.21689E 01	-1.95037E 02	02
39.80	1.15066E 00	-4.12288E 01	-4.40909E 00	4.04061E-03	-4.33550E 00	4.22702E 01	-1.95154E 02	02
39.90	1.15066E 00	-4.13302E 01	-4.42910E 00	4.04034E-03	-4.35527E 00	4.23714E 01	-1.95271E 02	02
40.00	1.15065E 00	-4.14315E 01	-4.44915E 00	4.04005E-03	-4.37509E 00	4.24727E 01	-1.95388E 02	02
40.10	1.15065E 00	-4.15328E 01	-4.46924E 00	4.03974E-03	-4.39495E 00	4.25739E 01	-1.95506E 02	02
40.20	1.15064E 00	-4.16341E 01	-4.48937E 00	4.03943E-03	-4.41486E 00	4.26751E 01	-1.95623E 02	02
40.30	1.15063E 00	-4.17354E 01	-4.50955E 00	4.03911E-03	-4.43481E 00	4.27762E 01	-1.95740E 02	02
40.40	1.15063E 00	-4.18366E 01	-4.52977E 00	4.03878E-03	-4.45480E 00	4.28774E 01	-1.95858E 02	02
40.50	1.15062E 00	-4.19378E 01	-4.55003E 00	4.03844E-03	-4.47483E 00	4.29785E 01	-1.95975E 02	02
40.60	1.15062E 00	-4.20390E 01	-4.57034E 00	4.03808E-03	-4.49491E 00	4.30796E 01	-1.96093E 02	02
40.70	1.15061E 00	-4.21402E 01	-4.59069E 00	4.03772E-03	-4.51503E 00	4.31806E 01	-1.96210E 02	02
40.80	1.15061E 00	-4.22414E 01	-4.61108E 00	4.03734E-03	-4.53520E 00	4.32817E 01	-1.96328E 02	02
40.90	1.15060E 00	-4.23425E 01	-4.63151E 00	4.03696E-03	-4.55540E 00	4.33827E 01	-1.96445E 02	02
41.00	1.15059E 00	-4.24436E 01	-4.65199E 00	4.03657E-03	-4.57566E 00	4.34837E 01	-1.96563E 02	02
41.10	1.15059E 00	-4.25446E 01	-4.67251E 00	4.03616E-03	-4.59595E 00	4.35847E 01	-1.96681E 02	02
41.20	1.15058E 00	-4.26457E 01	-4.69308E 00	4.03575E-03	-4.61629E 00	4.36856E 01	-1.96799E 02	02
41.30	1.15058E 00	-4.27467E 01	-4.71369E 00	4.03531E-03	-4.63667E 00	4.37865E 01	-1.96917E 02	02
41.40	1.15057E 00	-4.28477E 01	-4.73434E 00	4.03487E-03	-4.65709E 00	4.38874E 01	-1.97035E 02	02
41.50	1.15057E 00	-4.29487E 01	-4.75503E 00	4.03443E-03	-4.67755E 00	4.39883E 01	-1.97152E 02	02
41.60	1.15056E 00	-4.30497E 01	-4.77577E 00	4.03397E-03	-4.69806E 00	4.40891E 01	-1.97271E 02	02
41.70	1.15056E 00	-4.31506E 01	-4.79655E 00	4.03351E-03	-4.71862E 00	4.41900E 01	-1.97389E 02	02
41.80	1.15055E 00	-4.32515E 01	-4.81737E 00	4.03303E-03	-4.73921E 00	4.42908E 01	-1.97507E 02	02
41.90	1.15054E 00	-4.33524E 01	-4.83824E 00	4.03254E-03	-4.75985E 00	4.43915E 01	-1.97625E 02	02
42.00	1.15054E 00	-4.34533E 01	-4.85915E 00	4.03204E-03	-4.78053E 00	4.44923E 01	-1.97743E 02	02

## ELECTRON RADIAL FUNCTIONS

 $Z=6$        $A=12$        $\rho=1.1 A^{1/3} F$       Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
36.10	1.77025E-03	-2.96466E 00	-1.73596E-01	3.44616E 01	-1.70495E-01	3.04779E 00	-2.84106E-02
36.20	1.78007E-03	-2.98109E 00	-1.74950E-01	3.44627E 01	-1.71829E-01	3.06445E 00	-2.84113E-02
36.30	1.78991E-03	-2.99756E 00	-1.76310E-01	3.44638E 01	-1.73170E-01	3.08115E 00	-2.84121E-02
36.40	1.79978E-03	-3.01408E 00	-1.77678E-01	3.44648E 01	-1.74518E-01	3.09789E 00	-2.84129E-02
36.50	1.80968E-03	-3.03064E 00	-1.79052E-01	3.44659E 01	-1.75873E-01	3.11468E 00	-2.84137E-02
36.60	1.81960E-03	-3.04725E 00	-1.80434E-01	3.44669E 01	-1.77235E-01	3.13151E 00	-2.84144E-02
36.70	1.82956E-03	-3.06390E 00	-1.81822E-01	3.44679E 01	-1.78603E-01	3.14839E 00	-2.84152E-02
36.80	1.83953E-03	-3.08060E 00	-1.83217E-01	3.44690E 01	-1.79979E-01	3.16531E 00	-2.84159E-02
36.90	1.84954E-03	-3.09734E 00	-1.84620E-01	3.44700E 01	-1.81361E-01	3.18228E 00	-2.84167E-02
37.00	1.85957E-03	-3.11412E 00	-1.86029E-01	3.44710E 01	-1.82751E-01	3.19929E 00	-2.84174E-02
37.10	1.86963E-03	-3.13095E 00	-1.87446E-01	3.44720E 01	-1.84148E-01	3.21634E 00	-2.84182E-02
37.20	1.87972E-03	-3.14782E 00	-1.88870E-01	3.44730E 01	-1.85551E-01	3.23344E 00	-2.84189E-02
37.30	1.88983E-03	-3.16474E 00	-1.90300E-01	3.44740E 01	-1.86962E-01	3.25058E 00	-2.84197E-02
37.40	1.89998E-03	-3.18170E 00	-1.91738E-01	3.44750E 01	-1.88380E-01	3.26777E 00	-2.84204E-02
37.50	1.91014E-03	-3.19871E 00	-1.93183E-01	3.44760E 01	-1.89805E-01	3.28500E 00	-2.84211E-02
37.60	1.92034E-03	-3.21576E 00	-1.94636E-01	3.44770E 01	-1.91237E-01	3.30228E 00	-2.84219E-02
37.70	1.93056E-03	-3.23285E 00	-1.96095E-01	3.44780E 01	-1.92676E-01	3.31960E 00	-2.84226E-02
37.80	1.94081E-03	-3.24999E 00	-1.97562E-01	3.44789E 01	-1.94122E-01	3.33696E 00	-2.84233E-02
37.90	1.95109E-03	-3.26717E 00	-1.99036E-01	3.44799E 01	-1.95575E-01	3.35437E 00	-2.84240E-02
38.00	1.96139E-03	-3.28440E 00	-2.00517E-01	3.44809E 01	-1.97036E-01	3.37182E 00	-2.84247E-02
38.10	1.97172E-03	-3.30167E 00	-2.02005E-01	3.44818E 01	-1.98504E-01	3.38932E 00	-2.84254E-02
38.20	1.98208E-03	-3.31898E 00	-2.03501E-01	3.44828E 01	-1.99979E-01	3.40686E 00	-2.84261E-02
38.30	1.99247E-03	-3.33634E 00	-2.05003E-01	3.44837E 01	-2.01461E-01	3.42444E 00	-2.84268E-02
38.40	2.00288E-03	-3.35375E 00	-2.06514E-01	3.44847E 01	-2.02950E-01	3.44207E 00	-2.84275E-02
38.50	2.01332E-03	-3.37120E 00	-2.08031E-01	3.44856E 01	-2.04447E-01	3.45975E 00	-2.84282E-02
38.60	2.02379E-03	-3.38869E 00	-2.09556E-01	3.44866E 01	-2.05951E-01	3.47746E 00	-2.84289E-02
38.70	2.03428E-03	-3.40622E 00	-2.11088E-01	3.44875E 01	-2.07462E-01	3.49523E 00	-2.84296E-02
38.80	2.04480E-03	-3.42380E 00	-2.12627E-01	3.44884E 01	-2.08981E-01	3.51303E 00	-2.84303E-02
38.90	2.05535E-03	-3.44143E 00	-2.14174E-01	3.44893E 01	-2.10506E-01	3.53088E 00	-2.84310E-02
39.00	2.06593E-03	-3.45910E 00	-2.15729E-01	3.44902E 01	-2.12040E-01	3.54878E 00	-2.84316E-02
39.10	2.07653E-03	-3.47681E 00	-2.17290E-01	3.44911E 01	-2.13580E-01	3.56671E 00	-2.84323E-02
39.20	2.08716E-03	-3.49457E 00	-2.18860E-01	3.44920E 01	-2.15128E-01	3.58470E 00	-2.84330E-02
39.30	2.09782E-03	-3.51237E 00	-2.20436E-01	3.44929E 01	-2.16684E-01	3.60272E 00	-2.84337E-02
39.40	2.10850E-03	-3.53021E 00	-2.22020E-01	3.44938E 01	-2.18246E-01	3.62079E 00	-2.84343E-02
39.50	2.11921E-03	-3.54810E 00	-2.23612E-01	3.44947E 01	-2.19816E-01	3.63891E 00	-2.84350E-02
39.60	2.12995E-03	-3.56603E 00	-2.25211E-01	3.44956E 01	-2.21394E-01	3.65706E 00	-2.84356E-02
39.70	2.14071E-03	-3.58401E 00	-2.26817E-01	3.44965E 01	-2.22979E-01	3.67527E 00	-2.84363E-02
39.80	2.15151E-03	-3.60203E 00	-2.28432E-01	3.44974E 01	-2.24572E-01	3.69351E 00	-2.84370E-02
39.90	2.16233E-03	-3.62009E 00	-2.30053E-01	3.44982E 01	-2.26172E-01	3.71180E 00	-2.84376E-02
40.00	2.17317E-03	-3.63820E 00	-2.31682E-01	3.44991E 01	-2.27779E-01	3.73014E 00	-2.84382E-02
40.10	2.18405E-03	-3.65636E 00	-2.33319E-01	3.45000E 01	-2.29394E-01	3.74851E 00	-2.84389E-02
40.20	2.19495E-03	-3.67455E 00	-2.34964E-01	3.45008E 01	-2.31017E-01	3.76694E 00	-2.84395E-02
40.30	2.20587E-03	-3.69280E 00	-2.36616E-01	3.45017E 01	-2.32647E-01	3.78540E 00	-2.84402E-02
40.40	2.21683E-03	-3.71108E 00	-2.38276E-01	3.45025E 01	-2.34285E-01	3.80391E 00	-2.84408E-02
40.50	2.22781E-03	-3.72941E 00	-2.39943E-01	3.45034E 01	-2.35930E-01	3.82246E 00	-2.84414E-02
40.60	2.23882E-03	-3.74778E 00	-2.41618E-01	3.45042E 01	-2.37583E-01	3.84106E 00	-2.84421E-02
40.70	2.24986E-03	-3.76620E 00	-2.43301E-01	3.45050E 01	-2.39244E-01	3.85970E 00	-2.84427E-02
40.80	2.26092E-03	-3.78466E 00	-2.44991E-01	3.45059E 01	-2.40912E-01	3.87839E 00	-2.84433E-02
40.90	2.27201E-03	-3.80316E 00	-2.46689E-01	3.45067E 01	-2.42588E-01	3.89712E 00	-2.84439E-02
41.00	2.28313E-03	-3.82171E 00	-2.48395E-01	3.45075E 01	-2.44272E-01	3.91589E 00	-2.84445E-02
41.10	2.29428E-03	-3.84030E 00	-2.50109E-01	3.45083E 01	-2.45963E-01	3.93471E 00	-2.84451E-02
41.20	2.30545E-03	-3.85894E 00	-2.51830E-01	3.45091E 01	-2.47662E-01	3.95357E 00	-2.84458E-02
41.30	2.31665E-03	-3.87762E 00	-2.53559E-01	3.45100E 01	-2.49369E-01	3.97247E 00	-2.84464E-02
41.40	2.32787E-03	-3.89634E 00	-2.55296E-01	3.45108E 01	-2.51084E-01	3.99142E 00	-2.84470E-02
41.50	2.33913E-03	-3.91511E 00	-2.57041E-01	3.45116E 01	-2.52806E-01	4.01041E 00	-2.84476E-02
41.60	2.35041E-03	-3.93392E 00	-2.58794E-01	3.45124E 01	-2.54536E-01	4.02945E 00	-2.84482E-02
41.70	2.36171E-03	-3.95278E 00	-2.60554E-01	3.45131E 01	-2.56274E-01	4.04853E 00	-2.84488E-02
41.80	2.37305E-03	-3.97168E 00	-2.62323E-01	3.45139E 01	-2.58019E-01	4.06765E 00	-2.84494E-02
41.90	2.38441E-03	-3.99062E 00	-2.64099E-01	3.45147E 01	-2.59773E-01	4.08682E 00	-2.84500E-02
42.00	2.39580E-03	-4.00961E 00	-2.65883E-01	3.45155E 01	-2.61534E-01	4.10603E 00	-2.84506E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.1 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
0.10	3.43664E 00	-1.46310E-02	-3.66201E-04	-2.25885E-01	-5.34848E-03	2.61528E-01	-3.91461E 00	
0.20	2.07630E 00	-4.14144E-02	-1.03797E-03	-1.06907E-01	-8.29807E-03	4.05085E-01	-6.91789E 00	
0.30	1.69484E 00	-8.13111E-02	-2.04242E-03	-6.96957E-02	-1.12112E-02	5.45815E-01	-1.00608E 01	
0.40	1.52352E 00	-1.33043E-01	-3.35190E-03	-5.12808E-02	-1.41177E-02	6.84796E-01	-1.31709E 01	
0.50	1.42868E 00	-1.95097E-01	-4.93362E-03	-4.02320E-02	-1.70145E-02	8.21568E-01	-1.62135E 01	
0.60	1.36967E 00	-2.65904E-01	-6.75354E-03	-3.28394E-02	-1.99007E-02	9.55840E-01	-1.91754E 01	
0.70	1.33009E 00	-3.43975E-01	-8.77933E-03	-2.75314E-02	-2.27781E-02	1.08753E 00	-2.20505E 01	
0.80	1.30212E 00	-4.27973E-01	-1.09820E-02	-2.35269E-02	-2.56507E-02	1.21670E 00	-2.48362E 01	
0.90	1.28158E 00	-5.16757E-01	-1.33369E-02	-2.03932E-02	-2.85237E-02	1.34352E 00	-2.75320E 01	
1.00	1.26602E 00	-6.09375E-01	-1.58234E-02	-1.78709E-02	-3.14025E-02	1.46821E 00	-3.01390E 01	
1.10	1.25396E 00	-7.05055E-01	-1.84248E-02	-1.57951E-02	-3.42926E-02	1.59100E 00	-3.26590E 01	
1.20	1.24441E 00	-8.03178E-01	-2.11279E-02	-1.40555E-02	-3.71989E-02	1.71211E 00	-3.50944E 01	
1.30	1.23672E 00	-9.03251E-01	-2.39219E-02	-1.25758E-02	-4.01259E-02	1.83175E 00	-3.74480E 01	
1.40	1.23043E 00	-1.00488E 00	-2.67985E-02	-1.13011E-02	-4.30771E-02	1.95011E 00	-3.97229E 01	
1.50	1.22523E 00	-1.10777E 00	-2.97512E-02	-1.01914E-02	-4.60576E-02	2.06737E 00	-4.19221E 01	
1.60	1.22087E 00	-1.21166E 00	-3.27747E-02	-9.21619E-03	-4.90687E-02	2.18366E 00	-4.40488E 01	
1.70	1.21718E 00	-1.31637E 00	-3.58648E-02	-8.35231E-03	-5.21134E-02	2.29911E 00	-4.61059E 01	
1.80	1.21403E 00	-1.42173E 00	-3.90184E-02	-7.58160E-03	-5.51940E-02	2.41383E 00	-4.80966E 01	
1.90	1.21131E 00	-1.52764E 00	-4.22328E-02	-6.88965E-03	-5.83121E-02	2.52792E 00	-5.00236E 01	
2.00	1.20896E 00	-1.63398E 00	-4.55060E-02	-6.26493E-03	-6.14694E-02	2.64145E 00	-5.18898E 01	
2.10	1.20690E 00	-1.74069E 00	-4.88362E-02	-5.69804E-03	-6.46672E-02	2.75449E 00	-5.36979E 01	
2.20	1.20509E 00	-1.84770E 00	-5.22222E-02	-5.18127E-03	-6.79067E-02	2.86710E 00	-5.54503E 01	
2.30	1.20349E 00	-1.95495E 00	-5.56629E-02	-4.70825E-03	-7.11886E-02	2.97934E 00	-5.71495E 01	
2.40	1.20207E 00	-2.06240E 00	-5.91573E-02	-4.27362E-03	-7.45140E-02	3.09123E 00	-5.87978E 01	
2.50	1.20079E 00	-2.17002E 00	-6.27047E-02	-3.87287E-03	-7.78834E-02	3.20283E 00	-6.03974E 01	
2.60	1.19965E 00	-2.27779E 00	-6.63046E-02	-3.50219E-03	-8.12975E-02	3.31415E 00	-6.19503E 01	
2.70	1.19862E 00	-2.38567E 00	-6.99564E-02	-3.15831E-03	-8.47569E-02	3.42524E 00	-6.34586E 01	
2.80	1.19769E 00	-2.49364E 00	-7.36598E-02	-2.83841E-03	-8.82619E-02	3.53611E 00	-6.49240E 01	
2.90	1.19684E 00	-2.60170E 00	-7.74144E-02	-2.54007E-03	-9.18129E-02	3.64679E 00	-6.63484E 01	
3.00	1.19606E 00	-2.70983E 00	-8.12198E-02	-2.26118E-03	-9.54103E-02	3.75729E 00	-6.77335E 01	
3.10	1.19535E 00	-2.81801E 00	-8.50760E-02	-1.99989E-03	-9.90544E-02	3.86763E 00	-6.90808E 01	
3.20	1.19470E 00	-2.92624E 00	-8.89826E-02	-1.75460E-03	-1.02746E-01	3.97782E 00	-7.03918E 01	
3.30	1.19410E 00	-3.03450E 00	-9.29396E-02	-1.52386E-03	-1.06484E-01	4.08788E 00	-7.16681E 01	
3.40	1.19355E 00	-3.14279E 00	-9.69466E-02	-1.30644E-03	-1.10269E-01	4.19782E 00	-7.29109E 01	
3.50	1.19303E 00	-3.25112E 00	-1.01004E-01	-1.10119E-03	-1.14103E-01	4.30765E 00	-7.41215E 01	
3.60	1.19256E 00	-3.35945E 00	-1.05111E-01	-9.07141E-04	-1.17984E-01	4.41738E 00	-7.53012E 01	
3.70	1.19211E 00	-3.46781E 00	-1.09268E-01	-7.23390E-04	-1.21912E-01	4.52700E 00	-7.64512E 01	
3.80	1.19170E 00	-3.57618E 00	-1.13474E-01	-5.49145E-04	-1.25889E-01	4.63654E 00	-7.75726E 01	
3.90	1.19131E 00	-3.68455E 00	-1.17731E-01	-3.83675E-04	-1.29914E-01	4.74600E 00	-7.86663E 01	
4.00	1.19095E 00	-3.79293E 00	-1.22037E-01	-2.26351E-04	-1.33987E-01	4.85538E 00	-7.97336E 01	
4.10	1.19061E 00	-3.90132E 00	-1.26392E-01	-7.65677E-05	-1.38108E-01	4.96469E 00	-8.07751E 01	
4.20	1.19029E 00	-4.00970E 00	-1.30797E-01	6.61860E-05	-1.42278E-01	5.07394E 00	-8.17920E 01	
4.30	1.18999E 00	-4.11808E 00	-1.35252E-01	2.02396E-04	-1.46496E-01	5.18311E 00	-8.27851E 01	
4.40	1.18970E 00	-4.22647E 00	-1.39756E-01	3.32505E-04	-1.50762E-01	5.29224E 00	-8.37553E 01	
4.50	1.18943E 00	-4.33485E 00	-1.44309E-01	4.56915E-04	-1.55077E-01	5.40130E 00	-8.47032E 01	
4.60	1.18918E 00	-4.44322E 00	-1.48912E-01	5.75984E-04	-1.59441E-01	5.51031E 00	-8.56297E 01	
4.70	1.18893E 00	-4.55159E 00	-1.53564E-01	6.90057E-04	-1.63853E-01	5.61928E 00	-8.65355E 01	
4.80	1.18870E 00	-4.65995E 00	-1.58266E-01	7.99426E-04	-1.68314E-01	5.72819E 00	-8.74214E 01	
4.90	1.18848E 00	-4.76830E 00	-1.63017E-01	9.04393E-04	-1.72824E-01	5.83706E 00	-8.82879E 01	
5.00	1.18828E 00	-4.87665E 00	-1.67817E-01	1.00520E-03	-1.77382E-01	5.94589E 00	-8.91357E 01	
5.10	1.18808E 00	-4.98499E 00	-1.72666E-01	1.10210E-03	-1.81989E-01	6.05467E 00	-8.99654E 01	
5.20	1.18789E 00	-5.09331E 00	-1.77565E-01	1.19532E-03	-1.86645E-01	6.16342E 00	-9.07776E 01	
5.30	1.18771E 00	-5.20163E 00	-1.82513E-01	1.28504E-03	-1.91350E-01	6.27213E 00	-9.15729E 01	
5.40	1.18753E 00	-5.30994E 00	-1.87510E-01	1.37148E-03	-1.96103E-01	6.38080E 00	-9.23517E 01	
5.50	1.18737E 00	-5.41824E 00	-1.92557E-01	1.45481E-03	-2.00906E-01	6.48945E 00	-9.31146E 01	
5.60	1.18721E 00	-5.52652E 00	-1.97653E-01	1.53517E-03	-2.05757E-01	6.59805E 00	-9.38622E 01	
5.70	1.18705E 00	-5.63479E 00	-2.02798E-01	1.61275E-03	-2.10657E-01	6.70662E 00	-9.45948E 01	
5.80	1.18691E 00	-5.74306E 00	-2.07992E-01	1.68766E-03	-2.15606E-01	6.81517E 00	-9.53129E 01	
5.90	1.18676E 00	-5.85131E 00	-2.13235E-01	1.76005E-03	-2.20604E-01	6.92368E 00	-9.60170E 01	
6.00	1.18663E 00	-5.95955E 00	-2.18527E-01	1.83006E-03	-2.25651E-01	7.03217E 00	-9.67074E 01	

## ELECTRON RADIAL FUNCTIONS

 $Z=7$  $A=14$  $\rho=1.1 A^{1/3} F$ 

Electron

$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	5.62351E-08	-3.43522E-06	-4.95723E-08	1.94277E 00	-7.82438E-07	6.69659E-05	-2.29191E-01
0.20	1.14908E-07	-1.90295E-05	-2.74994E-07	4.11403E 00	-2.23268E-06	1.90754E-04	-1.11893E-01
0.30	2.03969E-07	-5.58189E-05	-8.08494E-07	6.14817E 00	-4.44884E-06	3.79020E-04	-7.64553E-02
0.40	3.22059E-07	-1.21617E-04	-1.76104E-06	8.05829E 00	-7.42615E-06	6.30239E-04	-5.97701E-02
0.50	4.69304E-07	-2.22806E-04	-3.24983E-06	9.83124E 00	-1.11592E-05	9.42550E-04	-5.07372E-02
0.60	6.45991E-07	-3.64315E-04	-5.33796E-06	1.14583E 01	-1.56438E-05	1.31399E-03	-4.45394E-02
0.70	8.52397E-07	-5.49763E-04	-8.09629E-06	1.29379E 01	-2.08783E-05	1.74271E-03	-4.06906E-02
0.80	1.08876E-06	-7.81696E-04	-1.15763E-05	1.42744E 01	-2.68643E-05	2.22705E-03	-3.80444E-02
0.90	1.35527E-06	-1.06183E-03	-1.58194E-05	1.54762E 01	-3.36071E-05	2.76564E-03	-3.61704E-02
1.00	1.65209E-06	-1.39129E-03	-2.08593E-05	1.65540E 01	-4.11150E-05	3.35736E-03	-3.48137E-02
1.10	1.97933E-06	-1.77077E-03	-2.67248E-05	1.75196E 01	-4.93990E-05	4.00132E-03	-3.38151E-02
1.20	2.33709E-06	-2.20067E-03	-3.34410E-05	1.83847E 01	-5.84724E-05	4.69684E-03	-3.30706E-02
1.30	2.72544E-06	-2.68120E-03	-4.10307E-05	1.91605E 01	-6.83504E-05	5.44341E-03	-3.25105E-02
1.40	3.14444E-06	-3.21248E-03	-4.95155E-05	1.98573E 01	-7.90495E-05	6.24062E-03	-3.20863E-02
1.50	3.59412E-06	-3.79452E-03	-5.89157E-05	2.04844E 01	-9.05869E-05	7.08819E-03	-3.17639E-02
1.60	4.07453E-06	-4.42728E-03	-6.92513E-05	2.10502E 01	-1.02981E-04	7.98588E-03	-3.15186E-02
1.70	4.58569E-06	-5.11071E-03	-8.05420E-05	2.15618E 01	-1.16251E-04	8.93354E-03	-3.13324E-02
1.80	5.12763E-06	-5.84476E-03	-9.28072E-05	2.20258E 01	-1.30416E-04	9.93103E-03	-3.11919E-02
1.90	5.70035E-06	-6.62934E-03	-1.06066E-04	2.24476E 01	-1.45495E-04	1.09783E-02	-3.10869E-02
2.00	6.30388E-06	-7.46438E-03	-1.20339E-04	2.28322E 01	-1.61508E-04	1.20752E-02	-3.10099E-02
2.10	6.93822E-06	-8.34981E-03	-1.35645E-04	2.31838E 01	-1.78476E-04	1.32217E-02	-3.09549E-02
2.20	7.60338E-06	-9.28556E-03	-1.52003E-04	2.35061E 01	-1.96418E-04	1.44179E-02	-3.09174E-02
2.30	8.29937E-06	-1.02716E-02	-1.69433E-04	2.38022E 01	-2.15354E-04	1.56636E-02	-3.08937E-02
2.40	9.02618E-06	-1.13078E-02	-1.87955E-04	2.40750E 01	-2.35306E-04	1.69588E-02	-3.08811E-02
2.50	9.78384E-06	-1.23941E-02	-2.07589E-04	2.43269E 01	-2.56293E-04	1.83036E-02	-3.08774E-02
2.60	1.05723E-05	-1.35306E-02	-2.28354E-04	2.45600E 01	-2.78335E-04	1.96978E-02	-3.08807E-02
2.70	1.13917E-05	-1.47171E-02	-2.50270E-04	2.47763E 01	-3.01453E-04	2.11416E-02	-3.08897E-02
2.80	1.22419E-05	-1.59536E-02	-2.73357E-04	2.49773E 01	-3.25668E-04	2.26349E-02	-3.09032E-02
2.90	1.31229E-05	-1.72401E-02	-2.97636E-04	2.51646E 01	-3.51000E-04	2.41777E-02	-3.09203E-02
3.00	1.40348E-05	-1.85765E-02	-3.23125E-04	2.53393E 01	-3.77468E-04	2.57700E-02	-3.09402E-02
3.10	1.49775E-05	-1.99629E-02	-3.49846E-04	2.55027E 01	-4.05095E-04	2.74117E-02	-3.09624E-02
3.20	1.59511E-05	-2.13991E-02	-3.77818E-04	2.56558E 01	-4.33899E-04	2.91030E-02	-3.09863E-02
3.30	1.69555E-05	-2.28852E-02	-4.07061E-04	2.57994E 01	-4.63903E-04	3.08437E-02	-3.10115E-02
3.40	1.79908E-05	-2.44211E-02	-4.37595E-04	2.59344E 01	-4.95125E-04	3.26340E-02	-3.10377E-02
3.50	1.90569E-05	-2.60068E-02	-4.69441E-04	2.60615E 01	-5.27586E-04	3.44737E-02	-3.10646E-02
3.60	2.01539E-05	-2.76423E-02	-5.02619E-04	2.61813E 01	-5.61308E-04	3.63629E-02	-3.10920E-02
3.70	2.12817E-05	-2.93275E-02	-5.37148E-04	2.62944E 01	-5.96309E-04	3.83016E-02	-3.11197E-02
3.80	2.24404E-05	-3.10625E-02	-5.73050E-04	2.64013E 01	-6.32611E-04	4.02898E-02	-3.11476E-02
3.90	2.36299E-05	-3.28473E-02	-6.10344E-04	2.65026E 01	-6.70234E-04	4.23274E-02	-3.11755E-02
4.00	2.48502E-05	-3.46818E-02	-6.49050E-04	2.65985E 01	-7.09199E-04	4.44146E-02	-3.12033E-02
4.10	2.61014E-05	-3.65659E-02	-6.89189E-04	2.66896E 01	-7.49526E-04	4.65512E-02	-3.12309E-02
4.20	2.73835E-05	-3.84998E-02	-7.30782E-04	2.67761E 01	-7.91235E-04	4.87373E-02	-3.12583E-02
4.30	2.86964E-05	-4.04833E-02	-7.73847E-04	2.68585E 01	-8.34347E-04	5.09730E-02	-3.12855E-02
4.40	3.00402E-05	-4.25166E-02	-8.18406E-04	2.69368E 01	-8.78882E-04	5.32580E-02	-3.13123E-02
4.50	3.14148E-05	-4.45994E-02	-8.64479E-04	2.70116E 01	-9.24860E-04	5.55926E-02	-3.13388E-02
4.60	3.28202E-05	-4.67319E-02	-9.12085E-04	2.70829E 01	-9.72302E-04	5.79766E-02	-3.13648E-02
4.70	3.42565E-05	-4.89140E-02	-9.61246E-04	2.71510E 01	-1.02123E-03	6.04101E-02	-3.13905E-02
4.80	3.57236E-05	-5.11458E-02	-1.01198E-03	2.72161E 01	-1.07166E-03	6.28931E-02	-3.14157E-02
4.90	3.72215E-05	-5.34272E-02	-1.06431E-03	2.72784E 01	-1.12362E-03	6.54255E-02	-3.14405E-02
5.00	3.87504E-05	-5.57581E-02	-1.11826E-03	2.73381E 01	-1.17712E-03	6.80074E-02	-3.14649E-02
5.10	4.03100E-05	-5.81387E-02	-1.17384E-03	2.73952E 01	-1.23218E-03	7.06388E-02	-3.14888E-02
5.20	4.19005E-05	-6.05689E-02	-1.23108E-03	2.74501E 01	-1.28884E-03	7.33197E-02	-3.15123E-02
5.30	4.35218E-05	-6.30486E-02	-1.28999E-03	2.75028E 01	-1.34710E-03	7.60499E-02	-3.15353E-02
5.40	4.51740E-05	-6.55779E-02	-1.35060E-03	2.75534E 01	-1.40699E-03	7.88297E-02	-3.15579E-02
5.50	4.68571E-05	-6.81568E-02	-1.41292E-03	2.76020E 01	-1.46852E-03	8.16589E-02	-3.15800E-02
5.60	4.85709E-05	-7.07852E-02	-1.47698E-03	2.76488E 01	-1.53172E-03	8.45375E-02	-3.16017E-02
5.70	5.03156E-05	-7.34632E-02	-1.54280E-03	2.76939E 01	-1.59661E-03	8.74656E-02	-3.16230E-02
5.80	5.20911E-05	-7.61907E-02	-1.61040E-03	2.77373E 01	-1.66321E-03	9.04432E-02	-3.16438E-02
5.90	5.38974E-05	-7.89677E-02	-1.67980E-03	2.77792E 01	-1.73153E-03	9.34702E-02	-3.16642E-02
6.00	5.57346E-05	-8.17943E-02	-1.75101E-03	2.78195E 01	-1.80161E-03	9.65466E-02	-3.16842E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.1 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	1.18650E 00	-6.06777E 00	-2.23869E-01	1.89777E-03	-2.30747E-01	7.14063E 00	-9.73846E 01	
6.20	1.18637E 00	-6.17599E 00	-2.29260E-01	1.96331E-03	-2.35892E-01	7.24906E 00	-9.80489E 01	
6.30	1.18625E 00	-6.28419E 00	-2.34700E-01	2.02678E-03	-2.41086E-01	7.35745E 00	-9.87008E 01	
6.40	1.18613E 00	-6.39238E 00	-2.40189E-01	2.08827E-03	-2.46329E-01	7.46583E 00	-9.93406E 01	
6.50	1.18601E 00	-6.50055E 00	-2.45727E-01	2.14788E-03	-2.51620E-01	7.57418E 00	-9.99686E 01	
6.60	1.18590E 00	-6.60871E 00	-2.51315E-01	2.20570E-03	-2.56961E-01	7.68251E 00	-1.00585E 02	
6.70	1.18580E 00	-6.71686E 00	-2.56951E-01	2.26178E-03	-2.62351E-01	7.79082E 00	-1.01191E 02	
6.80	1.18569E 00	-6.82500E 00	-2.62637E-01	2.31622E-03	-2.67789E-01	7.89910E 00	-1.01785E 02	
6.90	1.18559E 00	-6.93313E 00	-2.68372E-01	2.36907E-03	-2.73277E-01	8.00736E 00	-1.02370E 02	
7.00	1.18550E 00	-7.04124E 00	-2.74156E-01	2.42043E-03	-2.78814E-01	8.11559E 00	-1.02943E 02	
7.10	1.18540E 00	-7.14933E 00	-2.79989E-01	2.47033E-03	-2.84399E-01	8.22380E 00	-1.03507E 02	
7.20	1.18531E 00	-7.25741E 00	-2.85871E-01	2.51885E-03	-2.90034E-01	8.33199E 00	-1.04062E 02	
7.30	1.18522E 00	-7.36548E 00	-2.91802E-01	2.56605E-03	-2.95717E-01	8.44016E 00	-1.04607E 02	
7.40	1.18513E 00	-7.47354E 00	-2.97782E-01	2.61194E-03	-3.01450E-01	8.54831E 00	-1.05142E 02	
7.50	1.18505E 00	-7.58158E 00	-3.03811E-01	2.65663E-03	-3.07231E-01	8.65644E 00	-1.05669E 02	
7.60	1.18496E 00	-7.68961E 00	-3.09890E-01	2.70014E-03	-3.13061E-01	8.76454E 00	-1.06187E 02	
7.70	1.18488E 00	-7.79763E 00	-3.16017E-01	2.74250E-03	-3.18941E-01	8.87263E 00	-1.06697E 02	
7.80	1.18481E 00	-7.90563E 00	-3.22193E-01	2.78377E-03	-3.24869E-01	8.98070E 00	-1.07198E 02	
7.90	1.18473E 00	-8.01362E 00	-3.28419E-01	2.82400E-03	-3.30847E-01	9.08875E 00	-1.07691E 02	
8.00	1.18466E 00	-8.12159E 00	-3.34693E-01	2.86321E-03	-3.36873E-01	9.19678E 00	-1.08177E 02	
8.10	1.18458E 00	-8.22955E 00	-3.41017E-01	2.90145E-03	-3.42948E-01	9.30479E 00	-1.08655E 02	
8.20	1.18451E 00	-8.33750E 00	-3.47390E-01	2.93875E-03	-3.49073E-01	9.41279E 00	-1.09125E 02	
8.30	1.18444E 00	-8.44543E 00	-3.53811E-01	2.97514E-03	-3.55246E-01	9.52076E 00	-1.09588E 02	
8.40	1.18437E 00	-8.55335E 00	-3.60282E-01	3.01066E-03	-3.61468E-01	9.62872E 00	-1.10044E 02	
8.50	1.18431E 00	-8.66125E 00	-3.66801E-01	3.04533E-03	-3.67739E-01	9.73665E 00	-1.10493E 02	
8.60	1.18424E 00	-8.76914E 00	-3.73370E-01	3.07919E-03	-3.74059E-01	9.84457E 00	-1.10935E 02	
8.70	1.18418E 00	-8.87702E 00	-3.79987E-01	3.11226E-03	-3.80428E-01	9.95247E 00	-1.11371E 02	
8.80	1.18412E 00	-8.98488E 00	-3.86654E-01	3.14456E-03	-3.86846E-01	1.00604E 01	-1.11800E 02	
8.90	1.18406E 00	-9.09273E 00	-3.93369E-01	3.17614E-03	-3.93313E-01	1.01682E 01	-1.12223E 02	
9.00	1.18400E 00	-9.20057E 00	-4.00134E-01	3.20700E-03	-3.99829E-01	1.02761E 01	-1.12639E 02	
9.10	1.18394E 00	-9.30839E 00	-4.06947E-01	3.23717E-03	-4.06394E-01	1.03839E 01	-1.13050E 02	
9.20	1.18388E 00	-9.41619E 00	-4.13810E-01	3.26668E-03	-4.13007E-01	1.04917E 01	-1.13455E 02	
9.30	1.18383E 00	-9.52399E 00	-4.20721E-01	3.29554E-03	-4.19670E-01	1.05995E 01	-1.13854E 02	
9.40	1.18377E 00	-9.63176E 00	-4.27681E-01	3.32378E-03	-4.26381E-01	1.07073E 01	-1.14248E 02	
9.50	1.18372E 00	-9.73953E 00	-4.34690E-01	3.35140E-03	-4.33142E-01	1.08151E 01	-1.14636E 02	
9.60	1.18367E 00	-9.84728E 00	-4.41748E-01	3.37845E-03	-4.39951E-01	1.09228E 01	-1.15018E 02	
9.70	1.18361E 00	-9.95502E 00	-4.48855E-01	3.40493E-03	-4.46809E-01	1.10305E 01	-1.15396E 02	
9.80	1.18356E 00	-1.00627E 01	-4.56011E-01	3.43085E-03	-4.53716E-01	1.11382E 01	-1.15768E 02	
9.90	1.18351E 00	-1.01704E 01	-4.63216E-01	3.45624E-03	-4.60672E-01	1.12459E 01	-1.16135E 02	
10.00	1.18346E 00	-1.02781E 01	-4.70470E-01	3.48110E-03	-4.67677E-01	1.13536E 01	-1.16498E 02	
10.10	1.18341E 00	-1.03858E 01	-4.77772E-01	3.50546E-03	-4.74731E-01	1.14613E 01	-1.16856E 02	
10.20	1.18337E 00	-1.04935E 01	-4.85124E-01	3.52933E-03	-4.81834E-01	1.15689E 01	-1.17209E 02	
10.30	1.18332E 00	-1.06011E 01	-4.92524E-01	3.55272E-03	-4.88985E-01	1.16766E 01	-1.17557E 02	
10.40	1.18327E 00	-1.07088E 01	-4.99973E-01	3.57566E-03	-4.96185E-01	1.17842E 01	-1.17901E 02	
10.50	1.18323E 00	-1.08164E 01	-5.07471E-01	3.59814E-03	-5.03434E-01	1.18918E 01	-1.18240E 02	
10.60	1.18318E 00	-1.09240E 01	-5.15018E-01	3.62019E-03	-5.10733E-01	1.19993E 01	-1.18575E 02	
10.70	1.18314E 00	-1.10316E 01	-5.22614E-01	3.64180E-03	-5.18079E-01	1.21069E 01	-1.18906E 02	
10.80	1.18310E 00	-1.11392E 01	-5.30258E-01	3.66301E-03	-5.25475E-01	1.22145E 01	-1.19233E 02	
10.90	1.18305E 00	-1.12467E 01	-5.37952E-01	3.68381E-03	-5.32920E-01	1.23220E 01	-1.19556E 02	
11.00	1.18301E 00	-1.13543E 01	-5.45694E-01	3.70422E-03	-5.40413E-01	1.24295E 01	-1.19875E 02	
11.10	1.18297E 00	-1.14618E 01	-5.53485E-01	3.72425E-03	-5.47955E-01	1.25370E 01	-1.20190E 02	
11.20	1.18293E 00	-1.15693E 01	-5.61325E-01	3.74392E-03	-5.55546E-01	1.26445E 01	-1.20501E 02	
11.30	1.18289E 00	-1.16768E 01	-5.69213E-01	3.76321E-03	-5.63186E-01	1.27520E 01	-1.20809E 02	
11.40	1.18285E 00	-1.17843E 01	-5.77151E-01	3.78215E-03	-5.70874E-01	1.28594E 01	-1.21113E 02	
11.50	1.18281E 00	-1.18918E 01	-5.85137E-01	3.80075E-03	-5.78611E-01	1.29669E 01	-1.21413E 02	
11.60	1.18277E 00	-1.19993E 01	-5.93172E-01	3.81903E-03	-5.86397E-01	1.30743E 01	-1.21709E 02	
11.70	1.18274E 00	-1.21067E 01	-6.01256E-01	3.83696E-03	-5.94232E-01	1.31817E 01	-1.22003E 02	
11.80	1.18270E 00	-1.22141E 01	-6.09388E-01	3.85458E-03	-6.02116E-01	1.32891E 01	-1.22293E 02	
11.90	1.18266E 00	-1.23215E 01	-6.17569E-01	3.87189E-03	-6.10048E-01	1.33964E 01	-1.22580E 02	
12.00	1.18263E 00	-1.24290E 01	-6.25799E-01	3.88891E-03	-6.18029E-01	1.35038E 01	-1.22863E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$        $A = 14$        $\rho = 1.1 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	5.76027E-05	-8.46705E-02	-1.82406E-03	2.78585E 01	-1.87345E-03	9.96725E-02	-3.17038E-02
6.20	5.95016E-05	-8.75961E-02	-1.89897E-03	2.78961E 01	-1.94709E-03	1.02848E-01	-3.17230E-02
6.30	6.14312E-05	-9.05712E-02	-1.97576E-03	2.79325E 01	-2.02253E-03	1.06072E-01	-3.17418E-02
6.40	6.33917E-05	-9.35958E-02	-2.05445E-03	2.79676E 01	-2.09981E-03	1.09347E-01	-3.17603E-02
6.50	6.53831E-05	-9.66699E-02	-2.13505E-03	2.80016E 01	-2.17893E-03	1.12670E-01	-3.17783E-02
6.60	6.74053E-05	-9.97935E-02	-2.21760E-03	2.80345E 01	-2.25993E-03	1.16043E-01	-3.17960E-02
6.70	6.94583E-05	-1.02967E-01	-2.30211E-03	2.80664E 01	-2.34281E-03	1.19466E-01	-3.18134E-02
6.80	7.15422E-05	-1.06189E-01	-2.38860E-03	2.80972E 01	-2.42761E-03	1.22937E-01	-3.18303E-02
6.90	7.36569E-05	-1.09461E-01	-2.47708E-03	2.81271E 01	-2.51434E-03	1.26459E-01	-3.18470E-02
7.00	7.58024E-05	-1.12783E-01	-2.56759E-03	2.81561E 01	-2.60303E-03	1.30029E-01	-3.18633E-02
7.10	7.79788E-05	-1.16154E-01	-2.66014E-03	2.81843E 01	-2.69368E-03	1.33649E-01	-3.18793E-02
7.20	8.01859E-05	-1.19574E-01	-2.75475E-03	2.82116E 01	-2.78633E-03	1.37318E-01	-3.18950E-02
7.30	8.24239E-05	-1.23044E-01	-2.85145E-03	2.82381E 01	-2.88099E-03	1.41037E-01	-3.19104E-02
7.40	8.46928E-05	-1.26563E-01	-2.95024E-03	2.82638E 01	-2.97768E-03	1.44805E-01	-3.19255E-02
7.50	8.69925E-05	-1.30132E-01	-3.05116E-03	2.82888E 01	-3.07643E-03	1.48623E-01	-3.19402E-02
7.60	8.93229E-05	-1.33750E-01	-3.15422E-03	2.83132E 01	-3.17725E-03	1.52490E-01	-3.19547E-02
7.70	9.16843E-05	-1.37418E-01	-3.25945E-03	2.83368E 01	-3.28017E-03	1.56406E-01	-3.19690E-02
7.80	9.40763E-05	-1.41134E-01	-3.36685E-03	2.83598E 01	-3.38520E-03	1.60372E-01	-3.19829E-02
7.90	9.64993E-05	-1.44901E-01	-3.47646E-03	2.83822E 01	-3.49237E-03	1.64387E-01	-3.19966E-02
8.00	9.89531E-05	-1.48717E-01	-3.58829E-03	2.84040E 01	-3.60169E-03	1.68451E-01	-3.20100E-02
8.10	1.01438E-04	-1.52582E-01	-3.70237E-03	2.84252E 01	-3.71318E-03	1.72565E-01	-3.20232E-02
8.20	1.03953E-04	-1.56496E-01	-3.81871E-03	2.84459E 01	-3.82688E-03	1.76728E-01	-3.20362E-02
8.30	1.06499E-04	-1.60460E-01	-3.93734E-03	2.84660E 01	-3.94278E-03	1.80940E-01	-3.20489E-02
8.40	1.09076E-04	-1.64474E-01	-4.05827E-03	2.84856E 01	-4.06093E-03	1.85202E-01	-3.20613E-02
8.50	1.11684E-04	-1.68537E-01	-4.18152E-03	2.85048E 01	-4.18133E-03	1.89513E-01	-3.20736E-02
8.60	1.14323E-04	-1.72649E-01	-4.30712E-03	2.85234E 01	-4.30401E-03	1.93873E-01	-3.20856E-02
8.70	1.16993E-04	-1.76810E-01	-4.43509E-03	2.85416E 01	-4.42898E-03	1.98283E-01	-3.20974E-02
8.80	1.19693E-04	-1.81021E-01	-4.56544E-03	2.85594E 01	-4.55627E-03	2.02742E-01	-3.21090E-02
8.90	1.22424E-04	-1.85281E-01	-4.69820E-03	2.85768E 01	-4.68590E-03	2.07250E-01	-3.21204E-02
9.00	1.25186E-04	-1.89591E-01	-4.83338E-03	2.85937E 01	-4.81789E-03	2.11808E-01	-3.21316E-02
9.10	1.27979E-04	-1.93950E-01	-4.97101E-03	2.86102E 01	-4.95225E-03	2.16415E-01	-3.21426E-02
9.20	1.30803E-04	-1.98358E-01	-5.11111E-03	2.86264E 01	-5.08902E-03	2.21071E-01	-3.21534E-02
9.30	1.33657E-04	-2.02815E-01	-5.25369E-03	2.86422E 01	-5.22820E-03	2.25777E-01	-3.21640E-02
9.40	1.36542E-04	-2.07322E-01	-5.39878E-03	2.86577E 01	-5.36982E-03	2.30532E-01	-3.21744E-02
9.50	1.39459E-04	-2.11879E-01	-5.54640E-03	2.86727E 01	-5.51390E-03	2.35336E-01	-3.21847E-02
9.60	1.42405E-04	-2.16484E-01	-5.69657E-03	2.86875E 01	-5.66046E-03	2.40189E-01	-3.21948E-02
9.70	1.45383E-04	-2.21139E-01	-5.84930E-03	2.87020E 01	-5.80951E-03	2.45092E-01	-3.22047E-02
9.80	1.48392E-04	-2.25843E-01	-6.00462E-03	2.87161E 01	-5.96109E-03	2.50044E-01	-3.22144E-02
9.90	1.51431E-04	-2.30596E-01	-6.16255E-03	2.87299E 01	-6.11521E-03	2.55045E-01	-3.22240E-02
10.00	1.54501E-04	-2.35399E-01	-6.32311E-03	2.87434E 01	-6.27189E-03	2.60095E-01	-3.22335E-02
10.10	1.57602E-04	-2.40251E-01	-6.48631E-03	2.87567E 01	-6.43115E-03	2.65195E-01	-3.22428E-02
10.20	1.60734E-04	-2.45152E-01	-6.65219E-03	2.87697E 01	-6.59301E-03	2.70344E-01	-3.22519E-02
10.30	1.63897E-04	-2.50103E-01	-6.82075E-03	2.87824E 01	-6.75749E-03	2.75542E-01	-3.22609E-02
10.40	1.67090E-04	-2.55103E-01	-6.99203E-03	2.87948E 01	-6.92461E-03	2.80790E-01	-3.22697E-02
10.50	1.70315E-04	-2.60152E-01	-7.16603E-03	2.88070E 01	-7.09439E-03	2.86086E-01	-3.22784E-02
10.60	1.73570E-04	-2.65250E-01	-7.34278E-03	2.88190E 01	-7.26686E-03	2.91432E-01	-3.22870E-02
10.70	1.76856E-04	-2.70398E-01	-7.52231E-03	2.88307E 01	-7.44202E-03	2.96827E-01	-3.22954E-02
10.80	1.80172E-04	-2.75595E-01	-7.70462E-03	2.88422E 01	-7.61991E-03	3.02272E-01	-3.23037E-02
10.90	1.83520E-04	-2.80841E-01	-7.88974E-03	2.88535E 01	-7.80054E-03	3.07765E-01	-3.23119E-02
11.00	1.86898E-04	-2.86136E-01	-8.07769E-03	2.88645E 01	-7.98393E-03	3.13308E-01	-3.23200E-02
11.10	1.90307E-04	-2.91481E-01	-8.26850E-03	2.88754E 01	-8.17010E-03	3.18900E-01	-3.23279E-02
11.20	1.93747E-04	-2.96874E-01	-8.46217E-03	2.88860E 01	-8.35908E-03	3.24541E-01	-3.23357E-02
11.30	1.97218E-04	-3.02317E-01	-8.65874E-03	2.88965E 01	-8.55088E-03	3.30231E-01	-3.23434E-02
11.40	2.00720E-04	-3.07810E-01	-8.85822E-03	2.89067E 01	-8.74553E-03	3.35971E-01	-3.23510E-02
11.50	2.04252E-04	-3.13351E-01	-9.06063E-03	2.89168E 01	-8.94303E-03	3.41759E-01	-3.23585E-02
11.60	2.07815E-04	-3.18942E-01	-9.26598E-03	2.89267E 01	-9.14342E-03	3.47597E-01	-3.23658E-02
11.70	2.11409E-04	-3.24581E-01	-9.47432E-03	2.89364E 01	-9.34671E-03	3.53484E-01	-3.23731E-02
11.80	2.15034E-04	-3.30270E-01	-9.68563E-03	2.89459E 01	-9.55293E-03	3.59420E-01	-3.23802E-02
11.90	2.18689E-04	-3.36008E-01	-9.89997E-03	2.89552E 01	-9.76209E-03	3.65405E-01	-3.23873E-02
12.00	2.22376E-04	-3.41796E-01	-1.01173E-02	2.89644E 01	-9.97421E-03	3.71440E-01	-3.23942E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.1 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
12.10	1.18259E 00	-1.25363E 01	-6.34078E-01	3.90561E-03	-6.26059E-01	1.36111E 01	-1.23143E 02	
12.20	1.18256E 00	-1.26437E 01	-6.42406E-01	3.92204E-03	-6.34138E-01	1.37185E 01	-1.23420E 02	
12.30	1.18252E 00	-1.27511E 01	-6.50782E-01	3.93818E-03	-6.42265E-01	1.38258E 01	-1.23695E 02	
12.40	1.18249E 00	-1.28584E 01	-6.59206E-01	3.95405E-03	-6.50441E-01	1.39331E 01	-1.23966E 02	
12.50	1.18245E 00	-1.29657E 01	-6.67680E-01	3.96965E-03	-6.58665E-01	1.40403E 01	-1.24234E 02	
12.60	1.18242E 00	-1.30730E 01	-6.76202E-01	3.98499E-03	-6.66939E-01	1.41476E 01	-1.24499E 02	
12.70	1.18238E 00	-1.31803E 01	-6.84773E-01	4.00006E-03	-6.75261E-01	1.42548E 01	-1.24762E 02	
12.80	1.18235E 00	-1.32876E 01	-6.93392E-01	4.01489E-03	-6.83631E-01	1.43621E 01	-1.25021E 02	
12.90	1.18232E 00	-1.33949E 01	-7.02061E-01	4.02948E-03	-6.92051E-01	1.44693E 01	-1.25278E 02	
13.00	1.18229E 00	-1.35021E 01	-7.10778E-01	4.04382E-03	-7.00519E-01	1.45765E 01	-1.25533E 02	
13.10	1.18226E 00	-1.36094E 01	-7.19543E-01	4.05794E-03	-7.09036E-01	1.46837E 01	-1.25784E 02	
13.20	1.18222E 00	-1.37166E 01	-7.28357E-01	4.07182E-03	-7.17601E-01	1.47908E 01	-1.26033E 02	
13.30	1.18219E 00	-1.38238E 01	-7.37220E-01	4.08548E-03	-7.26215E-01	1.48980E 01	-1.26280E 02	
13.40	1.18216E 00	-1.39310E 01	-7.46131E-01	4.09892E-03	-7.34877E-01	1.50051E 01	-1.26524E 02	
13.50	1.18213E 00	-1.40382E 01	-7.55092E-01	4.11215E-03	-7.43589E-01	1.51122E 01	-1.26766E 02	
13.60	1.18210E 00	-1.41453E 01	-7.64100E-01	4.12516E-03	-7.52349E-01	1.52193E 01	-1.27005E 02	
13.70	1.18207E 00	-1.42525E 01	-7.73157E-01	4.13797E-03	-7.61157E-01	1.53264E 01	-1.27242E 02	
13.80	1.18204E 00	-1.43596E 01	-7.82263E-01	4.15058E-03	-7.70014E-01	1.54335E 01	-1.27477E 02	
13.90	1.18201E 00	-1.44667E 01	-7.91417E-01	4.16300E-03	-7.78920E-01	1.55405E 01	-1.27709E 02	
14.00	1.18199E 00	-1.45738E 01	-8.00620E-01	4.17521E-03	-7.87874E-01	1.56475E 01	-1.27939E 02	
14.10	1.18196E 00	-1.46809E 01	-8.09872E-01	4.18725E-03	-7.96877E-01	1.57546E 01	-1.28167E 02	
14.20	1.18193E 00	-1.47880E 01	-8.19172E-01	4.19909E-03	-8.05928E-01	1.58616E 01	-1.28393E 02	
14.30	1.18190E 00	-1.48950E 01	-8.28521E-01	4.21075E-03	-8.15028E-01	1.59686E 01	-1.28617E 02	
14.40	1.18187E 00	-1.50021E 01	-8.37918E-01	4.22225E-03	-8.24177E-01	1.60755E 01	-1.28838E 02	
14.50	1.18185E 00	-1.51091E 01	-8.47364E-01	4.23356E-03	-8.33374E-01	1.61825E 01	-1.29058E 02	
14.60	1.18182E 00	-1.52161E 01	-8.56858E-01	4.24470E-03	-8.42619E-01	1.62894E 01	-1.29276E 02	
14.70	1.18179E 00	-1.53231E 01	-8.66400E-01	4.25568E-03	-8.51913E-01	1.63963E 01	-1.29491E 02	
14.80	1.18177E 00	-1.54300E 01	-8.75992E-01	4.26649E-03	-8.61256E-01	1.65032E 01	-1.29705E 02	
14.90	1.18174E 00	-1.55370E 01	-8.85631E-01	4.27715E-03	-8.70647E-01	1.66101E 01	-1.29917E 02	
15.00	1.18171E 00	-1.56439E 01	-8.95319E-01	4.28764E-03	-8.80086E-01	1.67170E 01	-1.30127E 02	
15.10	1.18169E 00	-1.57509E 01	-9.05056E-01	4.29798E-03	-8.89574E-01	1.68239E 01	-1.30335E 02	
15.20	1.18166E 00	-1.58578E 01	-9.14841E-01	4.30817E-03	-8.99111E-01	1.69307E 01	-1.30541E 02	
15.30	1.18164E 00	-1.59647E 01	-9.24675E-01	4.31820E-03	-9.08696E-01	1.70375E 01	-1.30745E 02	
15.40	1.18161E 00	-1.60715E 01	-9.34557E-01	4.32810E-03	-9.18329E-01	1.71443E 01	-1.30948E 02	
15.50	1.18159E 00	-1.61784E 01	-9.44487E-01	4.33785E-03	-9.28011E-01	1.72511E 01	-1.31149E 02	
15.60	1.18156E 00	-1.62852E 01	-9.54466E-01	4.34746E-03	-9.37741E-01	1.73579E 01	-1.31349E 02	
15.70	1.18154E 00	-1.63921E 01	-9.64494E-01	4.35693E-03	-9.47520E-01	1.74646E 01	-1.31546E 02	
15.80	1.18151E 00	-1.64989E 01	-9.74569E-01	4.36626E-03	-9.57348E-01	1.75714E 01	-1.31742E 02	
15.90	1.18149E 00	-1.66057E 01	-9.84694E-01	4.37547E-03	-9.67223E-01	1.76781E 01	-1.31937E 02	
16.00	1.18147E 00	-1.67125E 01	-9.94866E-01	4.38454E-03	-9.77147E-01	1.77848E 01	-1.32130E 02	
16.10	1.18144E 00	-1.68192E 01	-1.00509E 00	4.39348E-03	-9.87120E-01	1.78915E 01	-1.32321E 02	
16.20	1.18142E 00	-1.69260E 01	-1.01536E 00	4.40230E-03	-9.97141E-01	1.79982E 01	-1.32511E 02	
16.30	1.18140E 00	-1.70327E 01	-1.02567E 00	4.41099E-03	-1.00721E 00	1.81048E 01	-1.32699E 02	
16.40	1.18137E 00	-1.71394E 01	-1.03604E 00	4.41956E-03	-1.01733E 00	1.82115E 01	-1.32886E 02	
16.50	1.18135E 00	-1.72461E 01	-1.04645E 00	4.42801E-03	-1.02749E 00	1.83181E 01	-1.33071E 02	
16.60	1.18133E 00	-1.73528E 01	-1.05692E 00	4.43634E-03	-1.03771E 00	1.84247E 01	-1.33255E 02	
16.70	1.18131E 00	-1.74595E 01	-1.06743E 00	4.44456E-03	-1.04797E 00	1.85313E 01	-1.33438E 02	
16.80	1.18128E 00	-1.75661E 01	-1.07799E 00	4.45266E-03	-1.05828E 00	1.86379E 01	-1.33619E 02	
16.90	1.18126E 00	-1.76727E 01	-1.08860E 00	4.46065E-03	-1.06864E 00	1.87444E 01	-1.33799E 02	
17.00	1.18124E 00	-1.77793E 01	-1.09925E 00	4.46854E-03	-1.07905E 00	1.88509E 01	-1.33977E 02	
17.10	1.18122E 00	-1.78859E 01	-1.10996E 00	4.47631E-03	-1.08950E 00	1.89575E 01	-1.34154E 02	
17.20	1.18120E 00	-1.79925E 01	-1.12071E 00	4.48399E-03	-1.10001E 00	1.90640E 01	-1.34330E 02	
17.30	1.18117E 00	-1.80991E 01	-1.13151E 00	4.49154E-03	-1.11056E 00	1.91704E 01	-1.34505E 02	
17.40	1.18115E 00	-1.82056E 01	-1.14236E 00	4.49901E-03	-1.12116E 00	1.92769E 01	-1.34678E 02	
17.50	1.18113E 00	-1.83122E 01	-1.15326E 00	4.50636E-03	-1.13181E 00	1.93834E 01	-1.34850E 02	
17.60	1.18111E 00	-1.84187E 01	-1.16420E 00	4.51362E-03	-1.14251E 00	1.94898E 01	-1.35021E 02	
17.70	1.18109E 00	-1.85252E 01	-1.17519E 00	4.52079E-03	-1.15325E 00	1.95962E 01	-1.35190E 02	
17.80	1.18107E 00	-1.86317E 01	-1.18624E 00	4.52784E-03	-1.16405E 00	1.97026E 01	-1.35359E 02	
17.90	1.18105E 00	-1.87381E 01	-1.19733E 00	4.53481E-03	-1.17489E 00	1.98090E 01	-1.35526E 02	
18.00	1.18103E 00	-1.88446E 01	-1.20847E 00	4.54169E-03	-1.18578E 00	1.99154E 01	-1.35692E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z=7$        $A=14$        $\rho=1.1 A^{1/3} F$       Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	2.26093E-04	-3.47632E-01	-1.03378E-02	2.89735E 01	-1.01893E-02	3.77524E-01	-3.24010E-02
12.20	2.29841E-04	-3.53518E-01	-1.05613E-02	2.89823E 01	-1.04074E-02	3.83656E-01	-3.24078E-02
12.30	2.33620E-04	-3.59453E-01	-1.07878E-02	2.89911E 01	-1.06286E-02	3.89838E-01	-3.24144E-02
12.40	2.37430E-04	-3.65437E-01	-1.10175E-02	2.89997E 01	-1.08528E-02	3.96069E-01	-3.24210E-02
12.50	2.41270E-04	-3.71470E-01	-1.12504E-02	2.90081E 01	-1.10800E-02	4.02349E-01	-3.24275E-02
12.60	2.45141E-04	-3.77552E-01	-1.14864E-02	2.90164E 01	-1.13103E-02	4.08678E-01	-3.24339E-02
12.70	2.49044E-04	-3.83684E-01	-1.17255E-02	2.90245E 01	-1.15438E-02	4.15057E-01	-3.24402E-02
12.80	2.52976E-04	-3.89864E-01	-1.19679E-02	2.90326E 01	-1.17804E-02	4.21484E-01	-3.24464E-02
12.90	2.56940E-04	-3.96094E-01	-1.22134E-02	2.90404E 01	-1.20201E-02	4.27961E-01	-3.24525E-02
13.00	2.60935E-04	-4.02373E-01	-1.24622E-02	2.90482E 01	-1.22629E-02	4.34486E-01	-3.24585E-02
13.10	2.64960E-04	-4.08700E-01	-1.27143E-02	2.90558E 01	-1.25090E-02	4.41061E-01	-3.24645E-02
13.20	2.69016E-04	-4.15077E-01	-1.29696E-02	2.90634E 01	-1.27583E-02	4.47684E-01	-3.24704E-02
13.30	2.73103E-04	-4.21503E-01	-1.32282E-02	2.90708E 01	-1.30108E-02	4.54357E-01	-3.24762E-02
13.40	2.77221E-04	-4.27978E-01	-1.34902E-02	2.90780E 01	-1.32665E-02	4.61079E-01	-3.24819E-02
13.50	2.81369E-04	-4.34503E-01	-1.37554E-02	2.90852E 01	-1.35255E-02	4.67850E-01	-3.24876E-02
13.60	2.85548E-04	-4.41076E-01	-1.40240E-02	2.90923E 01	-1.37878E-02	4.74670E-01	-3.24932E-02
13.70	2.89759E-04	-4.47698E-01	-1.42960E-02	2.90992E 01	-1.40534E-02	4.81539E-01	-3.24987E-02
13.80	2.93999E-04	-4.54370E-01	-1.45714E-02	2.91061E 01	-1.43223E-02	4.88457E-01	-3.25041E-02
13.90	2.98271E-04	-4.61090E-01	-1.48502E-02	2.91128E 01	-1.45946E-02	4.95424E-01	-3.25095E-02
14.00	3.02574E-04	-4.67859E-01	-1.51325E-02	2.91195E 01	-1.48702E-02	5.02440E-01	-3.25148E-02
14.10	3.06907E-04	-4.74678E-01	-1.54182E-02	2.91260E 01	-1.51492E-02	5.09505E-01	-3.25200E-02
14.20	3.11271E-04	-4.81546E-01	-1.57073E-02	2.91325E 01	-1.54317E-02	5.16619E-01	-3.25252E-02
14.30	3.15666E-04	-4.88462E-01	-1.60000E-02	2.91388E 01	-1.57175E-02	5.23782E-01	-3.25303E-02
14.40	3.20092E-04	-4.95428E-01	-1.62962E-02	2.91451E 01	-1.60068E-02	5.30994E-01	-3.25354E-02
14.50	3.24548E-04	-5.02442E-01	-1.65959E-02	2.91512E 01	-1.62996E-02	5.38255E-01	-3.25404E-02
14.60	3.29036E-04	-5.09506E-01	-1.68992E-02	2.91573E 01	-1.65959E-02	5.45565E-01	-3.25453E-02
14.70	3.33554E-04	-5.16619E-01	-1.72060E-02	2.91633E 01	-1.68956E-02	5.52924E-01	-3.25501E-02
14.80	3.38103E-04	-5.23780E-01	-1.75164E-02	2.91692E 01	-1.71989E-02	5.60332E-01	-3.25549E-02
14.90	3.42683E-04	-5.30991E-01	-1.78305E-02	2.91750E 01	-1.75058E-02	5.67789E-01	-3.25597E-02
15.00	3.47293E-04	-5.38251E-01	-1.81482E-02	2.91808E 01	-1.78162E-02	5.75295E-01	-3.25644E-02
15.10	3.51934E-04	-5.45559E-01	-1.84695E-02	2.91864E 01	-1.81302E-02	5.82850E-01	-3.25690E-02
15.20	3.56607E-04	-5.52917E-01	-1.87946E-02	2.91920E 01	-1.84478E-02	5.90453E-01	-3.25736E-02
15.30	3.61310E-04	-5.60323E-01	-1.91233E-02	2.91975E 01	-1.87690E-02	5.98106E-01	-3.25781E-02
15.40	3.66043E-04	-5.67779E-01	-1.94557E-02	2.92030E 01	-1.90939E-02	6.05808E-01	-3.25826E-02
15.50	3.70808E-04	-5.75283E-01	-1.97919E-02	2.92083E 01	-1.94225E-02	6.13558E-01	-3.25870E-02
15.60	3.75603E-04	-5.82836E-01	-2.01318E-02	2.92136E 01	-1.97547E-02	6.21358E-01	-3.25914E-02
15.70	3.80429E-04	-5.90439E-01	-2.04755E-02	2.92189E 01	-2.00906E-02	6.29206E-01	-3.25957E-02
15.80	3.85286E-04	-5.98090E-01	-2.08230E-02	2.92240E 01	-2.04303E-02	6.37103E-01	-3.26000E-02
15.90	3.90174E-04	-6.05790E-01	-2.11743E-02	2.92291E 01	-2.07737E-02	6.45050E-01	-3.26042E-02
16.00	3.95093E-04	-6.13539E-01	-2.15295E-02	2.92341E 01	-2.11209E-02	6.53045E-01	-3.26084E-02
16.10	4.00042E-04	-6.21337E-01	-2.18885E-02	2.92391E 01	-2.14719E-02	6.61089E-01	-3.26126E-02
16.20	4.05022E-04	-6.29184E-01	-2.22513E-02	2.92439E 01	-2.18267E-02	6.69181E-01	-3.26166E-02
16.30	4.10033E-04	-6.37080E-01	-2.26181E-02	2.92488E 01	-2.21853E-02	6.77323E-01	-3.26207E-02
16.40	4.15075E-04	-6.45024E-01	-2.29888E-02	2.92535E 01	-2.25478E-02	6.85514E-01	-3.26247E-02
16.50	4.20147E-04	-6.53018E-01	-2.33634E-02	2.92582E 01	-2.29141E-02	6.93753E-01	-3.26286E-02
16.60	4.25250E-04	-6.61060E-01	-2.37420E-02	2.92629E 01	-2.32843E-02	7.02041E-01	-3.26326E-02
16.70	4.30384E-04	-6.69151E-01	-2.41246E-02	2.92675E 01	-2.36584E-02	7.10378E-01	-3.26364E-02
16.80	4.35549E-04	-6.77291E-01	-2.45111E-02	2.92720E 01	-2.40365E-02	7.18764E-01	-3.26402E-02
16.90	4.40745E-04	-6.85480E-01	-2.49017E-02	2.92765E 01	-2.44185E-02	7.27199E-01	-3.26440E-02
17.00	4.45972E-04	-6.93718E-01	-2.52963E-02	2.92809E 01	-2.48045E-02	7.35682E-01	-3.26478E-02
17.10	4.51229E-04	-7.02005E-01	-2.56950E-02	2.92853E 01	-2.51944E-02	7.44215E-01	-3.26515E-02
17.20	4.56517E-04	-7.10340E-01	-2.60977E-02	2.92896E 01	-2.55884E-02	7.52796E-01	-3.26551E-02
17.30	4.61836E-04	-7.18724E-01	-2.65046E-02	2.92938E 01	-2.59864E-02	7.61426E-01	-3.26588E-02
17.40	4.67185E-04	-7.27157E-01	-2.69155E-02	2.92980E 01	-2.63884E-02	7.70104E-01	-3.26624E-02
17.50	4.72566E-04	-7.35639E-01	-2.73306E-02	2.93022E 01	-2.67946E-02	7.78832E-01	-3.26659E-02
17.60	4.77977E-04	-7.44170E-01	-2.77499E-02	2.93063E 01	-2.72048E-02	7.87608E-01	-3.26694E-02
17.70	4.83419E-04	-7.52750E-01	-2.81733E-02	2.93104E 01	-2.76191E-02	7.96433E-01	-3.26729E-02
17.80	4.88892E-04	-7.61378E-01	-2.86009E-02	2.93144E 01	-2.80375E-02	8.05307E-01	-3.26763E-02
17.90	4.94395E-04	-7.70055E-01	-2.90327E-02	2.93184E 01	-2.84601E-02	8.14229E-01	-3.26798E-02
18.00	4.99930E-04	-7.78781E-01	-2.94688E-02	2.93223E 01	-2.88869E-02	8.23201E-01	-3.26831E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.1 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	1.18101E 00	-1.89510E 01	-1.21965E 00	4.54848E-03	-1.19672E 00	2.00217E 01	-1.35857E 02	
18.20	1.18099E 00	-1.90574E 01	-1.23089E 00	4.55516E-03	-1.20771E 00	2.01280E 01	-1.36021E 02	
18.30	1.18097E 00	-1.91638E 01	-1.24217E 00	4.56178E-03	-1.21874E 00	2.02344E 01	-1.36184E 02	
18.40	1.18095E 00	-1.92702E 01	-1.25350E 00	4.56829E-03	-1.22982E 00	2.03407E 01	-1.36346E 02	
18.50	1.18093E 00	-1.93765E 01	-1.26488E 00	4.57472E-03	-1.24095E 00	2.04469E 01	-1.36506E 02	
18.60	1.18091E 00	-1.94829E 01	-1.27631E 00	4.58106E-03	-1.25213E 00	2.05532E 01	-1.36666E 02	
18.70	1.18089E 00	-1.95892E 01	-1.28778E 00	4.58732E-03	-1.26336E 00	2.06594E 01	-1.36825E 02	
18.80	1.18087E 00	-1.96955E 01	-1.29931E 00	4.59350E-03	-1.27464E 00	2.07657E 01	-1.36982E 02	
18.90	1.18085E 00	-1.98018E 01	-1.31088E 00	4.59960E-03	-1.28596E 00	2.08719E 01	-1.37139E 02	
19.00	1.18083E 00	-1.99081E 01	-1.32250E 00	4.60561E-03	-1.29733E 00	2.09781E 01	-1.37294E 02	
19.10	1.18082E 00	-2.00143E 01	-1.33417E 00	4.61155E-03	-1.30875E 00	2.10842E 01	-1.37449E 02	
19.20	1.18080E 00	-2.01206E 01	-1.34588E 00	4.61741E-03	-1.32022E 00	2.11904E 01	-1.37603E 02	
19.30	1.18078E 00	-2.02268E 01	-1.35765E 00	4.62319E-03	-1.33174E 00	2.12965E 01	-1.37755E 02	
19.40	1.18076E 00	-2.03330E 01	-1.36946E 00	4.62890E-03	-1.34330E 00	2.14026E 01	-1.37907E 02	
19.50	1.18074E 00	-2.04392E 01	-1.38132E 00	4.63453E-03	-1.35491E 00	2.15087E 01	-1.38058E 02	
19.60	1.18072E 00	-2.05454E 01	-1.39323E 00	4.64009E-03	-1.36657E 00	2.16148E 01	-1.38208E 02	
19.70	1.18071E 00	-2.06515E 01	-1.40519E 00	4.64557E-03	-1.37828E 00	2.17209E 01	-1.38357E 02	
19.80	1.18069E 00	-2.07576E 01	-1.41719E 00	4.65099E-03	-1.39004E 00	2.18269E 01	-1.38506E 02	
19.90	1.18067E 00	-2.08637E 01	-1.42924E 00	4.65634E-03	-1.40184E 00	2.19329E 01	-1.38653E 02	
20.00	1.18065E 00	-2.09698E 01	-1.44134E 00	4.66160E-03	-1.41370E 00	2.20390E 01	-1.38800E 02	
20.10	1.18063E 00	-2.10759E 01	-1.45349E 00	4.66681E-03	-1.42560E 00	2.21449E 01	-1.38945E 02	
20.20	1.18062E 00	-2.11820E 01	-1.46569E 00	4.67195E-03	-1.43755E 00	2.22509E 01	-1.39090E 02	
20.30	1.18060E 00	-2.12880E 01	-1.47793E 00	4.67702E-03	-1.44954E 00	2.23569E 01	-1.39234E 02	
20.40	1.18058E 00	-2.13940E 01	-1.49022E 00	4.68202E-03	-1.46159E 00	2.24628E 01	-1.39378E 02	
20.50	1.18057E 00	-2.15000E 01	-1.50256E 00	4.68696E-03	-1.47368E 00	2.25687E 01	-1.39520E 02	
20.60	1.18055E 00	-2.16060E 01	-1.51495E 00	4.69183E-03	-1.48582E 00	2.26746E 01	-1.39662E 02	
20.70	1.18053E 00	-2.17120E 01	-1.52739E 00	4.69665E-03	-1.49801E 00	2.27805E 01	-1.39803E 02	
20.80	1.18051E 00	-2.18180E 01	-1.53987E 00	4.70140E-03	-1.51024E 00	2.28864E 01	-1.39943E 02	
20.90	1.18050E 00	-2.19239E 01	-1.55240E 00	4.70608E-03	-1.52253E 00	2.29922E 01	-1.40083E 02	
21.00	1.18048E 00	-2.20298E 01	-1.56498E 00	4.71071E-03	-1.53486E 00	2.30980E 01	-1.40222E 02	
21.10	1.18046E 00	-2.21357E 01	-1.57761E 00	4.71528E-03	-1.54724E 00	2.32038E 01	-1.40360E 02	
21.20	1.18045E 00	-2.22416E 01	-1.59029E 00	4.71979E-03	-1.55967E 00	2.33096E 01	-1.40497E 02	
21.30	1.18043E 00	-2.23474E 01	-1.60301E 00	4.72424E-03	-1.57215E 00	2.34154E 01	-1.40634E 02	
21.40	1.18042E 00	-2.24533E 01	-1.61578E 00	4.72863E-03	-1.58467E 00	2.35211E 01	-1.40770E 02	
21.50	1.18040E 00	-2.25591E 01	-1.62860E 00	4.73296E-03	-1.59724E 00	2.36269E 01	-1.40905E 02	
21.60	1.18038E 00	-2.26649E 01	-1.64147E 00	4.73724E-03	-1.60986E 00	2.37326E 01	-1.41040E 02	
21.70	1.18037E 00	-2.27707E 01	-1.65438E 00	4.74146E-03	-1.62253E 00	2.38383E 01	-1.41174E 02	
21.80	1.18035E 00	-2.28764E 01	-1.66735E 00	4.74563E-03	-1.63524E 00	2.39439E 01	-1.41307E 02	
21.90	1.18034E 00	-2.29822E 01	-1.68036E 00	4.74974E-03	-1.64801E 00	2.40496E 01	-1.41440E 02	
22.00	1.18032E 00	-2.30879E 01	-1.69342E 00	4.75380E-03	-1.66082E 00	2.41552E 01	-1.41572E 02	
22.10	1.18030E 00	-2.31936E 01	-1.70652E 00	4.75781E-03	-1.67367E 00	2.42608E 01	-1.41704E 02	
22.20	1.18029E 00	-2.32993E 01	-1.71968E 00	4.76175E-03	-1.68658E 00	2.43664E 01	-1.41835E 02	
22.30	1.18027E 00	-2.34050E 01	-1.73288E 00	4.76566E-03	-1.69954E 00	2.44720E 01	-1.41965E 02	
22.40	1.18026E 00	-2.35106E 01	-1.74613E 00	4.76951E-03	-1.71254E 00	2.45776E 01	-1.42095E 02	
22.50	1.18024E 00	-2.36163E 01	-1.75942E 00	4.77331E-03	-1.72559E 00	2.46831E 01	-1.42224E 02	
22.60	1.18023E 00	-2.37219E 01	-1.77277E 00	4.77706E-03	-1.73869E 00	2.47886E 01	-1.42353E 02	
22.70	1.18021E 00	-2.38275E 01	-1.78616E 00	4.78077E-03	-1.75183E 00	2.48942E 01	-1.42480E 02	
22.80	1.18020E 00	-2.39331E 01	-1.79960E 00	4.78442E-03	-1.76502E 00	2.49996E 01	-1.42608E 02	
22.90	1.18018E 00	-2.40386E 01	-1.81309E 00	4.78801E-03	-1.77826E 00	2.51051E 01	-1.42735E 02	
23.00	1.18017E 00	-2.41442E 01	-1.82662E 00	4.79158E-03	-1.79155E 00	2.52105E 01	-1.42861E 02	
23.10	1.18015E 00	-2.42497E 01	-1.84021E 00	4.79508E-03	-1.80489E 00	2.53160E 01	-1.42987E 02	
23.20	1.18014E 00	-2.43552E 01	-1.85384E 00	4.79855E-03	-1.81827E 00	2.54214E 01	-1.43113E 02	
23.30	1.18012E 00	-2.44607E 01	-1.86752E 00	4.80197E-03	-1.83170E 00	2.55268E 01	-1.43237E 02	
23.40	1.18011E 00	-2.45661E 01	-1.88124E 00	4.80534E-03	-1.84518E 00	2.56321E 01	-1.43362E 02	
23.50	1.18009E 00	-2.46716E 01	-1.89502E 00	4.80866E-03	-1.85871E 00	2.57375E 01	-1.43485E 02	
23.60	1.18008E 00	-2.47770E 01	-1.90884E 00	4.81195E-03	-1.87228E 00	2.58428E 01	-1.43609E 02	
23.70	1.18007E 00	-2.48824E 01	-1.92271E 00	4.81519E-03	-1.88591E 00	2.59481E 01	-1.43732E 02	
23.80	1.18005E 00	-2.49878E 01	-1.93662E 00	4.81838E-03	-1.89957E 00	2.60534E 01	-1.43854E 02	
23.90	1.18004E 00	-2.50931E 01	-1.95059E 00	4.82153E-03	-1.91329E 00	2.61586E 01	-1.43976E 02	
24.00	1.18002E 00	-2.51985E 01	-1.96460E 00	4.82464E-03	-1.92706E 00	2.62639E 01	-1.44097E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$        $A = 14$        $\rho = 1.1 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	5.05495E-04	-7.87555E-01	-2.99091E-02	2.93262E 01	-2.93178E-02	8.32221E-01	-3.26865E-02
18.20	5.11092E-04	-7.96379E-01	-3.03537E-02	2.93300E 01	-2.97530E-02	8.41290E-01	-3.26898E-02
18.30	5.16718E-04	-8.05251E-01	-3.08026E-02	2.93338E 01	-3.01924E-02	8.50407E-01	-3.26931E-02
18.40	5.22376E-04	-8.14172E-01	-3.12558E-02	2.93375E 01	-3.06360E-02	8.59574E-01	-3.26963E-02
18.50	5.28064E-04	-8.23141E-01	-3.17134E-02	2.93412E 01	-3.10839E-02	8.68788E-01	-3.26995E-02
18.60	5.33783E-04	-8.32160E-01	-3.21753E-02	2.93449E 01	-3.15361E-02	8.78052E-01	-3.27027E-02
18.70	5.39533E-04	-8.41226E-01	-3.26416E-02	2.93485E 01	-3.19925E-02	8.87364E-01	-3.27058E-02
18.80	5.45314E-04	-8.50342E-01	-3.31122E-02	2.93521E 01	-3.24534E-02	8.96725E-01	-3.27089E-02
18.90	5.51126E-04	-8.59506E-01	-3.35873E-02	2.93556E 01	-3.29185E-02	9.06135E-01	-3.27120E-02
19.00	5.56968E-04	-8.68719E-01	-3.40668E-02	2.93591E 01	-3.33881E-02	9.15593E-01	-3.27151E-02
19.10	5.62841E-04	-8.77981E-01	-3.45508E-02	2.93626E 01	-3.38620E-02	9.25100E-01	-3.27181E-02
19.20	5.68745E-04	-8.87291E-01	-3.50392E-02	2.93660E 01	-3.43403E-02	9.34655E-01	-3.27211E-02
19.30	5.74680E-04	-8.96650E-01	-3.55322E-02	2.93694E 01	-3.48231E-02	9.44260E-01	-3.27241E-02
19.40	5.80645E-04	-9.06058E-01	-3.60297E-02	2.93728E 01	-3.53103E-02	9.53912E-01	-3.27270E-02
19.50	5.86641E-04	-9.15515E-01	-3.65316E-02	2.93761E 01	-3.58019E-02	9.63614E-01	-3.27299E-02
19.60	5.92668E-04	-9.25020E-01	-3.70382E-02	2.93794E 01	-3.62981E-02	9.73364E-01	-3.27328E-02
19.70	5.98726E-04	-9.34573E-01	-3.75493E-02	2.93826E 01	-3.67987E-02	9.83162E-01	-3.27357E-02
19.80	6.04815E-04	-9.44175E-01	-3.80650E-02	2.93858E 01	-3.73039E-02	9.93010E-01	-3.27385E-02
19.90	6.10934E-04	-9.53826E-01	-3.85854E-02	2.93890E 01	-3.78137E-02	1.00291E 00	-3.27413E-02
20.00	6.17085E-04	-9.63526E-01	-3.91103E-02	2.93922E 01	-3.83280E-02	1.01285E 00	-3.27441E-02
20.10	6.23266E-04	-9.73274E-01	-3.96399E-02	2.93953E 01	-3.88469E-02	1.02284E 00	-3.27469E-02
20.20	6.29477E-04	-9.83070E-01	-4.01742E-02	2.93984E 01	-3.93703E-02	1.03288E 00	-3.27496E-02
20.30	6.35720E-04	-9.92916E-01	-4.07132E-02	2.94014E 01	-3.98985E-02	1.04297E 00	-3.27523E-02
20.40	6.41993E-04	-1.00281E 00	-4.12569E-02	2.94044E 01	-4.04312E-02	1.05311E 00	-3.27550E-02
20.50	6.48297E-04	-1.01275E 00	-4.18054E-02	2.94074E 01	-4.09687E-02	1.06330E 00	-3.27576E-02
20.60	6.54632E-04	-1.02274E 00	-4.23585E-02	2.94104E 01	-4.15108E-02	1.07354E 00	-3.27603E-02
20.70	6.60998E-04	-1.03278E 00	-4.29165E-02	2.94133E 01	-4.20576E-02	1.08382E 00	-3.27629E-02
20.80	6.67395E-04	-1.04287E 00	-4.34793E-02	2.94162E 01	-4.26092E-02	1.09415E 00	-3.27655E-02
20.90	6.73822E-04	-1.05301E 00	-4.40468E-02	2.94191E 01	-4.31654E-02	1.10453E 00	-3.27680E-02
21.00	6.80280E-04	-1.06319E 00	-4.46192E-02	2.94219E 01	-4.37265E-02	1.11496E 00	-3.27706E-02
21.10	6.86769E-04	-1.07343E 00	-4.51965E-02	2.94247E 01	-4.42923E-02	1.12544E 00	-3.27731E-02
21.20	6.93288E-04	-1.08371E 00	-4.57786E-02	2.94275E 01	-4.48630E-02	1.13597E 00	-3.27756E-02
21.30	6.99839E-04	-1.09404E 00	-4.63656E-02	2.94303E 01	-4.54385E-02	1.14654E 00	-3.27780E-02
21.40	7.06420E-04	-1.10442E 00	-4.69575E-02	2.94330E 01	-4.60188E-02	1.15717E 00	-3.27805E-02
21.50	7.13032E-04	-1.11485E 00	-4.75544E-02	2.94357E 01	-4.66040E-02	1.16784E 00	-3.27829E-02
21.60	7.19675E-04	-1.12532E 00	-4.81562E-02	2.94384E 01	-4.71940E-02	1.17856E 00	-3.27853E-02
21.70	7.26348E-04	-1.13585E 00	-4.87630E-02	2.94411E 01	-4.77890E-02	1.18933E 00	-3.27877E-02
21.80	7.33053E-04	-1.14642E 00	-4.93747E-02	2.94437E 01	-4.83889E-02	1.20015E 00	-3.27901E-02
21.90	7.39788E-04	-1.15704E 00	-4.99915E-02	2.94463E 01	-4.89937E-02	1.21101E 00	-3.27924E-02
22.00	7.46554E-04	-1.16771E 00	-5.06133E-02	2.94489E 01	-4.96035E-02	1.22193E 00	-3.27948E-02
22.10	7.53350E-04	-1.17843E 00	-5.12402E-02	2.94515E 01	-5.02183E-02	1.23289E 00	-3.27971E-02
22.20	7.60178E-04	-1.18920E 00	-5.18721E-02	2.94540E 01	-5.08381E-02	1.24390E 00	-3.27994E-02
22.30	7.67037E-04	-1.20001E 00	-5.25091E-02	2.94565E 01	-5.14629E-02	1.25496E 00	-3.28016E-02
22.40	7.73926E-04	-1.21088E 00	-5.31513E-02	2.94590E 01	-5.20928E-02	1.26607E 00	-3.28039E-02
22.50	7.80846E-04	-1.22179E 00	-5.37985E-02	2.94614E 01	-5.27277E-02	1.27723E 00	-3.28061E-02
22.60	7.87796E-04	-1.23275E 00	-5.44509E-02	2.94639E 01	-5.33677E-02	1.28843E 00	-3.28084E-02
22.70	7.94778E-04	-1.24376E 00	-5.51085E-02	2.94663E 01	-5.40128E-02	1.29968E 00	-3.28106E-02
22.80	8.01790E-04	-1.25481E 00	-5.57713E-02	2.94687E 01	-5.46630E-02	1.31099E 00	-3.28127E-02
22.90	8.08833E-04	-1.26592E 00	-5.64393E-02	2.94711E 01	-5.53183E-02	1.32234E 00	-3.28149E-02
23.00	8.15907E-04	-1.27707E 00	-5.71124E-02	2.94734E 01	-5.59788E-02	1.33373E 00	-3.28170E-02
23.10	8.23011E-04	-1.28828E 00	-5.77909E-02	2.94758E 01	-5.66445E-02	1.34518E 00	-3.28192E-02
23.20	8.30146E-04	-1.29953E 00	-5.84746E-02	2.94781E 01	-5.73154E-02	1.35667E 00	-3.28213E-02
23.30	8.37313E-04	-1.31083E 00	-5.91636E-02	2.94804E 01	-5.79916E-02	1.36822E 00	-3.28234E-02
23.40	8.44509E-04	-1.32217E 00	-5.98579E-02	2.94826E 01	-5.86729E-02	1.37981E 00	-3.28255E-02
23.50	8.51737E-04	-1.33357E 00	-6.05576E-02	2.94849E 01	-5.93595E-02	1.39145E 00	-3.28275E-02
23.60	8.58996E-04	-1.34501E 00	-6.12626E-02	2.94871E 01	-6.00514E-02	1.40314E 00	-3.28295E-02
23.70	8.66285E-04	-1.35650E 00	-6.19729E-02	2.94893E 01	-6.07486E-02	1.41487E 00	-3.28316E-02
23.80	8.73605E-04	-1.36804E 00	-6.26887E-02	2.94915E 01	-6.14512E-02	1.42666E 00	-3.28336E-02
23.90	8.80956E-04	-1.37963E 00	-6.34098E-02	2.94937E 01	-6.21590E-02	1.43849E 00	-3.28356E-02
24.00	8.88337E-04	-1.39127E 00	-6.41364E-02	2.94959E 01	-6.28722E-02	1.45037E 00	-3.28376E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.1 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
24.10	1.18001E 00	-2.53038E 01	-1.97866E 00	4.82771E-03	-1.94087E 00	2.63691E 01	-1.44218E 02			
24.20	1.17999E 00	-2.54091E 01	-1.99277E 00	4.83073E-03	-1.95473E 00	2.64743E 01	-1.44339E 02			
24.30	1.17998E 00	-2.55144E 01	-2.00692E 00	4.83372E-03	-1.96864E 00	2.65795E 01	-1.44459E 02			
24.40	1.17997E 00	-2.56196E 01	-2.02112E 00	4.83666E-03	-1.98259E 00	2.66847E 01	-1.44578E 02			
24.50	1.17995E 00	-2.57249E 01	-2.03537E 00	4.83956E-03	-1.99659E 00	2.67898E 01	-1.44698E 02			
24.60	1.17994E 00	-2.58301E 01	-2.04967E 00	4.84242E-03	-2.01064E 00	2.68950E 01	-1.44816E 02			
24.70	1.17993E 00	-2.59353E 01	-2.06402E 00	4.84525E-03	-2.02474E 00	2.70001E 01	-1.44935E 02			
24.80	1.17991E 00	-2.60405E 01	-2.07841E 00	4.84804E-03	-2.03889E 00	2.71051E 01	-1.45052E 02			
24.90	1.17990E 00	-2.61457E 01	-2.09285E 00	4.85078E-03	-2.05308E 00	2.72102E 01	-1.45170E 02			
25.00	1.17988E 00	-2.62508E 01	-2.10733E 00	4.85349E-03	-2.06732E 00	2.73153E 01	-1.45287E 02			
25.10	1.17987E 00	-2.63559E 01	-2.12187E 00	4.85615E-03	-2.08161E 00	2.74203E 01	-1.45404E 02			
25.20	1.17986E 00	-2.64610E 01	-2.13645E 00	4.85878E-03	-2.09594E 00	2.75253E 01	-1.45520E 02			
25.30	1.17984E 00	-2.65661E 01	-2.15108E 00	4.86139E-03	-2.11032E 00	2.76303E 01	-1.45636E 02			
25.40	1.17983E 00	-2.66712E 01	-2.16576E 00	4.86394E-03	-2.12475E 00	2.77352E 01	-1.45752E 02			
25.50	1.17982E 00	-2.67762E 01	-2.18048E 00	4.86647E-03	-2.13923E 00	2.78402E 01	-1.45867E 02			
25.60	1.17980E 00	-2.68812E 01	-2.19525E 00	4.86895E-03	-2.15376E 00	2.79451E 01	-1.45982E 02			
25.70	1.17979E 00	-2.69862E 01	-2.21007E 00	4.87140E-03	-2.16833E 00	2.80500E 01	-1.46096E 02			
25.80	1.17978E 00	-2.70912E 01	-2.22494E 00	4.87382E-03	-2.18295E 00	2.81549E 01	-1.46211E 02			
25.90	1.17977E 00	-2.71962E 01	-2.23985E 00	4.87620E-03	-2.19761E 00	2.82597E 01	-1.46324E 02			
26.00	1.17975E 00	-2.73011E 01	-2.25481E 00	4.87854E-03	-2.21233E 00	2.83646E 01	-1.46438E 02			
26.10	1.17974E 00	-2.74060E 01	-2.26982E 00	4.88085E-03	-2.22709E 00	2.84694E 01	-1.46551E 02			
26.20	1.17973E 00	-2.75109E 01	-2.28487E 00	4.88313E-03	-2.24190E 00	2.85742E 01	-1.46664E 02			
26.30	1.17971E 00	-2.76158E 01	-2.29998E 00	4.88536E-03	-2.25676E 00	2.86790E 01	-1.46777E 02			
26.40	1.17970E 00	-2.77207E 01	-2.31513E 00	4.88757E-03	-2.27166E 00	2.87837E 01	-1.46889E 02			
26.50	1.17969E 00	-2.78255E 01	-2.33032E 00	4.88975E-03	-2.28661E 00	2.88885E 01	-1.47000E 02			
26.60	1.17968E 00	-2.79303E 01	-2.34557E 00	4.89190E-03	-2.30161E 00	2.89932E 01	-1.47112E 02			
26.70	1.17966E 00	-2.80351E 01	-2.36086E 00	4.89401E-03	-2.31665E 00	2.90979E 01	-1.47223E 02			
26.80	1.17965E 00	-2.81399E 01	-2.37620E 00	4.89609E-03	-2.33175E 00	2.92025E 01	-1.47334E 02			
26.90	1.17964E 00	-2.82446E 01	-2.39158E 00	4.89814E-03	-2.34689E 00	2.93072E 01	-1.47445E 02			
27.00	1.17963E 00	-2.83494E 01	-2.40702E 00	4.90015E-03	-2.36207E 00	2.94118E 01	-1.47555E 02			
27.10	1.17961E 00	-2.84541E 01	-2.42250E 00	4.90214E-03	-2.37731E 00	2.95164E 01	-1.47665E 02			
27.20	1.17960E 00	-2.85588E 01	-2.43803E 00	4.90409E-03	-2.39259E 00	2.96210E 01	-1.47775E 02			
27.30	1.17959E 00	-2.86634E 01	-2.45360E 00	4.90602E-03	-2.40792E 00	2.97256E 01	-1.47884E 02			
27.40	1.17958E 00	-2.87681E 01	-2.46922E 00	4.90791E-03	-2.42329E 00	2.98301E 01	-1.47994E 02			
27.50	1.17957E 00	-2.88727E 01	-2.48489E 00	4.90978E-03	-2.43872E 00	2.99346E 01	-1.48103E 02			
27.60	1.17955E 00	-2.89773E 01	-2.50061E 00	4.91161E-03	-2.45419E 00	3.00391E 01	-1.48211E 02			
27.70	1.17954E 00	-2.90819E 01	-2.51637E 00	4.91341E-03	-2.46970E 00	3.01436E 01	-1.48320E 02			
27.80	1.17953E 00	-2.91864E 01	-2.53218E 00	4.91519E-03	-2.48527E 00	3.02481E 01	-1.48428E 02			
27.90	1.17952E 00	-2.92910E 01	-2.54804E 00	4.91693E-03	-2.50088E 00	3.03525E 01	-1.48536E 02			
28.00	1.17951E 00	-2.93955E 01	-2.56395E 00	4.91865E-03	-2.51654E 00	3.04569E 01	-1.48644E 02			
28.10	1.17949E 00	-2.95000E 01	-2.57990E 00	4.92034E-03	-2.53224E 00	3.05613E 01	-1.48751E 02			
28.20	1.17948E 00	-2.96045E 01	-2.59590E 00	4.92200E-03	-2.54800E 00	3.06657E 01	-1.48858E 02			
28.30	1.17947E 00	-2.97089E 01	-2.61194E 00	4.92363E-03	-2.56380E 00	3.07700E 01	-1.48965E 02			
28.40	1.17946E 00	-2.98134E 01	-2.62804E 00	4.92523E-03	-2.57965E 00	3.08744E 01	-1.49072E 02			
28.50	1.17945E 00	-2.99178E 01	-2.64418E 00	4.92680E-03	-2.59554E 00	3.09787E 01	-1.49179E 02			
28.60	1.17944E 00	-3.00222E 01	-2.66037E 00	4.92836E-03	-2.61148E 00	3.10830E 01	-1.49285E 02			
28.70	1.17942E 00	-3.01265E 01	-2.67660E 00	4.92988E-03	-2.62747E 00	3.11872E 01	-1.49391E 02			
28.80	1.17941E 00	-3.02309E 01	-2.69288E 00	4.93137E-03	-2.64350E 00	3.12915E 01	-1.49497E 02			
28.90	1.17940E 00	-3.03352E 01	-2.70921E 00	4.93284E-03	-2.65959E 00	3.13957E 01	-1.49602E 02			
29.00	1.17939E 00	-3.04395E 01	-2.72558E 00	4.93428E-03	-2.67572E 00	3.14999E 01	-1.49708E 02			
29.10	1.17938E 00	-3.05438E 01	-2.74201E 00	4.93570E-03	-2.69189E 00	3.16040E 01	-1.49813E 02			
29.20	1.17937E 00	-3.06480E 01	-2.75848E 00	4.93709E-03	-2.70812E 00	3.17082E 01	-1.49918E 02			
29.30	1.17936E 00	-3.07523E 01	-2.77499E 00	4.93845E-03	-2.72439E 00	3.18123E 01	-1.50023E 02			
29.40	1.17935E 00	-3.08565E 01	-2.79155E 00	4.93979E-03	-2.74070E 00	3.19164E 01	-1.50128E 02			
29.50	1.17933E 00	-3.09607E 01	-2.80816E 00	4.94110E-03	-2.75707E 00	3.20205E 01	-1.50232E 02			
29.60	1.17932E 00	-3.10648E 01	-2.82482E 00	4.94239E-03	-2.77348E 00	3.21246E 01	-1.50336E 02			
29.70	1.17931E 00	-3.11690E 01	-2.84152E 00	4.94365E-03	-2.78994E 00	3.22286E 01	-1.50440E 02			
29.80	1.17930E 00	-3.12731E 01	-2.85828E 00	4.94490E-03	-2.80644E 00	3.23326E 01	-1.50544E 02			
29.90	1.17929E 00	-3.13772E 01	-2.87507E 00	4.94611E-03	-2.82299E 00	3.24366E 01	-1.50648E 02			
30.00	1.17928E 00	-3.14813E 01	-2.89192E 00	4.94729E-03	-2.83959E 00	3.25406E 01	-1.50752E 02			

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$        $A = 14$        $\rho = 1.1 A^{1/3} F$       Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
24.10	8.95750E-04	-1.40296E 00	-6.48684E-02	2.94980E 01	-6.35909E-02	1.46230E 00	-3.28395E-02
24.20	9.03193E-04	-1.41469E 00	-6.56059E-02	2.95001E 01	-6.43148E-02	1.47428E 00	-3.28415E-02
24.30	9.10667E-04	-1.42647E 00	-6.63489E-02	2.95022E 01	-6.50442E-02	1.48630E 00	-3.28434E-02
24.40	9.18172E-04	-1.43830E 00	-6.70973E-02	2.95043E 01	-6.57791E-02	1.49838E 00	-3.28453E-02
24.50	9.25707E-04	-1.45018E 00	-6.78513E-02	2.95064E 01	-6.65194E-02	1.51050E 00	-3.28472E-02
24.60	9.33273E-04	-1.46211E 00	-6.86109E-02	2.95084E 01	-6.72652E-02	1.52267E 00	-3.28491E-02
24.70	9.40870E-04	-1.47408E 00	-6.93759E-02	2.95104E 01	-6.80164E-02	1.53489E 00	-3.28510E-02
24.80	9.48498E-04	-1.48610E 00	-7.01466E-02	2.95125E 01	-6.87732E-02	1.54715E 00	-3.28529E-02
24.90	9.56157E-04	-1.49817E 00	-7.09229E-02	2.95144E 01	-6.95355E-02	1.55947E 00	-3.28547E-02
25.00	9.63846E-04	-1.51029E 00	-7.17048E-02	2.95164E 01	-7.03034E-02	1.57183E 00	-3.28565E-02
25.10	9.71566E-04	-1.52246E 00	-7.24924E-02	2.95184E 01	-7.10769E-02	1.58424E 00	-3.28584E-02
25.20	9.79317E-04	-1.53468E 00	-7.32856E-02	2.95203E 01	-7.18559E-02	1.59670E 00	-3.28602E-02
25.30	9.87099E-04	-1.54694E 00	-7.40845E-02	2.95223E 01	-7.26406E-02	1.60921E 00	-3.28620E-02
25.40	9.94911E-04	-1.55925E 00	-7.48891E-02	2.95242E 01	-7.34309E-02	1.62176E 00	-3.28638E-02
25.50	1.00275E-03	-1.57161E 00	-7.56994E-02	2.95261E 01	-7.42268E-02	1.63437E 00	-3.28655E-02
25.60	1.01063E-03	-1.58402E 00	-7.65154E-02	2.95280E 01	-7.50284E-02	1.64702E 00	-3.28673E-02
25.70	1.01853E-03	-1.59648E 00	-7.73372E-02	2.95298E 01	-7.58358E-02	1.65972E 00	-3.28690E-02
25.80	1.02647E-03	-1.60898E 00	-7.81648E-02	2.95317E 01	-7.66488E-02	1.67246E 00	-3.28707E-02
25.90	1.03444E-03	-1.62153E 00	-7.89982E-02	2.95335E 01	-7.74675E-02	1.68526E 00	-3.28725E-02
26.00	1.04243E-03	-1.63413E 00	-7.98374E-02	2.95354E 01	-7.82920E-02	1.69810E 00	-3.28742E-02
26.10	1.05046E-03	-1.64678E 00	-8.06825E-02	2.95372E 01	-7.91223E-02	1.71099E 00	-3.28759E-02
26.20	1.05852E-03	-1.65948E 00	-8.15333E-02	2.95390E 01	-7.99584E-02	1.72393E 00	-3.28775E-02
26.30	1.06661E-03	-1.67222E 00	-8.23901E-02	2.95408E 01	-8.08003E-02	1.73692E 00	-3.28792E-02
26.40	1.07473E-03	-1.68501E 00	-8.32528E-02	2.95425E 01	-8.16480E-02	1.74996E 00	-3.28809E-02
26.50	1.08288E-03	-1.69786E 00	-8.41214E-02	2.95443E 01	-8.25015E-02	1.76304E 00	-3.28825E-02
26.60	1.09106E-03	-1.71074E 00	-8.49959E-02	2.95460E 01	-8.33609E-02	1.77617E 00	-3.28841E-02
26.70	1.09927E-03	-1.72368E 00	-8.58764E-02	2.95478E 01	-8.42263E-02	1.78935E 00	-3.28858E-02
26.80	1.10752E-03	-1.73667E 00	-8.67628E-02	2.95495E 01	-8.50975E-02	1.80258E 00	-3.28874E-02
26.90	1.11579E-03	-1.74970E 00	-8.76553E-02	2.95512E 01	-8.59746E-02	1.81586E 00	-3.28890E-02
27.00	1.12410E-03	-1.76278E 00	-8.85538E-02	2.95529E 01	-8.68577E-02	1.82918E 00	-3.28905E-02
27.10	1.13243E-03	-1.77591E 00	-8.94582E-02	2.95545E 01	-8.77468E-02	1.84255E 00	-3.28921E-02
27.20	1.14080E-03	-1.78908E 00	-9.03688E-02	2.95562E 01	-8.86419E-02	1.85597E 00	-3.28937E-02
27.30	1.14920E-03	-1.80231E 00	-9.12854E-02	2.95579E 01	-8.95429E-02	1.86944E 00	-3.28952E-02
27.40	1.15762E-03	-1.81558E 00	-9.22082E-02	2.95595E 01	-9.04500E-02	1.88295E 00	-3.28968E-02
27.50	1.16608E-03	-1.82890E 00	-9.31370E-02	2.95611E 01	-9.13631E-02	1.89652E 00	-3.28983E-02
27.60	1.17457E-03	-1.84227E 00	-9.40719E-02	2.95627E 01	-9.22823E-02	1.91013E 00	-3.28998E-02
27.70	1.18309E-03	-1.85569E 00	-9.50131E-02	2.95643E 01	-9.32076E-02	1.92379E 00	-3.29014E-02
27.80	1.19164E-03	-1.86915E 00	-9.59603E-02	2.95659E 01	-9.41390E-02	1.93749E 00	-3.29029E-02
27.90	1.20023E-03	-1.88266E 00	-9.69138E-02	2.95675E 01	-9.50765E-02	1.95125E 00	-3.29044E-02
28.00	1.20884E-03	-1.89622E 00	-9.78735E-02	2.95691E 01	-9.60201E-02	1.96505E 00	-3.29058E-02
28.10	1.21748E-03	-1.90983E 00	-9.88394E-02	2.95706E 01	-9.69699E-02	1.97890E 00	-3.29073E-02
28.20	1.22616E-03	-1.92349E 00	-9.98116E-02	2.95722E 01	-9.79259E-02	1.99280E 00	-3.29088E-02
28.30	1.23486E-03	-1.93719E 00	-1.00790E-01	2.95737E 01	-9.88881E-02	2.00675E 00	-3.29102E-02
28.40	1.24360E-03	-1.95094E 00	-1.01775E-01	2.95752E 01	-9.98565E-02	2.02074E 00	-3.29117E-02
28.50	1.25236E-03	-1.96474E 00	-1.02766E-01	2.95767E 01	-1.00831E-01	2.03478E 00	-3.29131E-02
28.60	1.26116E-03	-1.97859E 00	-1.03763E-01	2.95782E 01	-1.01812E-01	2.04887E 00	-3.29145E-02
28.70	1.26999E-03	-1.99248E 00	-1.04767E-01	2.95797E 01	-1.02799E-01	2.06301E 00	-3.29159E-02
28.80	1.27885E-03	-2.00642E 00	-1.05777E-01	2.95812E 01	-1.03793E-01	2.07719E 00	-3.29173E-02
28.90	1.28774E-03	-2.02041E 00	-1.06793E-01	2.95827E 01	-1.04793E-01	2.09143E 00	-3.29187E-02
29.00	1.29666E-03	-2.03445E 00	-1.07816E-01	2.95841E 01	-1.05799E-01	2.10571E 00	-3.29201E-02
29.10	1.30561E-03	-2.04854E 00	-1.08845E-01	2.95856E 01	-1.06811E-01	2.12003E 00	-3.29215E-02
29.20	1.31459E-03	-2.06267E 00	-1.09881E-01	2.95870E 01	-1.07830E-01	2.13441E 00	-3.29229E-02
29.30	1.32360E-03	-2.07685E 00	-1.10923E-01	2.95884E 01	-1.08855E-01	2.14883E 00	-3.29242E-02
29.40	1.33265E-03	-2.09108E 00	-1.11972E-01	2.95898E 01	-1.09887E-01	2.16331E 00	-3.29256E-02
29.50	1.34172E-03	-2.10536E 00	-1.13027E-01	2.95912E 01	-1.10925E-01	2.17782E 00	-3.29269E-02
29.60	1.35083E-03	-2.11968E 00	-1.14089E-01	2.95926E 01	-1.11970E-01	2.19239E 00	-3.29283E-02
29.70	1.35996E-03	-2.13406E 00	-1.15157E-01	2.95940E 01	-1.13021E-01	2.20701E 00	-3.29296E-02
29.80	1.36913E-03	-2.14848E 00	-1.16232E-01	2.95954E 01	-1.14078E-01	2.22167E 00	-3.29309E-02
29.90	1.37833E-03	-2.16294E 00	-1.17313E-01	2.95968E 01	-1.15142E-01	2.23638E 00	-3.29322E-02
30.00	1.38755E-03	-2.17746E 00	-1.18401E-01	2.95981E 01	-1.16213E-01	2.25113E 00	-3.29335E-02



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.1A^{1/3}F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
30.10	1.17927E 00	-3.15853E 01	-2.90881E 00	4.94846E-03	-2.85624E 00	3.26445E 01	-1.50855E 02			
30.20	1.17926E 00	-3.16894E 01	-2.92575E 00	4.94960E-03	-2.87293E 00	3.27485E 01	-1.50958E 02			
30.30	1.17925E 00	-3.17934E 01	-2.94273E 00	4.95071E-03	-2.88967E 00	3.28524E 01	-1.51061E 02			
30.40	1.17924E 00	-3.18974E 01	-2.95976E 00	4.95180E-03	-2.90645E 00	3.29563E 01	-1.51165E 02			
30.50	1.17923E 00	-3.20013E 01	-2.97684E 00	4.95287E-03	-2.92329E 00	3.30601E 01	-1.51267E 02			
30.60	1.17921E 00	-3.21053E 01	-2.99397E 00	4.95392E-03	-2.94017E 00	3.31639E 01	-1.51370E 02			
30.70	1.17920E 00	-3.22092E 01	-3.01114E 00	4.95494E-03	-2.95709E 00	3.32678E 01	-1.51472E 02			
30.80	1.17919E 00	-3.23131E 01	-3.02836E 00	4.95594E-03	-2.97407E 00	3.33715E 01	-1.51575E 02			
30.90	1.17918E 00	-3.24170E 01	-3.04562E 00	4.95692E-03	-2.99109E 00	3.34753E 01	-1.51677E 02			
31.00	1.17917E 00	-3.25208E 01	-3.06293E 00	4.95788E-03	-3.00815E 00	3.35791E 01	-1.51779E 02			
31.10	1.17916E 00	-3.26247E 01	-3.08029E 00	4.95881E-03	-3.02527E 00	3.36828E 01	-1.51881E 02			
31.20	1.17915E 00	-3.27285E 01	-3.09770E 00	4.95972E-03	-3.04243E 00	3.37865E 01	-1.51982E 02			
31.30	1.17914E 00	-3.28322E 01	-3.11515E 00	4.96060E-03	-3.05963E 00	3.38901E 01	-1.52084E 02			
31.40	1.17913E 00	-3.29360E 01	-3.13265E 00	4.96147E-03	-3.07689E 00	3.39938E 01	-1.52186E 02			
31.50	1.17912E 00	-3.30397E 01	-3.15019E 00	4.96231E-03	-3.09419E 00	3.40974E 01	-1.52287E 02			
31.60	1.17911E 00	-3.31435E 01	-3.16779E 00	4.96313E-03	-3.11153E 00	3.42010E 01	-1.52388E 02			
31.70	1.17910E 00	-3.32471E 01	-3.18542E 00	4.96394E-03	-3.12893E 00	3.43046E 01	-1.52489E 02			
31.80	1.17909E 00	-3.33508E 01	-3.20311E 00	4.96472E-03	-3.14637E 00	3.44082E 01	-1.52591E 02			
31.90	1.17908E 00	-3.34545E 01	-3.22084E 00	4.96548E-03	-3.16385E 00	3.45117E 01	-1.52691E 02			
32.00	1.17907E 00	-3.35581E 01	-3.23862E 00	4.96621E-03	-3.18139E 00	3.46152E 01	-1.52792E 02			
32.10	1.17906E 00	-3.36617E 01	-3.25645E 00	4.96693E-03	-3.19897E 00	3.47187E 01	-1.52893E 02			
32.20	1.17905E 00	-3.37652E 01	-3.27432E 00	4.96763E-03	-3.21659E 00	3.48222E 01	-1.52994E 02			
32.30	1.17904E 00	-3.38688E 01	-3.29223E 00	4.96830E-03	-3.23427E 00	3.49256E 01	-1.53094E 02			
32.40	1.17903E 00	-3.39723E 01	-3.31020E 00	4.96896E-03	-3.25198E 00	3.50290E 01	-1.53195E 02			
32.50	1.17902E 00	-3.40758E 01	-3.32821E 00	4.96959E-03	-3.26975E 00	3.51324E 01	-1.53295E 02			
32.60	1.17901E 00	-3.41793E 01	-3.34627E 00	4.97021E-03	-3.28756E 00	3.52358E 01	-1.53395E 02			
32.70	1.17900E 00	-3.42828E 01	-3.36437E 00	4.97080E-03	-3.30542E 00	3.53391E 01	-1.53495E 02			
32.80	1.17899E 00	-3.43862E 01	-3.38252E 00	4.97137E-03	-3.32333E 00	3.54424E 01	-1.53595E 02			
32.90	1.17898E 00	-3.44896E 01	-3.40072E 00	4.97193E-03	-3.34128E 00	3.55457E 01	-1.53695E 02			
33.00	1.17897E 00	-3.45930E 01	-3.41896E 00	4.97246E-03	-3.35928E 00	3.56490E 01	-1.53795E 02			
33.10	1.17896E 00	-3.46964E 01	-3.43725E 00	4.97297E-03	-3.37732E 00	3.57523E 01	-1.53895E 02			
33.20	1.17895E 00	-3.47997E 01	-3.45559E 00	4.97346E-03	-3.39541E 00	3.58555E 01	-1.53995E 02			
33.30	1.17894E 00	-3.49030E 01	-3.47397E 00	4.97394E-03	-3.41355E 00	3.59587E 01	-1.54094E 02			
33.40	1.17893E 00	-3.50063E 01	-3.49240E 00	4.97440E-03	-3.43174E 00	3.60619E 01	-1.54194E 02			
33.50	1.17892E 00	-3.51096E 01	-3.51088E 00	4.97484E-03	-3.44997E 00	3.61650E 01	-1.54293E 02			
33.60	1.17891E 00	-3.52128E 01	-3.52940E 00	4.97526E-03	-3.46824E 00	3.62681E 01	-1.54393E 02			
33.70	1.17890E 00	-3.53160E 01	-3.54797E 00	4.97566E-03	-3.48657E 00	3.63712E 01	-1.54492E 02			
33.80	1.17889E 00	-3.54192E 01	-3.56658E 00	4.97604E-03	-3.50494E 00	3.64743E 01	-1.54591E 02			
33.90	1.17888E 00	-3.55224E 01	-3.58524E 00	4.97641E-03	-3.52335E 00	3.65774E 01	-1.54691E 02			
34.00	1.17887E 00	-3.56255E 01	-3.60395E 00	4.97674E-03	-3.54182E 00	3.66804E 01	-1.54790E 02			
34.10	1.17886E 00	-3.57286E 01	-3.62270E 00	4.97708E-03	-3.56032E 00	3.67834E 01	-1.54889E 02			
34.20	1.17885E 00	-3.58317E 01	-3.64150E 00	4.97738E-03	-3.57888E 00	3.68864E 01	-1.54988E 02			
34.30	1.17884E 00	-3.59348E 01	-3.66035E 00	4.97768E-03	-3.59748E 00	3.69894E 01	-1.55087E 02			
34.40	1.17883E 00	-3.60379E 01	-3.67924E 00	4.97795E-03	-3.61613E 00	3.70923E 01	-1.55186E 02			
34.50	1.17883E 00	-3.61409E 01	-3.69818E 00	4.97820E-03	-3.63482E 00	3.71952E 01	-1.55285E 02			
34.60	1.17882E 00	-3.62439E 01	-3.71716E 00	4.97844E-03	-3.65356E 00	3.72981E 01	-1.55384E 02			
34.70	1.17881E 00	-3.63469E 01	-3.73619E 00	4.97865E-03	-3.67235E 00	3.74009E 01	-1.55482E 02			
34.80	1.17880E 00	-3.64498E 01	-3.75527E 00	4.97886E-03	-3.69118E 00	3.75038E 01	-1.55581E 02			
34.90	1.17879E 00	-3.65527E 01	-3.77439E 00	4.97905E-03	-3.71006E 00	3.76066E 01	-1.55680E 02			
35.00	1.17878E 00	-3.66556E 01	-3.79356E 00	4.97921E-03	-3.72899E 00	3.77094E 01	-1.55779E 02			
35.10	1.17877E 00	-3.67585E 01	-3.81278E 00	4.97935E-03	-3.74796E 00	3.78121E 01	-1.55877E 02			
35.20	1.17876E 00	-3.68614E 01	-3.83204E 00	4.97949E-03	-3.76697E 00	3.79149E 01	-1.55976E 02			
35.30	1.17875E 00	-3.69642E 01	-3.85135E 00	4.97961E-03	-3.78604E 00	3.80176E 01	-1.56074E 02			
35.40	1.17874E 00	-3.70670E 01	-3.87070E 00	4.97970E-03	-3.80515E 00	3.81203E 01	-1.56173E 02			
35.50	1.17873E 00	-3.71698E 01	-3.89010E 00	4.97978E-03	-3.82430E 00	3.82229E 01	-1.56272E 02			
35.60	1.17872E 00	-3.72725E 01	-3.90955E 00	4.97984E-03	-3.84351E 00	3.83256E 01	-1.56370E 02			
35.70	1.17871E 00	-3.73752E 01	-3.92904E 00	4.97990E-03	-3.86275E 00	3.84282E 01	-1.56469E 02			
35.80	1.17871E 00	-3.74779E 01	-3.94858E 00	4.97992E-03	-3.88205E 00	3.85307E 01	-1.56567E 02			
35.90	1.17870E 00	-3.75806E 01	-3.96816E 00	4.97994E-03	-3.90139E 00	3.86333E 01	-1.56666E 02			
36.00	1.17869E 00	-3.76833E 01	-3.98779E 00	4.97994E-03	-3.92077E 00	3.87358E 01	-1.56764E 02			

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=7$		$A=14$		$\rho=1.1 A^{1/3} F$		Electron
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
30.10	1.39681E-03	-2.19202E 00	-1.19496E-01	2.95995E 01	-1.17290E-01	2.26594E 00	-3.29348E-02	
30.20	1.40610E-03	-2.20663E 00	-1.20597E-01	2.96008E 01	-1.18374E-01	2.28079E 00	-3.29361E-02	
30.30	1.41542E-03	-2.22129E 00	-1.21705E-01	2.96021E 01	-1.19464E-01	2.29569E 00	-3.29374E-02	
30.40	1.42477E-03	-2.23600E 00	-1.22819E-01	2.96035E 01	-1.20561E-01	2.31064E 00	-3.29386E-02	
30.50	1.43416E-03	-2.25075E 00	-1.23941E-01	2.96048E 01	-1.21665E-01	2.32564E 00	-3.29399E-02	
30.60	1.44357E-03	-2.26555E 00	-1.25068E-01	2.96061E 01	-1.22775E-01	2.34068E 00	-3.29411E-02	
30.70	1.45301E-03	-2.28040E 00	-1.26203E-01	2.96074E 01	-1.23892E-01	2.35577E 00	-3.29424E-02	
30.80	1.46249E-03	-2.29530E 00	-1.27345E-01	2.96087E 01	-1.25015E-01	2.37091E 00	-3.29436E-02	
30.90	1.47199E-03	-2.31024E 00	-1.28493E-01	2.96099E 01	-1.26145E-01	2.38609E 00	-3.29449E-02	
31.00	1.48153E-03	-2.32523E 00	-1.29648E-01	2.96112E 01	-1.27282E-01	2.40133E 00	-3.29461E-02	
31.10	1.49110E-03	-2.34027E 00	-1.30810E-01	2.96125E 01	-1.28426E-01	2.41661E 00	-3.29473E-02	
31.20	1.50069E-03	-2.35536E 00	-1.31978E-01	2.96137E 01	-1.29577E-01	2.43194E 00	-3.29485E-02	
31.30	1.51032E-03	-2.37049E 00	-1.33154E-01	2.96150E 01	-1.30734E-01	2.44731E 00	-3.29497E-02	
31.40	1.51998E-03	-2.38567E 00	-1.34336E-01	2.96162E 01	-1.31898E-01	2.46274E 00	-3.29509E-02	
31.50	1.52967E-03	-2.40090E 00	-1.35525E-01	2.96174E 01	-1.33069E-01	2.47821E 00	-3.29521E-02	
31.60	1.53939E-03	-2.41618E 00	-1.36722E-01	2.96186E 01	-1.34246E-01	2.49372E 00	-3.29533E-02	
31.70	1.54914E-03	-2.43150E 00	-1.37925E-01	2.96199E 01	-1.35431E-01	2.50929E 00	-3.29544E-02	
31.80	1.55892E-03	-2.44688E 00	-1.39135E-01	2.96211E 01	-1.36623E-01	2.52490E 00	-3.29556E-02	
31.90	1.56874E-03	-2.46230E 00	-1.40352E-01	2.96223E 01	-1.37821E-01	2.54056E 00	-3.29568E-02	
32.00	1.57858E-03	-2.47776E 00	-1.41576E-01	2.96234E 01	-1.39026E-01	2.55627E 00	-3.29579E-02	
32.10	1.58845E-03	-2.49328E 00	-1.42807E-01	2.96246E 01	-1.40238E-01	2.57203E 00	-3.29591E-02	
32.20	1.59836E-03	-2.50884E 00	-1.44045E-01	2.96258E 01	-1.41458E-01	2.58783E 00	-3.29602E-02	
32.30	1.60829E-03	-2.52445E 00	-1.45290E-01	2.96270E 01	-1.42684E-01	2.60368E 00	-3.29613E-02	
32.40	1.61826E-03	-2.54010E 00	-1.46542E-01	2.96281E 01	-1.43917E-01	2.61958E 00	-3.29624E-02	
32.50	1.62826E-03	-2.55581E 00	-1.47801E-01	2.96293E 01	-1.45157E-01	2.63552E 00	-3.29636E-02	
32.60	1.63829E-03	-2.57156E 00	-1.49067E-01	2.96304E 01	-1.46404E-01	2.65151E 00	-3.29647E-02	
32.70	1.64835E-03	-2.58735E 00	-1.50341E-01	2.96316E 01	-1.47659E-01	2.66755E 00	-3.29658E-02	
32.80	1.65844E-03	-2.60320E 00	-1.51621E-01	2.96327E 01	-1.48920E-01	2.68364E 00	-3.29669E-02	
32.90	1.66856E-03	-2.61909E 00	-1.52909E-01	2.96338E 01	-1.50188E-01	2.69977E 00	-3.29680E-02	
33.00	1.67871E-03	-2.63503E 00	-1.54204E-01	2.96349E 01	-1.51464E-01	2.71596E 00	-3.29691E-02	
33.10	1.68889E-03	-2.65102E 00	-1.55506E-01	2.96360E 01	-1.52746E-01	2.73218E 00	-3.29701E-02	
33.20	1.69910E-03	-2.66706E 00	-1.56815E-01	2.96371E 01	-1.54036E-01	2.74846E 00	-3.29712E-02	
33.30	1.70935E-03	-2.68314E 00	-1.58132E-01	2.96382E 01	-1.55333E-01	2.76478E 00	-3.29723E-02	
33.40	1.71962E-03	-2.69927E 00	-1.59456E-01	2.96393E 01	-1.56637E-01	2.78115E 00	-3.29733E-02	
33.50	1.72992E-03	-2.71545E 00	-1.60787E-01	2.96404E 01	-1.57949E-01	2.79757E 00	-3.29744E-02	
33.60	1.74026E-03	-2.73167E 00	-1.62125E-01	2.96415E 01	-1.59267E-01	2.81404E 00	-3.29754E-02	
33.70	1.75063E-03	-2.74794E 00	-1.63471E-01	2.96425E 01	-1.60593E-01	2.83055E 00	-3.29765E-02	
33.80	1.76102E-03	-2.76426E 00	-1.64824E-01	2.96436E 01	-1.61926E-01	2.84711E 00	-3.29775E-02	
33.90	1.77145E-03	-2.78063E 00	-1.66184E-01	2.96446E 01	-1.63267E-01	2.86372E 00	-3.29786E-02	
34.00	1.78191E-03	-2.79704E 00	-1.67552E-01	2.96457E 01	-1.64614E-01	2.88037E 00	-3.29796E-02	
34.10	1.79240E-03	-2.81350E 00	-1.68927E-01	2.96467E 01	-1.65969E-01	2.89707E 00	-3.29806E-02	
34.20	1.80292E-03	-2.83001E 00	-1.70310E-01	2.96478E 01	-1.67332E-01	2.91382E 00	-3.29816E-02	
34.30	1.81347E-03	-2.84656E 00	-1.71699E-01	2.96488E 01	-1.68702E-01	2.93061E 00	-3.29826E-02	
34.40	1.82405E-03	-2.86316E 00	-1.73097E-01	2.96498E 01	-1.70079E-01	2.94746E 00	-3.29836E-02	
34.50	1.83467E-03	-2.87981E 00	-1.74502E-01	2.96508E 01	-1.71463E-01	2.96435E 00	-3.29846E-02	
34.60	1.84531E-03	-2.89651E 00	-1.75914E-01	2.96518E 01	-1.72855E-01	2.98128E 00	-3.29856E-02	
34.70	1.85598E-03	-2.91325E 00	-1.77334E-01	2.96528E 01	-1.74254E-01	2.99827E 00	-3.29866E-02	
34.80	1.86669E-03	-2.93004E 00	-1.78761E-01	2.96539E 01	-1.75661E-01	3.01530E 00	-3.29876E-02	
34.90	1.87743E-03	-2.94688E 00	-1.80196E-01	2.96548E 01	-1.77076E-01	3.03238E 00	-3.29886E-02	
35.00	1.88819E-03	-2.96377E 00	-1.81639E-01	2.96558E 01	-1.78497E-01	3.04950E 00	-3.29895E-02	
35.10	1.89899E-03	-2.98070E 00	-1.83089E-01	2.96568E 01	-1.79927E-01	3.06667E 00	-3.29905E-02	
35.20	1.90982E-03	-2.99768E 00	-1.84546E-01	2.96578E 01	-1.81363E-01	3.08389E 00	-3.29915E-02	
35.30	1.92068E-03	-3.01470E 00	-1.86012E-01	2.96588E 01	-1.82808E-01	3.10116E 00	-3.29924E-02	
35.40	1.93157E-03	-3.03178E 00	-1.87485E-01	2.96597E 01	-1.84260E-01	3.11847E 00	-3.29934E-02	
35.50	1.94249E-03	-3.04890E 00	-1.88965E-01	2.96607E 01	-1.85719E-01	3.13583E 00	-3.29943E-02	
35.60	1.95344E-03	-3.06606E 00	-1.90453E-01	2.96616E 01	-1.87187E-01	3.15324E 00	-3.29953E-02	
35.70	1.96442E-03	-3.08328E 00	-1.91949E-01	2.96626E 01	-1.88661E-01	3.17069E 00	-3.29962E-02	
35.80	1.97543E-03	-3.10054E 00	-1.93453E-01	2.96635E 01	-1.90144E-01	3.18819E 00	-3.29971E-02	
35.90	1.98648E-03	-3.11785E 00	-1.94964E-01	2.96644E 01	-1.91634E-01	3.20574E 00	-3.29981E-02	
36.00	1.99755E-03	-3.13520E 00	-1.96483E-01	2.96654E 01	-1.93132E-01	3.22334E 00	-3.29990E-02	



## ELECTRON RADIAL FUNCTIONS

Electron	$Z=7$		$A=14$		$\rho=1.1 A^{1/3} F$					
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$			
36.10	1.17868E 00	-3.77859E 01	-4.00747E 00	4.97992E-03	-3.94021E 00	3.88383E 01	-1.56863E 02			
36.20	1.17867E 00	-3.78885E 01	-4.02719E 00	4.97989E-03	-3.95969E 00	3.89408E 01	-1.56961E 02			
36.30	1.17866E 00	-3.79911E 01	-4.04696E 00	4.97984E-03	-3.97921E 00	3.90433E 01	-1.57059E 02			
36.40	1.17865E 00	-3.80936E 01	-4.06677E 00	4.97978E-03	-3.99878E 00	3.91457E 01	-1.57158E 02			
36.50	1.17864E 00	-3.81961E 01	-4.08663E 00	4.97969E-03	-4.01840E 00	3.92481E 01	-1.57256E 02			
36.60	1.17863E 00	-3.82986E 01	-4.10654E 00	4.97960E-03	-4.03806E 00	3.93505E 01	-1.57354E 02			
36.70	1.17863E 00	-3.84011E 01	-4.12649E 00	4.97947E-03	-4.05777E 00	3.94529E 01	-1.57453E 02			
36.80	1.17862E 00	-3.85036E 01	-4.14649E 00	4.97935E-03	-4.07752E 00	3.95552E 01	-1.57551E 02			
36.90	1.17861E 00	-3.86060E 01	-4.16653E 00	4.97920E-03	-4.09732E 00	3.96575E 01	-1.57650E 02			
37.00	1.17860E 00	-3.87084E 01	-4.18662E 00	4.97905E-03	-4.11717E 00	3.97598E 01	-1.57748E 02			
37.10	1.17859E 00	-3.88107E 01	-4.20676E 00	4.97887E-03	-4.13706E 00	3.98620E 01	-1.57846E 02			
37.20	1.17858E 00	-3.89131E 01	-4.22694E 00	4.97868E-03	-4.15700E 00	3.99643E 01	-1.57945E 02			
37.30	1.17857E 00	-3.90154E 01	-4.24717E 00	4.97847E-03	-4.17698E 00	4.00664E 01	-1.58043E 02			
37.40	1.17856E 00	-3.91177E 01	-4.26744E 00	4.97825E-03	-4.19701E 00	4.01686E 01	-1.58141E 02			
37.50	1.17856E 00	-3.92200E 01	-4.28776E 00	4.97802E-03	-4.21708E 00	4.02708E 01	-1.58240E 02			
37.60	1.17855E 00	-3.93222E 01	-4.30812E 00	4.97777E-03	-4.23720E 00	4.03729E 01	-1.58338E 02			
37.70	1.17854E 00	-3.94244E 01	-4.32853E 00	4.97750E-03	-4.25737E 00	4.04750E 01	-1.58437E 02			
37.80	1.17853E 00	-3.95266E 01	-4.34899E 00	4.97722E-03	-4.27758E 00	4.05770E 01	-1.58535E 02			
37.90	1.17852E 00	-3.96288E 01	-4.36949E 00	4.97692E-03	-4.29784E 00	4.06791E 01	-1.58634E 02			
38.00	1.17851E 00	-3.97309E 01	-4.39004E 00	4.97661E-03	-4.31815E 00	4.07811E 01	-1.58732E 02			
38.10	1.17850E 00	-3.98330E 01	-4.41063E 00	4.97629E-03	-4.33849E 00	4.08831E 01	-1.58831E 02			
38.20	1.17850E 00	-3.99351E 01	-4.43127E 00	4.97595E-03	-4.35889E 00	4.09851E 01	-1.58929E 02			
38.30	1.17849E 00	-4.00372E 01	-4.45196E 00	4.97559E-03	-4.37933E 00	4.10870E 01	-1.59028E 02			
38.40	1.17848E 00	-4.01392E 01	-4.47269E 00	4.97522E-03	-4.39982E 00	4.11889E 01	-1.59126E 02			
38.50	1.17847E 00	-4.02412E 01	-4.49346E 00	4.97483E-03	-4.42035E 00	4.12908E 01	-1.59225E 02			
38.60	1.17846E 00	-4.03432E 01	-4.51428E 00	4.97445E-03	-4.44093E 00	4.13927E 01	-1.59323E 02			
38.70	1.17846E 00	-4.04451E 01	-4.53515E 00	4.97403E-03	-4.46155E 00	4.14945E 01	-1.59422E 02			
38.80	1.17845E 00	-4.05471E 01	-4.55606E 00	4.97361E-03	-4.48222E 00	4.15963E 01	-1.59521E 02			
38.90	1.17844E 00	-4.06490E 01	-4.57702E 00	4.97317E-03	-4.50294E 00	4.16981E 01	-1.59620E 02			
39.00	1.17843E 00	-4.07508E 01	-4.59803E 00	4.97272E-03	-4.52370E 00	4.17998E 01	-1.59718E 02			
39.10	1.17842E 00	-4.08527E 01	-4.61908E 00	4.97225E-03	-4.54451E 00	4.19016E 01	-1.59817E 02			
39.20	1.17841E 00	-4.09545E 01	-4.64017E 00	4.97177E-03	-4.56536E 00	4.20033E 01	-1.59916E 02			
39.30	1.17841E 00	-4.10563E 01	-4.66131E 00	4.97127E-03	-4.58626E 00	4.21049E 01	-1.60015E 02			
39.40	1.17840E 00	-4.11581E 01	-4.68250E 00	4.97076E-03	-4.60720E 00	4.22066E 01	-1.60114E 02			
39.50	1.17839E 00	-4.12598E 01	-4.70373E 00	4.97024E-03	-4.62819E 00	4.23082E 01	-1.60213E 02			
39.60	1.17838E 00	-4.13615E 01	-4.72501E 00	4.96970E-03	-4.64922E 00	4.24098E 01	-1.60312E 02			
39.70	1.17837E 00	-4.14632E 01	-4.74633E 00	4.96916E-03	-4.67030E 00	4.25114E 01	-1.60411E 02			
39.80	1.17837E 00	-4.15649E 01	-4.76770E 00	4.96860E-03	-4.69143E 00	4.26129E 01	-1.60510E 02			
39.90	1.17836E 00	-4.16665E 01	-4.78911E 00	4.96801E-03	-4.71260E 00	4.27144E 01	-1.60609E 02			
40.00	1.17835E 00	-4.17681E 01	-4.81057E 00	4.96742E-03	-4.73381E 00	4.28159E 01	-1.60709E 02			
40.10	1.17834E 00	-4.18697E 01	-4.83207E 00	4.96682E-03	-4.75508E 00	4.29173E 01	-1.60808E 02			
40.20	1.17833E 00	-4.19712E 01	-4.85362E 00	4.96620E-03	-4.77638E 00	4.30188E 01	-1.60907E 02			
40.30	1.17833E 00	-4.20728E 01	-4.87522E 00	4.96557E-03	-4.79774E 00	4.31202E 01	-1.61007E 02			
40.40	1.17832E 00	-4.21743E 01	-4.89686E 00	4.96493E-03	-4.81913E 00	4.32216E 01	-1.61106E 02			
40.50	1.17831E 00	-4.22757E 01	-4.91855E 00	4.96428E-03	-4.84058E 00	4.33229E 01	-1.61205E 02			
40.60	1.17830E 00	-4.23772E 01	-4.94028E 00	4.96361E-03	-4.86207E 00	4.34242E 01	-1.61305E 02			
40.70	1.17829E 00	-4.24786E 01	-4.96205E 00	4.96293E-03	-4.88360E 00	4.35255E 01	-1.61405E 02			
40.80	1.17829E 00	-4.25800E 01	-4.98388E 00	4.96223E-03	-4.90518E 00	4.36268E 01	-1.61504E 02			
40.90	1.17828E 00	-4.26814E 01	-5.00574E 00	4.96153E-03	-4.92680E 00	4.37280E 01	-1.61604E 02			
41.00	1.17827E 00	-4.27827E 01	-5.02766E 00	4.96081E-03	-4.94847E 00	4.38292E 01	-1.61704E 02			
41.10	1.17826E 00	-4.28840E 01	-5.04961E 00	4.96007E-03	-4.97019E 00	4.39304E 01	-1.61804E 02			
41.20	1.17826E 00	-4.29853E 01	-5.07162E 00	4.95933E-03	-4.99195E 00	4.40316E 01	-1.61904E 02			
41.30	1.17825E 00	-4.30865E 01	-5.09366E 00	4.95857E-03	-5.01376E 00	4.41327E 01	-1.62004E 02			
41.40	1.17824E 00	-4.31878E 01	-5.11576E 00	4.95780E-03	-5.03561E 00	4.42338E 01	-1.62104E 02			
41.50	1.17823E 00	-4.32890E 01	-5.13790E 00	4.95702E-03	-5.05750E 00	4.43349E 01	-1.62204E 02			
41.60	1.17822E 00	-4.33901E 01	-5.16008E 00	4.95622E-03	-5.07944E 00	4.44359E 01	-1.62304E 02			
41.70	1.17822E 00	-4.34913E 01	-5.18231E 00	4.95541E-03	-5.10143E 00	4.45369E 01	-1.62405E 02			
41.80	1.17821E 00	-4.35924E 01	-5.20458E 00	4.95460E-03	-5.12346E 00	4.46379E 01	-1.62505E 02			
41.90	1.17820E 00	-4.36935E 01	-5.22690E 00	4.95376E-03	-5.14554E 00	4.47389E 01	-1.62606E 02			
42.00	1.17819E 00	-4.37945E 01	-5.24927E 00	4.95291E-03	-5.16766E 00	4.48398E 01	-1.62706E 02			

## ELECTRON RADIAL FUNCTIONS

 $Z=7$  $A=14$  $\rho=1.1 A^{1/3} F$ 

Electron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
36.10	2.00866E-03	-3.15260E 00	-1.98010E-01	2.96663E 01	-1.94637E-01	3.24098E 00	-3.29999E-02
36.20	2.01979E-03	-3.17005E 00	-1.99545E-01	2.96672E 01	-1.96150E-01	3.25867E 00	-3.30008E-02
36.30	2.03096E-03	-3.18755E 00	-2.01088E-01	2.96681E 01	-1.97671E-01	3.27641E 00	-3.30017E-02
36.40	2.04215E-03	-3.20509E 00	-2.02638E-01	2.96691E 01	-1.99200E-01	3.29419E 00	-3.30026E-02
36.50	2.05338E-03	-3.22268E 00	-2.04196E-01	2.96700E 01	-2.00737E-01	3.31202E 00	-3.30035E-02
36.60	2.06464E-03	-3.24032E 00	-2.05762E-01	2.96709E 01	-2.02281E-01	3.32989E 00	-3.30044E-02
36.70	2.07593E-03	-3.25800E 00	-2.07336E-01	2.96718E 01	-2.03833E-01	3.34782E 00	-3.30053E-02
36.80	2.08725E-03	-3.27573E 00	-2.08918E-01	2.96726E 01	-2.05393E-01	3.36579E 00	-3.30062E-02
36.90	2.09860E-03	-3.29351E 00	-2.10508E-01	2.96735E 01	-2.06961E-01	3.38380E 00	-3.30070E-02
37.00	2.10998E-03	-3.31133E 00	-2.12105E-01	2.96744E 01	-2.08536E-01	3.40187E 00	-3.30079E-02
37.10	2.12140E-03	-3.32921E 00	-2.13711E-01	2.96753E 01	-2.10120E-01	3.41998E 00	-3.30088E-02
37.20	2.13284E-03	-3.34712E 00	-2.15325E-01	2.96761E 01	-2.11712E-01	3.43814E 00	-3.30097E-02
37.30	2.14431E-03	-3.36509E 00	-2.16946E-01	2.96770E 01	-2.13311E-01	3.45634E 00	-3.30105E-02
37.40	2.15582E-03	-3.38310E 00	-2.18576E-01	2.96779E 01	-2.14918E-01	3.47459E 00	-3.30114E-02
37.50	2.16736E-03	-3.40116E 00	-2.20214E-01	2.96787E 01	-2.16534E-01	3.49289E 00	-3.30122E-02
37.60	2.17892E-03	-3.41926E 00	-2.21859E-01	2.96796E 01	-2.18157E-01	3.51123E 00	-3.30131E-02
37.70	2.19052E-03	-3.43742E 00	-2.23513E-01	2.96804E 01	-2.19788E-01	3.52963E 00	-3.30139E-02
37.80	2.20215E-03	-3.45561E 00	-2.25175E-01	2.96813E 01	-2.21428E-01	3.54806E 00	-3.30148E-02
37.90	2.21381E-03	-3.47386E 00	-2.26845E-01	2.96821E 01	-2.23075E-01	3.56655E 00	-3.30156E-02
38.00	2.22549E-03	-3.49215E 00	-2.28523E-01	2.96829E 01	-2.24731E-01	3.58508E 00	-3.30164E-02
38.10	2.23721E-03	-3.51049E 00	-2.30210E-01	2.96838E 01	-2.26394E-01	3.60366E 00	-3.30173E-02
38.20	2.24897E-03	-3.52888E 00	-2.31904E-01	2.96846E 01	-2.28066E-01	3.62228E 00	-3.30181E-02
38.30	2.26075E-03	-3.54731E 00	-2.33607E-01	2.96854E 01	-2.29746E-01	3.64095E 00	-3.30189E-02
38.40	2.27256E-03	-3.56579E 00	-2.35318E-01	2.96862E 01	-2.31434E-01	3.65967E 00	-3.30197E-02
38.50	2.28440E-03	-3.58431E 00	-2.37037E-01	2.96870E 01	-2.33130E-01	3.67844E 00	-3.30205E-02
38.60	2.29628E-03	-3.60288E 00	-2.38764E-01	2.96878E 01	-2.34834E-01	3.69725E 00	-3.30213E-02
38.70	2.30818E-03	-3.62150E 00	-2.40500E-01	2.96886E 01	-2.36547E-01	3.71611E 00	-3.30221E-02
38.80	2.32012E-03	-3.64017E 00	-2.42244E-01	2.96894E 01	-2.38267E-01	3.73501E 00	-3.30229E-02
38.90	2.33208E-03	-3.65888E 00	-2.43996E-01	2.96902E 01	-2.39996E-01	3.75396E 00	-3.30237E-02
39.00	2.34408E-03	-3.67764E 00	-2.45756E-01	2.96910E 01	-2.41733E-01	3.77296E 00	-3.30245E-02
39.10	2.35611E-03	-3.69645E 00	-2.47525E-01	2.96918E 01	-2.43479E-01	3.79200E 00	-3.30253E-02
39.20	2.36817E-03	-3.71530E 00	-2.49302E-01	2.96926E 01	-2.45233E-01	3.81109E 00	-3.30261E-02
39.30	2.38026E-03	-3.73420E 00	-2.51088E-01	2.96933E 01	-2.46995E-01	3.83023E 00	-3.30269E-02
39.40	2.39238E-03	-3.75314E 00	-2.52882E-01	2.96941E 01	-2.48765E-01	3.84942E 00	-3.30277E-02
39.50	2.40453E-03	-3.77213E 00	-2.54684E-01	2.96949E 01	-2.50544E-01	3.86865E 00	-3.30284E-02
39.60	2.41671E-03	-3.79117E 00	-2.56495E-01	2.96956E 01	-2.52331E-01	3.88792E 00	-3.30292E-02
39.70	2.42892E-03	-3.81026E 00	-2.58314E-01	2.96964E 01	-2.54126E-01	3.90725E 00	-3.30300E-02
39.80	2.44116E-03	-3.82939E 00	-2.60142E-01	2.96972E 01	-2.55930E-01	3.92661E 00	-3.30307E-02
39.90	2.45344E-03	-3.84856E 00	-2.61978E-01	2.96979E 01	-2.57743E-01	3.94603E 00	-3.30315E-02
40.00	2.46574E-03	-3.86779E 00	-2.63823E-01	2.96987E 01	-2.59563E-01	3.96549E 00	-3.30322E-02
40.10	2.47808E-03	-3.88706E 00	-2.65676E-01	2.96994E 01	-2.61393E-01	3.98500E 00	-3.30330E-02
40.20	2.49045E-03	-3.90638E 00	-2.67538E-01	2.97001E 01	-2.63230E-01	4.00456E 00	-3.30337E-02
40.30	2.50284E-03	-3.92574E 00	-2.69409E-01	2.97009E 01	-2.65077E-01	4.02416E 00	-3.30345E-02
40.40	2.51527E-03	-3.94515E 00	-2.71288E-01	2.97016E 01	-2.66931E-01	4.04381E 00	-3.30352E-02
40.50	2.52773E-03	-3.96460E 00	-2.73175E-01	2.97023E 01	-2.68795E-01	4.06350E 00	-3.30360E-02
40.60	2.54022E-03	-3.98411E 00	-2.75071E-01	2.97031E 01	-2.70666E-01	4.08324E 00	-3.30367E-02
40.70	2.55274E-03	-4.00366E 00	-2.76976E-01	2.97038E 01	-2.72547E-01	4.10303E 00	-3.30374E-02
40.80	2.56529E-03	-4.02325E 00	-2.78890E-01	2.97045E 01	-2.74436E-01	4.12286E 00	-3.30382E-02
40.90	2.57787E-03	-4.04289E 00	-2.80812E-01	2.97052E 01	-2.76333E-01	4.14274E 00	-3.30389E-02
41.00	2.59048E-03	-4.06258E 00	-2.82743E-01	2.97059E 01	-2.78240E-01	4.16267E 00	-3.30396E-02
41.10	2.60313E-03	-4.08232E 00	-2.84682E-01	2.97066E 01	-2.80154E-01	4.18264E 00	-3.30403E-02
41.20	2.61580E-03	-4.10210E 00	-2.86631E-01	2.97073E 01	-2.82078E-01	4.20266E 00	-3.30410E-02
41.30	2.62850E-03	-4.12192E 00	-2.88588E-01	2.97080E 01	-2.84010E-01	4.22273E 00	-3.30418E-02
41.40	2.64124E-03	-4.14180E 00	-2.90554E-01	2.97087E 01	-2.85951E-01	4.24284E 00	-3.30425E-02
41.50	2.65401E-03	-4.16172E 00	-2.92528E-01	2.97094E 01	-2.87901E-01	4.26299E 00	-3.30432E-02
41.60	2.66680E-03	-4.18168E 00	-2.94512E-01	2.97101E 01	-2.89859E-01	4.28320E 00	-3.30439E-02
41.70	2.67963E-03	-4.20169E 00	-2.96504E-01	2.97108E 01	-2.91826E-01	4.30345E 00	-3.30446E-02
41.80	2.69249E-03	-4.22175E 00	-2.98505E-01	2.97115E 01	-2.93802E-01	4.32374E 00	-3.30453E-02
41.90	2.70538E-03	-4.24186E 00	-3.00515E-01	2.97121E 01	-2.95787E-01	4.34409E 00	-3.30459E-02
42.00	2.71830E-03	-4.26201E 00	-3.02534E-01	2.97128E 01	-2.97781E-01	4.36447E 00	-3.30466E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6$	$A=12$	$\rho=1.1 A^{1/3} F$				
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
0.10	1.89053E-01	3.32832E-03	-4.37908E-05	1.94195E-01	1.07486E-03	6.14020E-02	4.45327E 00
0.20	4.64816E-01	1.94304E-02	-2.55021E-04	9.46184E-02	3.35239E-03	1.91860E-01	8.21152E 00
0.30	6.05701E-01	4.84339E-02	-6.33135E-04	6.29416E-02	5.69007E-03	3.26633E-01	1.21580E 01
0.40	6.84935E-01	8.90432E-02	-1.15759E-03	4.72058E-02	7.97416E-03	4.59642E-01	1.61461E 01
0.50	7.34170E-01	1.39720E-01	-1.80395E-03	3.77508E-02	1.01758E-02	5.89580E-01	2.01396E 01
0.60	7.66973E-01	1.98881E-01	-2.54697E-03	3.14202E-02	1.22838E-02	7.16059E-01	2.41206E 01
0.70	7.89945E-01	2.65037E-01	-3.36280E-03	2.68731E-02	1.42945E-02	8.39062E-01	2.80775E 01
0.80	8.06645E-01	3.36859E-01	-4.23014E-03	2.34419E-02	1.62087E-02	9.58763E-01	3.20019E 01
0.90	8.19145E-01	4.13220E-01	-5.13088E-03	2.07564E-02	1.80297E-02	1.07543E 00	3.58881E 01
1.00	8.28726E-01	4.93190E-01	-6.05001E-03	1.85947E-02	1.97620E-02	1.18939E 00	3.97318E 01
1.10	8.36214E-01	5.76015E-01	-6.97535E-03	1.68156E-02	2.14106E-02	1.30094E 00	4.35300E 01
1.20	8.42166E-01	6.61098E-01	-7.89722E-03	1.53245E-02	2.29806E-02	1.41039E 00	4.72809E 01
1.30	8.46966E-01	7.47966E-01	-8.80792E-03	1.40562E-02	2.44764E-02	1.51801E 00	5.09831E 01
1.40	8.50885E-01	8.36247E-01	-9.70140E-03	1.29637E-02	2.59025E-02	1.62406E 00	5.46358E 01
1.50	8.54121E-01	9.25650E-01	-1.05729E-02	1.20124E-02	2.72625E-02	1.72873E 00	5.82389E 01
1.60	8.56820E-01	1.01595E 00	-1.14186E-02	1.11765E-02	2.85597E-02	1.83222E 00	6.17922E 01
1.70	8.59091E-01	1.10696E 00	-1.22357E-02	1.04360E-02	2.97971E-02	1.93468E 00	6.52960E 01
1.80	8.61017E-01	1.19854E 00	-1.30217E-02	9.77535E-03	3.09770E-02	2.03625E 00	6.87507E 01
1.90	8.62663E-01	1.29058E 00	-1.37749E-02	9.18222E-03	3.21015E-02	2.13704E 00	7.21569E 01
2.00	8.64078E-01	1.38300E 00	-1.44937E-02	8.64670E-03	3.31726E-02	2.23716E 00	7.55152E 01
2.10	8.65303E-01	1.47572E 00	-1.51770E-02	8.16077E-03	3.41916E-02	2.33668E 00	7.88262E 01
2.20	8.66368E-01	1.56868E 00	-1.58238E-02	7.71779E-03	3.51601E-02	2.43569E 00	8.20905E 01
2.30	8.67300E-01	1.66185E 00	-1.64334E-02	7.31230E-03	3.60791E-02	2.53423E 00	8.53092E 01
2.40	8.68118E-01	1.75518E 00	-1.70052E-02	6.93972E-03	3.69496E-02	2.63238E 00	8.84828E 01
2.50	8.68840E-01	1.84864E 00	-1.75385E-02	6.59618E-03	3.77725E-02	2.73016E 00	9.16123E 01
2.60	8.69479E-01	1.94221E 00	-1.80331E-02	6.27842E-03	3.85486E-02	2.82763E 00	9.46984E 01
2.70	8.70047E-01	2.03588E 00	-1.84886E-02	5.98362E-03	3.92784E-02	2.92481E 00	9.77419E 01
2.80	8.70554E-01	2.12962E 00	-1.89048E-02	5.70938E-03	3.99627E-02	3.02174E 00	1.00744E 02
2.90	8.71008E-01	2.22342E 00	-1.92813E-02	5.45362E-03	4.06017E-02	3.11844E 00	1.03704E 02
3.00	8.71415E-01	2.31728E 00	-1.96180E-02	5.21452E-03	4.11961E-02	3.21494E 00	1.06625E 02
3.10	8.71781E-01	2.41117E 00	-1.99148E-02	4.99052E-03	4.17461E-02	3.31126E 00	1.09506E 02
3.20	8.72112E-01	2.50511E 00	-2.01715E-02	4.78022E-03	4.22522E-02	3.40741E 00	1.12349E 02
3.30	8.72411E-01	2.59907E 00	-2.03880E-02	4.58240E-03	4.27145E-02	3.50341E 00	1.15153E 02
3.40	8.72681E-01	2.69305E 00	-2.05641E-02	4.39599E-03	4.31334E-02	3.59928E 00	1.17921E 02
3.50	8.72927E-01	2.78706E 00	-2.07000E-02	4.22001E-03	4.35092E-02	3.69502E 00	1.20651E 02
3.60	8.73151E-01	2.88108E 00	-2.07953E-02	4.05364E-03	4.38419E-02	3.79065E 00	1.23347E 02
3.70	8.73355E-01	2.97512E 00	-2.08502E-02	3.89608E-03	4.41319E-02	3.88618E 00	1.26007E 02
3.80	8.73540E-01	3.06916E 00	-2.08646E-02	3.74667E-03	4.43791E-02	3.98162E 00	1.28633E 02
3.90	8.73710E-01	3.16322E 00	-2.08383E-02	3.60479E-03	4.45840E-02	4.07697E 00	1.31225E 02
4.00	8.73866E-01	3.25729E 00	-2.07715E-02	3.46988E-03	4.47464E-02	4.17224E 00	1.33784E 02
4.10	8.74009E-01	3.35135E 00	-2.06640E-02	3.34144E-03	4.48667E-02	4.26744E 00	1.36310E 02
4.20	8.74140E-01	3.44543E 00	-2.05158E-02	3.21903E-03	4.49448E-02	4.36258E 00	1.38805E 02
4.30	8.74260E-01	3.53951E 00	-2.03269E-02	3.10221E-03	4.49809E-02	4.45765E 00	1.41269E 02
4.40	8.74371E-01	3.63359E 00	-2.00973E-02	2.99063E-03	4.49750E-02	4.55268E 00	1.43702E 02
4.50	8.74472E-01	3.72768E 00	-1.98270E-02	2.88393E-03	4.49274E-02	4.64765E 00	1.46105E 02
4.60	8.74566E-01	3.82177E 00	-1.95159E-02	2.78180E-03	4.48379E-02	4.74257E 00	1.48478E 02
4.70	8.74652E-01	3.91586E 00	-1.91641E-02	2.68396E-03	4.47067E-02	4.83745E 00	1.50823E 02
4.80	8.74732E-01	4.00995E 00	-1.87715E-02	2.59014E-03	4.45339E-02	4.93229E 00	1.53139E 02
4.90	8.74806E-01	4.10405E 00	-1.83381E-02	2.50011E-03	4.43194E-02	5.02709E 00	1.55427E 02
5.00	8.74873E-01	4.19814E 00	-1.78640E-02	2.41363E-03	4.40634E-02	5.12186E 00	1.57689E 02
5.10	8.74936E-01	4.29224E 00	-1.73490E-02	2.33049E-03	4.37659E-02	5.21660E 00	1.59923E 02
5.20	8.74994E-01	4.38633E 00	-1.67932E-02	2.25053E-03	4.34270E-02	5.31131E 00	1.62131E 02
5.30	8.75048E-01	4.48043E 00	-1.61967E-02	2.17353E-03	4.30466E-02	5.40600E 00	1.64312E 02
5.40	8.75097E-01	4.57453E 00	-1.55592E-02	2.09937E-03	4.26249E-02	5.50065E 00	1.66469E 02
5.50	8.75143E-01	4.66863E 00	-1.48810E-02	2.02787E-03	4.21618E-02	5.59529E 00	1.68601E 02
5.60	8.75186E-01	4.76273E 00	-1.41620E-02	1.95890E-03	4.16573E-02	5.68991E 00	1.70708E 02
5.70	8.75225E-01	4.85684E 00	-1.34021E-02	1.89233E-03	4.11116E-02	5.78451E 00	1.72791E 02
5.80	8.75261E-01	4.95094E 00	-1.26014E-02	1.82803E-03	4.05246E-02	5.87908E 00	1.74850E 02
5.90	8.75294E-01	5.04504E 00	-1.17598E-02	1.76589E-03	3.98963E-02	5.97365E 00	1.76887E 02
6.00	8.75325E-01	5.13915E 00	-1.08774E-02	1.70581E-03	3.92268E-02	6.06820E 00	1.78900E 02

## ELECTRON RADIAL FUNCTIONS

	$Z=6$	$A=12$	$\rho=1.1 A^{1/3} F$			Positron		
$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
0.10	2.64424E-09	7.30867E-07	-5.40333E-09	-2.31124E 00	1.45292E-07	1.45266E-05	1.95249E-01	
0.20	2.28822E-08	8.45200E-06	-6.23226E-08	-4.78710E 00	8.50065E-07	8.51557E-05	9.72093E-02	
0.30	6.54104E-08	3.15469E-05	-2.31621E-07	-7.10542E 00	2.13665E-06	2.14720E-04	6.70738E-02	
0.40	1.30333E-07	7.72869E-05	-5.64121E-07	-9.27020E 00	3.97388E-06	4.01085E-04	5.28294E-02	
0.50	2.17400E-07	1.51558E-04	-1.09813E-06	-1.12671E 01	6.32427E-06	6.41776E-04	4.47948E-02	
0.60	3.26339E-07	2.58855E-04	-1.85929E-06	-1.30887E 01	9.14844E-06	9.34324E-04	3.98031E-02	
0.70	4.56913E-07	4.02439E-04	-2.86202E-06	-1.47360E 01	1.24079E-05	1.27647E-03	3.65085E-02	
0.80	6.08922E-07	5.84561E-04	-4.11149E-06	-1.62163E 01	1.60664E-05	1.66626E-03	3.42428E-02	
0.90	7.82207E-07	8.06710E-04	-5.60584E-06	-1.75413E 01	2.00911E-05	2.10207E-03	3.26379E-02	
1.00	9.76642E-07	1.06982E-03	-7.33812E-06	-1.87247E 01	2.44522E-05	2.58263E-03	3.14759E-02	
1.10	1.19213E-06	1.37445E-03	-9.29784E-06	-1.97809E 01	2.91226E-05	3.10690E-03	3.06205E-02	
1.20	1.42859E-06	1.72090E-03	-1.14721E-05	-2.07240E 01	3.40778E-05	3.67412E-03	2.99828E-02	
1.30	1.68596E-06	2.10931E-03	-1.38466E-05	-2.15673E 01	3.92953E-05	4.28369E-03	2.95303E-02	
1.40	1.96420E-06	2.53972E-03	-1.64058E-05	-2.23226E 01	4.47541E-05	4.93515E-03	2.91396E-02	
1.50	2.26325E-06	3.01207E-03	-1.91337E-05	-2.30007E 01	5.04344E-05	5.62817E-03	2.88634E-02	
1.60	2.58311E-06	3.52634E-03	-2.20139E-05	-2.36111E 01	5.63174E-05	6.36250E-03	2.86533E-02	
1.70	2.92374E-06	4.08241E-03	-2.50300E-05	-2.41621E 01	6.23850E-05	7.13795E-03	2.84938E-02	
1.80	3.28512E-06	4.68022E-03	-2.81652E-05	-2.46609E 01	6.86195E-05	7.95437E-03	2.83734E-02	
1.90	3.66724E-06	5.31967E-03	-3.14029E-05	-2.51136E 01	7.50039E-05	8.81166E-03	2.82835E-02	
2.00	4.07008E-06	6.00068E-03	-3.47265E-05	-2.55258E 01	8.15213E-05	9.70974E-03	2.82175E-02	
2.10	4.49363E-06	6.72316E-03	-3.81194E-05	-2.59021E 01	8.81550E-05	1.06486E-02	2.81704E-02	
2.20	4.93788E-06	7.48704E-03	-4.15650E-05	-2.62465E 01	9.48885E-05	1.16280E-02	2.81383E-02	
2.30	5.40284E-06	8.29225E-03	-4.50468E-05	-2.65627E 01	1.01706E-04	1.26482E-02	2.81180E-02	
2.40	5.88848E-06	9.13874E-03	-4.85484E-05	-2.68537E 01	1.08590E-04	1.37090E-02	2.81072E-02	
2.50	6.39481E-06	1.00264E-02	-5.20533E-05	-2.71221E 01	1.15526E-04	1.48104E-02	2.81040E-02	
2.60	6.92181E-06	1.09553E-02	-5.55453E-05	-2.73703E 01	1.22497E-04	1.59525E-02	2.81069E-02	
2.70	7.46950E-06	1.19253E-02	-5.90080E-05	-2.76003E 01	1.29487E-04	1.71351E-02	2.81146E-02	
2.80	8.03785E-06	1.29364E-02	-6.24251E-05	-2.78140E 01	1.36480E-04	1.83583E-02	2.81262E-02	
2.90	8.62688E-06	1.39885E-02	-6.57804E-05	-2.80129E 01	1.43461E-04	1.96222E-02	2.81409E-02	
3.00	9.23657E-06	1.50816E-02	-6.90576E-05	-2.81984E 01	1.50412E-04	2.09266E-02	2.81580E-02	
3.10	9.86692E-06	1.62158E-02	-7.22407E-05	-2.83718E 01	1.57319E-04	2.22716E-02	2.81770E-02	
3.20	1.05179E-05	1.73908E-02	-7.53136E-05	-2.85341E 01	1.64166E-04	2.36573E-02	2.81974E-02	
3.30	1.11896E-05	1.86068E-02	-7.82599E-05	-2.86863E 01	1.70936E-04	2.50835E-02	2.82190E-02	
3.40	1.18820E-05	1.98638E-02	-8.10637E-05	-2.88292E 01	1.77613E-04	2.65503E-02	2.82415E-02	
3.50	1.25950E-05	2.11616E-02	-8.37089E-05	-2.89638E 01	1.84182E-04	2.80578E-02	2.82646E-02	
3.60	1.33286E-05	2.25002E-02	-8.61794E-05	-2.90905E 01	1.90627E-04	2.96058E-02	2.82880E-02	
3.70	1.40829E-05	2.38798E-02	-8.84591E-05	-2.92102E 01	1.96932E-04	3.11945E-02	2.83118E-02	
3.80	1.48579E-05	2.53002E-02	-9.05320E-05	-2.93232E 01	2.03080E-04	3.28238E-02	2.83357E-02	
3.90	1.56535E-05	2.67613E-02	-9.23820E-05	-2.94302E 01	2.09057E-04	3.44937E-02	2.83596E-02	
4.00	1.64698E-05	2.82634E-02	-9.39932E-05	-2.95316E 01	2.14846E-04	3.62042E-02	2.83834E-02	
4.10	1.73067E-05	2.98062E-02	-9.53495E-05	-2.96278E 01	2.20432E-04	3.79553E-02	2.84071E-02	
4.20	1.81642E-05	3.13898E-02	-9.64350E-05	-2.97192E 01	2.25797E-04	3.97471E-02	2.84306E-02	
4.30	1.90425E-05	3.30141E-02	-9.72336E-05	-2.98061E 01	2.30927E-04	4.15795E-02	2.84539E-02	
4.40	1.99413E-05	3.46793E-02	-9.77293E-05	-2.98888E 01	2.35806E-04	4.34525E-02	2.84768E-02	
4.50	2.08608E-05	3.63852E-02	-9.79061E-05	-2.99676E 01	2.40418E-04	4.53662E-02	2.84995E-02	
4.60	2.18010E-05	3.81318E-02	-9.77482E-05	-3.00428E 01	2.44746E-04	4.73205E-02	2.85219E-02	
4.70	2.27618E-05	3.99191E-02	-9.72394E-05	-3.01146E 01	2.48775E-04	4.93154E-02	2.85438E-02	
4.80	2.37432E-05	4.17472E-02	-9.63639E-05	-3.01832E 01	2.52490E-04	5.13511E-02	2.85655E-02	
4.90	2.47453E-05	4.36159E-02	-9.51057E-05	-3.02489E 01	2.55873E-04	5.34273E-02	2.85867E-02	
5.00	2.57681E-05	4.55254E-02	-9.34488E-05	-3.03118E 01	2.58910E-04	5.55442E-02	2.86076E-02	
5.10	2.68115E-05	4.74756E-02	-9.13773E-05	-3.03720E 01	2.61584E-04	5.77017E-02	2.86281E-02	
5.20	2.78755E-05	4.94663E-02	-8.88752E-05	-3.04298E 01	2.63879E-04	5.98999E-02	2.86482E-02	
5.30	2.89601E-05	5.14978E-02	-8.59265E-05	-3.04852E 01	2.65780E-04	6.21387E-02	2.86680E-02	
5.40	3.00654E-05	5.35698E-02	-8.25155E-05	-3.05385E 01	2.67270E-04	6.44182E-02	2.86873E-02	
5.50	3.11914E-05	5.56825E-02	-7.86261E-05	-3.05897E 01	2.68334E-04	6.67384E-02	2.87063E-02	
5.60	3.23380E-05	5.78357E-02	-7.42423E-05	-3.06390E 01	2.68956E-04	6.90992E-02	2.87249E-02	
5.70	3.35052E-05	6.00294E-02	-6.93483E-05	-3.06864E 01	2.69120E-04	7.15007E-02	2.87431E-02	
5.80	3.46931E-05	6.22637E-02	-6.39283E-05	-3.07321E 01	2.68810E-04	7.39428E-02	2.87610E-02	
5.90	3.59016E-05	6.45383E-02	-5.79661E-05	-3.07761E 01	2.68010E-04	7.64256E-02	2.87785E-02	
6.00	3.71308E-05	6.68534E-02	-5.14461E-05	-3.08185E 01	2.66704E-04	7.89490E-02	2.87956E-02	



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6$		$A=12$		$\rho=1.1 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
6.10	8.75353E-01	5.23325E 00	-9.95411E-03	1.64768E-03	3.85161E-02	6.16273E 00	1.80891E 02	
6.20	8.75379E-01	5.32736E 00	-8.98999E-03	1.59141E-03	3.77641E-02	6.25725E 00	1.82861E 02	
6.30	8.75403E-01	5.42147E 00	-7.98502E-03	1.53692E-03	3.69710E-02	6.35177E 00	1.84808E 02	
6.40	8.75426E-01	5.51557E 00	-6.93919E-03	1.48412E-03	3.61368E-02	6.44627E 00	1.86735E 02	
6.50	8.75446E-01	5.60968E 00	-5.85250E-03	1.43293E-03	3.52613E-02	6.54076E 00	1.88640E 02	
6.60	8.75465E-01	5.70379E 00	-4.72493E-03	1.38328E-03	3.43448E-02	6.63524E 00	1.90525E 02	
6.70	8.75482E-01	5.79790E 00	-3.55650E-03	1.33511E-03	3.33871E-02	6.72972E 00	1.92390E 02	
6.80	8.75498E-01	5.89201E 00	-2.34720E-03	1.28834E-03	3.23882E-02	6.82419E 00	1.94234E 02	
6.90	8.75512E-01	5.98612E 00	-1.09702E-03	1.24294E-03	3.13483E-02	6.91865E 00	1.96060E 02	
7.00	8.75525E-01	6.08024E 00	1.94035E-04	1.19882E-03	3.02672E-02	7.01311E 00	1.97866E 02	
7.10	8.75537E-01	6.17435E 00	1.52597E-03	1.15594E-03	2.91451E-02	7.10756E 00	1.99654E 02	
7.20	8.75547E-01	6.26846E 00	2.89878E-03	1.11424E-03	2.79818E-02	7.20201E 00	2.01423E 02	
7.30	8.75557E-01	6.36257E 00	4.31247E-03	1.07369E-03	2.67775E-02	7.29646E 00	2.03173E 02	
7.40	8.75565E-01	6.45667E 00	5.76704E-03	1.03423E-03	2.55321E-02	7.39090E 00	2.04906E 02	
7.50	8.75573E-01	6.55077E 00	7.26248E-03	9.95823E-04	2.42456E-02	7.48534E 00	2.06621E 02	
7.60	8.75580E-01	6.64487E 00	8.79881E-03	9.58429E-04	2.29180E-02	7.57978E 00	2.08319E 02	
7.70	8.75586E-01	6.73895E 00	1.03760E-02	9.22003E-04	2.15493E-02	7.67422E 00	2.10000E 02	
7.80	8.75591E-01	6.83303E 00	1.19940E-02	8.86499E-04	2.01396E-02	7.76866E 00	2.11664E 02	
7.90	8.75596E-01	6.92710E 00	1.36529E-02	8.51910E-04	1.86888E-02	7.86310E 00	2.13312E 02	
8.00	8.75599E-01	7.02114E 00	1.53527E-02	8.18175E-04	1.71969E-02	7.95753E 00	2.14943E 02	
8.10	8.75602E-01	7.11516E 00	1.70932E-02	7.85277E-04	1.56640E-02	8.05197E 00	2.16558E 02	
8.20	8.75605E-01	7.20915E 00	1.88745E-02	7.53188E-04	1.40900E-02	8.14641E 00	2.18158E 02	
8.30	8.75607E-01	7.30306E 00	2.06964E-02	7.21871E-04	1.24749E-02	8.24085E 00	2.19742E 02	
8.40	8.75608E-01	7.39689E 00	2.25589E-02	6.91312E-04	1.08187E-02	8.33530E 00	2.21312E 02	
8.50	8.75609E-01	7.49057E 00	2.44617E-02	6.61466E-04	9.12150E-03	8.42974E 00	2.22866E 02	
8.60	8.75610E-01	7.58400E 00	2.64043E-02	6.32315E-04	7.38321E-03	8.52419E 00	2.24405E 02	
8.70	8.75609E-01	7.67695E 00	2.83858E-02	6.03837E-04	5.60385E-03	8.61864E 00	2.25930E 02	
8.80	8.75609E-01	7.76870E 00	3.04029E-02	5.76014E-04	3.78342E-03	8.71309E 00	2.27440E 02	
8.90	8.75608E-01	7.85618E 00	3.24423E-02	5.48821E-04	1.92191E-03	8.80755E 00	2.28937E 02	
9.00	8.75606E-01	7.85768E 00	3.41461E-02	5.22233E-04	1.93178E-05	8.90201E 00	2.30420E 02	
9.10	8.75605E-01	8.07942E 00	3.68554E-02	4.96233E-04	-1.92435E-03	8.99648E 00	2.31889E 02	
9.20	8.75603E-01	8.16278E 00	3.89997E-02	4.70802E-04	-3.90910E-03	9.09094E 00	2.33344E 02	
9.30	8.75600E-01	8.25380E 00	4.12185E-02	4.45928E-04	-5.93494E-03	9.18542E 00	2.34787E 02	
9.40	8.75598E-01	8.34652E 00	4.34857E-02	4.21586E-04	-8.00187E-03	9.27990E 00	2.36216E 02	
9.50	8.75595E-01	8.43989E 00	4.57967E-02	3.97771E-04	-1.01099E-02	9.37438E 00	2.37633E 02	
9.60	8.75592E-01	8.53358E 00	4.81502E-02	3.74437E-04	-1.22590E-02	9.46887E 00	2.39037E 02	
9.70	8.75588E-01	8.62748E 00	5.05455E-02	3.51601E-04	-1.44492E-02	9.56336E 00	2.40428E 02	
9.80	8.75585E-01	8.72146E 00	5.29822E-02	3.29243E-04	-1.66806E-02	9.65786E 00	2.41808E 02	
9.90	8.75581E-01	8.81554E 00	5.54604E-02	3.07334E-04	-1.89530E-02	9.75237E 00	2.43176E 02	
10.00	8.75577E-01	8.90967E 00	5.79798E-02	2.85869E-04	-2.12665E-02	9.84688E 00	2.44531E 02	
10.10	8.75572E-01	9.00385E 00	6.05404E-02	2.64838E-04	-2.36212E-02	9.94140E 00	2.45875E 02	
10.20	8.75568E-01	9.09804E 00	6.31421E-02	2.44221E-04	-2.60170E-02	1.00359E 01	2.47207E 02	
10.30	8.75563E-01	9.19228E 00	6.57850E-02	2.24019E-04	-2.84539E-02	1.01305E 01	2.48528E 02	
10.40	8.75558E-01	9.28653E 00	6.84691E-02	2.04202E-04	-3.09319E-02	1.02250E 01	2.49838E 02	
10.50	8.75553E-01	9.38082E 00	7.11944E-02	1.84777E-04	-3.34511E-02	1.03195E 01	2.51137E 02	
10.60	8.75548E-01	9.47510E 00	7.39606E-02	1.65726E-04	-3.60115E-02	1.04141E 01	2.52425E 02	
10.70	8.75543E-01	9.56942E 00	7.67681E-02	1.47033E-04	-3.86129E-02	1.05086E 01	2.53702E 02	
10.80	8.75537E-01	9.66374E 00	7.96167E-02	1.28694E-04	-4.12556E-02	1.06032E 01	2.54969E 02	
10.90	8.75531E-01	9.75808E 00	8.25064E-02	1.10699E-04	-4.39394E-02	1.06978E 01	2.56225E 02	
11.00	8.75526E-01	9.85244E 00	8.54373E-02	9.30390E-05	-4.66644E-02	1.07924E 01	2.57471E 02	
11.10	8.75520E-01	9.94681E 00	8.84094E-02	7.57038E-05	-4.94305E-02	1.08870E 01	2.58707E 02	
11.20	8.75514E-01	1.00412E 01	9.14225E-02	5.86895E-05	-5.22378E-02	1.09816E 01	2.59933E 02	
11.30	8.75508E-01	1.01356E 01	9.44769E-02	4.19791E-05	-5.50864E-02	1.10762E 01	2.61150E 02	
11.40	8.75502E-01	1.02300E 01	9.75723E-02	2.55685E-05	-5.79761E-02	1.11708E 01	2.62356E 02	
11.50	8.75495E-01	1.03244E 01	1.00709E-01	9.45472E-06	-6.09070E-02	1.12654E 01	2.63554E 02	
11.60	8.75489E-01	1.04188E 01	1.03887E-01	-6.38558E-06	-6.38791E-02	1.13600E 01	2.64741E 02	
11.70	8.75482E-01	1.05133E 01	1.07106E-01	-2.19323E-05	-6.68924E-02	1.14547E 01	2.65920E 02	
11.80	8.75476E-01	1.06077E 01	1.10366E-01	-3.72158E-05	-6.99470E-02	1.15493E 01	2.67089E 02	
11.90	8.75469E-01	1.07022E 01	1.13667E-01	-5.22321E-05	-7.30428E-02	1.16440E 01	2.68249E 02	
12.00	8.75462E-01	1.07967E 01	1.17010E-01	-6.69877E-05	-7.61798E-02	1.17387E 01	2.69401E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z = 6$  $A = 12$  $\rho = 1.1 A^{1/3} F$ 

Positron

$\rho$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
6.10	3.83806E-05	6.92087E-02	-4.43523E-05	-3.08595E 01	2.64876E-04	8.15132E-02	2.88124E-02
6.20	3.96510E-05	7.16041E-02	-3.66689E-05	-3.08991E 01	2.62511E-04	8.41179E-02	2.88288E-02
6.30	4.09421E-05	7.40395E-02	-2.83802E-05	-3.09373E 01	2.59592E-04	8.67634E-02	2.88450E-02
6.40	4.22538E-05	7.65146E-02	-1.94704E-05	-3.09742E 01	2.56104E-04	8.94495E-02	2.88608E-02
6.50	4.35861E-05	7.90290E-02	-9.92399E-06	-3.10100E 01	2.52030E-04	9.21763E-02	2.88762E-02
6.60	4.49391E-05	8.15823E-02	2.74479E-07	-3.10445E 01	2.47355E-04	9.49437E-02	2.88914E-02
6.70	4.63127E-05	8.41731E-02	1.11400E-05	-3.10780E 01	2.42062E-04	9.77518E-02	2.89063E-02
6.80	4.77070E-05	8.68004E-02	2.26871E-05	-3.11104E 01	2.36137E-04	1.00601E-01	2.89208E-02
6.90	4.91219E-05	8.94603E-02	3.49284E-05	-3.11419E 01	2.29562E-04	1.03490E-01	2.89351E-02
7.00	5.05574E-05	9.21463E-02	4.78735E-05	-3.11723E 01	2.22323E-04	1.06420E-01	2.89491E-02
7.10	5.20136E-05	9.48381E-02	6.15193E-05	-3.12019E 01	2.14402E-04	1.09391E-01	2.89628E-02
7.20	5.34904E-05	9.74508E-02	7.58023E-05	-3.12305E 01	2.05785E-04	1.12402E-01	2.89762E-02
7.30	5.49879E-05	9.85156E-02	8.93597E-05	-3.12584E 01	1.96455E-04	1.15455E-01	2.89894E-02
7.40	5.65059E-05	1.04336E-01	1.08123E-04	-3.12854E 01	1.86396E-04	1.18547E-01	2.90023E-02
7.50	5.80447E-05	1.06858E-01	1.24551E-04	-3.13117E 01	1.75593E-04	1.21681E-01	2.90150E-02
7.60	5.96040E-05	1.09715E-01	1.42068E-04	-3.13372E 01	1.64030E-04	1.24855E-01	2.90274E-02
7.70	6.11840E-05	1.12673E-01	1.60470E-04	-3.13620E 01	1.51690E-04	1.28070E-01	2.90396E-02
7.80	6.27845E-05	1.15693E-01	1.79737E-04	-3.13862E 01	1.38557E-04	1.31325E-01	2.90516E-02
7.90	6.44058E-05	1.18765E-01	1.99876E-04	-3.14097E 01	1.24617E-04	1.34622E-01	2.90633E-02
8.00	6.60477E-05	1.21883E-01	2.20897E-04	-3.14325E 01	1.09852E-04	1.37958E-01	2.90748E-02
8.10	6.77102E-05	1.25045E-01	2.42814E-04	-3.14548E 01	9.42478E-05	1.41336E-01	2.90861E-02
8.20	6.93933E-05	1.28251E-01	2.65643E-04	-3.14765E 01	7.77872E-05	1.44754E-01	2.90972E-02
8.30	7.10971E-05	1.31500E-01	2.89398E-04	-3.14976E 01	6.04547E-05	1.48213E-01	2.91081E-02
8.40	7.28215E-05	1.34789E-01	3.14093E-04	-3.15182E 01	4.22344E-05	1.51713E-01	2.91188E-02
8.50	7.45665E-05	1.38121E-01	3.39748E-04	-3.15383E 01	2.31103E-05	1.55253E-01	2.91293E-02
8.60	7.63322E-05	1.41494E-01	3.66374E-04	-3.15579E 01	3.06669E-06	1.58834E-01	2.91396E-02
8.70	7.81185E-05	1.44908E-01	3.93990E-04	-3.15770E 01	-1.79125E-05	1.62455E-01	2.91497E-02
8.80	7.99254E-05	1.48363E-01	4.22611E-04	-3.15956E 01	-3.98432E-05	1.66118E-01	2.91596E-02
8.90	8.17530E-05	1.51859E-01	4.52252E-04	-3.16138E 01	-6.27413E-05	1.69820E-01	2.91694E-02
9.00	8.36012E-05	1.55396E-01	4.82929E-04	-3.16316E 01	-8.66227E-05	1.73564E-01	2.91790E-02
9.10	8.54700E-05	1.58974E-01	5.14659E-04	-3.16489E 01	-1.11503E-04	1.77348E-01	2.91884E-02
9.20	8.73594E-05	1.62593E-01	5.47457E-04	-3.16659E 01	-1.37399E-04	1.81173E-01	2.91976E-02
9.30	8.92695E-05	1.66253E-01	5.81339E-04	-3.16824E 01	-1.64326E-04	1.85039E-01	2.92067E-02
9.40	9.12002E-05	1.69954E-01	6.16321E-04	-3.16986E 01	-1.92300E-04	1.88945E-01	2.92157E-02
9.50	9.31515E-05	1.73695E-01	6.52419E-04	-3.17145E 01	-2.21336E-04	1.92892E-01	2.92245E-02
9.60	9.51236E-05	1.77478E-01	6.89649E-04	-3.17300E 01	-2.51452E-04	1.96880E-01	2.92331E-02
9.70	9.71161E-05	1.81301E-01	7.28027E-04	-3.17451E 01	-2.82662E-04	2.00908E-01	2.92416E-02
9.80	9.91294E-05	1.85164E-01	7.67568E-04	-3.17599E 01	-3.14983E-04	2.04977E-01	2.92500E-02
9.90	1.01163E-04	1.89069E-01	8.08289E-04	-3.17744E 01	-3.48431E-04	2.09087E-01	2.92582E-02
10.00	1.03218E-04	1.93014E-01	8.50205E-04	-3.17886E 01	-3.83021E-04	2.13237E-01	2.92663E-02
10.10	1.05293E-04	1.97001E-01	8.93334E-04	-3.18025E 01	-4.18769E-04	2.17428E-01	2.92743E-02
10.20	1.07389E-04	2.01027E-01	9.37688E-04	-3.18161E 01	-4.55692E-04	2.21660E-01	2.92821E-02
10.30	1.09505E-04	2.05095E-01	9.83286E-04	-3.18294E 01	-4.93805E-04	2.25932E-01	2.92898E-02
10.40	1.11642E-04	2.09203E-01	1.03014E-03	-3.18424E 01	-5.33124E-04	2.30245E-01	2.92974E-02
10.50	1.13800E-04	2.13352E-01	1.07828E-03	-3.18552E 01	-5.73665E-04	2.34599E-01	2.93048E-02
10.60	1.15978E-04	2.17542E-01	1.12770E-03	-3.18678E 01	-6.15444E-04	2.38993E-01	2.93122E-02
10.70	1.18177E-04	2.21772E-01	1.17843E-03	-3.18800E 01	-6.58477E-04	2.43428E-01	2.93194E-02
10.80	1.20396E-04	2.26043E-01	1.23048E-03	-3.18921E 01	-7.02780E-04	2.47904E-01	2.93265E-02
10.90	1.22636E-04	2.30355E-01	1.28388E-03	-3.19039E 01	-7.48369E-04	2.52420E-01	2.93335E-02
11.00	1.24897E-04	2.34708E-01	1.33862E-03	-3.19155E 01	-7.95259E-04	2.56977E-01	2.93404E-02
11.10	1.27179E-04	2.39101E-01	1.39474E-03	-3.19268E 01	-8.43467E-04	2.61575E-01	2.93472E-02
11.20	1.29481E-04	2.43535E-01	1.45224E-03	-3.19380E 01	-8.93009E-04	2.66213E-01	2.93539E-02
11.30	1.31803E-04	2.48010E-01	1.51115E-03	-3.19489E 01	-9.43900E-04	2.70892E-01	2.93605E-02
11.40	1.34146E-04	2.52525E-01	1.57147E-03	-3.19597E 01	-9.96156E-04	2.75611E-01	2.93670E-02
11.50	1.36510E-04	2.57081E-01	1.63323E-03	-3.19702E 01	-1.04979E-03	2.80372E-01	2.93734E-02
11.60	1.38895E-04	2.61678E-01	1.69644E-03	-3.19806E 01	-1.10483E-03	2.85173E-01	2.93797E-02
11.70	1.41300E-04	2.66315E-01	1.76111E-03	-3.19907E 01	-1.16128E-03	2.90014E-01	2.93859E-02
11.80	1.43726E-04	2.70993E-01	1.82727E-03	-3.20007E 01	-1.21915E-03	2.94897E-01	2.93921E-02
11.90	1.46172E-04	2.75712E-01	1.89492E-03	-3.20105E 01	-1.27847E-03	2.99819E-01	2.93981E-02
12.00	1.48639E-04	2.80471E-01	1.96409E-03	-3.20201E 01	-1.33926E-03	3.04783E-01	2.94040E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6 \quad A=12 \quad \rho=1.1 A^{1/3} F$						
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
12.10	8.75455E-01	1.08911E 01	1.20394E-01	-8.15029E-05	-7.93581E-02	1.18333E 01	2.70544E 02
12.20	8.75448E-01	1.09856E 01	1.23819E-01	-9.57596E-05	-8.25777E-02	1.19280E 01	2.71678E 02
12.30	8.75442E-01	1.10801E 01	1.27285E-01	-1.09779E-04	-8.58385E-02	1.20227E 01	2.72804E 02
12.40	8.75435E-01	1.11747E 01	1.30792E-01	-1.23569E-04	-8.91405E-02	1.21174E 01	2.73921E 02
12.50	8.75428E-01	1.12692E 01	1.34341E-01	-1.37130E-04	-9.24838E-02	1.22121E 01	2.75030E 02
12.60	8.75421E-01	1.13637E 01	1.37931E-01	-1.50466E-04	-9.58684E-02	1.23069E 01	2.76131E 02
12.70	8.75413E-01	1.14583E 01	1.41562E-01	-1.63580E-04	-9.92943E-02	1.24016E 01	2.77224E 02
12.80	8.75406E-01	1.15528E 01	1.45235E-01	-1.76478E-04	-1.02762E-01	1.24964E 01	2.78309E 02
12.90	8.75399E-01	1.16474E 01	1.48949E-01	-1.89185E-04	-1.06270E-01	1.25911E 01	2.79386E 02
13.00	8.75392E-01	1.17420E 01	1.52704E-01	-2.01668E-04	-1.09820E-01	1.26859E 01	2.80456E 02
13.10	8.75385E-01	1.18366E 01	1.56500E-01	-2.13961E-04	-1.13411E-01	1.27807E 01	2.81518E 02
13.20	8.75377E-01	1.19312E 01	1.60338E-01	-2.26062E-04	-1.17044E-01	1.28754E 01	2.82572E 02
13.30	8.75370E-01	1.20258E 01	1.64216E-01	-2.37973E-04	-1.20717E-01	1.29702E 01	2.83619E 02
13.40	8.75363E-01	1.21204E 01	1.68137E-01	-2.49694E-04	-1.24433E-01	1.30651E 01	2.84659E 02
13.50	8.75356E-01	1.22150E 01	1.72098E-01	-2.61229E-04	-1.28189E-01	1.31599E 01	2.85692E 02
13.60	8.75349E-01	1.23097E 01	1.76101E-01	-2.72588E-04	-1.31987E-01	1.32547E 01	2.86717E 02
13.70	8.75341E-01	1.24043E 01	1.80145E-01	-2.83779E-04	-1.35826E-01	1.33496E 01	2.87735E 02
13.80	8.75334E-01	1.24990E 01	1.84231E-01	-2.94800E-04	-1.39707E-01	1.34444E 01	2.88747E 02
13.90	8.75326E-01	1.25937E 01	1.88358E-01	-3.05641E-04	-1.43629E-01	1.35393E 01	2.89752E 02
14.00	8.75319E-01	1.26884E 01	1.92526E-01	-3.16329E-04	-1.47593E-01	1.36342E 01	2.90750E 02
14.10	8.75312E-01	1.27831E 01	1.96736E-01	-3.26855E-04	-1.51597E-01	1.37290E 01	2.91741E 02
14.20	8.75304E-01	1.28778E 01	2.00987E-01	-3.37221E-04	-1.55644E-01	1.38239E 01	2.92726E 02
14.30	8.75297E-01	1.29725E 01	2.05280E-01	-3.47445E-04	-1.59732E-01	1.39189E 01	2.93704E 02
14.40	8.75289E-01	1.30673E 01	2.09614E-01	-3.57504E-04	-1.63861E-01	1.40138E 01	2.94676E 02
14.50	8.75282E-01	1.31620E 01	2.13989E-01	-3.67417E-04	-1.68031E-01	1.41087E 01	2.95642E 02
14.60	8.75274E-01	1.32568E 01	2.18406E-01	-3.77191E-04	-1.72244E-01	1.42037E 01	2.96602E 02
14.70	8.75267E-01	1.33516E 01	2.22864E-01	-3.86823E-04	-1.76497E-01	1.42986E 01	2.97555E 02
14.80	8.75259E-01	1.34463E 01	2.27364E-01	-3.96314E-04	-1.80792E-01	1.43936E 01	2.98502E 02
14.90	8.75252E-01	1.35411E 01	2.31905E-01	-4.05663E-04	-1.85129E-01	1.44886E 01	2.99444E 02
15.00	8.75244E-01	1.36359E 01	2.36487E-01	-4.14889E-04	-1.89507E-01	1.45836E 01	3.00379E 02
15.10	8.75237E-01	1.37308E 01	2.41111E-01	-4.23973E-04	-1.93927E-01	1.46786E 01	3.01310E 02
15.20	8.75229E-01	1.38256E 01	2.45777E-01	-4.32939E-04	-1.98388E-01	1.47736E 01	3.02233E 02
15.30	8.75222E-01	1.39205E 01	2.50484E-01	-4.41775E-04	-2.02890E-01	1.48686E 01	3.03152E 02
15.40	8.75214E-01	1.40153E 01	2.55233E-01	-4.50485E-04	-2.07435E-01	1.49637E 01	3.04065E 02
15.50	8.75207E-01	1.41102E 01	2.60023E-01	-4.59073E-04	-2.12020E-01	1.50587E 01	3.04973E 02
15.60	8.75199E-01	1.42051E 01	2.64855E-01	-4.67549E-04	-2.16648E-01	1.51538E 01	3.05874E 02
15.70	8.75192E-01	1.43000E 01	2.69728E-01	-4.75897E-04	-2.21317E-01	1.52489E 01	3.06771E 02
15.80	8.75185E-01	1.43949E 01	2.74643E-01	-4.84146E-04	-2.26027E-01	1.53440E 01	3.07662E 02
15.90	8.75177E-01	1.44898E 01	2.79599E-01	-4.92270E-04	-2.30779E-01	1.54391E 01	3.08548E 02
16.00	8.75170E-01	1.45847E 01	2.84597E-01	-5.00282E-04	-2.35573E-01	1.55342E 01	3.09429E 02
16.10	8.75162E-01	1.46797E 01	2.89636E-01	-5.08196E-04	-2.40409E-01	1.56294E 01	3.10305E 02
16.20	8.75155E-01	1.47746E 01	2.94718E-01	-5.15990E-04	-2.45286E-01	1.57245E 01	3.11176E 02
16.30	8.75148E-01	1.48696E 01	2.99840E-01	-5.23691E-04	-2.50204E-01	1.58197E 01	3.12042E 02
16.40	8.75140E-01	1.49646E 01	3.05005E-01	-5.31282E-04	-2.55165E-01	1.59149E 01	3.12903E 02
16.50	8.75133E-01	1.50596E 01	3.10211E-01	-5.38773E-04	-2.60167E-01	1.60101E 01	3.13759E 02
16.60	8.75125E-01	1.51546E 01	3.15458E-01	-5.46165E-04	-2.65210E-01	1.61053E 01	3.14611E 02
16.70	8.75118E-01	1.52496E 01	3.20748E-01	-5.53465E-04	-2.70296E-01	1.62005E 01	3.15457E 02
16.80	8.75111E-01	1.53447E 01	3.26079E-01	-5.60663E-04	-2.75423E-01	1.62957E 01	3.16299E 02
16.90	8.75103E-01	1.54397E 01	3.31451E-01	-5.67764E-04	-2.80591E-01	1.63910E 01	3.17137E 02
17.00	8.75096E-01	1.55348E 01	3.36866E-01	-5.74778E-04	-2.85802E-01	1.64863E 01	3.17970E 02
17.10	8.75089E-01	1.56299E 01	3.42322E-01	-5.81698E-04	-2.91054E-01	1.65815E 01	3.18799E 02
17.20	8.75081E-01	1.57250E 01	3.47819E-01	-5.88530E-04	-2.96348E-01	1.66768E 01	3.19622E 02
17.30	8.75074E-01	1.58201E 01	3.53359E-01	-5.95270E-04	-3.01684E-01	1.67721E 01	3.20443E 02
17.40	8.75067E-01	1.59152E 01	3.58940E-01	-6.01925E-04	-3.07062E-01	1.68674E 01	3.21258E 02
17.50	8.75060E-01	1.60103E 01	3.64563E-01	-6.08501E-04	-3.12481E-01	1.69628E 01	3.22069E 02
17.60	8.75052E-01	1.61055E 01	3.70228E-01	-6.14985E-04	-3.17942E-01	1.70581E 01	3.22876E 02
17.70	8.75045E-01	1.62006E 01	3.75935E-01	-6.21394E-04	-3.23445E-01	1.71535E 01	3.23679E 02
17.80	8.75038E-01	1.62958E 01	3.81683E-01	-6.27717E-04	-3.28990E-01	1.72489E 01	3.24478E 02
17.90	8.75031E-01	1.63910E 01	3.87473E-01	-6.33955E-04	-3.34577E-01	1.73443E 01	3.25273E 02
18.00	8.75023E-01	1.64862E 01	3.93305E-01	-6.40122E-04	-3.40205E-01	1.74397E 01	3.26064E 02

## ELECTRON RADIAL FUNCTIONS

 $Z=6$        $A=12$        $\rho=1.1 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
12.10	1.51127E-04	2.85271E-01	2.03479E-03	-3.20296E 01	-1.40152E-03	3.09788E-01	2.94099E-02
12.20	1.53635E-04	2.90112E-01	2.10704E-03	-3.20389E 01	-1.46527E-03	3.14832E-01	2.94157E-02
12.30	1.56164E-04	2.94994E-01	2.18084E-03	-3.20480E 01	-1.53053E-03	3.19918E-01	2.94214E-02
12.40	1.58714E-04	2.99916E-01	2.25622E-03	-3.20570E 01	-1.59731E-03	3.25044E-01	2.94270E-02
12.50	1.61284E-04	3.04878E-01	2.33320E-03	-3.20658E 01	-1.66564E-03	3.30211E-01	2.94326E-02
12.60	1.63875E-04	3.09882E-01	2.41178E-03	-3.20745E 01	-1.73552E-03	3.35418E-01	2.94380E-02
12.70	1.66486E-04	3.14926E-01	2.49199E-03	-3.20831E 01	-1.80697E-03	3.40667E-01	2.94434E-02
12.80	1.69118E-04	3.20011E-01	2.57385E-03	-3.20915E 01	-1.88002E-03	3.45955E-01	2.94487E-02
12.90	1.71771E-04	3.25136E-01	2.65736E-03	-3.20997E 01	-1.95466E-03	3.51285E-01	2.94540E-02
13.00	1.74444E-04	3.30302E-01	2.74254E-03	-3.21079E 01	-2.03093E-03	3.56655E-01	2.94592E-02
13.10	1.77138E-04	3.35509E-01	2.82941E-03	-3.21159E 01	-2.10883E-03	3.62066E-01	2.94643E-02
13.20	1.79852E-04	3.40756E-01	2.91798E-03	-3.21237E 01	-2.18838E-03	3.67517E-01	2.94693E-02
13.30	1.82587E-04	3.46044E-01	3.00828E-03	-3.21315E 01	-2.26960E-03	3.73009E-01	2.94743E-02
13.40	1.85343E-04	3.51373E-01	3.10031E-03	-3.21391E 01	-2.35251E-03	3.78542E-01	2.94792E-02
13.50	1.88120E-04	3.56742E-01	3.19409E-03	-3.21466E 01	-2.43711E-03	3.84115E-01	2.94841E-02
13.60	1.90917E-04	3.62153E-01	3.28965E-03	-3.21540E 01	-2.52343E-03	3.89729E-01	2.94888E-02
13.70	1.93734E-04	3.67603E-01	3.38698E-03	-3.21613E 01	-2.61148E-03	3.95383E-01	2.94936E-02
13.80	1.96572E-04	3.73094E-01	3.48612E-03	-3.21684E 01	-2.70128E-03	4.01079E-01	2.94982E-02
13.90	1.99431E-04	3.78626E-01	3.58707E-03	-3.21755E 01	-2.79284E-03	4.06815E-01	2.95028E-02
14.00	2.02311E-04	3.84199E-01	3.68986E-03	-3.21824E 01	-2.88618E-03	4.12591E-01	2.95074E-02
14.10	2.05211E-04	3.89812E-01	3.79449E-03	-3.21893E 01	-2.98131E-03	4.18408E-01	2.95119E-02
14.20	2.08132E-04	3.95466E-01	3.90099E-03	-3.21960E 01	-3.07826E-03	4.24266E-01	2.95163E-02
14.30	2.11073E-04	4.01160E-01	4.00936E-03	-3.22027E 01	-3.17703E-03	4.30164E-01	2.95207E-02
14.40	2.14035E-04	4.06896E-01	4.11964E-03	-3.22092E 01	-3.27765E-03	4.36103E-01	2.95250E-02
14.50	2.17017E-04	4.12672E-01	4.23182E-03	-3.22157E 01	-3.38012E-03	4.42083E-01	2.95293E-02
14.60	2.20021E-04	4.18488E-01	4.34593E-03	-3.22221E 01	-3.48447E-03	4.48103E-01	2.95335E-02
14.70	2.23045E-04	4.24345E-01	4.46199E-03	-3.22283E 01	-3.59071E-03	4.54164E-01	2.95377E-02
14.80	2.26089E-04	4.30243E-01	4.58000E-03	-3.22345E 01	-3.69885E-03	4.60265E-01	2.95418E-02
14.90	2.29154E-04	4.36181E-01	4.69999E-03	-3.22406E 01	-3.80892E-03	4.66407E-01	2.95459E-02
15.00	2.32240E-04	4.42160E-01	4.82197E-03	-3.22466E 01	-3.92092E-03	4.72590E-01	2.95499E-02
15.10	2.35346E-04	4.48179E-01	4.94595E-03	-3.22526E 01	-4.03488E-03	4.78813E-01	2.95539E-02
15.20	2.38473E-04	4.54240E-01	5.07196E-03	-3.22584E 01	-4.15081E-03	4.85077E-01	2.95578E-02
15.30	2.41620E-04	4.60340E-01	5.20001E-03	-3.22642E 01	-4.26872E-03	4.91387E-01	2.95617E-02
15.40	2.44789E-04	4.66482E-01	5.33011E-03	-3.22699E 01	-4.38864E-03	4.97727E-01	2.95655E-02
15.50	2.47977E-04	4.72664E-01	5.46228E-03	-3.22755E 01	-4.51057E-03	5.04113E-01	2.95693E-02
15.60	2.51187E-04	4.78887E-01	5.59654E-03	-3.22810E 01	-4.63454E-03	5.10539E-01	2.95730E-02
15.70	2.54417E-04	4.85150E-01	5.73291E-03	-3.22865E 01	-4.76055E-03	5.17006E-01	2.95768E-02
15.80	2.57668E-04	4.91454E-01	5.87139E-03	-3.22919E 01	-4.88863E-03	5.23514E-01	2.95804E-02
15.90	2.60939E-04	4.97798E-01	6.01200E-03	-3.22972E 01	-5.01880E-03	5.30062E-01	2.95840E-02
16.00	2.64231E-04	5.04183E-01	6.15476E-03	-3.23024E 01	-5.15105E-03	5.36651E-01	2.95876E-02
16.10	2.67543E-04	5.10609E-01	6.29969E-03	-3.23076E 01	-5.28542E-03	5.43280E-01	2.95912E-02
16.20	2.70876E-04	5.17075E-01	6.44680E-03	-3.23127E 01	-5.42193E-03	5.49950E-01	2.95947E-02
16.30	2.74230E-04	5.23582E-01	6.59611E-03	-3.23178E 01	-5.56057E-03	5.56661E-01	2.95981E-02
16.40	2.77604E-04	5.30130E-01	6.74763E-03	-3.23228E 01	-5.70138E-03	5.63412E-01	2.96015E-02
16.50	2.80999E-04	5.36718E-01	6.90138E-03	-3.23277E 01	-5.84436E-03	5.70204E-01	2.96049E-02
16.60	2.84415E-04	5.43346E-01	7.05738E-03	-3.23325E 01	-5.98953E-03	5.77036E-01	2.96083E-02
16.70	2.87851E-04	5.50016E-01	7.21564E-03	-3.23373E 01	-6.13692E-03	5.83909E-01	2.96116E-02
16.80	2.91308E-04	5.56726E-01	7.37617E-03	-3.23421E 01	-6.28652E-03	5.90822E-01	2.96149E-02
16.90	2.94786E-04	5.63476E-01	7.53900E-03	-3.23468E 01	-6.43837E-03	5.97777E-01	2.96181E-02
17.00	2.98284E-04	5.70267E-01	7.70414E-03	-3.23514E 01	-6.59247E-03	6.04771E-01	2.96213E-02
17.10	3.01802E-04	5.77099E-01	7.87160E-03	-3.23559E 01	-6.74885E-03	6.11807E-01	2.96245E-02
17.20	3.05342E-04	5.83971E-01	8.04140E-03	-3.23605E 01	-6.90751E-03	6.18882E-01	2.96276E-02
17.30	3.08902E-04	5.90884E-01	8.21356E-03	-3.23649E 01	-7.06847E-03	6.25999E-01	2.96308E-02
17.40	3.12482E-04	5.97838E-01	8.38809E-03	-3.23693E 01	-7.23176E-03	6.33156E-01	2.96338E-02
17.50	3.16083E-04	6.04832E-01	8.56501E-03	-3.23737E 01	-7.39738E-03	6.40353E-01	2.96369E-02
17.60	3.19705E-04	6.11866E-01	8.74433E-03	-3.23780E 01	-7.56535E-03	6.47592E-01	2.96399E-02
17.70	3.23347E-04	6.18941E-01	8.92608E-03	-3.23822E 01	-7.73569E-03	6.54870E-01	2.96429E-02
17.80	3.27010E-04	6.26057E-01	9.11025E-03	-3.23864E 01	-7.90841E-03	6.62190E-01	2.96458E-02
17.90	3.30694E-04	6.33213E-01	9.29689E-03	-3.23906E 01	-8.08353E-03	6.69549E-01	2.96487E-02
18.00	3.34398E-04	6.40410E-01	9.48598E-03	-3.23947E 01	-8.26107E-03	6.76950E-01	2.96516E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6$		$A=12$		$\rho=1.1A^{1/3}F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	8.75016E-01	1.65814E 01	3.99179E-01	-6.46208E-04	-3.45876E-01	1.75351E 01	3.26851E 02	
18.20	8.75009E-01	1.66767E 01	4.05095E-01	-6.52223E-04	-3.51588E-01	1.76305E 01	3.27634E 02	
18.30	8.75002E-01	1.67719E 01	4.11052E-01	-6.58154E-04	-3.57342E-01	1.77260E 01	3.28414E 02	
18.40	8.74995E-01	1.68672E 01	4.17052E-01	-6.64017E-04	-3.63138E-01	1.78214E 01	3.29189E 02	
18.50	8.74988E-01	1.69625E 01	4.23093E-01	-6.69807E-04	-3.68976E-01	1.79169E 01	3.29961E 02	
18.60	8.74981E-01	1.70578E 01	4.29176E-01	-6.75525E-04	-3.74856E-01	1.80124E 01	3.30729E 02	
18.70	8.74974E-01	1.71531E 01	4.35301E-01	-6.81169E-04	-3.80778E-01	1.81079E 01	3.31494E 02	
18.80	8.74967E-01	1.72484E 01	4.41468E-01	-6.86753E-04	-3.86742E-01	1.82035E 01	3.32254E 02	
18.90	8.74960E-01	1.73437E 01	4.47677E-01	-6.92258E-04	-3.92747E-01	1.82990E 01	3.33012E 02	
19.00	8.74953E-01	1.74391E 01	4.53928E-01	-6.97702E-04	-3.98795E-01	1.83946E 01	3.33766E 02	
19.10	8.74945E-01	1.75344E 01	4.60221E-01	-7.03081E-04	-4.04885E-01	1.84901E 01	3.34516E 02	
19.20	8.74939E-01	1.76298E 01	4.66555E-01	-7.08389E-04	-4.11017E-01	1.85857E 01	3.35263E 02	
19.30	8.74932E-01	1.77252E 01	4.72932E-01	-7.13635E-04	-4.17191E-01	1.86813E 01	3.36007E 02	
19.40	8.74925E-01	1.78206E 01	4.79351E-01	-7.18820E-04	-4.23406E-01	1.87770E 01	3.36747E 02	
19.50	8.74918E-01	1.79161E 01	4.85812E-01	-7.23940E-04	-4.29664E-01	1.88726E 01	3.37485E 02	
19.60	8.74911E-01	1.80115E 01	4.92314E-01	-7.29003E-04	-4.35964E-01	1.89683E 01	3.38218E 02	
19.70	8.74904E-01	1.81069E 01	4.98859E-01	-7.33998E-04	-4.42306E-01	1.90639E 01	3.38949E 02	
19.80	8.74898E-01	1.82024E 01	5.05446E-01	-7.38933E-04	-4.48690E-01	1.91596E 01	3.39677E 02	
19.90	8.74891E-01	1.82979E 01	5.12075E-01	-7.43816E-04	-4.55117E-01	1.92553E 01	3.40401E 02	
20.00	8.74884E-01	1.83934E 01	5.18746E-01	-7.48633E-04	-4.61585E-01	1.93510E 01	3.41123E 02	
20.10	8.74877E-01	1.84889E 01	5.25460E-01	-7.53399E-04	-4.68095E-01	1.94468E 01	3.41841E 02	
20.20	8.74870E-01	1.85845E 01	5.32215E-01	-7.58105E-04	-4.74648E-01	1.95425E 01	3.42557E 02	
20.30	8.74863E-01	1.86800E 01	5.39012E-01	-7.62753E-04	-4.81243E-01	1.96383E 01	3.43269E 02	
20.40	8.74857E-01	1.87756E 01	5.45852E-01	-7.67358E-04	-4.87880E-01	1.97341E 01	3.43978E 02	
20.50	8.74850E-01	1.88712E 01	5.52733E-01	-7.71892E-04	-4.94559E-01	1.98299E 01	3.44686E 02	
20.60	8.74843E-01	1.89668E 01	5.59657E-01	-7.76377E-04	-5.01280E-01	1.99257E 01	3.45390E 02	
20.70	8.74837E-01	1.90624E 01	5.66623E-01	-7.80821E-04	-5.08044E-01	2.00215E 01	3.46090E 02	
20.80	8.74830E-01	1.91580E 01	5.73631E-01	-7.85199E-04	-5.14850E-01	2.01174E 01	3.46789E 02	
20.90	8.74823E-01	1.92536E 01	5.80682E-01	-7.89528E-04	-5.21698E-01	2.02133E 01	3.47485E 02	
21.00	8.74817E-01	1.93493E 01	5.87775E-01	-7.93814E-04	-5.28588E-01	2.03091E 01	3.48177E 02	
21.10	8.74810E-01	1.94450E 01	5.94909E-01	-7.98047E-04	-5.35521E-01	2.04050E 01	3.48867E 02	
21.20	8.74803E-01	1.95407E 01	6.02086E-01	-8.02222E-04	-5.42496E-01	2.05010E 01	3.49556E 02	
21.30	8.74797E-01	1.96364E 01	6.09306E-01	-8.06362E-04	-5.49513E-01	2.05969E 01	3.50240E 02	
21.40	8.74790E-01	1.97321E 01	6.16568E-01	-8.10441E-04	-5.56573E-01	2.06929E 01	3.50923E 02	
21.50	8.74784E-01	1.98279E 01	6.23872E-01	-8.14479E-04	-5.63675E-01	2.07888E 01	3.51603E 02	
21.60	8.74777E-01	1.99236E 01	6.31218E-01	-8.18474E-04	-5.70819E-01	2.08848E 01	3.52280E 02	
21.70	8.74771E-01	2.00194E 01	6.38607E-01	-8.22413E-04	-5.78006E-01	2.09808E 01	3.52956E 02	
21.80	8.74764E-01	2.01152E 01	6.46038E-01	-8.26310E-04	-5.85235E-01	2.10768E 01	3.53629E 02	
21.90	8.74758E-01	2.02110E 01	6.53511E-01	-8.30167E-04	-5.92506E-01	2.11729E 01	3.54299E 02	
22.00	8.74751E-01	2.03068E 01	6.61027E-01	-8.33979E-04	-5.99820E-01	2.12689E 01	3.54967E 02	
22.10	8.74745E-01	2.04027E 01	6.68585E-01	-8.37744E-04	-6.07177E-01	2.13650E 01	3.55632E 02	
22.20	8.74738E-01	2.04985E 01	6.76185E-01	-8.41466E-04	-6.14575E-01	2.14611E 01	3.56296E 02	
22.30	8.74732E-01	2.05944E 01	6.83828E-01	-8.45135E-04	-6.22017E-01	2.15572E 01	3.56958E 02	
22.40	8.74725E-01	2.06903E 01	6.91514E-01	-8.48780E-04	-6.29500E-01	2.16534E 01	3.57616E 02	
22.50	8.74719E-01	2.07862E 01	6.99242E-01	-8.52372E-04	-6.37027E-01	2.17495E 01	3.58273E 02	
22.60	8.74713E-01	2.08821E 01	7.07012E-01	-8.55922E-04	-6.44595E-01	2.18457E 01	3.58928E 02	
22.70	8.74706E-01	2.09781E 01	7.14825E-01	-8.59437E-04	-6.52207E-01	2.19419E 01	3.59580E 02	
22.80	8.74700E-01	2.10741E 01	7.22680E-01	-8.62904E-04	-6.59861E-01	2.20381E 01	3.60231E 02	
22.90	8.74694E-01	2.11700E 01	7.30578E-01	-8.66339E-04	-6.67557E-01	2.21343E 01	3.60879E 02	
23.00	8.74688E-01	2.12660E 01	7.38518E-01	-8.69734E-04	-6.75296E-01	2.22305E 01	3.61525E 02	
23.10	8.74681E-01	2.13621E 01	7.46501E-01	-8.73086E-04	-6.83078E-01	2.23268E 01	3.62169E 02	
23.20	8.74675E-01	2.14581E 01	7.54527E-01	-8.76397E-04	-6.90902E-01	2.24231E 01	3.62812E 02	
23.30	8.74669E-01	2.15541E 01	7.62595E-01	-8.79681E-04	-6.98769E-01	2.25194E 01	3.63451E 02	
23.40	8.74663E-01	2.16502E 01	7.70706E-01	-8.82919E-04	-7.06678E-01	2.26157E 01	3.64089E 02	
23.50	8.74656E-01	2.17463E 01	7.78859E-01	-8.86122E-04	-7.14630E-01	2.27120E 01	3.64726E 02	
23.60	8.74650E-01	2.18424E 01	7.87055E-01	-8.89281E-04	-7.22625E-01	2.28084E 01	3.65361E 02	
23.70	8.74644E-01	2.19385E 01	7.95294E-01	-8.92418E-04	-7.30663E-01	2.29047E 01	3.65993E 02	
23.80	8.74638E-01	2.20347E 01	8.03575E-01	-8.95507E-04	-7.38743E-01	2.30011E 01	3.66624E 02	
23.90	8.74632E-01	2.21308E 01	8.11899E-01	-8.98569E-04	-7.46866E-01	2.30975E 01	3.67253E 02	
24.00	8.74626E-01	2.22270E 01	8.20265E-01	-9.01593E-04	-7.55032E-01	2.31940E 01	3.67880E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z = 6$  $A = 12$  $\rho = 1.1 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	3.38123E-04	6.47648E-01	9.67758E-03	-3.23987E 01	-8.44104E-03	6.84391E-01	2.96545E-02
18.20	3.41869E-04	6.54926E-01	9.87166E-03	-3.24027E 01	-8.62345E-03	6.91873E-01	2.96573E-02
18.30	3.45635E-04	6.62245E-01	1.00683E-02	-3.24067E 01	-8.80833E-03	6.99395E-01	2.96601E-02
18.40	3.49422E-04	6.69604E-01	1.02674E-02	-3.24106E 01	-8.99568E-03	7.06957E-01	2.96629E-02
18.50	3.53229E-04	6.77003E-01	1.04691E-02	-3.24145E 01	-9.18553E-03	7.14561E-01	2.96657E-02
18.60	3.57057E-04	6.84444E-01	1.06733E-02	-3.24183E 01	-9.37789E-03	7.22204E-01	2.96684E-02
18.70	3.60906E-04	6.91925E-01	1.08801E-02	-3.24221E 01	-9.57277E-03	7.29889E-01	2.96711E-02
18.80	3.64775E-04	6.99446E-01	1.10895E-02	-3.24258E 01	-9.77019E-03	7.37613E-01	2.96738E-02
18.90	3.68664E-04	7.07008E-01	1.13015E-02	-3.24295E 01	-9.97017E-03	7.45379E-01	2.96764E-02
19.00	3.72575E-04	7.14610E-01	1.15162E-02	-3.24332E 01	-1.01727E-02	7.53185E-01	2.96790E-02
19.10	3.76506E-04	7.22254E-01	1.17335E-02	-3.24368E 01	-1.03779E-02	7.61031E-01	2.96816E-02
19.20	3.80458E-04	7.29937E-01	1.19534E-02	-3.24404E 01	-1.05856E-02	7.68918E-01	2.96842E-02
19.30	3.84430E-04	7.37661E-01	1.21761E-02	-3.24440E 01	-1.07960E-02	7.76846E-01	2.96867E-02
19.40	3.88423E-04	7.45425E-01	1.24014E-02	-3.24475E 01	-1.10090E-02	7.84814E-01	2.96892E-02
19.50	3.92436E-04	7.53231E-01	1.26294E-02	-3.24509E 01	-1.12247E-02	7.92822E-01	2.96917E-02
19.60	3.96470E-04	7.61076E-01	1.28601E-02	-3.24544E 01	-1.14430E-02	8.00871E-01	2.96942E-02
19.70	4.00525E-04	7.68963E-01	1.30936E-02	-3.24578E 01	-1.16640E-02	8.08961E-01	2.96967E-02
19.80	4.04600E-04	7.76890E-01	1.33298E-02	-3.24611E 01	-1.18877E-02	8.17091E-01	2.96991E-02
19.90	4.08696E-04	7.84857E-01	1.35688E-02	-3.24645E 01	-1.21141E-02	8.25262E-01	2.97015E-02
20.00	4.12813E-04	7.92864E-01	1.38106E-02	-3.24678E 01	-1.23433E-02	8.33473E-01	2.97039E-02
20.10	4.16950E-04	8.00913E-01	1.40552E-02	-3.24710E 01	-1.25752E-02	8.41725E-01	2.97062E-02
20.20	4.21108E-04	8.09002E-01	1.43026E-02	-3.24742E 01	-1.28099E-02	8.50017E-01	2.97086E-02
20.30	4.25286E-04	8.17131E-01	1.45528E-02	-3.24774E 01	-1.30473E-02	8.58349E-01	2.97109E-02
20.40	4.29485E-04	8.25301E-01	1.48059E-02	-3.24806E 01	-1.32876E-02	8.66723E-01	2.97132E-02
20.50	4.33705E-04	8.33511E-01	1.50618E-02	-3.24837E 01	-1.35307E-02	8.75136E-01	2.97155E-02
20.60	4.37945E-04	8.41762E-01	1.53207E-02	-3.24868E 01	-1.37765E-02	8.83590E-01	2.97177E-02
20.70	4.42206E-04	8.50053E-01	1.55824E-02	-3.24899E 01	-1.40253E-02	8.92085E-01	2.97200E-02
20.80	4.46488E-04	8.58385E-01	1.58470E-02	-3.24929E 01	-1.42769E-02	9.00620E-01	2.97222E-02
20.90	4.50790E-04	8.66757E-01	1.61146E-02	-3.24959E 01	-1.45313E-02	9.09196E-01	2.97244E-02
21.00	4.55112E-04	8.75170E-01	1.63851E-02	-3.24989E 01	-1.47887E-02	9.17812E-01	2.97265E-02
21.10	4.59456E-04	8.83623E-01	1.66586E-02	-3.25018E 01	-1.50489E-02	9.26469E-01	2.97287E-02
21.20	4.63820E-04	8.92117E-01	1.69350E-02	-3.25048E 01	-1.53121E-02	9.35166E-01	2.97308E-02
21.30	4.68204E-04	9.00652E-01	1.72144E-02	-3.25076E 01	-1.55782E-02	9.43903E-01	2.97330E-02
21.40	4.72609E-04	9.09226E-01	1.74969E-02	-3.25105E 01	-1.58473E-02	9.52681E-01	2.97351E-02
21.50	4.77035E-04	9.17842E-01	1.77823E-02	-3.25133E 01	-1.61194E-02	9.61500E-01	2.97371E-02
21.60	4.81481E-04	9.26497E-01	1.80708E-02	-3.25161E 01	-1.63944E-02	9.70359E-01	2.97392E-02
21.70	4.85948E-04	9.35193E-01	1.83624E-02	-3.25189E 01	-1.66724E-02	9.79258E-01	2.97413E-02
21.80	4.90436E-04	9.43930E-01	1.86570E-02	-3.25217E 01	-1.69535E-02	9.88198E-01	2.97433E-02
21.90	4.94944E-04	9.52707E-01	1.89547E-02	-3.25244E 01	-1.72376E-02	9.97179E-01	2.97453E-02
22.00	4.99473E-04	9.61525E-01	1.92555E-02	-3.25271E 01	-1.75247E-02	1.00620E 00	2.97473E-02
22.10	5.04023E-04	9.70383E-01	1.95594E-02	-3.25298E 01	-1.78149E-02	1.01526E 00	2.97493E-02
22.20	5.08593E-04	9.79282E-01	1.98665E-02	-3.25324E 01	-1.81082E-02	1.02436E 00	2.97512E-02
22.30	5.13183E-04	9.88221E-01	2.01767E-02	-3.25350E 01	-1.84045E-02	1.03350E 00	2.97532E-02
22.40	5.17795E-04	9.97200E-01	2.04901E-02	-3.25376E 01	-1.87040E-02	1.04269E 00	2.97551E-02
22.50	5.22426E-04	1.00622E 00	2.08066E-02	-3.25402E 01	-1.90066E-02	1.05191E 00	2.97570E-02
22.60	5.27079E-04	1.01528E 00	2.11264E-02	-3.25428E 01	-1.93124E-02	1.06117E 00	2.97589E-02
22.70	5.31752E-04	1.02438E 00	2.14494E-02	-3.25453E 01	-1.96213E-02	1.07048E 00	2.97608E-02
22.80	5.36446E-04	1.03352E 00	2.17756E-02	-3.25478E 01	-1.99334E-02	1.07982E 00	2.97627E-02
22.90	5.41160E-04	1.04270E 00	2.21050E-02	-3.25503E 01	-2.02487E-02	1.08921E 00	2.97645E-02
23.00	5.45895E-04	1.05193E 00	2.24377E-02	-3.25527E 01	-2.05672E-02	1.09863E 00	2.97664E-02
23.10	5.50651E-04	1.06119E 00	2.27737E-02	-3.25552E 01	-2.08889E-02	1.10810E 00	2.97682E-02
23.20	5.55427E-04	1.07049E 00	2.31129E-02	-3.25576E 01	-2.12138E-02	1.11760E 00	2.97700E-02
23.30	5.60224E-04	1.07983E 00	2.34555E-02	-3.25600E 01	-2.15420E-02	1.12715E 00	2.97718E-02
23.40	5.65041E-04	1.08922E 00	2.38014E-02	-3.25624E 01	-2.18735E-02	1.13674E 00	2.97736E-02
23.50	5.69879E-04	1.09864E 00	2.41506E-02	-3.25647E 01	-2.22083E-02	1.14637E 00	2.97753E-02
23.60	5.74738E-04	1.10811E 00	2.45032E-02	-3.25671E 01	-2.25464E-02	1.15603E 00	2.97771E-02
23.70	5.79617E-04	1.11761E 00	2.48592E-02	-3.25694E 01	-2.28877E-02	1.16574E 00	2.97788E-02
23.80	5.84517E-04	1.12716E 00	2.52185E-02	-3.25717E 01	-2.32325E-02	1.17549E 00	2.97806E-02
23.90	5.89437E-04	1.13674E 00	2.55813E-02	-3.25739E 01	-2.35805E-02	1.18528E 00	2.97823E-02
24.00	5.94378E-04	1.14637E 00	2.59475E-02	-3.25762E 01	-2.39320E-02	1.19511E 00	2.97840E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6$		$A=12$		$\rho=1.1 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
24.10	8.74620E-01	2.23232E 01	8.28675E-01	-9.04578E-04	-7.63241E-01	2.32904E 01	3.68506E 02	02
24.20	8.74614E-01	2.24194E 01	8.37127E-01	-9.07530E-04	-7.71492E-01	2.33869E 01	3.69130E 02	02
24.30	8.74608E-01	2.25157E 01	8.45622E-01	-9.10453E-04	-7.79786E-01	2.34834E 01	3.69752E 02	02
24.40	8.74602E-01	2.26119E 01	8.54160E-01	-9.13341E-04	-7.88123E-01	2.35799E 01	3.70372E 02	02
24.50	8.74596E-01	2.27082E 01	8.62740E-01	-9.16193E-04	-7.96503E-01	2.36764E 01	3.70991E 02	02
24.60	8.74590E-01	2.28045E 01	8.71364E-01	-9.19013E-04	-8.04926E-01	2.37729E 01	3.71608E 02	02
24.70	8.74584E-01	2.29008E 01	8.80030E-01	-9.21807E-04	-8.13391E-01	2.38695E 01	3.72223E 02	02
24.80	8.74578E-01	2.29971E 01	8.88738E-01	-9.24557E-04	-8.21900E-01	2.39661E 01	3.72838E 02	02
24.90	8.74572E-01	2.30935E 01	8.97490E-01	-9.27287E-04	-8.30451E-01	2.40627E 01	3.73450E 02	02
25.00	8.74566E-01	2.31899E 01	9.06285E-01	-9.29980E-04	-8.39045E-01	2.41593E 01	3.74061E 02	02
25.10	8.74560E-01	2.32862E 01	9.15122E-01	-9.32636E-04	-8.47682E-01	2.42560E 01	3.74671E 02	02
25.20	8.74554E-01	2.33826E 01	9.24003E-01	-9.35275E-04	-8.56363E-01	2.43526E 01	3.75278E 02	02
25.30	8.74548E-01	2.34791E 01	9.32926E-01	-9.37874E-04	-8.65086E-01	2.44493E 01	3.75884E 02	02
25.40	8.74542E-01	2.35755E 01	9.41892E-01	-9.40450E-04	-8.73852E-01	2.45460E 01	3.76489E 02	02
25.50	8.74537E-01	2.36720E 01	9.50902E-01	-9.42991E-04	-8.82661E-01	2.46427E 01	3.77092E 02	02
25.60	8.74531E-01	2.37684E 01	9.59954E-01	-9.45502E-04	-8.91513E-01	2.47395E 01	3.77695E 02	02
25.70	8.74525E-01	2.38649E 01	9.69049E-01	-9.47986E-04	-9.00408E-01	2.48362E 01	3.78295E 02	02
25.80	8.74519E-01	2.39615E 01	9.78187E-01	-9.50439E-04	-9.09347E-01	2.49330E 01	3.78895E 02	02
25.90	8.74513E-01	2.40580E 01	9.87369E-01	-9.52866E-04	-9.18328E-01	2.50298E 01	3.79493E 02	02
26.00	8.74508E-01	2.41546E 01	9.96593E-01	-9.55264E-04	-9.27353E-01	2.51267E 01	3.80089E 02	02
26.10	8.74502E-01	2.42511E 01	1.00586E 00	-9.57628E-04	-9.36421E-01	2.52235E 01	3.80686E 02	02
26.20	8.74496E-01	2.43477E 01	1.01517E 00	-9.59973E-04	-9.45531E-01	2.53204E 01	3.81279E 02	02
26.30	8.74491E-01	2.44444E 01	1.02452E 00	-9.62282E-04	-9.54685E-01	2.54173E 01	3.81873E 02	02
26.40	8.74485E-01	2.45410E 01	1.03392E 00	-9.64573E-04	-9.63882E-01	2.55142E 01	3.82464E 02	02
26.50	8.74479E-01	2.46377E 01	1.04336E 00	-9.66829E-04	-9.73123E-01	2.56111E 01	3.83056E 02	02
26.60	8.74473E-01	2.47343E 01	1.05284E 00	-9.69062E-04	-9.82406E-01	2.57080E 01	3.83645E 02	02
26.70	8.74468E-01	2.48310E 01	1.06237E 00	-9.71272E-04	-9.91733E-01	2.58050E 01	3.84233E 02	02
26.80	8.74462E-01	2.49278E 01	1.07194E 00	-9.73454E-04	-1.00110E 00	2.59020E 01	3.84820E 02	02
26.90	8.74456E-01	2.50245E 01	1.08155E 00	-9.75606E-04	-1.01052E 00	2.59990E 01	3.85406E 02	02
27.00	8.74451E-01	2.51212E 01	1.09121E 00	-9.77735E-04	-1.01997E 00	2.60961E 01	3.85991E 02	02
27.10	8.74445E-01	2.52180E 01	1.10091E 00	-9.79841E-04	-1.02947E 00	2.61931E 01	3.86575E 02	02
27.20	8.74440E-01	2.53148E 01	1.11065E 00	-9.81921E-04	-1.03902E 00	2.62902E 01	3.87157E 02	02
27.30	8.74434E-01	2.54116E 01	1.12044E 00	-9.83978E-04	-1.04860E 00	2.63873E 01	3.87739E 02	02
27.40	8.74429E-01	2.55085E 01	1.13027E 00	-9.86004E-04	-1.05823E 00	2.64844E 01	3.88320E 02	02
27.50	8.74424E-01	2.56054E 01	1.14014E 00	-9.88012E-04	-1.06791E 00	2.65816E 01	3.88899E 02	02
27.60	8.74418E-01	2.57022E 01	1.15005E 00	-9.89992E-04	-1.07762E 00	2.66787E 01	3.89478E 02	02
27.70	8.74413E-01	2.57991E 01	1.16001E 00	-9.91945E-04	-1.08738E 00	2.67759E 01	3.90056E 02	02
27.80	8.74407E-01	2.58961E 01	1.17002E 00	-9.93883E-04	-1.09719E 00	2.68731E 01	3.90632E 02	02
27.90	8.74402E-01	2.59930E 01	1.18006E 00	-9.95795E-04	-1.10704E 00	2.69703E 01	3.91208E 02	02
28.00	8.74396E-01	2.60900E 01	1.19015E 00	-9.97686E-04	-1.11693E 00	2.70676E 01	3.91782E 02	02
28.10	8.74391E-01	2.61870E 01	1.20028E 00	-9.99541E-04	-1.12686E 00	2.71649E 01	3.92357E 02	02
28.20	8.74385E-01	2.62840E 01	1.21046E 00	-1.00139E-03	-1.13684E 00	2.72622E 01	3.92929E 02	02
28.30	8.74380E-01	2.63810E 01	1.22068E 00	-1.00320E-03	-1.14686E 00	2.73595E 01	3.93502E 02	02
28.40	8.74375E-01	2.64781E 01	1.23094E 00	-1.00499E-03	-1.15693E 00	2.74568E 01	3.94074E 02	02
28.50	8.74369E-01	2.65751E 01	1.24125E 00	-1.00677E-03	-1.16703E 00	2.75542E 01	3.94645E 02	02
28.60	8.74364E-01	2.66722E 01	1.25160E 00	-1.00852E-03	-1.17719E 00	2.76516E 01	3.95214E 02	02
28.70	8.74359E-01	2.67693E 01	1.26200E 00	-1.01025E-03	-1.18738E 00	2.77490E 01	3.95783E 02	02
28.80	8.74353E-01	2.68665E 01	1.27243E 00	-1.01196E-03	-1.19762E 00	2.78464E 01	3.96351E 02	02
28.90	8.74348E-01	2.69636E 01	1.28292E 00	-1.01365E-03	-1.20791E 00	2.79439E 01	3.96918E 02	02
29.00	8.74343E-01	2.70608E 01	1.29344E 00	-1.01531E-03	-1.21823E 00	2.80413E 01	3.97485E 02	02
29.10	8.74337E-01	2.71580E 01	1.30401E 00	-1.01696E-03	-1.22860E 00	2.81388E 01	3.98051E 02	02
29.20	8.74332E-01	2.72552E 01	1.31462E 00	-1.01858E-03	-1.23902E 00	2.82363E 01	3.98616E 02	02
29.30	8.74327E-01	2.73525E 01	1.32528E 00	-1.02018E-03	-1.24948E 00	2.83339E 01	3.99181E 02	02
29.40	8.74322E-01	2.74498E 01	1.33598E 00	-1.02176E-03	-1.25998E 00	2.84315E 01	3.99745E 02	02
29.50	8.74317E-01	2.75470E 01	1.34672E 00	-1.02332E-03	-1.27052E 00	2.85290E 01	4.00308E 02	02
29.60	8.74311E-01	2.76444E 01	1.35751E 00	-1.02487E-03	-1.28111E 00	2.86267E 01	4.00870E 02	02
29.70	8.74306E-01	2.77417E 01	1.36834E 00	-1.02638E-03	-1.29175E 00	2.87243E 01	4.01433E 02	02
29.80	8.74301E-01	2.78390E 01	1.37921E 00	-1.02789E-03	-1.30243E 00	2.88219E 01	4.01993E 02	02
29.90	8.74296E-01	2.79364E 01	1.39013E 00	-1.02937E-03	-1.31315E 00	2.89196E 01	4.02555E 02	02
30.00	8.74291E-01	2.80338E 01	1.40110E 00	-1.03084E-03	-1.32391E 00	2.90173E 01	4.03114E 02	02

## ELECTRON RADIAL FUNCTIONS

 $Z=6$        $A=12$        $\rho=1.1 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
24.10	5.99340E-04	1.15604E 00	2.63171E-02	-3.25784E 01	-2.42868E-02	1.20498E 00	2.97856E-02
24.20	6.04322E-04	1.16574E 00	2.66901E-02	-3.25806E 01	-2.46450E-02	1.21489E 00	2.97873E-02
24.30	6.09325E-04	1.17549E 00	2.70666E-02	-3.25828E 01	-2.50066E-02	1.22484E 00	2.97890E-02
24.40	6.14349E-04	1.18528E 00	2.74466E-02	-3.25850E 01	-2.53717E-02	1.23483E 00	2.97906E-02
24.50	6.19393E-04	1.19511E 00	2.78301E-02	-3.25872E 01	-2.57402E-02	1.24486E 00	2.97922E-02
24.60	6.24458E-04	1.20498E 00	2.82172E-02	-3.25893E 01	-2.61122E-02	1.25493E 00	2.97939E-02
24.70	6.29543E-04	1.21489E 00	2.86077E-02	-3.25914E 01	-2.64876E-02	1.26504E 00	2.97955E-02
24.80	6.34649E-04	1.22483E 00	2.90018E-02	-3.25935E 01	-2.68665E-02	1.27520E 00	2.97971E-02
24.90	6.39776E-04	1.23482E 00	2.93994E-02	-3.25956E 01	-2.72489E-02	1.28539E 00	2.97986E-02
25.00	6.44923E-04	1.24485E 00	2.98006E-02	-3.25977E 01	-2.76349E-02	1.29562E 00	2.98002E-02
25.10	6.50091E-04	1.25493E 00	3.02055E-02	-3.25998E 01	-2.80244E-02	1.30590E 00	2.98018E-02
25.20	6.55279E-04	1.26504E 00	3.06139E-02	-3.26018E 01	-2.84175E-02	1.31621E 00	2.98033E-02
25.30	6.60488E-04	1.27519E 00	3.10259E-02	-3.26038E 01	-2.88141E-02	1.32656E 00	2.98049E-02
25.40	6.65718E-04	1.28538E 00	3.14416E-02	-3.26058E 01	-2.92143E-02	1.33696E 00	2.98064E-02
25.50	6.70968E-04	1.29561E 00	3.18609E-02	-3.26078E 01	-2.96181E-02	1.34739E 00	2.98079E-02
25.60	6.76239E-04	1.30588E 00	3.22839E-02	-3.26098E 01	-3.00255E-02	1.35787E 00	2.98094E-02
25.70	6.81530E-04	1.31620E 00	3.27106E-02	-3.26117E 01	-3.04366E-02	1.36838E 00	2.98109E-02
25.80	6.86842E-04	1.32655E 00	3.31410E-02	-3.26137E 01	-3.08513E-02	1.37894E 00	2.98124E-02
25.90	6.92175E-04	1.33694E 00	3.35751E-02	-3.26156E 01	-3.12697E-02	1.38954E 00	2.98138E-02
26.00	6.97528E-04	1.34738E 00	3.40130E-02	-3.26175E 01	-3.16917E-02	1.40017E 00	2.98153E-02
26.10	7.02902E-04	1.35785E 00	3.44546E-02	-3.26194E 01	-3.21175E-02	1.41085E 00	2.98168E-02
26.20	7.08296E-04	1.36836E 00	3.49000E-02	-3.26213E 01	-3.25470E-02	1.42157E 00	2.98182E-02
26.30	7.13712E-04	1.37892E 00	3.53491E-02	-3.26231E 01	-3.29802E-02	1.43232E 00	2.98196E-02
26.40	7.19147E-04	1.38951E 00	3.58020E-02	-3.26250E 01	-3.34171E-02	1.44312E 00	2.98210E-02
26.50	7.24604E-04	1.40015E 00	3.62588E-02	-3.26268E 01	-3.38578E-02	1.45396E 00	2.98224E-02
26.60	7.30081E-04	1.41082E 00	3.67194E-02	-3.26287E 01	-3.43023E-02	1.46484E 00	2.98238E-02
26.70	7.35578E-04	1.42154E 00	3.71838E-02	-3.26305E 01	-3.47506E-02	1.47576E 00	2.98252E-02
26.80	7.41096E-04	1.43230E 00	3.76521E-02	-3.26323E 01	-3.52027E-02	1.48672E 00	2.98266E-02
26.90	7.46635E-04	1.44309E 00	3.81243E-02	-3.26340E 01	-3.56586E-02	1.49772E 00	2.98280E-02
27.00	7.52195E-04	1.45393E 00	3.86003E-02	-3.26358E 01	-3.61183E-02	1.50876E 00	2.98293E-02
27.10	7.57775E-04	1.46481E 00	3.90803E-02	-3.26376E 01	-3.65819E-02	1.51984E 00	2.98307E-02
27.20	7.63375E-04	1.47572E 00	3.95642E-02	-3.26393E 01	-3.70494E-02	1.53096E 00	2.98320E-02
27.30	7.68996E-04	1.48668E 00	4.00520E-02	-3.26410E 01	-3.75207E-02	1.54212E 00	2.98334E-02
27.40	7.74638E-04	1.49768E 00	4.05438E-02	-3.26427E 01	-3.79960E-02	1.55332E 00	2.98347E-02
27.50	7.80301E-04	1.50872E 00	4.10395E-02	-3.26444E 01	-3.84752E-02	1.56456E 00	2.98360E-02
27.60	7.85984E-04	1.51980E 00	4.15393E-02	-3.26461E 01	-3.89583E-02	1.57584E 00	2.98373E-02
27.70	7.91687E-04	1.53091E 00	4.20430E-02	-3.26478E 01	-3.94453E-02	1.58716E 00	2.98386E-02
27.80	7.97412E-04	1.54207E 00	4.25508E-02	-3.26495E 01	-3.99363E-02	1.59852E 00	2.98399E-02
27.90	8.03156E-04	1.55327E 00	4.30626E-02	-3.26511E 01	-4.04313E-02	1.60992E 00	2.98412E-02
28.00	8.08922E-04	1.56451E 00	4.35784E-02	-3.26527E 01	-4.09303E-02	1.62137E 00	2.98424E-02
28.10	8.14708E-04	1.57579E 00	4.40983E-02	-3.26544E 01	-4.14334E-02	1.63285E 00	2.98437E-02
28.20	8.20515E-04	1.58711E 00	4.46223E-02	-3.26560E 01	-4.19404E-02	1.64437E 00	2.98449E-02
28.30	8.26342E-04	1.59847E 00	4.51504E-02	-3.26576E 01	-4.24515E-02	1.65594E 00	2.98462E-02
28.40	8.32190E-04	1.60987E 00	4.56826E-02	-3.26592E 01	-4.29666E-02	1.66754E 00	2.98474E-02
28.50	8.38058E-04	1.62131E 00	4.62189E-02	-3.26607E 01	-4.34858E-02	1.67918E 00	2.98487E-02
28.60	8.43947E-04	1.63279E 00	4.67594E-02	-3.26623E 01	-4.40091E-02	1.69087E 00	2.98499E-02
28.70	8.49857E-04	1.64431E 00	4.73040E-02	-3.26639E 01	-4.45366E-02	1.70259E 00	2.98511E-02
28.80	8.55787E-04	1.65588E 00	4.78528E-02	-3.26654E 01	-4.50681E-02	1.71435E 00	2.98523E-02
28.90	8.61738E-04	1.66748E 00	4.84058E-02	-3.26670E 01	-4.56038E-02	1.72616E 00	2.98535E-02
29.00	8.67710E-04	1.67912E 00	4.89630E-02	-3.26685E 01	-4.61436E-02	1.73800E 00	2.98547E-02
29.10	8.73702E-04	1.69080E 00	4.95244E-02	-3.26700E 01	-4.66876E-02	1.74989E 00	2.98558E-02
29.20	8.79715E-04	1.70252E 00	5.00901E-02	-3.26715E 01	-4.72358E-02	1.76181E 00	2.98570E-02
29.30	8.85748E-04	1.71429E 00	5.06600E-02	-3.26730E 01	-4.77882E-02	1.77378E 00	2.98582E-02
29.40	8.91802E-04	1.72609E 00	5.12342E-02	-3.26745E 01	-4.83448E-02	1.78578E 00	2.98593E-02
29.50	8.97877E-04	1.73793E 00	5.18126E-02	-3.26759E 01	-4.89056E-02	1.79783E 00	2.98605E-02
29.60	9.03972E-04	1.74981E 00	5.23954E-02	-3.26774E 01	-4.94707E-02	1.80991E 00	2.98616E-02
29.70	9.10088E-04	1.76174E 00	5.29825E-02	-3.26788E 01	-5.00401E-02	1.82204E 00	2.98628E-02
29.80	9.16224E-04	1.77370E 00	5.35739E-02	-3.26803E 01	-5.06137E-02	1.83420E 00	2.98639E-02
29.90	9.22381E-04	1.78570E 00	5.41697E-02	-3.26817E 01	-5.11916E-02	1.84641E 00	2.98650E-02
30.00	9.28558E-04	1.79775E 00	5.47698E-02	-3.26831E 01	-5.17738E-02	1.85866E 00	2.98661E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=6 \quad A=12 \quad \rho=1.1 A^{1/3} F$							
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
30.10	8.74286E-01	2.81313E 01	1.41210E 00	-1.03227E-03	-1.33472E 00	2.91151E 01	4.03675E 02	
30.20	8.74281E-01	2.82287E 01	1.42315E 00	-1.03370E-03	-1.34558E 00	2.92128E 01	4.04233E 02	
30.30	8.74276E-01	2.83262E 01	1.43425E 00	-1.03510E-03	-1.35647E 00	2.93106E 01	4.04792E 02	
30.40	8.74270E-01	2.84237E 01	1.44539E 00	-1.03649E-03	-1.36741E 00	2.94084E 01	4.05349E 02	
30.50	8.74265E-01	2.85212E 01	1.45657E 00	-1.03785E-03	-1.37840E 00	2.95062E 01	4.05907E 02	
30.60	8.74260E-01	2.86187E 01	1.46780E 00	-1.03920E-03	-1.38943E 00	2.96041E 01	4.06464E 02	
30.70	8.74255E-01	2.87163E 01	1.47907E 00	-1.04053E-03	-1.40050E 00	2.97019E 01	4.07021E 02	
30.80	8.74250E-01	2.88139E 01	1.49038E 00	-1.04184E-03	-1.41162E 00	2.97998E 01	4.07577E 02	
30.90	8.74245E-01	2.89115E 01	1.50174E 00	-1.04313E-03	-1.42278E 00	2.98977E 01	4.08133E 02	
31.00	8.74240E-01	2.90091E 01	1.51314E 00	-1.04440E-03	-1.43399E 00	2.99957E 01	4.08688E 02	
31.10	8.74235E-01	2.91067E 01	1.52459E 00	-1.04567E-03	-1.44524E 00	3.00937E 01	4.09242E 02	
31.20	8.74230E-01	2.92044E 01	1.53608E 00	-1.04691E-03	-1.45653E 00	3.01916E 01	4.09796E 02	
31.30	8.74225E-01	2.93021E 01	1.54761E 00	-1.04813E-03	-1.46787E 00	3.02897E 01	4.10351E 02	
31.40	8.74220E-01	2.93998E 01	1.55919E 00	-1.04933E-03	-1.47925E 00	3.03877E 01	4.10904E 02	
31.50	8.74215E-01	2.94976E 01	1.57082E 00	-1.05052E-03	-1.49068E 00	3.04858E 01	4.11458E 02	
31.60	8.74211E-01	2.95954E 01	1.58248E 00	-1.05169E-03	-1.50215E 00	3.05839E 01	4.12011E 02	
31.70	8.74206E-01	2.96932E 01	1.59419E 00	-1.05284E-03	-1.51367E 00	3.06820E 01	4.12564E 02	
31.80	8.74201E-01	2.97910E 01	1.60595E 00	-1.05398E-03	-1.52523E 00	3.07801E 01	4.13114E 02	
31.90	8.74196E-01	2.98888E 01	1.61775E 00	-1.05510E-03	-1.53683E 00	3.08783E 01	4.13667E 02	
32.00	8.74191E-01	2.99867E 01	1.62959E 00	-1.05620E-03	-1.54848E 00	3.09765E 01	4.14219E 02	
32.10	8.74186E-01	3.00846E 01	1.64148E 00	-1.05729E-03	-1.56017E 00	3.10747E 01	4.14770E 02	
32.20	8.74181E-01	3.01825E 01	1.65342E 00	-1.05836E-03	-1.57191E 00	3.11729E 01	4.15321E 02	
32.30	8.74177E-01	3.02804E 01	1.66539E 00	-1.05941E-03	-1.58369E 00	3.12712E 01	4.15872E 02	
32.40	8.74172E-01	3.03784E 01	1.67742E 00	-1.06045E-03	-1.59552E 00	3.13694E 01	4.16422E 02	
32.50	8.74167E-01	3.04764E 01	1.68948E 00	-1.06147E-03	-1.60739E 00	3.14678E 01	4.16972E 02	
32.60	8.74162E-01	3.05744E 01	1.70159E 00	-1.06247E-03	-1.61930E 00	3.15661E 01	4.17523E 02	
32.70	8.74157E-01	3.06724E 01	1.71375E 00	-1.06346E-03	-1.63126E 00	3.16645E 01	4.18073E 02	
32.80	8.74153E-01	3.07705E 01	1.72595E 00	-1.06444E-03	-1.64327E 00	3.17628E 01	4.18623E 02	
32.90	8.74148E-01	3.08686E 01	1.73819E 00	-1.06539E-03	-1.65532E 00	3.18613E 01	4.19172E 02	
33.00	8.74143E-01	3.09667E 01	1.75048E 00	-1.06633E-03	-1.66741E 00	3.19597E 01	4.19722E 02	
33.10	8.74138E-01	3.10648E 01	1.76282E 00	-1.06726E-03	-1.67955E 00	3.20582E 01	4.20271E 02	
33.20	8.74134E-01	3.11629E 01	1.77519E 00	-1.06817E-03	-1.69173E 00	3.21567E 01	4.20821E 02	
33.30	8.74129E-01	3.12611E 01	1.78762E 00	-1.06907E-03	-1.70396E 00	3.22552E 01	4.21370E 02	
33.40	8.74124E-01	3.13593E 01	1.80008E 00	-1.06995E-03	-1.71623E 00	3.23537E 01	4.21918E 02	
33.50	8.74120E-01	3.14576E 01	1.81260E 00	-1.07082E-03	-1.72855E 00	3.24523E 01	4.22468E 02	
33.60	8.74115E-01	3.15558E 01	1.82515E 00	-1.07167E-03	-1.74091E 00	3.25509E 01	4.23017E 02	
33.70	8.74110E-01	3.16541E 01	1.83775E 00	-1.07250E-03	-1.75332E 00	3.26495E 01	4.23565E 02	
33.80	8.74106E-01	3.17524E 01	1.85040E 00	-1.07333E-03	-1.76577E 00	3.27482E 01	4.24114E 02	
33.90	8.74101E-01	3.18507E 01	1.86309E 00	-1.07413E-03	-1.77827E 00	3.28468E 01	4.24663E 02	
34.00	8.74096E-01	3.19491E 01	1.87583E 00	-1.07492E-03	-1.79081E 00	3.29455E 01	4.25212E 02	
34.10	8.74092E-01	3.20475E 01	1.88861E 00	-1.07571E-03	-1.80340E 00	3.30442E 01	4.25759E 02	
34.20	8.74087E-01	3.21459E 01	1.90143E 00	-1.07648E-03	-1.81603E 00	3.31430E 01	4.26307E 02	
34.30	8.74083E-01	3.22443E 01	1.91430E 00	-1.07722E-03	-1.82870E 00	3.32418E 01	4.26856E 02	
34.40	8.74078E-01	3.23428E 01	1.92722E 00	-1.07796E-03	-1.84142E 00	3.33406E 01	4.27404E 02	
34.50	8.74074E-01	3.24413E 01	1.94018E 00	-1.07868E-03	-1.85419E 00	3.34394E 01	4.27953E 02	
34.60	8.74069E-01	3.25398E 01	1.95318E 00	-1.07939E-03	-1.86700E 00	3.35383E 01	4.28502E 02	
34.70	8.74064E-01	3.26383E 01	1.96623E 00	-1.08008E-03	-1.87986E 00	3.36372E 01	4.29051E 02	
34.80	8.74060E-01	3.27369E 01	1.97933E 00	-1.08077E-03	-1.89276E 00	3.37361E 01	4.29600E 02	
34.90	8.74055E-01	3.28355E 01	1.99247E 00	-1.08144E-03	-1.90570E 00	3.38350E 01	4.30148E 02	
35.00	8.74051E-01	3.29341E 01	2.00565E 00	-1.08209E-03	-1.91870E 00	3.39340E 01	4.30698E 02	
35.10	8.74046E-01	3.30327E 01	2.01888E 00	-1.08273E-03	-1.93173E 00	3.40330E 01	4.31246E 02	
35.20	8.74042E-01	3.31314E 01	2.03216E 00	-1.08336E-03	-1.94481E 00	3.41320E 01	4.31795E 02	
35.30	8.74037E-01	3.32301E 01	2.04548E 00	-1.08397E-03	-1.95794E 00	3.42310E 01	4.32345E 02	
35.40	8.74033E-01	3.33288E 01	2.05884E 00	-1.08458E-03	-1.97111E 00	3.43301E 01	4.32894E 02	
35.50	8.74029E-01	3.34275E 01	2.07225E 00	-1.08516E-03	-1.98433E 00	3.44292E 01	4.33444E 02	
35.60	8.74024E-01	3.35263E 01	2.08571E 00	-1.08574E-03	-1.99759E 00	3.45283E 01	4.33994E 02	
35.70	8.74020E-01	3.36251E 01	2.09921E 00	-1.08630E-03	-2.01090E 00	3.46275E 01	4.34543E 02	
35.80	8.74015E-01	3.37239E 01	2.11276E 00	-1.08684E-03	-2.02426E 00	3.47267E 01	4.35094E 02	
35.90	8.74011E-01	3.38228E 01	2.12635E 00	-1.08738E-03	-2.03765E 00	3.48259E 01	4.35644E 02	
36.00	8.74006E-01	3.39217E 01	2.13999E 00	-1.08791E-03	-2.05110E 00	3.49251E 01	4.36193E 02	

## ELECTRON RADIAL FUNCTIONS

$p$	$Z=6$		$A=12$		$\rho=1.1 A^{1/3} F$		Positron	
	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$	
30.10	9.34757E-04	1.80983E 00	5.53743E-02	-3.26845E 01	-5.23604E-02	1.87094E 00	2.98672E-02	
30.20	9.40976E-04	1.82196E 00	5.59832E-02	-3.26859E 01	-5.29513E-02	1.88327E 00	2.98683E-02	
30.30	9.47215E-04	1.83412E 00	5.65965E-02	-3.26873E 01	-5.35466E-02	1.89564E 00	2.98694E-02	
30.40	9.53475E-04	1.84632E 00	5.72143E-02	-3.26887E 01	-5.41462E-02	1.90804E 00	2.98705E-02	
30.50	9.59756E-04	1.85857E 00	5.78365E-02	-3.26901E 01	-5.47503E-02	1.92049E 00	2.98716E-02	
30.60	9.66057E-04	1.87085E 00	5.84631E-02	-3.26914E 01	-5.53587E-02	1.93298E 00	2.98727E-02	
30.70	9.72379E-04	1.88318E 00	5.90942E-02	-3.26928E 01	-5.59716E-02	1.94551E 00	2.98737E-02	
30.80	9.78721E-04	1.89554E 00	5.97298E-02	-3.26941E 01	-5.65888E-02	1.95807E 00	2.98748E-02	
30.90	9.85084E-04	1.90795E 00	6.03699E-02	-3.26955E 01	-5.72106E-02	1.97068E 00	2.98758E-02	
31.00	9.91468E-04	1.92039E 00	6.10145E-02	-3.26968E 01	-5.78368E-02	1.98333E 00	2.98769E-02	
31.10	9.97872E-04	1.93288E 00	6.16637E-02	-3.26981E 01	-5.84675E-02	1.99602E 00	2.98779E-02	
31.20	1.00430E-03	1.94540E 00	6.23174E-02	-3.26994E 01	-5.91027E-02	2.00874E 00	2.98790E-02	
31.30	1.01074E-03	1.95797E 00	6.29757E-02	-3.27007E 01	-5.97424E-02	2.02151E 00	2.98800E-02	
31.40	1.01721E-03	1.97058E 00	6.36386E-02	-3.27020E 01	-6.03866E-02	2.03432E 00	2.98810E-02	
31.50	1.02370E-03	1.98322E 00	6.43060E-02	-3.27033E 01	-6.10354E-02	2.04717E 00	2.98820E-02	
31.60	1.03020E-03	1.99591E 00	6.49781E-02	-3.27046E 01	-6.16888E-02	2.06006E 00	2.98830E-02	
31.70	1.03673E-03	2.00863E 00	6.56548E-02	-3.27059E 01	-6.23467E-02	2.07298E 00	2.98840E-02	
31.80	1.04328E-03	2.02140E 00	6.63362E-02	-3.27071E 01	-6.30092E-02	2.08595E 00	2.98850E-02	
31.90	1.04985E-03	2.03420E 00	6.70222E-02	-3.27084E 01	-6.36764E-02	2.09896E 00	2.98860E-02	
32.00	1.05644E-03	2.04705E 00	6.77129E-02	-3.27096E 01	-6.43481E-02	2.11201E 00	2.98870E-02	
32.10	1.06305E-03	2.05994E 00	6.84083E-02	-3.27108E 01	-6.50245E-02	2.12510E 00	2.98880E-02	
32.20	1.06968E-03	2.07286E 00	6.91084E-02	-3.27121E 01	-6.57056E-02	2.13823E 00	2.98890E-02	
32.30	1.07633E-03	2.08583E 00	6.98132E-02	-3.27133E 01	-6.63913E-02	2.15140E 00	2.98899E-02	
32.40	1.08300E-03	2.09884E 00	7.05228E-02	-3.27145E 01	-6.70817E-02	2.16460E 00	2.98909E-02	
32.50	1.08970E-03	2.11188E 00	7.12371E-02	-3.27157E 01	-6.77768E-02	2.17785E 00	2.98918E-02	
32.60	1.09641E-03	2.12497E 00	7.19562E-02	-3.27169E 01	-6.84766E-02	2.19114E 00	2.98928E-02	
32.70	1.10314E-03	2.13810E 00	7.26801E-02	-3.27181E 01	-6.91812E-02	2.20447E 00	2.98937E-02	
32.80	1.10990E-03	2.15126E 00	7.34087E-02	-3.27193E 01	-6.98905E-02	2.21784E 00	2.98947E-02	
32.90	1.11667E-03	2.16447E 00	7.41423E-02	-3.27204E 01	-7.06046E-02	2.23125E 00	2.98956E-02	
33.00	1.12347E-03	2.17772E 00	7.48806E-02	-3.27216E 01	-7.13235E-02	2.24470E 00	2.98965E-02	
33.10	1.13028E-03	2.19100E 00	7.56238E-02	-3.27228E 01	-7.20472E-02	2.25819E 00	2.98975E-02	
33.20	1.13712E-03	2.20433E 00	7.63718E-02	-3.27239E 01	-7.27756E-02	2.27172E 00	2.98984E-02	
33.30	1.14398E-03	2.21769E 00	7.71247E-02	-3.27251E 01	-7.35089E-02	2.28528E 00	2.98993E-02	
33.40	1.15086E-03	2.23110E 00	7.78825E-02	-3.27262E 01	-7.42471E-02	2.29889E 00	2.99002E-02	
33.50	1.15776E-03	2.24455E 00	7.86453E-02	-3.27273E 01	-7.49901E-02	2.31254E 00	2.99011E-02	
33.60	1.16468E-03	2.25804E 00	7.94130E-02	-3.27285E 01	-7.57380E-02	2.32623E 00	2.99020E-02	
33.70	1.17162E-03	2.27156E 00	8.01856E-02	-3.27296E 01	-7.64908E-02	2.33996E 00	2.99029E-02	
33.80	1.17858E-03	2.28513E 00	8.09631E-02	-3.27307E 01	-7.72484E-02	2.35373E 00	2.99038E-02	
33.90	1.18556E-03	2.29874E 00	8.17457E-02	-3.27318E 01	-7.80111E-02	2.36754E 00	2.99047E-02	
34.00	1.19256E-03	2.31238E 00	8.25332E-02	-3.27329E 01	-7.87786E-02	2.38139E 00	2.99056E-02	
34.10	1.19958E-03	2.32607E 00	8.33257E-02	-3.27340E 01	-7.95511E-02	2.39528E 00	2.99064E-02	
34.20	1.20662E-03	2.33979E 00	8.41233E-02	-3.27351E 01	-8.03286E-02	2.40920E 00	2.99073E-02	
34.30	1.21369E-03	2.35356E 00	8.49259E-02	-3.27361E 01	-8.11110E-02	2.42317E 00	2.99082E-02	
34.40	1.22077E-03	2.36737E 00	8.57335E-02	-3.27372E 01	-8.18985E-02	2.43718E 00	2.99090E-02	
34.50	1.22788E-03	2.38122E 00	8.65463E-02	-3.27383E 01	-8.26909E-02	2.45123E 00	2.99099E-02	
34.60	1.23500E-03	2.39510E 00	8.73641E-02	-3.27393E 01	-8.34884E-02	2.46532E 00	2.99107E-02	
34.70	1.24215E-03	2.40903E 00	8.81870E-02	-3.27404E 01	-8.42910E-02	2.47945E 00	2.99116E-02	
34.80	1.24932E-03	2.42299E 00	8.90150E-02	-3.27414E 01	-8.50986E-02	2.49362E 00	2.99124E-02	
34.90	1.25650E-03	2.43700E 00	8.98482E-02	-3.27425E 01	-8.59113E-02	2.50782E 00	2.99132E-02	
35.00	1.26371E-03	2.45105E 00	9.06864E-02	-3.27435E 01	-8.67291E-02	2.52207E 00	2.99141E-02	
35.10	1.27094E-03	2.46513E 00	9.15299E-02	-3.27445E 01	-8.75520E-02	2.53636E 00	2.99149E-02	
35.20	1.27819E-03	2.47926E 00	9.23785E-02	-3.27455E 01	-8.83800E-02	2.55069E 00	2.99157E-02	
35.30	1.28546E-03	2.49342E 00	9.32324E-02	-3.27466E 01	-8.92132E-02	2.56506E 00	2.99165E-02	
35.40	1.29275E-03	2.50763E 00	9.40914E-02	-3.27476E 01	-9.00515E-02	2.57946E 00	2.99174E-02	
35.50	1.30006E-03	2.52188E 00	9.49557E-02	-3.27486E 01	-9.08950E-02	2.59391E 00	2.99182E-02	
35.60	1.30739E-03	2.53616E 00	9.58252E-02	-3.27496E 01	-9.17436E-02	2.60840E 00	2.99190E-02	
35.70	1.31474E-03	2.55049E 00	9.66999E-02	-3.27506E 01	-9.25975E-02	2.62293E 00	2.99198E-02	
35.80	1.32212E-03	2.56485E 00	9.75800E-02	-3.27515E 01	-9.34566E-02	2.63749E 00	2.99206E-02	
35.90	1.32951E-03	2.57926E 00	9.84653E-02	-3.27525E 01	-9.43210E-02	2.65210E 00	2.99213E-02	
36.00	1.33692E-03	2.59370E 00	9.93559E-02	-3.27535E 01	-9.51906E-02	2.66675E 00	2.99221E-02	



## ELECTRON RADIAL FUNCTIONS

Positron $p$	$Z=6$ $A=12$ $\rho=1.1 A^{1/3} F$							
	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
36.10	8.74002E-01	3.40206E 01	2.15367E 00	-1.08842E-03	-2.06459E 00	3.50244E 01	4.36744E 02	
36.20	8.73998E-01	3.41195E 01	2.16740E 00	-1.08891E-03	-2.07812E 00	3.51237E 01	4.37296E 02	
36.30	8.73993E-01	3.42185E 01	2.18117E 00	-1.08940E-03	-2.09170E 00	3.52230E 01	4.37846E 02	
36.40	8.73989E-01	3.43175E 01	2.19499E 00	-1.08988E-03	-2.10533E 00	3.53224E 01	4.38398E 02	
36.50	8.73985E-01	3.44165E 01	2.20885E 00	-1.09034E-03	-2.11900E 00	3.54218E 01	4.38950E 02	
36.60	8.73980E-01	3.45155E 01	2.22276E 00	-1.09078E-03	-2.13272E 00	3.55212E 01	4.39503E 02	
36.70	8.73976E-01	3.46146E 01	2.23671E 00	-1.09123E-03	-2.14648E 00	3.56206E 01	4.40053E 02	
36.80	8.73972E-01	3.47137E 01	2.25072E 00	-1.09165E-03	-2.16029E 00	3.57201E 01	4.40607E 02	
36.90	8.73967E-01	3.48128E 01	2.26476E 00	-1.09206E-03	-2.17415E 00	3.58196E 01	4.41160E 02	
37.00	8.73963E-01	3.49119E 01	2.27885E 00	-1.09246E-03	-2.18804E 00	3.59191E 01	4.41712E 02	
37.10	8.73959E-01	3.50111E 01	2.29299E 00	-1.09285E-03	-2.20199E 00	3.60186E 01	4.42266E 02	
37.20	8.73955E-01	3.51103E 01	2.30717E 00	-1.09322E-03	-2.21598E 00	3.61182E 01	4.42821E 02	
37.30	8.73950E-01	3.52096E 01	2.32140E 00	-1.09359E-03	-2.23002E 00	3.62178E 01	4.43375E 02	
37.40	8.73946E-01	3.53088E 01	2.33567E 00	-1.09394E-03	-2.24410E 00	3.63175E 01	4.43929E 02	
37.50	8.73942E-01	3.54081E 01	2.34999E 00	-1.09429E-03	-2.25823E 00	3.64171E 01	4.44484E 02	
37.60	8.73938E-01	3.55074E 01	2.36436E 00	-1.09461E-03	-2.27240E 00	3.65168E 01	4.45040E 02	
37.70	8.73933E-01	3.56068E 01	2.37877E 00	-1.09494E-03	-2.28662E 00	3.66166E 01	4.45594E 02	
37.80	8.73929E-01	3.57061E 01	2.39320E 00	-1.09524E-03	-2.30089E 00	3.67163E 01	4.46151E 02	
37.90	8.73925E-01	3.58055E 01	2.40773E 00	-1.09554E-03	-2.31520E 00	3.68161E 01	4.46708E 02	
38.00	8.73921E-01	3.59050E 01	2.42228E 00	-1.09582E-03	-2.32956E 00	3.69159E 01	4.47265E 02	
38.10	8.73917E-01	3.60044E 01	2.43687E 00	-1.09610E-03	-2.34396E 00	3.70158E 01	4.47822E 02	
38.20	8.73912E-01	3.61039E 01	2.45151E 00	-1.09637E-03	-2.35841E 00	3.71156E 01	4.48379E 02	
38.30	8.73908E-01	3.62034E 01	2.46620E 00	-1.09661E-03	-2.37291E 00	3.72155E 01	4.48938E 02	
38.40	8.73904E-01	3.63030E 01	2.48093E 00	-1.09685E-03	-2.38745E 00	3.73155E 01	4.49497E 02	
38.50	8.73900E-01	3.64026E 01	2.49571E 00	-1.09708E-03	-2.40204E 00	3.74154E 01	4.50056E 02	
38.60	8.73896E-01	3.65022E 01	2.51054E 00	-1.09731E-03	-2.41667E 00	3.75154E 01	4.50615E 02	
38.70	8.73892E-01	3.66018E 01	2.52541E 00	-1.09751E-03	-2.43135E 00	3.76154E 01	4.51176E 02	
38.80	8.73888E-01	3.67014E 01	2.54032E 00	-1.09771E-03	-2.44608E 00	3.77155E 01	4.51736E 02	
38.90	8.73884E-01	3.68011E 01	2.55529E 00	-1.09789E-03	-2.46085E 00	3.78156E 01	4.52298E 02	
39.00	8.73879E-01	3.69008E 01	2.57029E 00	-1.09807E-03	-2.47567E 00	3.79157E 01	4.52860E 02	
39.10	8.73875E-01	3.70006E 01	2.58535E 00	-1.09824E-03	-2.49054E 00	3.80158E 01	4.53421E 02	
39.20	8.73871E-01	3.71004E 01	2.60045E 00	-1.09839E-03	-2.50545E 00	3.81160E 01	4.53985E 02	
39.30	8.73867E-01	3.72002E 01	2.61560E 00	-1.09853E-03	-2.52041E 00	3.82162E 01	4.54549E 02	
39.40	8.73863E-01	3.73000E 01	2.63079E 00	-1.09867E-03	-2.53541E 00	3.83164E 01	4.55112E 02	
39.50	8.73859E-01	3.73999E 01	2.64603E 00	-1.09879E-03	-2.55046E 00	3.84167E 01	4.55677E 02	
39.60	8.73855E-01	3.74998E 01	2.66132E 00	-1.09890E-03	-2.56556E 00	3.85170E 01	4.56243E 02	
39.70	8.73851E-01	3.75997E 01	2.67665E 00	-1.09900E-03	-2.58070E 00	3.86173E 01	4.56808E 02	
39.80	8.73847E-01	3.76996E 01	2.69203E 00	-1.09910E-03	-2.59589E 00	3.87176E 01	4.57375E 02	
39.90	8.73843E-01	3.77996E 01	2.70746E 00	-1.09918E-03	-2.61113E 00	3.88180E 01	4.57941E 02	
40.00	8.73839E-01	3.78996E 01	2.72293E 00	-1.09925E-03	-2.62641E 00	3.89184E 01	4.58509E 02	
40.10	8.73835E-01	3.79997E 01	2.73845E 00	-1.09931E-03	-2.64174E 00	3.90189E 01	4.59078E 02	
40.20	8.73831E-01	3.80997E 01	2.75401E 00	-1.09936E-03	-2.65712E 00	3.91194E 01	4.59648E 02	
40.30	8.73827E-01	3.81998E 01	2.76962E 00	-1.09941E-03	-2.67254E 00	3.92199E 01	4.60217E 02	
40.40	8.73823E-01	3.83000E 01	2.78528E 00	-1.09944E-03	-2.68801E 00	3.93204E 01	4.60787E 02	
40.50	8.73819E-01	3.84001E 01	2.80099E 00	-1.09946E-03	-2.70353E 00	3.94210E 01	4.61358E 02	
40.60	8.73815E-01	3.85003E 01	2.81674E 00	-1.09947E-03	-2.71909E 00	3.95216E 01	4.61930E 02	
40.70	8.73811E-01	3.86006E 01	2.83253E 00	-1.09948E-03	-2.73470E 00	3.96222E 01	4.62501E 02	
40.80	8.73807E-01	3.87008E 01	2.84838E 00	-1.09947E-03	-2.75036E 00	3.97229E 01	4.63075E 02	
40.90	8.73803E-01	3.88011E 01	2.86427E 00	-1.09945E-03	-2.76606E 00	3.98236E 01	4.63649E 02	
41.00	8.73800E-01	3.89014E 01	2.88021E 00	-1.09943E-03	-2.78181E 00	3.99243E 01	4.64223E 02	
41.10	8.73796E-01	3.90017E 01	2.89619E 00	-1.09939E-03	-2.79761E 00	4.00251E 01	4.64799E 02	
41.20	8.73792E-01	3.91021E 01	2.91222E 00	-1.09935E-03	-2.81346E 00	4.01259E 01	4.65374E 02	
41.30	8.73788E-01	3.92025E 01	2.92830E 00	-1.09929E-03	-2.82935E 00	4.02267E 01	4.65952E 02	
41.40	8.73784E-01	3.93030E 01	2.94443E 00	-1.09922E-03	-2.84529E 00	4.03276E 01	4.66531E 02	
41.50	8.73780E-01	3.94034E 01	2.96060E 00	-1.09915E-03	-2.86127E 00	4.04284E 01	4.67109E 02	
41.60	8.73776E-01	3.95039E 01	2.97682E 00	-1.09907E-03	-2.87730E 00	4.05294E 01	4.67688E 02	
41.70	8.73772E-01	3.96045E 01	2.99309E 00	-1.09898E-03	-2.89338E 00	4.06303E 01	4.68268E 02	
41.80	8.73769E-01	3.97050E 01	3.00940E 00	-1.09888E-03	-2.90951E 00	4.07313E 01	4.68849E 02	
41.90	8.73765E-01	3.98056E 01	3.02576E 00	-1.09876E-03	-2.92568E 00	4.08323E 01	4.69431E 02	
42.00	8.73761E-01	3.99063E 01	3.04217E 00	-1.09864E-03	-2.94190E 00	4.09334E 01	4.70015E 02	

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=6$			$A=12$			$\rho=1.1 A^{1/3} F$			Positron
		$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$	$f_2$	$g_2$	$\tan \delta_2$	
36.10	1.34436E-03	2.60819E 00	1.00252E-01	-3.27545E 01	-9.60655E-02	2.68144E 00	2.99229E-02				
36.20	1.35181E-03	2.62271E 00	1.01153E-01	-3.27554E 01	-9.69456E-02	2.69616E 00	2.99237E-02				
36.30	1.35929E-03	2.63728E 00	1.02060E-01	-3.27564E 01	-9.78310E-02	2.71093E 00	2.99245E-02				
36.40	1.36678E-03	2.65188E 00	1.02972E-01	-3.27573E 01	-9.87218E-02	2.72574E 00	2.99252E-02				
36.50	1.37430E-03	2.66653E 00	1.03889E-01	-3.27583E 01	-9.96178E-02	2.74058E 00	2.99260E-02				
36.60	1.38184E-03	2.68121E 00	1.04812E-01	-3.27592E 01	-1.00519E-01	2.75547E 00	2.99268E-02				
36.70	1.38940E-03	2.69593E 00	1.05740E-01	-3.27602E 01	-1.01426E-01	2.77039E 00	2.99275E-02				
36.80	1.39698E-03	2.71070E 00	1.06674E-01	-3.27611E 01	-1.02338E-01	2.78536E 00	2.99283E-02				
36.90	1.40457E-03	2.72550E 00	1.07613E-01	-3.27620E 01	-1.03256E-01	2.80037E 00	2.99290E-02				
37.00	1.41219E-03	2.74035E 00	1.08557E-01	-3.27629E 01	-1.04179E-01	2.81541E 00	2.99298E-02				
37.10	1.41984E-03	2.75523E 00	1.09507E-01	-3.27639E 01	-1.05107E-01	2.83050E 00	2.99305E-02				
37.20	1.42750E-03	2.77015E 00	1.10463E-01	-3.27648E 01	-1.06041E-01	2.84562E 00	2.99313E-02				
37.30	1.43518E-03	2.78512E 00	1.11424E-01	-3.27657E 01	-1.06980E-01	2.86079E 00	2.99320E-02				
37.40	1.44288E-03	2.80012E 00	1.12390E-01	-3.27666E 01	-1.07925E-01	2.87599E 00	2.99327E-02				
37.50	1.45060E-03	2.81516E 00	1.13362E-01	-3.27675E 01	-1.08875E-01	2.89124E 00	2.99335E-02				
37.60	1.45835E-03	2.83024E 00	1.14340E-01	-3.27684E 01	-1.09831E-01	2.90652E 00	2.99342E-02				
37.70	1.46611E-03	2.84537E 00	1.15323E-01	-3.27692E 01	-1.10792E-01	2.92184E 00	2.99349E-02				
37.80	1.47390E-03	2.86053E 00	1.16312E-01	-3.27701E 01	-1.11759E-01	2.93721E 00	2.99356E-02				
37.90	1.48170E-03	2.87573E 00	1.17306E-01	-3.27710E 01	-1.12731E-01	2.95261E 00	2.99363E-02				
38.00	1.48953E-03	2.89097E 00	1.18306E-01	-3.27719E 01	-1.13709E-01	2.96805E 00	2.99371E-02				
38.10	1.49737E-03	2.90625E 00	1.19311E-01	-3.27727E 01	-1.14692E-01	2.98354E 00	2.99378E-02				
38.20	1.50524E-03	2.92157E 00	1.20323E-01	-3.27736E 01	-1.15681E-01	2.99906E 00	2.99385E-02				
38.30	1.51313E-03	2.93693E 00	1.21339E-01	-3.27745E 01	-1.16676E-01	3.01462E 00	2.99392E-02				
38.40	1.52104E-03	2.95233E 00	1.22362E-01	-3.27753E 01	-1.17676E-01	3.03022E 00	2.99399E-02				
38.50	1.52897E-03	2.96777E 00	1.23390E-01	-3.27762E 01	-1.18682E-01	3.04587E 00	2.99406E-02				
38.60	1.53691E-03	2.98325E 00	1.24424E-01	-3.27770E 01	-1.19694E-01	3.06155E 00	2.99412E-02				
38.70	1.54489E-03	2.99877E 00	1.25464E-01	-3.27778E 01	-1.20711E-01	3.07727E 00	2.99419E-02				
38.80	1.55288E-03	3.01433E 00	1.26509E-01	-3.27787E 01	-1.21734E-01	3.09303E 00	2.99426E-02				
38.90	1.56089E-03	3.02993E 00	1.27560E-01	-3.27795E 01	-1.22762E-01	3.10883E 00	2.99433E-02				
39.00	1.56892E-03	3.04557E 00	1.28617E-01	-3.27803E 01	-1.23797E-01	3.12467E 00	2.99440E-02				
39.10	1.57697E-03	3.06125E 00	1.29680E-01	-3.27811E 01	-1.24837E-01	3.14055E 00	2.99446E-02				
39.20	1.58504E-03	3.07697E 00	1.30749E-01	-3.27820E 01	-1.25883E-01	3.15647E 00	2.99453E-02				
39.30	1.59314E-03	3.09272E 00	1.31823E-01	-3.27828E 01	-1.26934E-01	3.17243E 00	2.99460E-02				
39.40	1.60125E-03	3.10852E 00	1.32903E-01	-3.27836E 01	-1.27992E-01	3.18843E 00	2.99466E-02				
39.50	1.60939E-03	3.12436E 00	1.33989E-01	-3.27844E 01	-1.29055E-01	3.20447E 00	2.99473E-02				
39.60	1.61754E-03	3.14024E 00	1.35081E-01	-3.27852E 01	-1.30124E-01	3.22055E 00	2.99480E-02				
39.70	1.62572E-03	3.15615E 00	1.36179E-01	-3.27860E 01	-1.31198E-01	3.23666E 00	2.99486E-02				
39.80	1.63392E-03	3.17211E 00	1.37282E-01	-3.27868E 01	-1.32279E-01	3.25282E 00	2.99493E-02				
39.90	1.64213E-03	3.18810E 00	1.38392E-01	-3.27876E 01	-1.33366E-01	3.26902E 00	2.99499E-02				
40.00	1.65037E-03	3.20414E 00	1.39507E-01	-3.27883E 01	-1.34458E-01	3.28525E 00	2.99506E-02				
40.10	1.65863E-03	3.22021E 00	1.40629E-01	-3.27891E 01	-1.35556E-01	3.30153E 00	2.99512E-02				
40.20	1.66691E-03	3.23633E 00	1.41756E-01	-3.27899E 01	-1.36660E-01	3.31785E 00	2.99518E-02				
40.30	1.67521E-03	3.25248E 00	1.42889E-01	-3.27907E 01	-1.37770E-01	3.33420E 00	2.99525E-02				
40.40	1.68353E-03	3.26868E 00	1.44029E-01	-3.27914E 01	-1.38886E-01	3.35060E 00	2.99531E-02				
40.50	1.69187E-03	3.28491E 00	1.45174E-01	-3.27922E 01	-1.40008E-01	3.36703E 00	2.99537E-02				
40.60	1.70023E-03	3.30118E 00	1.46325E-01	-3.27930E 01	-1.41136E-01	3.38351E 00	2.99544E-02				
40.70	1.70861E-03	3.31750E 00	1.47483E-01	-3.27937E 01	-1.42270E-01	3.40002E 00	2.99550E-02				
40.80	1.71702E-03	3.33385E 00	1.48646E-01	-3.27945E 01	-1.43410E-01	3.41658E 00	2.99556E-02				
40.90	1.72544E-03	3.35024E 00	1.49816E-01	-3.27952E 01	-1.44556E-01	3.43317E 00	2.99562E-02				
41.00	1.73388E-03	3.36667E 00	1.50991E-01	-3.27960E 01	-1.45708E-01	3.44980E 00	2.99568E-02				
41.10	1.74235E-03	3.38314E 00	1.52173E-01	-3.27967E 01	-1.46866E-01	3.46647E 00	2.99574E-02				
41.20	1.75083E-03	3.39965E 00	1.53361E-01	-3.27974E 01	-1.48030E-01	3.48319E 00	2.99581E-02				
41.30	1.75934E-03	3.41620E 00	1.54554E-01	-3.27982E 01	-1.49200E-01	3.49994E 00	2.99587E-02				
41.40	1.76787E-03	3.43279E 00	1.55754E-01	-3.27989E 01	-1.50376E-01	3.51673E 00	2.99593E-02				
41.50	1.77641E-03	3.44942E 00	1.56961E-01	-3.27996E 01	-1.51558E-01	3.53356E 00	2.99599E-02				
41.60	1.78498E-03	3.46609E 00	1.58173E-01	-3.28003E 01	-1.52747E-01	3.55043E 00	2.99605E-02				
41.70	1.79357E-03	3.48280E 00	1.59392E-01	-3.28011E 01	-1.53941E-01	3.56734E 00	2.99611E-02				
41.80	1.80218E-03	3.49955E 00	1.60616E-01	-3.28018E 01	-1.55142E-01	3.58429E 00	2.99617E-02				
41.90	1.81081E-03	3.51634E 00	1.61847E-01	-3.28025E 01	-1.56349E-01	3.60128E 00	2.99623E-02				
42.00	1.81946E-03	3.53316E 00	1.63084E-01	-3.28032E 01	-1.57562E-01	3.61830E 00	2.99628E-02				



ELECTRON RADIAL FUNCTIONS

Positron	$Z=7$	$A=14$	$\rho=1.1 A^{1/3} F$				
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
0.10	1.36555E-01	2.91537E-03	-4.62017E-05	2.30203E-01	1.06576E-03	5.21783E-02	3.98269E 00
0.20	4.04156E-01	1.82769E-02	-2.89025E-04	1.11060E-01	3.64764E-03	1.78881E-01	7.12425E 00
0.30	5.54684E-01	4.65353E-02	-7.33312E-04	7.38208E-02	6.35572E-03	3.12536E-01	1.04983E 01
0.40	6.42000E-01	8.64046E-02	-1.35505E-03	5.53965E-02	9.01486E-03	4.44951E-01	1.39278E 01
0.50	6.97038E-01	1.36343E-01	-2.12541E-03	4.43434E-02	1.15839E-02	5.74412E-01	1.73736E 01
0.60	7.33998E-01	1.94762E-01	-3.01462E-03	3.69484E-02	1.40478E-02	7.00421E-01	2.08178E 01
0.70	7.60007E-01	2.60167E-01	-3.99455E-03	3.16390E-02	1.64021E-02	8.22924E-01	2.42489E 01
0.80	7.78973E-01	3.31230E-01	-5.04014E-03	2.76336E-02	1.86477E-02	9.42083E-01	2.76594E 01
0.90	7.93198E-01	4.06820E-01	-6.13005E-03	2.44992E-02	2.07887E-02	1.05817E 00	3.10436E 01
1.00	8.04115E-01	4.86006E-01	-7.24662E-03	2.19765E-02	2.28304E-02	1.17149E 00	3.43975E 01
1.10	8.12656E-01	5.68036E-01	-8.37558E-03	1.99003E-02	2.47788E-02	1.28238E 00	3.77182E 01
1.20	8.19448E-01	6.52312E-01	-9.50554E-03	1.81605E-02	2.66399E-02	1.39114E 00	4.10037E 01
1.30	8.24926E-01	7.38362E-01	-1.06275E-02	1.66806E-02	2.84192E-02	1.49804E 00	4.42526E 01
1.40	8.29399E-01	8.25814E-01	-1.17343E-02	1.54058E-02	3.01217E-02	1.60333E 00	4.74641E 01
1.50	8.33093E-01	9.14378E-01	-1.28204E-02	1.42959E-02	3.17520E-02	1.70723E 00	5.06375E 01
1.60	8.36172E-01	1.00383E 00	-1.38815E-02	1.33206E-02	3.33138E-02	1.80993E 00	5.37728E 01
1.70	8.38762E-01	1.09398E 00	-1.49140E-02	1.24566E-02	3.48106E-02	1.91159E 00	5.68697E 01
1.80	8.40958E-01	1.18470E 00	-1.59153E-02	1.16858E-02	3.62452E-02	2.01234E 00	5.99286E 01
1.90	8.42833E-01	1.27588E 00	-1.68831E-02	1.09938E-02	3.76203E-02	2.11230E 00	6.29496E 01
2.00	8.44444E-01	1.36742E 00	-1.78159E-02	1.03690E-02	3.89378E-02	2.21157E 00	6.59330E 01
2.10	8.45837E-01	1.45925E 00	-1.87122E-02	9.80207E-03	4.01996E-02	2.31024E 00	6.88792E 01
2.20	8.47048E-01	1.55133E 00	-1.95709E-02	9.28524E-03	4.14074E-02	2.40839E 00	7.17888E 01
2.30	8.48106E-01	1.64361E 00	-2.03911E-02	8.81217E-03	4.25625E-02	2.50606E 00	7.46623E 01
2.40	8.49034E-01	1.73604E 00	-2.11722E-02	8.37748E-03	4.36661E-02	2.60333E 00	7.75000E 01
2.50	8.49852E-01	1.82861E 00	-2.19135E-02	7.97668E-03	4.47191E-02	2.70024E 00	8.03026E 01
2.60	8.50575E-01	1.92128E 00	-2.26146E-02	7.60595E-03	4.57225E-02	2.79682E 00	8.30706E 01
2.70	8.51218E-01	2.01404E 00	-2.32751E-02	7.26202E-03	4.66770E-02	2.89311E 00	8.58046E 01
2.80	8.51790E-01	2.10687E 00	-2.38946E-02	6.94207E-03	4.75833E-02	2.98915E 00	8.85051E 01
2.90	8.52301E-01	2.19976E 00	-2.44730E-02	6.64368E-03	4.84420E-02	3.08495E 00	9.11726E 01
3.00	8.52759E-01	2.29271E 00	-2.50099E-02	6.36475E-03	4.92535E-02	3.18055E 00	9.38079E 01
3.10	8.53170E-01	2.38569E 00	-2.55053E-02	6.10340E-03	5.00184E-02	3.27596E 00	9.64112E 01
3.20	8.53540E-01	2.47870E 00	-2.59589E-02	5.85807E-03	5.07371E-02	3.37121E 00	9.89834E 01
3.30	8.53875E-01	2.57175E 00	-2.63707E-02	5.62728E-03	5.14098E-02	3.46630E 00	1.01525E 02
3.40	8.54177E-01	2.66481E 00	-2.67405E-02	5.40980E-03	5.20369E-02	3.56126E 00	1.04036E 02
3.50	8.54452E-01	2.75790E 00	-2.70682E-02	5.20451E-03	5.26187E-02	3.65609E 00	1.06518E 02
3.60	8.54700E-01	2.85100E 00	-2.73538E-02	5.01040E-03	5.31554E-02	3.75081E 00	1.08970E 02
3.70	8.54926E-01	2.94411E 00	-2.75972E-02	4.82660E-03	5.36473E-02	3.84542E 00	1.11394E 02
3.80	8.55132E-01	3.03724E 00	-2.77984E-02	4.65230E-03	5.40944E-02	3.93994E 00	1.13790E 02
3.90	8.55320E-01	3.13037E 00	-2.79572E-02	4.48677E-03	5.44971E-02	4.03437E 00	1.16157E 02
4.00	8.55492E-01	3.22351E 00	-2.80738E-02	4.32939E-03	5.48555E-02	4.12873E 00	1.18498E 02
4.10	8.55648E-01	3.31666E 00	-2.81479E-02	4.17955E-03	5.51697E-02	4.22301E 00	1.20812E 02
4.20	8.55791E-01	3.40981E 00	-2.81797E-02	4.03674E-03	5.54398E-02	4.31723E 00	1.23100E 02
4.30	8.55922E-01	3.50296E 00	-2.81691E-02	3.90047E-03	5.56660E-02	4.41138E 00	1.25362E 02
4.40	8.56043E-01	3.59612E 00	-2.81160E-02	3.77030E-03	5.58483E-02	4.50549E 00	1.27599E 02
4.50	8.56153E-01	3.68928E 00	-2.80205E-02	3.64582E-03	5.59869E-02	4.59953E 00	1.29811E 02
4.60	8.56254E-01	3.78244E 00	-2.78825E-02	3.52669E-03	5.60818E-02	4.69354E 00	1.31998E 02
4.70	8.56347E-01	3.87561E 00	-2.77021E-02	3.41255E-03	5.61332E-02	4.78750E 00	1.34161E 02
4.80	8.56432E-01	3.96878E 00	-2.74791E-02	3.30311E-03	5.61410E-02	4.88142E 00	1.36301E 02
4.90	8.56511E-01	4.06195E 00	-2.72136E-02	3.19808E-03	5.61054E-02	4.97530E 00	1.38417E 02
5.00	8.56583E-01	4.15512E 00	-2.69057E-02	3.09720E-03	5.60264E-02	5.06915E 00	1.40511E 02
5.10	8.56649E-01	4.24829E 00	-2.65552E-02	3.00023E-03	5.59041E-02	5.16297E 00	1.42582E 02
5.20	8.56709E-01	4.34146E 00	-2.61621E-02	2.90694E-03	5.57385E-02	5.25676E 00	1.44631E 02
5.30	8.56765E-01	4.43464E 00	-2.57265E-02	2.81714E-03	5.55297E-02	5.35052E 00	1.46658E 02
5.40	8.56817E-01	4.52782E 00	-2.52484E-02	2.73062E-03	5.52776E-02	5.44426E 00	1.48664E 02
5.50	8.56864E-01	4.62099E 00	-2.47278E-02	2.64722E-03	5.49825E-02	5.53798E 00	1.50648E 02
5.60	8.56907E-01	4.71417E 00	-2.41646E-02	2.56678E-03	5.46442E-02	5.63167E 00	1.52613E 02
5.70	8.56946E-01	4.80736E 00	-2.35588E-02	2.48913E-03	5.42628E-02	5.72535E 00	1.54556E 02
5.80	8.56983E-01	4.90054E 00	-2.29104E-02	2.41413E-03	5.38383E-02	5.81901E 00	1.56480E 02
5.90	8.57016E-01	4.99373E 00	-2.22195E-02	2.34165E-03	5.33708E-02	5.91266E 00	1.58384E 02
6.00	8.57046E-01	5.08691E 00	-2.14860E-02	2.27157E-03	5.28603E-02	6.00629E 00	1.60269E 02

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$        $A = 14$        $\rho = 1.1 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
0.10	2.23450E-09	6.83577E-07	-6.09984E-09	-1.93299E 00	1.55834E-07	1.33536E-05	2.31355E-01
0.20	2.23671E-08	8.39413E-06	-7.47335E-08	-4.07750E 00	9.80775E-07	8.41906E-05	1.13974E-01
0.30	6.67545E-08	3.19354E-05	-2.83260E-07	-6.06943E 00	2.51969E-06	2.16912E-04	7.85227E-02
0.40	1.35713E-07	7.89613E-05	-6.96792E-07	-7.92500E 00	4.73567E-06	4.09276E-04	6.18327E-02
0.50	2.28968E-07	1.55664E-04	-1.36489E-06	-9.63454E 00	7.58375E-06	6.58624E-04	5.24336E-02
0.60	3.46183E-07	2.66766E-04	-2.32141E-06	-1.11927E 01	1.10168E-05	9.62305E-04	4.65986E-02
0.70	4.87056E-07	4.15693E-04	-3.58627E-06	-1.26008E 01	1.49892E-05	1.31789E-03	4.27492E-02
0.80	6.51334E-07	6.04803E-04	-5.16796E-06	-1.38656E 01	1.94582E-05	1.72330E-03	4.01026E-02
0.90	8.38811E-07	8.35654E-04	-7.06626E-06	-1.49972E 01	2.43852E-05	2.17680E-03	3.82283E-02
1.00	1.04933E-06	1.10923E-03	-9.27468E-06	-1.60074E 01	2.97356E-05	2.67701E-03	3.68714E-02
1.10	1.28275E-06	1.42609E-03	-1.17823E-05	-1.69088E 01	3.54781E-05	3.22284E-03	3.58726E-02
1.20	1.53898E-06	1.78656E-03	-1.45754E-05	-1.77135E 01	4.15848E-05	3.81347E-03	3.51280E-02
1.30	1.81795E-06	2.19078E-03	-1.76383E-05	-1.84327E 01	4.80299E-05	4.44825E-03	3.45678E-02
1.40	2.11958E-06	2.63878E-03	-2.09540E-05	-1.90768E 01	5.47898E-05	5.12670E-03	3.41435E-02
1.50	2.44382E-06	3.13051E-03	-2.45049E-05	-1.96550E 01	6.18423E-05	5.84847E-03	3.38211E-02
1.60	2.79065E-06	3.66592E-03	-2.82730E-05	-2.01754E 01	6.91664E-05	6.61328E-03	3.35758E-02
1.70	3.16002E-06	4.24492E-03	-3.22399E-05	-2.06450E 01	7.67418E-05	7.42093E-03	3.33896E-02
1.80	3.55192E-06	4.86740E-03	-3.63872E-05	-2.10700E 01	8.45491E-05	8.27126E-03	3.32490E-02
1.90	3.96631E-06	5.53327E-03	-4.06967E-05	-2.14558E 01	9.25694E-05	9.16417E-03	3.31440E-02
2.00	4.40319E-06	6.24245E-03	-4.51499E-05	-2.18070E 01	1.00784E-04	1.00996E-02	3.30670E-02
2.10	4.86254E-06	6.99485E-03	-4.97284E-05	-2.21276E 01	1.09174E-04	1.10774E-02	3.30120E-02
2.20	5.34435E-06	7.79039E-03	-5.44141E-05	-2.24210E 01	1.17723E-04	1.20976E-02	3.29745E-02
2.30	5.84861E-06	8.62899E-03	-5.91887E-05	-2.26903E 01	1.26411E-04	1.31602E-02	3.29508E-02
2.40	6.37531E-06	9.51059E-03	-6.40341E-05	-2.29381E 01	1.35222E-04	1.42650E-02	3.29382E-02
2.50	6.92444E-06	1.04351E-02	-6.89323E-05	-2.31667E 01	1.44136E-04	1.54122E-02	3.29345E-02
2.60	7.49600E-06	1.14026E-02	-7.38652E-05	-2.33781E 01	1.53138E-04	1.66017E-02	3.29378E-02
2.70	8.08998E-06	1.24129E-02	-7.88149E-05	-2.35740E 01	1.62209E-04	1.78335E-02	3.29468E-02
2.80	8.70638E-06	1.34659E-02	-8.37635E-05	-2.37559E 01	1.71331E-04	1.91076E-02	3.29603E-02
2.90	9.34519E-06	1.45618E-02	-8.86932E-05	-2.39253E 01	1.80488E-04	2.04239E-02	3.29774E-02
3.00	1.00064E-05	1.57004E-02	-9.35862E-05	-2.40832E 01	1.89661E-04	2.17825E-02	3.29973E-02
3.10	1.06900E-05	1.68816E-02	-9.84246E-05	-2.42308E 01	1.98834E-04	2.31834E-02	3.30195E-02
3.20	1.13961E-05	1.81056E-02	-1.03191E-04	-2.43690E 01	2.07988E-04	2.46266E-02	3.30434E-02
3.30	1.21245E-05	1.93722E-02	-1.07867E-04	-2.44985E 01	2.17106E-04	2.61121E-02	3.30686E-02
3.40	1.28753E-05	2.06814E-02	-1.12435E-04	-2.46202E 01	2.26172E-04	2.76398E-02	3.30948E-02
3.50	1.36486E-05	2.20332E-02	-1.16879E-04	-2.47347E 01	2.35166E-04	2.92099E-02	3.31217E-02
3.60	1.44442E-05	2.34276E-02	-1.21179E-04	-2.48426E 01	2.44073E-04	3.08222E-02	3.31491E-02
3.70	1.52622E-05	2.48646E-02	-1.25319E-04	-2.49445E 01	2.52874E-04	3.24768E-02	3.31768E-02
3.80	1.61026E-05	2.63441E-02	-1.29280E-04	-2.50407E 01	2.61553E-04	3.41738E-02	3.32047E-02
3.90	1.69654E-05	2.78662E-02	-1.33046E-04	-2.51318E 01	2.70091E-04	3.59130E-02	3.32326E-02
4.00	1.78506E-05	2.94308E-02	-1.36598E-04	-2.52181E 01	2.78472E-04	3.76946E-02	3.32604E-02
4.10	1.87582E-05	3.10379E-02	-1.39919E-04	-2.52999E 01	2.86677E-04	3.95184E-02	3.32880E-02
4.20	1.96882E-05	3.26875E-02	-1.42992E-04	-2.53777E 01	2.94690E-04	4.13846E-02	3.33155E-02
4.30	2.06405E-05	3.43796E-02	-1.45799E-04	-2.54516E 01	3.02493E-04	4.32931E-02	3.33426E-02
4.40	2.16153E-05	3.61142E-02	-1.48322E-04	-2.55220E 01	3.10068E-04	4.52439E-02	3.33694E-02
4.50	2.26124E-05	3.78913E-02	-1.50544E-04	-2.55891E 01	3.17399E-04	4.72370E-02	3.33959E-02
4.60	2.36319E-05	3.97108E-02	-1.52447E-04	-2.56531E 01	3.24467E-04	4.92725E-02	3.34220E-02
4.70	2.46737E-05	4.15728E-02	-1.54014E-04	-2.57142E 01	3.31256E-04	5.13502E-02	3.34476E-02
4.80	2.57380E-05	4.34773E-02	-1.55228E-04	-2.57726E 01	3.37747E-04	5.34703E-02	3.34729E-02
4.90	2.68246E-05	4.54242E-02	-1.56070E-04	-2.58285E 01	3.43925E-04	5.56328E-02	3.34977E-02
5.00	2.79337E-05	4.74136E-02	-1.56523E-04	-2.58820E 01	3.49770E-04	5.78376E-02	3.35221E-02
5.10	2.90651E-05	4.94454E-02	-1.56570E-04	-2.59332E 01	3.55266E-04	6.00847E-02	3.35460E-02
5.20	3.02188E-05	5.15196E-02	-1.56194E-04	-2.59824E 01	3.60395E-04	6.23742E-02	3.35695E-02
5.30	3.13950E-05	5.36362E-02	-1.55376E-04	-2.60296E 01	3.65139E-04	6.47059E-02	3.35925E-02
5.40	3.25935E-05	5.57953E-02	-1.54099E-04	-2.60749E 01	3.69482E-04	6.70801E-02	3.36151E-02
5.50	3.38144E-05	5.79968E-02	-1.52347E-04	-2.61185E 01	3.73406E-04	6.94966E-02	3.36372E-02
5.60	3.50577E-05	6.02407E-02	-1.50100E-04	-2.61604E 01	3.76893E-04	7.19554E-02	3.36589E-02
5.70	3.63234E-05	6.25270E-02	-1.47342E-04	-2.62007E 01	3.79927E-04	7.44565E-02	3.36802E-02
5.80	3.76114E-05	6.48557E-02	-1.44056E-04	-2.62396E 01	3.82489E-04	7.70001E-02	3.37010E-02
5.90	3.89218E-05	6.72268E-02	-1.40223E-04	-2.62770E 01	3.84561E-04	7.95859E-02	3.37214E-02
6.00	4.02545E-05	6.96403E-02	-1.35827E-04	-2.63132E 01	3.86128E-04	8.22142E-02	3.37414E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 7$ $A = 14$ $\rho = 1.1 A^{1/3} F$						
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
6.10	8.57074E-01	5.18011E 00	-2.07100E-02	2.20377E-03	5.23068E-02	6.09991E 00	1.62135E 02
6.20	8.57099E-01	5.27330E 00	-1.98913E-02	2.13814E-03	5.17104E-02	6.19352E 00	1.63982E 02
6.30	8.57121E-01	5.36649E 00	-1.90301E-02	2.07458E-03	5.10709E-02	6.28711E 00	1.65811E 02
6.40	8.57142E-01	5.45969E 00	-1.81263E-02	2.01300E-03	5.03886E-02	6.38070E 00	1.67621E 02
6.50	8.57161E-01	5.55289E 00	-1.71799E-02	1.95330E-03	4.96633E-02	6.47427E 00	1.69414E 02
6.60	8.57178E-01	5.64610E 00	-1.61909E-02	1.89539E-03	4.88951E-02	6.56784E 00	1.71189E 02
6.70	8.57193E-01	5.73931E 00	-1.51593E-02	1.83922E-03	4.80841E-02	6.66141E 00	1.72947E 02
6.80	8.57207E-01	5.83252E 00	-1.40851E-02	1.78468E-03	4.72301E-02	6.75497E 00	1.74687E 02
6.90	8.57219E-01	5.92573E 00	-1.29683E-02	1.73173E-03	4.63333E-02	6.84852E 00	1.76412E 02
7.00	8.57229E-01	6.01895E 00	-1.18088E-02	1.68027E-03	4.53937E-02	6.94207E 00	1.78119E 02
7.10	8.57239E-01	6.11217E 00	-1.06068E-02	1.63027E-03	4.44111E-02	7.03561E 00	1.79811E 02
7.20	8.57246E-01	6.20540E 00	-9.36210E-03	1.58164E-03	4.33857E-02	7.12915E 00	1.81486E 02
7.30	8.57254E-01	6.29863E 00	-8.07481E-03	1.53435E-03	4.23175E-02	7.22269E 00	1.83146E 02
7.40	8.57259E-01	6.39186E 00	-6.74489E-03	1.48835E-03	4.12065E-02	7.31623E 00	1.84790E 02
7.50	8.57263E-01	6.48509E 00	-5.37233E-03	1.44355E-03	4.00526E-02	7.40976E 00	1.86419E 02
7.60	8.57267E-01	6.57833E 00	-3.95714E-03	1.39994E-03	3.88559E-02	7.50329E 00	1.88033E 02
7.70	8.57270E-01	6.67158E 00	-2.49930E-03	1.35746E-03	3.76163E-02	7.59683E 00	1.89632E 02
7.80	8.57272E-01	6.76483E 00	-9.98821E-04	1.31608E-03	3.63340E-02	7.69037E 00	1.91217E 02
7.90	8.57274E-01	6.85808E 00	5.44309E-04	1.27574E-03	3.50088E-02	7.78390E 00	1.92787E 02
8.00	8.57274E-01	6.95133E 00	2.13009E-03	1.23642E-03	3.36408E-02	7.87744E 00	1.94344E 02
8.10	8.57274E-01	7.04460E 00	3.75853E-03	1.19806E-03	3.22300E-02	7.97098E 00	1.95886E 02
8.20	8.57273E-01	7.13786E 00	5.42963E-03	1.16064E-03	3.07764E-02	8.06452E 00	1.97415E 02
8.30	8.57272E-01	7.23112E 00	7.14339E-03	1.12414E-03	2.92800E-02	8.15807E 00	1.98930E 02
8.40	8.57269E-01	7.32439E 00	8.89982E-03	1.08850E-03	2.77408E-02	8.25161E 00	2.00432E 02
8.50	8.57267E-01	7.41766E 00	1.06989E-02	1.05371E-03	2.61587E-02	8.34516E 00	2.01921E 02
8.60	8.57263E-01	7.51094E 00	1.25407E-02	1.01973E-03	2.45339E-02	8.43871E 00	2.03397E 02
8.70	8.57260E-01	7.60420E 00	1.44251E-02	9.86533E-04	2.28662E-02	8.53227E 00	2.04860E 02
8.80	8.57256E-01	7.69748E 00	1.63522E-02	9.54098E-04	2.11557E-02	8.62584E 00	2.06311E 02
8.90	8.57251E-01	7.79074E 00	1.83220E-02	9.22401E-04	1.94024E-02	8.71940E 00	2.07750E 02
9.00	8.57247E-01	7.88400E 00	2.03344E-02	8.91402E-04	1.76062E-02	8.81297E 00	2.09175E 02
9.10	8.57241E-01	7.97726E 00	2.23895E-02	8.61105E-04	1.57673E-02	8.90655E 00	2.10590E 02
9.20	8.57235E-01	8.07049E 00	2.44871E-02	8.31460E-04	1.38855E-02	9.00013E 00	2.11992E 02
9.30	8.57229E-01	8.16370E 00	2.66274E-02	8.02469E-04	1.19608E-02	9.09372E 00	2.13383E 02
9.40	8.57223E-01	8.25688E 00	2.88102E-02	7.74100E-04	9.99336E-03	9.18731E 00	2.14763E 02
9.50	8.57217E-01	8.34999E 00	3.10353E-02	7.46336E-04	7.98306E-03	9.28091E 00	2.16131E 02
9.60	8.57210E-01	8.44301E 00	3.33028E-02	7.19150E-04	5.92991E-03	9.37452E 00	2.17488E 02
9.70	8.57203E-01	8.53583E 00	3.56119E-02	6.92535E-04	3.83391E-03	9.46813E 00	2.18834E 02
9.80	8.57194E-01	8.62833E 00	3.79621E-02	6.66472E-04	1.69506E-03	9.56175E 00	2.20169E 02
9.90	8.57187E-01	8.71995E 00	4.03506E-02	6.40941E-04	-4.86650E-04	9.65537E 00	2.21494E 02
10.00	8.57179E-01	8.80837E 00	4.27655E-02	6.15938E-04	-2.71122E-03	9.74901E 00	2.22808E 02
10.10	8.57171E-01	8.81205E 00	4.47901E-02	5.91431E-04	-4.97866E-03	9.84265E 00	2.24112E 02
10.20	8.57163E-01	9.01939E 00	4.78981E-02	5.67414E-04	-7.28898E-03	9.93630E 00	2.25406E 02
10.30	8.57154E-01	9.10557E 00	5.04298E-02	5.43877E-04	-9.64218E-03	1.00300E 01	2.26689E 02
10.40	8.57146E-01	9.19691E 00	5.30307E-02	5.20785E-04	-1.20383E-02	1.01236E 01	2.27962E 02
10.50	8.57137E-01	9.28932E 00	5.56797E-02	4.98158E-04	-1.44772E-02	1.02173E 01	2.29227E 02
10.60	8.57128E-01	9.38217E 00	5.83738E-02	4.75955E-04	-1.69591E-02	1.03110E 01	2.30480E 02
10.70	8.57119E-01	9.47527E 00	6.11120E-02	4.54185E-04	-1.94839E-02	1.04047E 01	2.31725E 02
10.80	8.57110E-01	9.56848E 00	6.38936E-02	4.32828E-04	-2.20516E-02	1.04984E 01	2.32961E 02
10.90	8.57101E-01	9.66176E 00	6.67183E-02	4.11867E-04	-2.46622E-02	1.05921E 01	2.34187E 02
11.00	8.57091E-01	9.75511E 00	6.95862E-02	3.91295E-04	-2.73158E-02	1.06858E 01	2.35404E 02
11.10	8.57082E-01	9.84852E 00	7.24974E-02	3.71107E-04	-3.00122E-02	1.07795E 01	2.36612E 02
11.20	8.57072E-01	9.94195E 00	7.54513E-02	3.51283E-04	-3.27517E-02	1.08733E 01	2.37810E 02
11.30	8.57063E-01	1.00354E 01	7.84483E-02	3.31829E-04	-3.55340E-02	1.09670E 01	2.39001E 02
11.40	8.57053E-01	1.01289E 01	8.14883E-02	3.12718E-04	-3.83594E-02	1.10608E 01	2.40183E 02
11.50	8.57043E-01	1.02224E 01	8.45712E-02	2.93954E-04	-4.12276E-02	1.11545E 01	2.41356E 02
11.60	8.57033E-01	1.03159E 01	8.76971E-02	2.75513E-04	-4.41389E-02	1.12483E 01	2.42520E 02
11.70	8.57023E-01	1.04095E 01	9.08660E-02	2.57412E-04	-4.70931E-02	1.13421E 01	2.43677E 02
11.80	8.57012E-01	1.05030E 01	9.40779E-02	2.39616E-04	-5.00904E-02	1.14359E 01	2.44825E 02
11.90	8.57002E-01	1.05966E 01	9.73328E-02	2.22137E-04	-5.31306E-02	1.15297E 01	2.45966E 02
12.00	8.56992E-01	1.06902E 01	1.00631E-01	2.04949E-04	-5.62139E-02	1.16235E 01	2.47098E 02





## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 7$							$A = 14$							$\rho = 1.1 A^{1/3} F$								
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$
12.10	8.56982E-01	1.07838E 01	1.03972E-01	1.88067E-04	-5.93403E-02	1.17174E 01	2.48223E 02	12.20	8.56972E-01	1.08774E 01	1.07355E-01	1.71467E-04	-6.25095E-02	1.18112E 01	2.49340E 02	12.30	8.56961E-01	1.09711E 01	1.10782E-01	1.55151E-04	-6.57218E-02	1.19051E 01	2.50449E 02
12.20	8.56972E-01	1.08774E 01	1.07355E-01	1.71467E-04	-6.25095E-02	1.18112E 01	2.49340E 02	12.40	8.56950E-01	1.10647E 01	1.14252E-01	1.39104E-04	-6.89772E-02	1.19989E 01	2.51551E 02	12.50	8.56940E-01	1.11584E 01	1.17765E-01	1.23320E-04	-7.22756E-02	1.20928E 01	2.52645E 02
12.30	8.56961E-01	1.09711E 01	1.10782E-01	1.55151E-04	-6.57218E-02	1.19051E 01	2.50449E 02	12.60	8.56929E-01	1.12521E 01	1.21321E-01	1.07801E-04	-7.56171E-02	1.21867E 01	2.53731E 02	12.70	8.56919E-01	1.13457E 01	1.24919E-01	9.25400E-05	-7.90016E-02	1.22806E 01	2.54811E 02
12.40	8.56950E-01	1.10647E 01	1.14252E-01	1.39104E-04	-6.89772E-02	1.19989E 01	2.51551E 02	12.80	8.56908E-01	1.14394E 01	1.28561E-01	7.75282E-05	-8.24292E-02	1.23745E 01	2.55884E 02	12.90	8.56897E-01	1.15332E 01	1.32246E-01	6.27581E-05	-8.58999E-02	1.24684E 01	2.56950E 02
12.50	8.56940E-01	1.11584E 01	1.17765E-01	1.23320E-04	-7.22756E-02	1.20928E 01	2.52645E 02	13.00	8.56887E-01	1.16269E 01	1.35975E-01	4.82256E-05	-8.94138E-02	1.25624E 01	2.58008E 02	13.10	8.56877E-01	1.17206E 01	1.39746E-01	3.39237E-05	-9.29707E-02	1.26563E 01	2.59060E 02
12.60	8.56929E-01	1.12521E 01	1.21321E-01	1.07801E-04	-7.56171E-02	1.21867E 01	2.53731E 02	13.20	8.56866E-01	1.18144E 01	1.43560E-01	1.98509E-05	-9.65707E-02	1.27503E 01	2.60105E 02	13.30	8.56855E-01	1.19081E 01	1.47417E-01	5.99937E-06	-1.00214E-01	1.28443E 01	2.61143E 02
12.70	8.56919E-01	1.13457E 01	1.24919E-01	9.25400E-05	-7.90016E-02	1.22806E 01	2.54811E 02	13.40	8.56844E-01	1.20019E 01	1.51318E-01	-7.63695E-06	-1.03900E-01	1.29382E 01	2.62175E 02	13.50	8.56834E-01	1.20957E 01	1.55261E-01	-2.10592E-05	-1.07630E-01	1.30322E 01	2.63200E 02
12.80	8.56908E-01	1.14394E 01	1.28561E-01	7.75282E-05	-8.24292E-02	1.23745E 01	2.55884E 02	13.60	8.56823E-01	1.21895E 01	1.59248E-01	-3.42665E-05	-1.11402E-01	1.31263E 01	2.64219E 02	13.70	8.56812E-01	1.22833E 01	1.63278E-01	-4.72753E-05	-1.15218E-01	1.32203E 01	2.65232E 02
12.90	8.56897E-01	1.15332E 01	1.32246E-01	6.27581E-05	-8.58999E-02	1.24684E 01	2.56950E 02	13.80	8.56802E-01	1.23772E 01	1.67350E-01	-6.00774E-05	-1.19077E-01	1.33143E 01	2.66239E 02	13.90	8.56791E-01	1.24710E 01	1.71467E-01	-7.27019E-05	-1.22979E-01	1.34084E 01	2.67238E 02
13.00	8.56887E-01	1.16269E 01	1.35975E-01	4.82256E-05	-8.94138E-02	1.25624E 01	2.58008E 02	14.00	8.56780E-01	1.25649E 01	1.75626E-01	-8.51185E-05	-1.26925E-01	1.35024E 01	2.68232E 02	14.10	8.56769E-01	1.26587E 01	1.79828E-01	-9.73614E-05	-1.30913E-01	1.35965E 01	2.69220E 02
13.10	8.56877E-01	1.17206E 01	1.39746E-01	3.39237E-05	-9.29707E-02	1.26563E 01	2.59060E 02	14.20	8.56759E-01	1.27526E 01	1.84074E-01	-1.09403E-04	-1.34945E-01	1.36906E 01	2.70203E 02	14.30	8.56748E-01	1.28465E 01	1.88363E-01	-1.21277E-04	-1.39020E-01	1.37847E 01	2.71179E 02
13.20	8.56866E-01	1.18144E 01	1.43560E-01	1.98509E-05	-9.65707E-02	1.27503E 01	2.60105E 02	14.40	8.56738E-01	1.29404E 01	1.92695E-01	-1.32975E-04	-1.43138E-01	1.38788E 01	2.72150E 02	14.50	8.56727E-01	1.30344E 01	1.97070E-01	-1.44502E-04	-1.47300E-01	1.39729E 01	2.73114E 02
13.30	8.56855E-01	1.19081E 01	1.47417E-01	5.99937E-06	-1.00214E-01	1.28443E 01	2.61143E 02	14.60	8.56716E-01	1.31283E 01	2.01489E-01	-1.55848E-04	-1.51505E-01	1.40671E 01	2.74074E 02	14.70	8.56705E-01	1.32222E 01	2.05950E-01	-1.67039E-04	-1.55753E-01	1.41612E 01	2.75028E 02
13.40	8.56844E-01	1.20019E 01	1.51318E-01	-7.63695E-06	-1.03900E-01	1.29382E 01	2.62175E 02	14.80	8.56694E-01	1.33162E 01	2.10455E-01	-1.78068E-04	-1.60044E-01	1.42554E 01	2.75976E 02	14.90	8.56684E-01	1.34102E 01	2.15004E-01	-1.88932E-04	-1.64379E-01	1.43496E 01	2.76919E 02
13.50	8.56834E-01	1.20957E 01	1.55261E-01	-2.10592E-05	-1.07630E-01	1.30322E 01	2.63200E 02	15.00	8.56673E-01	1.35042E 01	2.19595E-01	-1.99644E-04	-1.68757E-01	1.44438E 01	2.77857E 02	15.10	8.56662E-01	1.35982E 01	2.24230E-01	-2.10204E-04	-1.73179E-01	1.45380E 01	2.78789E 02
13.60	8.56823E-01	1.21895E 01	1.59248E-01	-3.42665E-05	-1.11402E-01	1.31263E 01	2.64219E 02	15.20	8.56652E-01	1.36922E 01	2.28908E-01	-2.20613E-04	-1.77643E-01	1.46322E 01	2.79716E 02	15.30	8.56641E-01	1.37862E 01	2.33630E-01	-2.30867E-04	-1.82151E-01	1.47265E 01	2.80638E 02
13.70	8.56812E-01	1.22833E 01	1.63278E-01	-4.72753E-05	-1.15218E-01	1.32203E 01	2.65232E 02	15.40	8.56631E-01	1.38803E 01	2.38395E-01	-2.40981E-04	-1.86703E-01	1.48207E 01	2.81556E 02	15.50	8.56620E-01	1.39744E 01	2.43203E-01	-2.50957E-04	-1.91298E-01	1.49150E 01	2.82468E 02
13.80	8.56802E-01	1.23772E 01	1.67350E-01	-6.00774E-05	-1.19077E-01	1.33143E 01	2.66239E 02	15.60	8.56610E-01	1.40684E 01	2.48054E-01	-2.60787E-04	-1.95936E-01	1.50093E 01	2.83375E 02	15.70	8.56599E-01	1.41625E 01	2.52949E-01	-2.70489E-04	-2.00618E-01	1.51036E 01	2.84277E 02
13.90	8.56791E-01	1.24710E 01	1.71467E-01	-7.27019E-05	-1.22979E-01	1.34084E 01	2.67238E 02	15.80	8.56589E-01	1.42566E 01	2.57888E-01	-2.80048E-04	-2.05343E-01	1.51979E 01	2.85175E 02	15.90	8.56579E-01	1.43508E 01	2.62869E-01	-2.89484E-04	-2.10111E-01	1.52923E 01	2.86067E 02
14.00	8.56780E-01	1.25649E 01	1.75626E-01	-8.51185E-05	-1.26925E-01	1.35024E 01	2.68232E 02	16.00	8.56568E-01	1.44449E 01	2.67895E-01	-2.98784E-04	-2.14923E-01	1.53866E 01	2.86955E 02	16.10	8.56558E-01	1.45390E 01	2.72963E-01	-3.07959E-04	-2.19779E-01	1.54810E 01	2.87839E 02
14.10	8.56769E-01	1.26587E 01	1.79828E-01	-9.73614E-05	-1.30913E-01	1.35965E 01	2.69220E 02	16.20	8.56547E-01	1.46332E 01	2.78075E-01	-3.17004E-04	-2.24678E-01	1.55753E 01	2.88718E 02	16.30	8.56537E-01	1.47274E 01	2.83231E-01	-3.25938E-04	-2.29620E-01	1.56697E 01	2.89592E 02
14.20	8.56759E-01	1.27526E 01	1.84074E-01	-1.09403E-04	-1.34945E-01	1.36906E 01	2.70203E 02	16.40	8.56526E-01	1.48216E 01	2.88429E-01	-3.34740E-04	-2.34606E-01	1.57641E 01	2.90462E 02	16.50	8.56516E-01	1.49158E 01	2.93672E-01	-3.43431E-04	-2.39635E-01	1.58586E 01	2.91328E 02
14.30	8.56748E-01	1.28465E 01	1.88363E-01	-1.21277E-04	-1.39020E-01	1.37847E 01	2.71179E 02	16.60	8.56506E-01	1.50100E 01	2.98958E-01	-3.52001E-04	-2.44708E-01	1.59530E 01	2.92190E 02	16.70	8.56495E-01	1.51042E 01	3.04287E-01	-3.60461E-04	-2.49825E-01	1.60475E 01	2.93046E 02
14.40	8.56738E-01	1.29404E 01	1.92695E-01	-1.32975E-04	-1.43138E-01	1.38788E 01	2.72150E 02	16.80	8.56485E-01	1.51985E 01	3.09660E-01	-3.68799E-04	-2.54985E-01	1.61419E 01	2.93900E 02	16.90	8.56475E-01	1.52928E 01	3.15076E-01	-3.77038E-04	-2.60188E-01	1.62364E 01	2.94748E 02
14.50	8.56727E-01	1.30344E 01	1.97070E-01	-1.44502E-04	-1.47300E-01	1.39729E 01	2.73114E 02	17.00	8.56465E-01	1.53871E 01	3.20536E-01	-3.85162E-04	-2.65435E-01	1.63309E 01	2.95593E 02	17.10	8.56454E-01	1.54814E 01	3.26040E-01	-3.93182E-04	-2.70726E-01	1.64254E 01	2.96434E 02
14.60	8.56716E-01	1.31283E 01	2.01489E-01	-1.55848E-04	-1.51505E-01	1.40671E 01	2.74074E 02	17.20	8.56444E-01	1.55757E 01	3.31587E-01	-4.01108E-04	-2.76060E-01	1.65200E 01	2.97269E 02	17.30	8.56434E-01	1.56700E 01	3.37177E-01	-4.08909E-04	-2.81438E-01	1.66145E 01	2.98103E 02
14.70	8.56705E-01	1.32222E 01	2.05950E-01	-1.67039E-04	-1.55753E-01	1.41612E 01	2.75028E 02	17.40	8.56424E-01	1.57644E 01	3.42812E-01	-4.16628E-04	-2.86860E-01	1.67091E 01	2.98931E 02	17.50	8.56414E-01	1.58587E 01	3.48489E-01	-4.24236E-04	-2.92325E-01	1.68037E 01	2.99756E 02
14.80	8.56694E-01	1.33162E 01	2.10455E-01	-1.78068E-04	-1.60044E-01	1.42554E 01	2.75976E 02	17.60	8.56404E-01	1.59531E 01	3.54211E-01	-4.31745E-04	-2.97834E-01	1.68983E 01	3.00578E 02	17.70	8.56394E-01	1.60475E 01	3.59976E-01	-4.39168E-04	-3.03387E-01	1.69929E 01	3.01395E 02
14.90	8.56684E-01	1.34102E 01	2.15004E-01	-1.88932E-04	-1.64379E-01	1.43496E 01	2.76919E 02	17.80	8.56384E-01	1.61419E 01	3.65785E-01	-4.46476E-04	-3.08983E-01	1.70875E 01	3.02210E 02	17.90	8.56374E-01	1.62363E 01	3.71637E-01	-4.53703E-04	-3.14623E-01	1.71822E 01	3.03020E 02
15.00	8.56673E-01	1.35042E 01	2.19595E-01	-1.99644E-04	-1.68757E-01	1.44438E 01	2.77857E 02	18.00	8.56364E-01	1.63308E 01	3.77534E-01	-4.60842E-04	-3.20307E-01	1.72769E 01	3.03826E 02								

## ELECTRON RADIAL FUNCTIONS

$p$	$\bar{F}$	$Z=7$		$A=14$		$\rho=1.1 A^{1/3} F$		Positron	
		$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$		
12.10	1.63842E-04	2.97091E-01	1.89205E-03	-2.73434E 01	-1.16872E-03	3.22643E-01	3.44583E-02		
12.20	1.66561E-04	3.02133E-01	1.96551E-03	-2.73513E 01	-1.23263E-03	3.27898E-01	3.44651E-02		
12.30	1.69302E-04	3.07218E-01	2.04063E-03	-2.73591E 01	-1.29814E-03	3.33195E-01	3.44717E-02		
12.40	1.72066E-04	3.12344E-01	2.11743E-03	-2.73667E 01	-1.36528E-03	3.38534E-01	3.44783E-02		
12.50	1.74852E-04	3.17513E-01	2.19594E-03	-2.73742E 01	-1.43406E-03	3.43916E-01	3.44848E-02		
12.60	1.77660E-04	3.22725E-01	2.27615E-03	-2.73816E 01	-1.50449E-03	3.49340E-01	3.44912E-02		
12.70	1.80491E-04	3.27978E-01	2.35810E-03	-2.73889E 01	-1.57660E-03	3.54806E-01	3.44974E-02		
12.80	1.83344E-04	3.33274E-01	2.44181E-03	-2.73960E 01	-1.65041E-03	3.60315E-01	3.45037E-02		
12.90	1.86220E-04	3.38613E-01	2.52728E-03	-2.74030E 01	-1.72592E-03	3.65866E-01	3.45098E-02		
13.00	1.89118E-04	3.43994E-01	2.61454E-03	-2.74100E 01	-1.80316E-03	3.71459E-01	3.45158E-02		
13.10	1.92038E-04	3.49417E-01	2.70360E-03	-2.74168E 01	-1.88215E-03	3.77095E-01	3.45218E-02		
13.20	1.94981E-04	3.54882E-01	2.79448E-03	-2.74235E 01	-1.96290E-03	3.82773E-01	3.45277E-02		
13.30	1.97945E-04	3.60390E-01	2.88720E-03	-2.74300E 01	-2.04543E-03	3.88493E-01	3.45335E-02		
13.40	2.00933E-04	3.65940E-01	2.98177E-03	-2.74365E 01	-2.12976E-03	3.94256E-01	3.45392E-02		
13.50	2.03942E-04	3.71533E-01	3.07822E-03	-2.74429E 01	-2.21590E-03	4.00061E-01	3.45449E-02		
13.60	2.06974E-04	3.77168E-01	3.17656E-03	-2.74492E 01	-2.30388E-03	4.05908E-01	3.45505E-02		
13.70	2.10028E-04	3.82845E-01	3.27681E-03	-2.74554E 01	-2.39371E-03	4.11798E-01	3.45560E-02		
13.80	2.13105E-04	3.88564E-01	3.37898E-03	-2.74615E 01	-2.48540E-03	4.17730E-01	3.45614E-02		
13.90	2.16204E-04	3.94326E-01	3.48310E-03	-2.74675E 01	-2.57898E-03	4.23704E-01	3.45668E-02		
14.00	2.19325E-04	4.00130E-01	3.58918E-03	-2.74734E 01	-2.67446E-03	4.29721E-01	3.45721E-02		
14.10	2.22469E-04	4.05977E-01	3.69723E-03	-2.74792E 01	-2.77186E-03	4.35780E-01	3.45773E-02		
14.20	2.25635E-04	4.11866E-01	3.80728E-03	-2.74850E 01	-2.87120E-03	4.41881E-01	3.45825E-02		
14.30	2.28823E-04	4.17797E-01	3.91934E-03	-2.74906E 01	-2.97249E-03	4.48025E-01	3.45876E-02		
14.40	2.32034E-04	4.23771E-01	4.03344E-03	-2.74962E 01	-3.07576E-03	4.54211E-01	3.45927E-02		
14.50	2.35267E-04	4.29787E-01	4.14958E-03	-2.75017E 01	-3.18101E-03	4.60439E-01	3.45977E-02		
14.60	2.38522E-04	4.35845E-01	4.26778E-03	-2.75071E 01	-3.28827E-03	4.66710E-01	3.46026E-02		
14.70	2.41800E-04	4.41945E-01	4.38807E-03	-2.75124E 01	-3.39756E-03	4.73023E-01	3.46074E-02		
14.80	2.45100E-04	4.48088E-01	4.51046E-03	-2.75177E 01	-3.50889E-03	4.79378E-01	3.46123E-02		
14.90	2.48422E-04	4.54273E-01	4.63496E-03	-2.75229E 01	-3.62227E-03	4.85775E-01	3.46170E-02		
15.00	2.51767E-04	4.60501E-01	4.76160E-03	-2.75280E 01	-3.73774E-03	4.92215E-01	3.46217E-02		
15.10	2.55134E-04	4.66771E-01	4.89040E-03	-2.75330E 01	-3.85529E-03	4.98697E-01	3.46263E-02		
15.20	2.58524E-04	4.73083E-01	5.02136E-03	-2.75380E 01	-3.97496E-03	5.05222E-01	3.46309E-02		
15.30	2.61936E-04	4.79437E-01	5.15450E-03	-2.75429E 01	-4.09676E-03	5.11789E-01	3.46354E-02		
15.40	2.65370E-04	4.85833E-01	5.28986E-03	-2.75477E 01	-4.22071E-03	5.18398E-01	3.46399E-02		
15.50	2.68826E-04	4.92273E-01	5.42743E-03	-2.75525E 01	-4.34682E-03	5.25049E-01	3.46443E-02		
15.60	2.72305E-04	4.98754E-01	5.56725E-03	-2.75572E 01	-4.47511E-03	5.31743E-01	3.46487E-02		
15.70	2.75806E-04	5.05278E-01	5.70932E-03	-2.75619E 01	-4.60560E-03	5.38479E-01	3.46530E-02		
15.80	2.79330E-04	5.11844E-01	5.85367E-03	-2.75664E 01	-4.73831E-03	5.45257E-01	3.46573E-02		
15.90	2.82876E-04	5.18452E-01	6.00031E-03	-2.75710E 01	-4.87325E-03	5.52078E-01	3.46616E-02		
16.00	2.86444E-04	5.25103E-01	6.14925E-03	-2.75754E 01	-5.01044E-03	5.58941E-01	3.46657E-02		
16.10	2.90034E-04	5.31796E-01	6.30053E-03	-2.75798E 01	-5.14990E-03	5.65846E-01	3.46699E-02		
16.20	2.93647E-04	5.38531E-01	6.45414E-03	-2.75842E 01	-5.29164E-03	5.72793E-01	3.46740E-02		
16.30	2.97282E-04	5.45308E-01	6.61012E-03	-2.75885E 01	-5.43569E-03	5.79783E-01	3.46780E-02		
16.40	3.00940E-04	5.52128E-01	6.76848E-03	-2.75927E 01	-5.58206E-03	5.86815E-01	3.46820E-02		
16.50	3.04620E-04	5.58990E-01	6.92923E-03	-2.75969E 01	-5.73077E-03	5.93889E-01	3.46859E-02		
16.60	3.08322E-04	5.65894E-01	7.09240E-03	-2.76010E 01	-5.88183E-03	6.01006E-01	3.46899E-02		
16.70	3.12047E-04	5.72841E-01	7.25800E-03	-2.76051E 01	-6.03527E-03	6.08165E-01	3.46937E-02		
16.80	3.15793E-04	5.79830E-01	7.42605E-03	-2.76092E 01	-6.19109E-03	6.15366E-01	3.46976E-02		
16.90	3.19563E-04	5.86861E-01	7.59656E-03	-2.76131E 01	-6.34933E-03	6.22609E-01	3.47013E-02		
17.00	3.23354E-04	5.93935E-01	7.76956E-03	-2.76171E 01	-6.50999E-03	6.29895E-01	3.47051E-02		
17.10	3.27168E-04	6.01050E-01	7.94506E-03	-2.76210E 01	-6.67309E-03	6.37223E-01	3.47088E-02		
17.20	3.31004E-04	6.08208E-01	8.12307E-03	-2.76248E 01	-6.83866E-03	6.44593E-01	3.47125E-02		
17.30	3.34863E-04	6.15409E-01	8.30363E-03	-2.76286E 01	-7.00670E-03	6.52006E-01	3.47161E-02		
17.40	3.38744E-04	6.22651E-01	8.48673E-03	-2.76323E 01	-7.17723E-03	6.59461E-01	3.47197E-02		
17.50	3.42647E-04	6.29936E-01	8.67240E-03	-2.76360E 01	-7.35028E-03	6.66958E-01	3.47232E-02		
17.60	3.46573E-04	6.37263E-01	8.86067E-03	-2.76397E 01	-7.52586E-03	6.74497E-01	3.47267E-02		
17.70	3.50521E-04	6.44633E-01	9.05154E-03	-2.76433E 01	-7.70399E-03	6.82078E-01	3.47302E-02		
17.80	3.54491E-04	6.52044E-01	9.24502E-03	-2.76469E 01	-7.88468E-03	6.89702E-01	3.47337E-02		
17.90	3.58484E-04	6.59498E-01	9.44116E-03	-2.76504E 01	-8.06795E-03	6.97368E-01	3.47371E-02		
18.00	3.62499E-04	6.66995E-01	9.63995E-03	-2.76539E 01	-8.25382E-03	7.05077E-01	3.47404E-02		



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=7 \quad A=14 \quad \rho=1.1 A^{1/3} F$							
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
18.10	8.56354E-01	1.64252E 01	3.83474E-01	-4.67887E-04	-3.26035E-01	1.73715E 01	3.04629E 02	
18.20	8.56344E-01	1.65197E 01	3.89457E-01	-4.74835E-04	-3.31806E-01	1.74662E 01	3.05429E 02	
18.30	8.56334E-01	1.66142E 01	3.95484E-01	-4.81715E-04	-3.37621E-01	1.75610E 01	3.06224E 02	
18.40	8.56325E-01	1.67087E 01	4.01556E-01	-4.88490E-04	-3.43480E-01	1.76557E 01	3.07017E 02	
18.50	8.56315E-01	1.68032E 01	4.07670E-01	-4.95182E-04	-3.49383E-01	1.77505E 01	3.07807E 02	
18.60	8.56305E-01	1.68978E 01	4.13829E-01	-5.01793E-04	-3.55329E-01	1.78452E 01	3.08593E 02	
18.70	8.56295E-01	1.69924E 01	4.20032E-01	-5.08319E-04	-3.61319E-01	1.79400E 01	3.09376E 02	
18.80	8.56285E-01	1.70869E 01	4.26278E-01	-5.14776E-04	-3.67353E-01	1.80348E 01	3.10154E 02	
18.90	8.56276E-01	1.71815E 01	4.32568E-01	-5.21139E-04	-3.73431E-01	1.81297E 01	3.10931E 02	
19.00	8.56266E-01	1.72761E 01	4.38901E-01	-5.27427E-04	-3.79553E-01	1.82245E 01	3.11704E 02	
19.10	8.56256E-01	1.73707E 01	4.45279E-01	-5.33640E-04	-3.85719E-01	1.83194E 01	3.12474E 02	
19.20	8.56247E-01	1.74654E 01	4.51701E-01	-5.39771E-04	-3.91929E-01	1.84142E 01	3.13242E 02	
19.30	8.56237E-01	1.75601E 01	4.58166E-01	-5.45836E-04	-3.98182E-01	1.85091E 01	3.14005E 02	
19.40	8.56228E-01	1.76547E 01	4.64675E-01	-5.51819E-04	-4.04480E-01	1.86040E 01	3.14766E 02	
19.50	8.56218E-01	1.77494E 01	4.71229E-01	-5.57729E-04	-4.10821E-01	1.86990E 01	3.15524E 02	
19.60	8.56209E-01	1.78441E 01	4.77826E-01	-5.63567E-04	-4.17207E-01	1.87939E 01	3.16280E 02	
19.70	8.56199E-01	1.79389E 01	4.84467E-01	-5.69334E-04	-4.23636E-01	1.88889E 01	3.17032E 02	
19.80	8.56190E-01	1.80336E 01	4.91152E-01	-5.75037E-04	-4.30110E-01	1.89839E 01	3.17781E 02	
19.90	8.56180E-01	1.81284E 01	4.97881E-01	-5.80666E-04	-4.36627E-01	1.90789E 01	3.18528E 02	
20.00	8.56171E-01	1.82232E 01	5.04654E-01	-5.86217E-04	-4.43189E-01	1.91739E 01	3.19273E 02	
20.10	8.56162E-01	1.83180E 01	5.11471E-01	-5.91716E-04	-4.49794E-01	1.92689E 01	3.20013E 02	
20.20	8.56152E-01	1.84128E 01	5.18332E-01	-5.97142E-04	-4.56444E-01	1.93640E 01	3.20752E 02	
20.30	8.56143E-01	1.85076E 01	5.25238E-01	-6.02500E-04	-4.63138E-01	1.94591E 01	3.21488E 02	
20.40	8.56134E-01	1.86025E 01	5.32187E-01	-6.07800E-04	-4.69875E-01	1.95542E 01	3.22222E 02	
20.50	8.56124E-01	1.86973E 01	5.39180E-01	-6.13026E-04	-4.76657E-01	1.96493E 01	3.22953E 02	
20.60	8.56115E-01	1.87922E 01	5.46218E-01	-6.18200E-04	-4.83484E-01	1.97444E 01	3.23681E 02	
20.70	8.56106E-01	1.88871E 01	5.53299E-01	-6.23311E-04	-4.90354E-01	1.98396E 01	3.24406E 02	
20.80	8.56097E-01	1.89821E 01	5.60425E-01	-6.28360E-04	-4.97268E-01	1.99348E 01	3.25130E 02	
20.90	8.56088E-01	1.90770E 01	5.67594E-01	-6.33343E-04	-5.04227E-01	2.00300E 01	3.25851E 02	
21.00	8.56078E-01	1.91720E 01	5.74808E-01	-6.38269E-04	-5.11230E-01	2.01252E 01	3.26570E 02	
21.10	8.56069E-01	1.92669E 01	5.82066E-01	-6.43142E-04	-5.18277E-01	2.02204E 01	3.27285E 02	
21.20	8.56060E-01	1.93619E 01	5.89369E-01	-6.47949E-04	-5.25368E-01	2.03157E 01	3.28000E 02	
21.30	8.56051E-01	1.94570E 01	5.96715E-01	-6.52705E-04	-5.32504E-01	2.04109E 01	3.28711E 02	
21.40	8.56042E-01	1.95520E 01	6.04106E-01	-6.57401E-04	-5.39684E-01	2.05062E 01	3.29421E 02	
21.50	8.56033E-01	1.96471E 01	6.11541E-01	-6.62040E-04	-5.46908E-01	2.06015E 01	3.30128E 02	
21.60	8.56024E-01	1.97421E 01	6.19021E-01	-6.66632E-04	-5.54177E-01	2.06969E 01	3.30833E 02	
21.70	8.56016E-01	1.98372E 01	6.26544E-01	-6.71162E-04	-5.61489E-01	2.07922E 01	3.31535E 02	
21.80	8.56007E-01	1.99323E 01	6.34112E-01	-6.75642E-04	-5.68847E-01	2.08876E 01	3.32236E 02	
21.90	8.55998E-01	2.00275E 01	6.41724E-01	-6.80061E-04	-5.76248E-01	2.09830E 01	3.32935E 02	
22.00	8.55989E-01	2.01226E 01	6.49381E-01	-6.84400E-04	-5.83694E-01	2.10784E 01	3.33631E 02	
22.10	8.55980E-01	2.02178E 01	6.57082E-01	-6.88758E-04	-5.91185E-01	2.11738E 01	3.34326E 02	
22.20	8.55971E-01	2.03130E 01	6.64827E-01	-6.93022E-04	-5.98719E-01	2.12693E 01	3.35019E 02	
22.30	8.55963E-01	2.04082E 01	6.72617E-01	-6.97244E-04	-6.06299E-01	2.13647E 01	3.35710E 02	
22.40	8.55954E-01	2.05034E 01	6.80451E-01	-7.01417E-04	-6.13922E-01	2.14602E 01	3.36398E 02	
22.50	8.55946E-01	2.05987E 01	6.88330E-01	-7.05540E-04	-6.21591E-01	2.15557E 01	3.37084E 02	
22.60	8.55937E-01	2.06939E 01	6.96253E-01	-7.09612E-04	-6.29303E-01	2.16513E 01	3.37769E 02	
22.70	8.55929E-01	2.07892E 01	7.04220E-01	-7.13642E-04	-6.37061E-01	2.17468E 01	3.38451E 02	
22.80	8.55920E-01	2.08845E 01	7.12232E-01	-7.17612E-04	-6.44863E-01	2.18424E 01	3.39133E 02	
22.90	8.55911E-01	2.09799E 01	7.20289E-01	-7.21537E-04	-6.52709E-01	2.19380E 01	3.39813E 02	
23.00	8.55903E-01	2.10752E 01	7.28390E-01	-7.25432E-04	-6.60600E-01	2.20336E 01	3.40490E 02	
23.10	8.55894E-01	2.11706E 01	7.36535E-01	-7.29265E-04	-6.68535E-01	2.21293E 01	3.41166E 02	
23.20	8.55886E-01	2.12660E 01	7.44725E-01	-7.33057E-04	-6.76515E-01	2.22249E 01	3.41840E 02	
23.30	8.55877E-01	2.13614E 01	7.52960E-01	-7.36810E-04	-6.84540E-01	2.23206E 01	3.42512E 02	
23.40	8.55869E-01	2.14568E 01	7.61239E-01	-7.40510E-04	-6.92610E-01	2.24163E 01	3.43183E 02	
23.50	8.55861E-01	2.15523E 01	7.69563E-01	-7.44169E-04	-7.00724E-01	2.25120E 01	3.43853E 02	
23.60	8.55852E-01	2.16477E 01	7.77932E-01	-7.47794E-04	-7.08883E-01	2.26078E 01	3.44519E 02	
23.70	8.55844E-01	2.17432E 01	7.86345E-01	-7.51367E-04	-7.17086E-01	2.27035E 01	3.45185E 02	
23.80	8.55835E-01	2.18387E 01	7.94803E-01	-7.54902E-04	-7.25335E-01	2.27993E 01	3.45849E 02	
23.90	8.55827E-01	2.19342E 01	8.03306E-01	-7.58391E-04	-7.33628E-01	2.28951E 01	3.46513E 02	
24.00	8.55819E-01	2.20298E 01	8.11853E-01	-7.61837E-04	-7.41965E-01	2.29909E 01	3.47174E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$  $A = 14$  $\rho = 1.1 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
18.10	3.66536E-04	6.74533E-01	9.84142E-03	-2.76573E 01	-8.44232E-03	7.12827E-01	3.47438E-02
18.20	3.70596E-04	6.82114E-01	1.00456E-02	-2.76607E 01	-8.63345E-03	7.20620E-01	3.47471E-02
18.30	3.74678E-04	6.89737E-01	1.02524E-02	-2.76641E 01	-8.82722E-03	7.28456E-01	3.47504E-02
18.40	3.78782E-04	6.97402E-01	1.04620E-02	-2.76674E 01	-9.02367E-03	7.36333E-01	3.47536E-02
18.50	3.82909E-04	7.05109E-01	1.06744E-02	-2.76707E 01	-9.22280E-03	7.44252E-01	3.47568E-02
18.60	3.87058E-04	7.12859E-01	1.08895E-02	-2.76740E 01	-9.42464E-03	7.52214E-01	3.47600E-02
18.70	3.91230E-04	7.20651E-01	1.11074E-02	-2.76772E 01	-9.62919E-03	7.60218E-01	3.47632E-02
18.80	3.95423E-04	7.28485E-01	1.13280E-02	-2.76804E 01	-9.83649E-03	7.68264E-01	3.47663E-02
18.90	3.99639E-04	7.36361E-01	1.15515E-02	-2.76836E 01	-1.00465E-02	7.76353E-01	3.47694E-02
19.00	4.03878E-04	7.44280E-01	1.17778E-02	-2.76867E 01	-1.02594E-02	7.84483E-01	3.47724E-02
19.10	4.08138E-04	7.52241E-01	1.20070E-02	-2.76897E 01	-1.04750E-02	7.92656E-01	3.47754E-02
19.20	4.12421E-04	7.60244E-01	1.22390E-02	-2.76928E 01	-1.06934E-02	8.00871E-01	3.47784E-02
19.30	4.16727E-04	7.68289E-01	1.24740E-02	-2.76958E 01	-1.09147E-02	8.09129E-01	3.47814E-02
19.40	4.21054E-04	7.76377E-01	1.27118E-02	-2.76988E 01	-1.11388E-02	8.17428E-01	3.47843E-02
19.50	4.25404E-04	7.84506E-01	1.29525E-02	-2.77017E 01	-1.13657E-02	8.25770E-01	3.47873E-02
19.60	4.29777E-04	7.92679E-01	1.31962E-02	-2.77047E 01	-1.15955E-02	8.34154E-01	3.47901E-02
19.70	4.34171E-04	8.00893E-01	1.34428E-02	-2.77076E 01	-1.18283E-02	8.42580E-01	3.47930E-02
19.80	4.38589E-04	8.09149E-01	1.36924E-02	-2.77104E 01	-1.20639E-02	8.51049E-01	3.47958E-02
19.90	4.43028E-04	8.17448E-01	1.39450E-02	-2.77132E 01	-1.23025E-02	8.59559E-01	3.47986E-02
20.00	4.47490E-04	8.25788E-01	1.42006E-02	-2.77160E 01	-1.25440E-02	8.68112E-01	3.48014E-02
20.10	4.51974E-04	8.34171E-01	1.44592E-02	-2.77188E 01	-1.27885E-02	8.76707E-01	3.48042E-02
20.20	4.56480E-04	8.42596E-01	1.47209E-02	-2.77216E 01	-1.30359E-02	8.85344E-01	3.48069E-02
20.30	4.61009E-04	8.51064E-01	1.49856E-02	-2.77243E 01	-1.32864E-02	8.94024E-01	3.48096E-02
20.40	4.65560E-04	8.59574E-01	1.52534E-02	-2.77270E 01	-1.35399E-02	9.02745E-01	3.48123E-02
20.50	4.70133E-04	8.68125E-01	1.55243E-02	-2.77296E 01	-1.37964E-02	9.11509E-01	3.48149E-02
20.60	4.74729E-04	8.76719E-01	1.57983E-02	-2.77323E 01	-1.40560E-02	9.20315E-01	3.48176E-02
20.70	4.79347E-04	8.85355E-01	1.60754E-02	-2.77349E 01	-1.43186E-02	9.29163E-01	3.48202E-02
20.80	4.83987E-04	8.94034E-01	1.63557E-02	-2.77374E 01	-1.45843E-02	9.38053E-01	3.48228E-02
20.90	4.88650E-04	9.02754E-01	1.66391E-02	-2.77400E 01	-1.48532E-02	9.46986E-01	3.48253E-02
21.00	4.93335E-04	9.11517E-01	1.69257E-02	-2.77425E 01	-1.51251E-02	9.55960E-01	3.48279E-02
21.10	4.98043E-04	9.20322E-01	1.72155E-02	-2.77450E 01	-1.54002E-02	9.64977E-01	3.48304E-02
21.20	5.02772E-04	9.29169E-01	1.75085E-02	-2.77475E 01	-1.56785E-02	9.74036E-01	3.48329E-02
21.30	5.07524E-04	9.38058E-01	1.78047E-02	-2.77500E 01	-1.59599E-02	9.83137E-01	3.48354E-02
21.40	5.12299E-04	9.46989E-01	1.81042E-02	-2.77524E 01	-1.62445E-02	9.92280E-01	3.48378E-02
21.50	5.17096E-04	9.55963E-01	1.84070E-02	-2.77548E 01	-1.65323E-02	1.00147E 00	3.48403E-02
21.60	5.21915E-04	9.64978E-01	1.87131E-02	-2.77572E 01	-1.68234E-02	1.01069E 00	3.48427E-02
21.70	5.26756E-04	9.74036E-01	1.90224E-02	-2.77596E 01	-1.71176E-02	1.01996E 00	3.48450E-02
21.80	5.31620E-04	9.83136E-01	1.93351E-02	-2.77619E 01	-1.74152E-02	1.02928E 00	3.48474E-02
21.90	5.36506E-04	9.92278E-01	1.96511E-02	-2.77642E 01	-1.77160E-02	1.03863E 00	3.48498E-02
22.00	5.41414E-04	1.00146E 00	1.99704E-02	-2.77665E 01	-1.80201E-02	1.04803E 00	3.48521E-02
22.10	5.46345E-04	1.01069E 00	2.02931E-02	-2.77688E 01	-1.83276E-02	1.05746E 00	3.48544E-02
22.20	5.51298E-04	1.01996E 00	2.06193E-02	-2.77710E 01	-1.86383E-02	1.06694E 00	3.48567E-02
22.30	5.56274E-04	1.02927E 00	2.09488E-02	-2.77733E 01	-1.89524E-02	1.07647E 00	3.48590E-02
22.40	5.61271E-04	1.03862E 00	2.12817E-02	-2.77755E 01	-1.92699E-02	1.08603E 00	3.48612E-02
22.50	5.66291E-04	1.04802E 00	2.16181E-02	-2.77777E 01	-1.95908E-02	1.09564E 00	3.48635E-02
22.60	5.71334E-04	1.05745E 00	2.19579E-02	-2.77798E 01	-1.99150E-02	1.10529E 00	3.48657E-02
22.70	5.76399E-04	1.06693E 00	2.23012E-02	-2.77820E 01	-2.02427E-02	1.11498E 00	3.48679E-02
22.80	5.81486E-04	1.07645E 00	2.26480E-02	-2.77841E 01	-2.05738E-02	1.12471E 00	3.48701E-02
22.90	5.86595E-04	1.08602E 00	2.29984E-02	-2.77862E 01	-2.09084E-02	1.13449E 00	3.48722E-02
23.00	5.91727E-04	1.09562E 00	2.33522E-02	-2.77883E 01	-2.12464E-02	1.14430E 00	3.48744E-02
23.10	5.96881E-04	1.10527E 00	2.37096E-02	-2.77904E 01	-2.15879E-02	1.15416E 00	3.48765E-02
23.20	6.02057E-04	1.11496E 00	2.40705E-02	-2.77925E 01	-2.19329E-02	1.16407E 00	3.48786E-02
23.30	6.07256E-04	1.12469E 00	2.44351E-02	-2.77945E 01	-2.22815E-02	1.17401E 00	3.48807E-02
23.40	6.12477E-04	1.13447E 00	2.48032E-02	-2.77965E 01	-2.26335E-02	1.18399E 00	3.48828E-02
23.50	6.17720E-04	1.14428E 00	2.51749E-02	-2.77985E 01	-2.29892E-02	1.19402E 00	3.48848E-02
23.60	6.22986E-04	1.15414E 00	2.55503E-02	-2.78005E 01	-2.33484E-02	1.20409E 00	3.48869E-02
23.70	6.28274E-04	1.16404E 00	2.59293E-02	-2.78025E 01	-2.37112E-02	1.21420E 00	3.48889E-02
23.80	6.33584E-04	1.17398E 00	2.63120E-02	-2.78044E 01	-2.40776E-02	1.22436E 00	3.48909E-02
23.90	6.38917E-04	1.18397E 00	2.66983E-02	-2.78063E 01	-2.44476E-02	1.23455E 00	3.48929E-02
24.00	6.44272E-04	1.19399E 00	2.70884E-02	-2.78083E 01	-2.48213E-02	1.24479E 00	3.48949E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z = 7$		$A = 14$		$\rho = 1.1 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
24.10	8.55811E-01	2.21254E 01	8.20446E-01	-7.65246E-04	-7.50349E-01	2.30868E 01	3.47834E 02	
24.20	8.55802E-01	2.22210E 01	8.29082E-01	-7.68617E-04	-7.58776E-01	2.31827E 01	3.48492E 02	
24.30	8.55794E-01	2.23166E 01	8.37764E-01	-7.71951E-04	-7.67248E-01	2.32786E 01	3.49149E 02	
24.40	8.55786E-01	2.24122E 01	8.46491E-01	-7.75237E-04	-7.75765E-01	2.33745E 01	3.49805E 02	
24.50	8.55778E-01	2.25079E 01	8.55262E-01	-7.78484E-04	-7.84327E-01	2.34704E 01	3.50459E 02	
24.60	8.55770E-01	2.26035E 01	8.64078E-01	-7.81694E-04	-7.92934E-01	2.35664E 01	3.51112E 02	
24.70	8.55761E-01	2.26992E 01	8.72939E-01	-7.84876E-04	-8.01586E-01	2.36624E 01	3.51763E 02	
24.80	8.55754E-01	2.27950E 01	8.81845E-01	-7.88014E-04	-8.10283E-01	2.37584E 01	3.52412E 02	
24.90	8.55745E-01	2.28907E 01	8.90796E-01	-7.91109E-04	-8.19025E-01	2.38544E 01	3.53062E 02	
25.00	8.55737E-01	2.29865E 01	8.99791E-01	-7.94172E-04	-8.27812E-01	2.39505E 01	3.53709E 02	
25.10	8.55729E-01	2.30823E 01	9.08832E-01	-7.97187E-04	-8.36643E-01	2.40465E 01	3.54357E 02	
25.20	8.55721E-01	2.31781E 01	9.17917E-01	-8.00179E-04	-8.45520E-01	2.41426E 01	3.55002E 02	
25.30	8.55713E-01	2.32739E 01	9.27048E-01	-8.03137E-04	-8.54442E-01	2.42387E 01	3.55645E 02	
25.40	8.55705E-01	2.33697E 01	9.36224E-01	-8.06054E-04	-8.63409E-01	2.43349E 01	3.56288E 02	
25.50	8.55698E-01	2.34656E 01	9.45444E-01	-8.08940E-04	-8.72421E-01	2.44311E 01	3.56929E 02	
25.60	8.55690E-01	2.35615E 01	9.54710E-01	-8.11780E-04	-8.81478E-01	2.45272E 01	3.57571E 02	
25.70	8.55682E-01	2.36574E 01	9.64021E-01	-8.14600E-04	-8.90580E-01	2.46235E 01	3.58209E 02	
25.80	8.55674E-01	2.37534E 01	9.73377E-01	-8.17381E-04	-8.99728E-01	2.47197E 01	3.58847E 02	
25.90	8.55666E-01	2.38493E 01	9.82778E-01	-8.20127E-04	-9.08920E-01	2.48159E 01	3.59485E 02	
26.00	8.55658E-01	2.39453E 01	9.92224E-01	-8.22835E-04	-9.18158E-01	2.49122E 01	3.60121E 02	
26.10	8.55651E-01	2.40413E 01	1.00172E 00	-8.25513E-04	-9.27441E-01	2.50085E 01	3.60757E 02	
26.20	8.55643E-01	2.41373E 01	1.01125E 00	-8.28165E-04	-9.36769E-01	2.51049E 01	3.61390E 02	
26.30	8.55635E-01	2.42334E 01	1.02083E 00	-8.30772E-04	-9.46143E-01	2.52012E 01	3.62025E 02	
26.40	8.55628E-01	2.43294E 01	1.03046E 00	-8.33355E-04	-9.55562E-01	2.52976E 01	3.62657E 02	
26.50	8.55620E-01	2.44255E 01	1.04013E 00	-8.35909E-04	-9.65026E-01	2.53940E 01	3.63288E 02	
26.60	8.55612E-01	2.45217E 01	1.04985E 00	-8.38432E-04	-9.74535E-01	2.54904E 01	3.63918E 02	
26.70	8.55605E-01	2.46178E 01	1.05961E 00	-8.40921E-04	-9.84090E-01	2.55868E 01	3.64547E 02	
26.80	8.55597E-01	2.47140E 01	1.06942E 00	-8.43371E-04	-9.93690E-01	2.56833E 01	3.65177E 02	
26.90	8.55589E-01	2.48102E 01	1.07927E 00	-8.45802E-04	-1.00334E 00	2.57798E 01	3.65804E 02	
27.00	8.55582E-01	2.49064E 01	1.08917E 00	-8.48198E-04	-1.01303E 00	2.58763E 01	3.66432E 02	
27.10	8.55574E-01	2.50026E 01	1.09912E 00	-8.50563E-04	-1.02276E 00	2.59729E 01	3.67058E 02	
27.20	8.55567E-01	2.50988E 01	1.10911E 00	-8.52905E-04	-1.03255E 00	2.60694E 01	3.67683E 02	
27.30	8.55559E-01	2.51951E 01	1.11914E 00	-8.55211E-04	-1.04237E 00	2.61660E 01	3.68308E 02	
27.40	8.55552E-01	2.52914E 01	1.12922E 00	-8.57495E-04	-1.05225E 00	2.62626E 01	3.68931E 02	
27.50	8.55544E-01	2.53878E 01	1.13935E 00	-8.59744E-04	-1.06216E 00	2.63593E 01	3.69554E 02	
27.60	8.55537E-01	2.54841E 01	1.14952E 00	-8.61962E-04	-1.07213E 00	2.64559E 01	3.70177E 02	
27.70	8.55530E-01	2.55805E 01	1.15973E 00	-8.64161E-04	-1.08214E 00	2.65526E 01	3.70798E 02	
27.80	8.55522E-01	2.56769E 01	1.17000E 00	-8.66323E-04	-1.09219E 00	2.66493E 01	3.71420E 02	
27.90	8.55515E-01	2.57733E 01	1.18031E 00	-8.68457E-04	-1.10229E 00	2.67461E 01	3.72041E 02	
28.00	8.55508E-01	2.58697E 01	1.19066E 00	-8.70573E-04	-1.11244E 00	2.68428E 01	3.72660E 02	
28.10	8.55500E-01	2.59662E 01	1.20106E 00	-8.72654E-04	-1.12263E 00	2.69396E 01	3.73279E 02	
28.20	8.55493E-01	2.60627E 01	1.21150E 00	-8.74713E-04	-1.13287E 00	2.70364E 01	3.73897E 02	
28.30	8.55486E-01	2.61592E 01	1.22199E 00	-8.76748E-04	-1.14315E 00	2.71333E 01	3.74514E 02	
28.40	8.55479E-01	2.62557E 01	1.23253E 00	-8.78746E-04	-1.15348E 00	2.72302E 01	3.75132E 02	
28.50	8.55471E-01	2.63523E 01	1.24311E 00	-8.80711E-04	-1.16386E 00	2.73270E 01	3.75751E 02	
28.60	8.55464E-01	2.64489E 01	1.25374E 00	-8.82670E-04	-1.17428E 00	2.74240E 01	3.76366E 02	
28.70	8.55457E-01	2.65455E 01	1.26441E 00	-8.84595E-04	-1.18475E 00	2.75209E 01	3.76982E 02	
28.80	8.55450E-01	2.66421E 01	1.27513E 00	-8.86494E-04	-1.19526E 00	2.76179E 01	3.77597E 02	
28.90	8.55443E-01	2.67388E 01	1.28590E 00	-8.88363E-04	-1.20582E 00	2.77148E 01	3.78213E 02	
29.00	8.55436E-01	2.68355E 01	1.29671E 00	-8.90212E-04	-1.21642E 00	2.78119E 01	3.78827E 02	
29.10	8.55428E-01	2.69322E 01	1.30756E 00	-8.92037E-04	-1.22707E 00	2.79089E 01	3.79441E 02	
29.20	8.55421E-01	2.70289E 01	1.31847E 00	-8.93837E-04	-1.23777E 00	2.80060E 01	3.80054E 02	
29.30	8.55414E-01	2.71257E 01	1.32941E 00	-8.95609E-04	-1.24851E 00	2.81031E 01	3.80667E 02	
29.40	8.55407E-01	2.72225E 01	1.34041E 00	-8.97361E-04	-1.25930E 00	2.82002E 01	3.81280E 02	
29.50	8.55400E-01	2.73193E 01	1.35145E 00	-8.99084E-04	-1.27014E 00	2.82973E 01	3.81892E 02	
29.60	8.55393E-01	2.74161E 01	1.36254E 00	-9.00793E-04	-1.28102E 00	2.83945E 01	3.82503E 02	
29.70	8.55386E-01	2.75130E 01	1.37367E 00	-9.02468E-04	-1.29194E 00	2.84917E 01	3.83116E 02	
29.80	8.55379E-01	2.76099E 01	1.38485E 00	-9.04130E-04	-1.30292E 00	2.85889E 01	3.83726E 02	
29.90	8.55372E-01	2.77068E 01	1.39607E 00	-9.05760E-04	-1.31393E 00	2.86862E 01	3.84337E 02	
30.00	8.55365E-01	2.78037E 01	1.40734E 00	-9.07366E-04	-1.32500E 00	2.87835E 01	3.84948E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$  $A = 14$  $\rho = 1.1 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
24.10	6.49650E-04	1.20406E 00	2.74822E-02	-2.78102E 01	-2.51986E-02	1.25507E 00	3.48968E-02
24.20	6.55049E-04	1.21417E 00	2.78797E-02	-2.78120E 01	-2.55796E-02	1.26540E 00	3.48988E-02
24.30	6.60471E-04	1.22433E 00	2.82809E-02	-2.78139E 01	-2.59643E-02	1.27576E 00	3.49007E-02
24.40	6.65916E-04	1.23452E 00	2.86860E-02	-2.78158E 01	-2.63527E-02	1.28617E 00	3.49027E-02
24.50	6.71382E-04	1.24476E 00	2.90948E-02	-2.78176E 01	-2.67449E-02	1.29662E 00	3.49046E-02
24.60	6.76871E-04	1.25504E 00	2.95074E-02	-2.78194E 01	-2.71408E-02	1.30711E 00	3.49064E-02
24.70	6.82383E-04	1.26536E 00	2.99239E-02	-2.78212E 01	-2.75404E-02	1.31764E 00	3.49083E-02
24.80	6.87917E-04	1.27572E 00	3.03441E-02	-2.78230E 01	-2.79439E-02	1.32821E 00	3.49102E-02
24.90	6.93472E-04	1.28613E 00	3.07683E-02	-2.78248E 01	-2.83511E-02	1.33883E 00	3.49120E-02
25.00	6.99051E-04	1.29657E 00	3.11963E-02	-2.78266E 01	-2.87621E-02	1.34949E 00	3.49139E-02
25.10	7.04651E-04	1.30706E 00	3.16282E-02	-2.78283E 01	-2.91770E-02	1.36019E 00	3.49157E-02
25.20	7.10274E-04	1.31759E 00	3.20640E-02	-2.78300E 01	-2.95957E-02	1.37093E 00	3.49175E-02
25.30	7.15920E-04	1.32817E 00	3.25037E-02	-2.78318E 01	-3.00183E-02	1.38172E 00	3.49193E-02
25.40	7.21587E-04	1.33878E 00	3.29474E-02	-2.78335E 01	-3.04448E-02	1.39254E 00	3.49211E-02
25.50	7.27277E-04	1.34944E 00	3.33951E-02	-2.78351E 01	-3.08752E-02	1.40341E 00	3.49228E-02
25.60	7.32990E-04	1.36014E 00	3.38467E-02	-2.78368E 01	-3.13095E-02	1.41432E 00	3.49246E-02
25.70	7.38724E-04	1.37088E 00	3.43023E-02	-2.78385E 01	-3.17477E-02	1.42528E 00	3.49263E-02
25.80	7.44481E-04	1.38166E 00	3.47619E-02	-2.78401E 01	-3.21899E-02	1.43627E 00	3.49281E-02
25.90	7.50260E-04	1.39249E 00	3.52255E-02	-2.78418E 01	-3.26361E-02	1.44731E 00	3.49298E-02
26.00	7.56062E-04	1.40335E 00	3.56932E-02	-2.78434E 01	-3.30862E-02	1.45839E 00	3.49315E-02
26.10	7.61886E-04	1.41426E 00	3.61650E-02	-2.78450E 01	-3.35404E-02	1.46951E 00	3.49332E-02
26.20	7.67732E-04	1.42522E 00	3.66408E-02	-2.78466E 01	-3.39986E-02	1.48067E 00	3.49349E-02
26.30	7.73600E-04	1.43621E 00	3.71208E-02	-2.78482E 01	-3.44608E-02	1.49188E 00	3.49365E-02
26.40	7.79491E-04	1.44724E 00	3.76048E-02	-2.78498E 01	-3.49271E-02	1.50312E 00	3.49382E-02
26.50	7.85405E-04	1.45832E 00	3.80930E-02	-2.78513E 01	-3.53974E-02	1.51441E 00	3.49398E-02
26.60	7.91340E-04	1.46944E 00	3.85853E-02	-2.78529E 01	-3.58719E-02	1.52574E 00	3.49414E-02
26.70	7.97298E-04	1.48060E 00	3.90819E-02	-2.78544E 01	-3.63504E-02	1.53711E 00	3.49431E-02
26.80	8.03278E-04	1.49180E 00	3.95825E-02	-2.78559E 01	-3.68331E-02	1.54853E 00	3.49447E-02
26.90	8.09281E-04	1.50305E 00	4.00874E-02	-2.78574E 01	-3.73200E-02	1.55999E 00	3.49463E-02
27.00	8.15306E-04	1.51434E 00	4.05965E-02	-2.78589E 01	-3.78109E-02	1.57148E 00	3.49479E-02
27.10	8.21353E-04	1.52567E 00	4.11099E-02	-2.78604E 01	-3.83061E-02	1.58302E 00	3.49494E-02
27.20	8.27422E-04	1.53704E 00	4.16275E-02	-2.78619E 01	-3.88055E-02	1.59461E 00	3.49510E-02
27.30	8.33514E-04	1.54845E 00	4.21493E-02	-2.78634E 01	-3.93090E-02	1.60623E 00	3.49526E-02
27.40	8.39628E-04	1.55990E 00	4.26755E-02	-2.78648E 01	-3.98169E-02	1.61790E 00	3.49541E-02
27.50	8.45765E-04	1.57140E 00	4.32060E-02	-2.78663E 01	-4.03289E-02	1.62961E 00	3.49556E-02
27.60	8.51924E-04	1.58294E 00	4.37408E-02	-2.78677E 01	-4.08452E-02	1.64136E 00	3.49571E-02
27.70	8.58105E-04	1.59452E 00	4.42799E-02	-2.78691E 01	-4.13658E-02	1.65315E 00	3.49587E-02
27.80	8.64308E-04	1.60614E 00	4.48234E-02	-2.78706E 01	-4.18907E-02	1.66498E 00	3.49602E-02
27.90	8.70534E-04	1.61781E 00	4.53712E-02	-2.78720E 01	-4.24200E-02	1.67686E 00	3.49617E-02
28.00	8.76782E-04	1.62951E 00	4.59235E-02	-2.78733E 01	-4.29535E-02	1.68878E 00	3.49631E-02
28.10	8.83053E-04	1.64126E 00	4.64802E-02	-2.78747E 01	-4.34914E-02	1.70074E 00	3.49646E-02
28.20	8.89346E-04	1.65305E 00	4.70412E-02	-2.78761E 01	-4.40337E-02	1.71274E 00	3.49661E-02
28.30	8.95661E-04	1.66488E 00	4.76068E-02	-2.78775E 01	-4.45804E-02	1.72478E 00	3.49675E-02
28.40	9.01998E-04	1.67676E 00	4.81768E-02	-2.78788E 01	-4.51314E-02	1.73687E 00	3.49690E-02
28.50	9.08358E-04	1.68867E 00	4.87512E-02	-2.78802E 01	-4.56869E-02	1.74899E 00	3.49704E-02
28.60	9.14740E-04	1.70063E 00	4.93302E-02	-2.78815E 01	-4.62468E-02	1.76116E 00	3.49718E-02
28.70	9.21144E-04	1.71263E 00	4.99137E-02	-2.78828E 01	-4.68112E-02	1.77337E 00	3.49732E-02
28.80	9.27571E-04	1.72467E 00	5.05017E-02	-2.78841E 01	-4.73801E-02	1.78563E 00	3.49746E-02
28.90	9.34020E-04	1.73676E 00	5.10943E-02	-2.78854E 01	-4.79534E-02	1.79792E 00	3.49760E-02
29.00	9.40491E-04	1.74888E 00	5.16914E-02	-2.78867E 01	-4.85313E-02	1.81026E 00	3.49774E-02
29.10	9.46985E-04	1.76105E 00	5.22931E-02	-2.78880E 01	-4.91136E-02	1.82264E 00	3.49788E-02
29.20	9.53501E-04	1.77326E 00	5.28994E-02	-2.78893E 01	-4.97005E-02	1.83506E 00	3.49802E-02
29.30	9.60039E-04	1.78551E 00	5.35103E-02	-2.78906E 01	-5.02920E-02	1.84752E 00	3.49815E-02
29.40	9.66600E-04	1.79780E 00	5.41258E-02	-2.78918E 01	-5.08881E-02	1.86002E 00	3.49829E-02
29.50	9.73183E-04	1.81014E 00	5.47460E-02	-2.78931E 01	-5.14887E-02	1.87257E 00	3.49842E-02
29.60	9.79788E-04	1.82251E 00	5.53709E-02	-2.78943E 01	-5.20940E-02	1.88516E 00	3.49855E-02
29.70	9.86416E-04	1.83493E 00	5.60004E-02	-2.78955E 01	-5.27038E-02	1.89779E 00	3.49869E-02
29.80	9.93066E-04	1.84739E 00	5.66347E-02	-2.78968E 01	-5.33184E-02	1.91046E 00	3.49882E-02
29.90	9.99738E-04	1.85989E 00	5.72737E-02	-2.78980E 01	-5.39375E-02	1.92317E 00	3.49895E-02
30.00	1.00643E-03	1.87244E 00	5.79174E-02	-2.78992E 01	-5.45614E-02	1.93592E 00	3.49908E-02



## ELECTRON RADIAL FUNCTIONS

Positron	$Z=7$		$A=14$		$\rho=1.1 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
30.10	8.55358E-01	2.79007E 01	1.41866E 00	-9.08949E-04	-1.33611E 00	2.88808E 01	3.85559E 02	
30.20	8.55352E-01	2.79977E 01	1.43002E 00	-9.10512E-04	-1.34727E 00	2.89781E 01	3.86169E 02	
30.30	8.55345E-01	2.80947E 01	1.44143E 00	-9.12051E-04	-1.35847E 00	2.90755E 01	3.86779E 02	
30.40	8.55338E-01	2.81918E 01	1.45289E 00	-9.13558E-04	-1.36972E 00	2.91728E 01	3.87390E 02	
30.50	8.55331E-01	2.82888E 01	1.46439E 00	-9.15060E-04	-1.38102E 00	2.92703E 01	3.87999E 02	
30.60	8.55324E-01	2.83859E 01	1.47593E 00	-9.16537E-04	-1.39236E 00	2.93677E 01	3.88608E 02	
30.70	8.55317E-01	2.84830E 01	1.48753E 00	-9.17986E-04	-1.40375E 00	2.94652E 01	3.89217E 02	
30.80	8.55311E-01	2.85802E 01	1.49917E 00	-9.19417E-04	-1.41518E 00	2.95626E 01	3.89826E 02	
30.90	8.55304E-01	2.86773E 01	1.51085E 00	-9.20824E-04	-1.42667E 00	2.96602E 01	3.90435E 02	
31.00	8.55297E-01	2.87745E 01	1.52259E 00	-9.22215E-04	-1.43819E 00	2.97577E 01	3.91043E 02	
31.10	8.55291E-01	2.88718E 01	1.53437E 00	-9.23579E-04	-1.44977E 00	2.98553E 01	3.91652E 02	
31.20	8.55284E-01	2.89690E 01	1.54619E 00	-9.24922E-04	-1.46139E 00	2.99529E 01	3.92261E 02	
31.30	8.55277E-01	2.90663E 01	1.55806E 00	-9.26244E-04	-1.47306E 00	3.00505E 01	3.92870E 02	
31.40	8.55271E-01	2.91636E 01	1.56998E 00	-9.27550E-04	-1.48477E 00	3.01482E 01	3.93478E 02	
31.50	8.55264E-01	2.92609E 01	1.58195E 00	-9.28831E-04	-1.49653E 00	3.02459E 01	3.94087E 02	
31.60	8.55257E-01	2.93583E 01	1.59396E 00	-9.30092E-04	-1.50834E 00	3.03436E 01	3.94695E 02	
31.70	8.55251E-01	2.94556E 01	1.60602E 00	-9.31338E-04	-1.52019E 00	3.04413E 01	3.95303E 02	
31.80	8.55244E-01	2.95531E 01	1.61812E 00	-9.32559E-04	-1.53209E 00	3.05391E 01	3.95911E 02	
31.90	8.55237E-01	2.96505E 01	1.63027E 00	-9.33765E-04	-1.54404E 00	3.06369E 01	3.96519E 02	
32.00	8.55231E-01	2.97480E 01	1.64247E 00	-9.34943E-04	-1.55603E 00	3.07347E 01	3.97128E 02	
32.10	8.55225E-01	2.98454E 01	1.65471E 00	-9.36107E-04	-1.56807E 00	3.08326E 01	3.97736E 02	
32.20	8.55218E-01	2.99430E 01	1.66700E 00	-9.37250E-04	-1.58016E 00	3.09304E 01	3.98345E 02	
32.30	8.55212E-01	3.00405E 01	1.67934E 00	-9.38372E-04	-1.59230E 00	3.10284E 01	3.98954E 02	
32.40	8.55205E-01	3.01381E 01	1.69173E 00	-9.39480E-04	-1.60448E 00	3.11263E 01	3.99562E 02	
32.50	8.55199E-01	3.02357E 01	1.70416E 00	-9.40560E-04	-1.61670E 00	3.12243E 01	4.00171E 02	
32.60	8.55192E-01	3.03333E 01	1.71663E 00	-9.41632E-04	-1.62898E 00	3.13223E 01	4.00779E 02	
32.70	8.55186E-01	3.04310E 01	1.72916E 00	-9.42680E-04	-1.64130E 00	3.14203E 01	4.01388E 02	
32.80	8.55180E-01	3.05286E 01	1.74173E 00	-9.43712E-04	-1.65367E 00	3.15183E 01	4.01997E 02	
32.90	8.55173E-01	3.06264E 01	1.75435E 00	-9.44721E-04	-1.66608E 00	3.16164E 01	4.02606E 02	
33.00	8.55167E-01	3.07241E 01	1.76701E 00	-9.45710E-04	-1.67855E 00	3.17145E 01	4.03216E 02	
33.10	8.55160E-01	3.08219E 01	1.77973E 00	-9.46682E-04	-1.69106E 00	3.18127E 01	4.03826E 02	
33.20	8.55154E-01	3.09197E 01	1.79249E 00	-9.47632E-04	-1.70361E 00	3.19108E 01	4.04437E 02	
33.30	8.55148E-01	3.10175E 01	1.80529E 00	-9.48573E-04	-1.71621E 00	3.20090E 01	4.05046E 02	
33.40	8.55142E-01	3.11153E 01	1.81814E 00	-9.49491E-04	-1.72887E 00	3.21073E 01	4.05657E 02	
33.50	8.55135E-01	3.12132E 01	1.83104E 00	-9.50399E-04	-1.74156E 00	3.22055E 01	4.06267E 02	
33.60	8.55129E-01	3.13111E 01	1.84399E 00	-9.51280E-04	-1.75431E 00	3.23038E 01	4.06878E 02	
33.70	8.55123E-01	3.14091E 01	1.85699E 00	-9.52150E-04	-1.76710E 00	3.24021E 01	4.07489E 02	
33.80	8.55116E-01	3.15070E 01	1.87003E 00	-9.53002E-04	-1.77994E 00	3.25005E 01	4.08100E 02	
33.90	8.55110E-01	3.16050E 01	1.88312E 00	-9.53830E-04	-1.79283E 00	3.25989E 01	4.08712E 02	
34.00	8.55104E-01	3.17030E 01	1.89625E 00	-9.54640E-04	-1.80576E 00	3.26973E 01	4.09325E 02	
34.10	8.55098E-01	3.18011E 01	1.90943E 00	-9.55444E-04	-1.81874E 00	3.27957E 01	4.09936E 02	
34.20	8.55092E-01	3.18992E 01	1.92266E 00	-9.56224E-04	-1.83177E 00	3.28942E 01	4.10549E 02	
34.30	8.55085E-01	3.19973E 01	1.93594E 00	-9.56989E-04	-1.84484E 00	3.29927E 01	4.11162E 02	
34.40	8.55079E-01	3.20954E 01	1.94927E 00	-9.57734E-04	-1.85797E 00	3.30912E 01	4.11776E 02	
34.50	8.55073E-01	3.21936E 01	1.96264E 00	-9.58466E-04	-1.87114E 00	3.31897E 01	4.12390E 02	
34.60	8.55067E-01	3.22918E 01	1.97606E 00	-9.59178E-04	-1.88436E 00	3.32883E 01	4.13004E 02	
34.70	8.55061E-01	3.23900E 01	1.98952E 00	-9.59873E-04	-1.89762E 00	3.33869E 01	4.13620E 02	
34.80	8.55055E-01	3.24882E 01	2.00304E 00	-9.60557E-04	-1.91093E 00	3.34856E 01	4.14234E 02	
34.90	8.55049E-01	3.25865E 01	2.01660E 00	-9.61225E-04	-1.92429E 00	3.35843E 01	4.14849E 02	
35.00	8.55043E-01	3.26848E 01	2.03021E 00	-9.61877E-04	-1.93770E 00	3.36830E 01	4.15465E 02	
35.10	8.55037E-01	3.27832E 01	2.04387E 00	-9.62503E-04	-1.95116E 00	3.37817E 01	4.16083E 02	
35.20	8.55031E-01	3.28816E 01	2.05757E 00	-9.63123E-04	-1.96466E 00	3.38805E 01	4.16699E 02	
35.30	8.55025E-01	3.29800E 01	2.07132E 00	-9.63725E-04	-1.97821E 00	3.39793E 01	4.17317E 02	
35.40	8.55019E-01	3.30784E 01	2.08512E 00	-9.64309E-04	-1.99181E 00	3.40781E 01	4.17935E 02	
35.50	8.55013E-01	3.31768E 01	2.09897E 00	-9.64875E-04	-2.00546E 00	3.41770E 01	4.18554E 02	
35.60	8.55007E-01	3.32753E 01	2.11286E 00	-9.65428E-04	-2.01915E 00	3.42759E 01	4.19174E 02	
35.70	8.55001E-01	3.33739E 01	2.12680E 00	-9.65968E-04	-2.03289E 00	3.43748E 01	4.19793E 02	
35.80	8.54995E-01	3.34724E 01	2.14079E 00	-9.66489E-04	-2.04668E 00	3.44738E 01	4.20414E 02	
35.90	8.54989E-01	3.35710E 01	2.15483E 00	-9.66999E-04	-2.06052E 00	3.45727E 01	4.21034E 02	
36.00	8.54983E-01	3.36696E 01	2.16892E 00	-9.67497E-04	-2.07441E 00	3.46718E 01	4.21655E 02	

## ELECTRON RADIAL FUNCTIONS

$\rho$	$\bar{F}$	$f_2$	$Z=7$			$A=14$			$\rho=1.1 A^{1/3} F$			Positron
			$g_2$	$\tan \delta_2$	$f_{-2}$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_2$	$\tan \delta_2$		
30.10	1.01315E-03	1.88502E 00	5.85659E-02	-2.79004E 01	-5.51900E-02	1.94872E 00	3.49921E-02					
30.20	1.01989E-03	1.89765E 00	5.92191E-02	-2.79016E 01	-5.58233E-02	1.96156E 00	3.49934E-02					
30.30	1.02665E-03	1.91032E 00	5.98771E-02	-2.79028E 01	-5.64613E-02	1.97444E 00	3.49946E-02					
30.40	1.03344E-03	1.92303E 00	6.05400E-02	-2.79039E 01	-5.71040E-02	1.98736E 00	3.49959E-02					
30.50	1.04024E-03	1.93578E 00	6.12076E-02	-2.79051E 01	-5.77516E-02	2.00033E 00	3.49972E-02					
30.60	1.04707E-03	1.94858E 00	6.18801E-02	-2.79063E 01	-5.84039E-02	2.01333E 00	3.49984E-02					
30.70	1.05392E-03	1.96141E 00	6.25575E-02	-2.79074E 01	-5.90610E-02	2.02638E 00	3.49997E-02					
30.80	1.06079E-03	1.97429E 00	6.32397E-02	-2.79086E 01	-5.97229E-02	2.03947E 00	3.50009E-02					
30.90	1.06769E-03	1.98721E 00	6.39268E-02	-2.79097E 01	-6.03896E-02	2.05260E 00	3.50021E-02					
31.00	1.07461E-03	2.00017E 00	6.46188E-02	-2.79108E 01	-6.10612E-02	2.06577E 00	3.50034E-02					
31.10	1.08155E-03	2.01318E 00	6.53158E-02	-2.79119E 01	-6.17377E-02	2.07899E 00	3.50046E-02					
31.20	1.08851E-03	2.02622E 00	6.60177E-02	-2.79131E 01	-6.24191E-02	2.09224E 00	3.50058E-02					
31.30	1.09550E-03	2.03931E 00	6.67245E-02	-2.79142E 01	-6.31053E-02	2.10554E 00	3.50070E-02					
31.40	1.10250E-03	2.05244E 00	6.74364E-02	-2.79153E 01	-6.37965E-02	2.11888E 00	3.50082E-02					
31.50	1.10953E-03	2.06561E 00	6.81532E-02	-2.79163E 01	-6.44926E-02	2.13226E 00	3.50094E-02					
31.60	1.11658E-03	2.07882E 00	6.88750E-02	-2.79174E 01	-6.51937E-02	2.14569E 00	3.50105E-02					
31.70	1.12366E-03	2.09207E 00	6.96019E-02	-2.79185E 01	-6.58998E-02	2.15915E 00	3.50117E-02					
31.80	1.13075E-03	2.10537E 00	7.03338E-02	-2.79196E 01	-6.66108E-02	2.17266E 00	3.50129E-02					
31.90	1.13787E-03	2.11871E 00	7.10708E-02	-2.79206E 01	-6.73268E-02	2.18621E 00	3.50140E-02					
32.00	1.14501E-03	2.13208E 00	7.18128E-02	-2.79217E 01	-6.80479E-02	2.19980E 00	3.50152E-02					
32.10	1.15218E-03	2.14551E 00	7.25600E-02	-2.79227E 01	-6.87740E-02	2.21343E 00	3.50163E-02					
32.20	1.15936E-03	2.15897E 00	7.33123E-02	-2.79238E 01	-6.95052E-02	2.22710E 00	3.50175E-02					
32.30	1.16657E-03	2.17247E 00	7.40697E-02	-2.79248E 01	-7.02414E-02	2.24082E 00	3.50186E-02					
32.40	1.17380E-03	2.18602E 00	7.48322E-02	-2.79259E 01	-7.09827E-02	2.25457E 00	3.50197E-02					
32.50	1.18105E-03	2.19961E 00	7.56000E-02	-2.79269E 01	-7.17292E-02	2.26837E 00	3.50208E-02					
32.60	1.18833E-03	2.21323E 00	7.63728E-02	-2.79279E 01	-7.24807E-02	2.28221E 00	3.50219E-02					
32.70	1.19563E-03	2.22691E 00	7.71510E-02	-2.79289E 01	-7.32374E-02	2.29610E 00	3.50230E-02					
32.80	1.20295E-03	2.24062E 00	7.79343E-02	-2.79299E 01	-7.39993E-02	2.31002E 00	3.50241E-02					
32.90	1.21029E-03	2.25437E 00	7.87228E-02	-2.79309E 01	-7.47664E-02	2.32398E 00	3.50252E-02					
33.00	1.21765E-03	2.26817E 00	7.95166E-02	-2.79319E 01	-7.55386E-02	2.33799E 00	3.50263E-02					
33.10	1.22504E-03	2.28201E 00	8.03157E-02	-2.79329E 01	-7.63160E-02	2.35204E 00	3.50274E-02					
33.20	1.23245E-03	2.29589E 00	8.11201E-02	-2.79339E 01	-7.70987E-02	2.36613E 00	3.50285E-02					
33.30	1.23988E-03	2.30981E 00	8.19297E-02	-2.79348E 01	-7.78867E-02	2.38026E 00	3.50295E-02					
33.40	1.24733E-03	2.32377E 00	8.27447E-02	-2.79358E 01	-7.86799E-02	2.39444E 00	3.50306E-02					
33.50	1.25481E-03	2.33777E 00	8.35651E-02	-2.79368E 01	-7.94783E-02	2.40865E 00	3.50317E-02					
33.60	1.26231E-03	2.35182E 00	8.43907E-02	-2.79377E 01	-8.02821E-02	2.42291E 00	3.50327E-02					
33.70	1.26983E-03	2.36591E 00	8.52218E-02	-2.79387E 01	-8.10912E-02	2.43721E 00	3.50337E-02					
33.80	1.27737E-03	2.38004E 00	8.60583E-02	-2.79396E 01	-8.19056E-02	2.45155E 00	3.50348E-02					
33.90	1.28494E-03	2.39421E 00	8.69001E-02	-2.79406E 01	-8.27254E-02	2.46593E 00	3.50358E-02					
34.00	1.29252E-03	2.40842E 00	8.77474E-02	-2.79415E 01	-8.35505E-02	2.48035E 00	3.50368E-02					
34.10	1.30013E-03	2.42267E 00	8.86001E-02	-2.79424E 01	-8.43810E-02	2.49481E 00	3.50379E-02					
34.20	1.30776E-03	2.43697E 00	8.94583E-02	-2.79433E 01	-8.52169E-02	2.50932E 00	3.50389E-02					
34.30	1.31542E-03	2.45131E 00	9.03219E-02	-2.79442E 01	-8.60583E-02	2.52387E 00	3.50399E-02					
34.40	1.32310E-03	2.46568E 00	9.11911E-02	-2.79452E 01	-8.69050E-02	2.53846E 00	3.50409E-02					
34.50	1.33080E-03	2.48010E 00	9.20657E-02	-2.79461E 01	-8.77573E-02	2.55309E 00	3.50419E-02					
34.60	1.33852E-03	2.49457E 00	9.29459E-02	-2.79470E 01	-8.86150E-02	2.56776E 00	3.50429E-02					
34.70	1.34626E-03	2.50907E 00	9.38316E-02	-2.79478E 01	-8.94781E-02	2.58248E 00	3.50439E-02					
34.80	1.35403E-03	2.52361E 00	9.47229E-02	-2.79487E 01	-9.03468E-02	2.59723E 00	3.50448E-02					
34.90	1.36181E-03	2.53820E 00	9.56197E-02	-2.79496E 01	-9.12210E-02	2.61203E 00	3.50458E-02					
35.00	1.36963E-03	2.55283E 00	9.65222E-02	-2.79505E 01	-9.21008E-02	2.62687E 00	3.50468E-02					
35.10	1.37746E-03	2.56750E 00	9.74302E-02	-2.79514E 01	-9.29861E-02	2.64175E 00	3.50477E-02					
35.20	1.38531E-03	2.58221E 00	9.83439E-02	-2.79522E 01	-9.38769E-02	2.65667E 00	3.50487E-02					
35.30	1.39319E-03	2.59696E 00	9.92633E-02	-2.79531E 01	-9.47734E-02	2.67163E 00	3.50497E-02					
35.40	1.40109E-03	2.61176E 00	1.00188E-01	-2.79540E 01	-9.56754E-02	2.68664E 00	3.50506E-02					
35.50	1.40901E-03	2.62659E 00	1.01119E-01	-2.79548E 01	-9.65831E-02	2.70169E 00	3.50516E-02					
35.60	1.41696E-03	2.64147E 00	1.02055E-01	-2.79557E 01	-9.74964E-02	2.71677E 00	3.50525E-02					
35.70	1.42493E-03	2.65639E 00	1.02997E-01	-2.79565E 01	-9.84154E-02	2.73190E 00	3.50534E-02					
35.80	1.43291E-03	2.67135E 00	1.03945E-01	-2.79573E 01	-9.93401E-02	2.74707E 00	3.50544E-02					
35.90	1.44093E-03	2.68635E 00	1.04899E-01	-2.79582E 01	-1.00270E-01	2.76229E 00	3.50553E-02					
36.00	1.44896E-03	2.70139E 00	1.05858E-01	-2.79590E 01	-1.01206E-01	2.77754E 00	3.50562E-02					



ELECTRON RADIAL FUNCTIONS

Positron	$Z=7$		$A=14$		$\rho=1.1 A^{1/3} F$			
$p$	$F_0$	$f_1$	$g_1$	$\tan \delta_1$	$f_{-1}$	$g_{-1}$	$\tan \delta_{-1}$	
36.10	8.54977E-01	3.37683E 01	2.18305E 00	-9.67972E-04	-2.08834E 00	3.47708E 01	4.22278E 02	
36.20	8.54971E-01	3.38669E 01	2.19723E 00	-9.68442E-04	-2.10232E 00	3.48699E 01	4.22899E 02	
36.30	8.54965E-01	3.39656E 01	2.21146E 00	-9.68885E-04	-2.11635E 00	3.49690E 01	4.23524E 02	
36.40	8.54960E-01	3.40644E 01	2.22574E 00	-9.69324E-04	-2.13043E 00	3.50682E 01	4.24147E 02	
36.50	8.54954E-01	3.41631E 01	2.24006E 00	-9.69742E-04	-2.14455E 00	3.51674E 01	4.24772E 02	
36.60	8.54948E-01	3.42619E 01	2.25444E 00	-9.70150E-04	-2.15873E 00	3.52666E 01	4.25396E 02	
36.70	8.54942E-01	3.43608E 01	2.26886E 00	-9.70529E-04	-2.17295E 00	3.53658E 01	4.26024E 02	
36.80	8.54936E-01	3.44596E 01	2.28333E 00	-9.70911E-04	-2.18722E 00	3.54651E 01	4.26650E 02	
36.90	8.54931E-01	3.45585E 01	2.29784E 00	-9.71265E-04	-2.20154E 00	3.55644E 01	4.27279E 02	
37.00	8.54925E-01	3.46574E 01	2.31241E 00	-9.71622E-04	-2.21590E 00	3.56637E 01	4.27905E 02	
37.10	8.54919E-01	3.47564E 01	2.32702E 00	-9.71950E-04	-2.23032E 00	3.57631E 01	4.28535E 02	
37.20	8.54913E-01	3.48554E 01	2.34168E 00	-9.72266E-04	-2.24478E 00	3.58625E 01	4.29165E 02	
37.30	8.54907E-01	3.49544E 01	2.35639E 00	-9.72572E-04	-2.25929E 00	3.59619E 01	4.29795E 02	
37.40	8.54901E-01	3.50534E 01	2.37115E 00	-9.72864E-04	-2.27385E 00	3.60614E 01	4.30426E 02	
37.50	8.54896E-01	3.51525E 01	2.38596E 00	-9.73140E-04	-2.28846E 00	3.61609E 01	4.31058E 02	
37.60	8.54890E-01	3.52516E 01	2.40081E 00	-9.73406E-04	-2.30311E 00	3.62604E 01	4.31691E 02	
37.70	8.54884E-01	3.53507E 01	2.41571E 00	-9.73654E-04	-2.31782E 00	3.63600E 01	4.32325E 02	
37.80	8.54879E-01	3.54499E 01	2.43067E 00	-9.73890E-04	-2.33257E 00	3.64596E 01	4.32960E 02	
37.90	8.54873E-01	3.55491E 01	2.44566E 00	-9.74112E-04	-2.34737E 00	3.65593E 01	4.33595E 02	
38.00	8.54867E-01	3.56484E 01	2.46071E 00	-9.74317E-04	-2.36222E 00	3.66589E 01	4.34232E 02	
38.10	8.54862E-01	3.57476E 01	2.47581E 00	-9.74517E-04	-2.37712E 00	3.67586E 01	4.34868E 02	
38.20	8.54856E-01	3.58469E 01	2.49095E 00	-9.74694E-04	-2.39207E 00	3.68584E 01	4.35507E 02	
38.30	8.54851E-01	3.59463E 01	2.50615E 00	-9.74864E-04	-2.40706E 00	3.69581E 01	4.36146E 02	
38.40	8.54845E-01	3.60456E 01	2.52139E 00	-9.75020E-04	-2.42211E 00	3.70579E 01	4.36786E 02	
38.50	8.54840E-01	3.61450E 01	2.53668E 00	-9.75154E-04	-2.43720E 00	3.71578E 01	4.37428E 02	
38.60	8.54834E-01	3.62445E 01	2.55202E 00	-9.75294E-04	-2.45234E 00	3.72577E 01	4.38068E 02	
38.70	8.54828E-01	3.63439E 01	2.56741E 00	-9.75404E-04	-2.46754E 00	3.73576E 01	4.38712E 02	
38.80	8.54823E-01	3.64434E 01	2.58284E 00	-9.75516E-04	-2.48278E 00	3.74575E 01	4.39354E 02	
38.90	8.54817E-01	3.65430E 01	2.59833E 00	-9.75600E-04	-2.49806E 00	3.75575E 01	4.40000E 02	
39.00	8.54812E-01	3.66425E 01	2.61386E 00	-9.75678E-04	-2.51340E 00	3.76575E 01	4.40646E 02	
39.10	8.54806E-01	3.67421E 01	2.62945E 00	-9.75744E-04	-2.52879E 00	3.77575E 01	4.41293E 02	
39.20	8.54801E-01	3.68418E 01	2.64508E 00	-9.75799E-04	-2.54422E 00	3.78576E 01	4.41940E 02	
39.30	8.54795E-01	3.69414E 01	2.66076E 00	-9.75834E-04	-2.55971E 00	3.79577E 01	4.42590E 02	
39.40	8.54790E-01	3.70411E 01	2.67649E 00	-9.75858E-04	-2.57524E 00	3.80579E 01	4.43240E 02	
39.50	8.54785E-01	3.71409E 01	2.69227E 00	-9.75874E-04	-2.59082E 00	3.81580E 01	4.43891E 02	
39.60	8.54779E-01	3.72406E 01	2.70810E 00	-9.75876E-04	-2.60646E 00	3.82582E 01	4.44543E 02	
39.70	8.54774E-01	3.73404E 01	2.72397E 00	-9.75869E-04	-2.62214E 00	3.83585E 01	4.45196E 02	
39.80	8.54768E-01	3.74403E 01	2.73990E 00	-9.75850E-04	-2.63787E 00	3.84588E 01	4.45850E 02	
39.90	8.54763E-01	3.75401E 01	2.75587E 00	-9.75803E-04	-2.65365E 00	3.85591E 01	4.46507E 02	
40.00	8.54758E-01	3.76400E 01	2.77190E 00	-9.75762E-04	-2.66947E 00	3.86595E 01	4.47163E 02	
40.10	8.54752E-01	3.77399E 01	2.78797E 00	-9.75704E-04	-2.68535E 00	3.87598E 01	4.47821E 02	
40.20	8.54747E-01	3.78399E 01	2.80409E 00	-9.75630E-04	-2.70128E 00	3.88603E 01	4.48480E 02	
40.30	8.54742E-01	3.79399E 01	2.82026E 00	-9.75545E-04	-2.71726E 00	3.89607E 01	4.49141E 02	
40.40	8.54736E-01	3.80400E 01	2.83648E 00	-9.75454E-04	-2.73328E 00	3.90612E 01	4.49801E 02	
40.50	8.54731E-01	3.81400E 01	2.85276E 00	-9.75347E-04	-2.74936E 00	3.91618E 01	4.50464E 02	
40.60	8.54726E-01	3.82401E 01	2.86907E 00	-9.75231E-04	-2.76548E 00	3.92623E 01	4.51127E 02	
40.70	8.54720E-01	3.83403E 01	2.88544E 00	-9.75105E-04	-2.78166E 00	3.93629E 01	4.51791E 02	
40.80	8.54715E-01	3.84404E 01	2.90186E 00	-9.74958E-04	-2.79788E 00	3.94636E 01	4.52459E 02	
40.90	8.54710E-01	3.85407E 01	2.91833E 00	-9.74806E-04	-2.81415E 00	3.95643E 01	4.53126E 02	
41.00	8.54705E-01	3.86409E 01	2.93485E 00	-9.74641E-04	-2.83048E 00	3.96650E 01	4.53795E 02	
41.10	8.54700E-01	3.87412E 01	2.95141E 00	-9.74460E-04	-2.84685E 00	3.97657E 01	4.54466E 02	
41.20	8.54694E-01	3.88415E 01	2.96803E 00	-9.74272E-04	-2.86327E 00	3.98665E 01	4.55137E 02	
41.30	8.54689E-01	3.89418E 01	2.98470E 00	-9.74073E-04	-2.87974E 00	3.99673E 01	4.55810E 02	
41.40	8.54684E-01	3.90422E 01	3.00141E 00	-9.73864E-04	-2.89627E 00	4.00682E 01	4.56484E 02	
41.50	8.54679E-01	3.91427E 01	3.01818E 00	-9.73639E-04	-2.91284E 00	4.01691E 01	4.57160E 02	
41.60	8.54674E-01	3.92431E 01	3.03499E 00	-9.73405E-04	-2.92946E 00	4.02700E 01	4.57837E 02	
41.70	8.54668E-01	3.93436E 01	3.05186E 00	-9.73161E-04	-2.94613E 00	4.03710E 01	4.58515E 02	
41.80	8.54663E-01	3.94441E 01	3.06877E 00	-9.72907E-04	-2.96285E 00	4.04720E 01	4.59194E 02	
41.90	8.54658E-01	3.95447E 01	3.08574E 00	-9.72633E-04	-2.97962E 00	4.05730E 01	4.59876E 02	
42.00	8.54653E-01	3.96453E 01	3.10275E 00	-9.72354E-04	-2.99644E 00	4.06741E 01	4.60559E 02	

## ELECTRON RADIAL FUNCTIONS

 $Z = 7$  $A = 14$  $\rho = 1.1 A^{1/3} F$ 

Positron

$p$	$\bar{F}$	$f_2$	$g_2$	$\tan \delta_2$	$f_{-2}$	$g_{-2}$	$\tan \delta_{-2}$
36.10	1.45702E-03	2.71648E 00	1.06823E-01	-2.79598E 01	-1.02148E-01	2.79284E 00	3.50571E-02
36.20	1.46509E-03	2.73161E 00	1.07794E-01	-2.79606E 01	-1.03096E-01	2.80817E 00	3.50580E-02
36.30	1.47320E-03	2.74677E 00	1.08771E-01	-2.79615E 01	-1.04049E-01	2.82355E 00	3.50589E-02
36.40	1.48132E-03	2.76198E 00	1.09754E-01	-2.79623E 01	-1.05008E-01	2.83897E 00	3.50598E-02
36.50	1.48946E-03	2.77723E 00	1.10742E-01	-2.79631E 01	-1.05973E-01	2.85443E 00	3.50607E-02
36.60	1.49763E-03	2.79253E 00	1.11736E-01	-2.79639E 01	-1.06944E-01	2.86993E 00	3.50616E-02
36.70	1.50582E-03	2.80786E 00	1.12736E-01	-2.79647E 01	-1.07920E-01	2.88548E 00	3.50625E-02
36.80	1.51403E-03	2.82323E 00	1.13743E-01	-2.79655E 01	-1.08903E-01	2.90106E 00	3.50634E-02
36.90	1.52227E-03	2.83865E 00	1.14755E-01	-2.79662E 01	-1.09891E-01	2.91669E 00	3.50643E-02
37.00	1.53053E-03	2.85411E 00	1.15772E-01	-2.79670E 01	-1.10885E-01	2.93236E 00	3.50651E-02
37.10	1.53881E-03	2.86961E 00	1.16796E-01	-2.79678E 01	-1.11885E-01	2.94807E 00	3.50660E-02
37.20	1.54711E-03	2.88515E 00	1.17826E-01	-2.79686E 01	-1.12891E-01	2.96382E 00	3.50669E-02
37.30	1.55543E-03	2.90073E 00	1.18862E-01	-2.79693E 01	-1.13903E-01	2.97961E 00	3.50677E-02
37.40	1.56378E-03	2.91635E 00	1.19904E-01	-2.79701E 01	-1.14920E-01	2.99545E 00	3.50686E-02
37.50	1.57215E-03	2.93202E 00	1.20952E-01	-2.79709E 01	-1.15944E-01	3.01132E 00	3.50694E-02
37.60	1.58054E-03	2.94773E 00	1.22006E-01	-2.79716E 01	-1.16974E-01	3.02724E 00	3.50703E-02
37.70	1.58895E-03	2.96347E 00	1.23066E-01	-2.79724E 01	-1.18009E-01	3.04320E 00	3.50711E-02
37.80	1.59739E-03	2.97926E 00	1.24132E-01	-2.79731E 01	-1.19051E-01	3.05920E 00	3.50720E-02
37.90	1.60584E-03	2.99509E 00	1.25204E-01	-2.79739E 01	-1.20099E-01	3.07524E 00	3.50728E-02
38.00	1.61432E-03	3.01096E 00	1.26282E-01	-2.79746E 01	-1.21153E-01	3.09132E 00	3.50736E-02
38.10	1.62283E-03	3.02688E 00	1.27366E-01	-2.79754E 01	-1.22213E-01	3.10744E 00	3.50745E-02
38.20	1.63135E-03	3.04283E 00	1.28457E-01	-2.79761E 01	-1.23279E-01	3.12361E 00	3.50753E-02
38.30	1.63990E-03	3.05883E 00	1.29554E-01	-2.79768E 01	-1.24351E-01	3.13981E 00	3.50761E-02
38.40	1.64847E-03	3.07486E 00	1.30656E-01	-2.79775E 01	-1.25429E-01	3.15606E 00	3.50769E-02
38.50	1.65706E-03	3.09094E 00	1.31765E-01	-2.79783E 01	-1.26513E-01	3.17235E 00	3.50777E-02
38.60	1.66567E-03	3.10706E 00	1.32881E-01	-2.79790E 01	-1.27604E-01	3.18868E 00	3.50785E-02
38.70	1.67431E-03	3.12322E 00	1.34002E-01	-2.79797E 01	-1.28700E-01	3.20505E 00	3.50793E-02
38.80	1.68297E-03	3.13943E 00	1.35130E-01	-2.79804E 01	-1.29803E-01	3.22146E 00	3.50801E-02
38.90	1.69165E-03	3.15567E 00	1.36264E-01	-2.79811E 01	-1.30912E-01	3.23792E 00	3.50809E-02
39.00	1.70035E-03	3.17195E 00	1.37404E-01	-2.79818E 01	-1.32027E-01	3.25441E 00	3.50817E-02
39.10	1.70908E-03	3.18828E 00	1.38551E-01	-2.79825E 01	-1.33149E-01	3.27095E 00	3.50825E-02
39.20	1.71783E-03	3.20465E 00	1.39703E-01	-2.79832E 01	-1.34277E-01	3.28753E 00	3.50833E-02
39.30	1.72660E-03	3.22106E 00	1.40862E-01	-2.79839E 01	-1.35411E-01	3.30415E 00	3.50841E-02
39.40	1.73539E-03	3.23751E 00	1.42028E-01	-2.79846E 01	-1.36551E-01	3.32081E 00	3.50848E-02
39.50	1.74421E-03	3.25400E 00	1.43200E-01	-2.79853E 01	-1.37697E-01	3.33751E 00	3.50856E-02
39.60	1.75304E-03	3.27053E 00	1.44378E-01	-2.79859E 01	-1.38850E-01	3.35425E 00	3.50864E-02
39.70	1.76190E-03	3.28711E 00	1.45563E-01	-2.79866E 01	-1.40010E-01	3.37104E 00	3.50871E-02
39.80	1.77078E-03	3.30372E 00	1.46754E-01	-2.79873E 01	-1.41175E-01	3.38786E 00	3.50879E-02
39.90	1.77969E-03	3.32038E 00	1.47951E-01	-2.79879E 01	-1.42347E-01	3.40473E 00	3.50886E-02
40.00	1.78862E-03	3.33708E 00	1.49155E-01	-2.79886E 01	-1.43526E-01	3.42164E 00	3.50894E-02
40.10	1.79756E-03	3.35382E 00	1.50366E-01	-2.79893E 01	-1.44710E-01	3.43859E 00	3.50901E-02
40.20	1.80653E-03	3.37060E 00	1.51583E-01	-2.79899E 01	-1.45902E-01	3.45558E 00	3.50909E-02
40.30	1.81553E-03	3.38742E 00	1.52806E-01	-2.79906E 01	-1.47099E-01	3.47261E 00	3.50916E-02
40.40	1.82454E-03	3.40428E 00	1.54036E-01	-2.79912E 01	-1.48303E-01	3.48968E 00	3.50924E-02
40.50	1.83358E-03	3.42118E 00	1.55272E-01	-2.79919E 01	-1.49514E-01	3.50679E 00	3.50931E-02
40.60	1.84264E-03	3.43813E 00	1.56515E-01	-2.79925E 01	-1.50731E-01	3.52395E 00	3.50939E-02
40.70	1.85173E-03	3.45512E 00	1.57765E-01	-2.79932E 01	-1.51955E-01	3.54115E 00	3.50946E-02
40.80	1.86083E-03	3.47214E 00	1.59021E-01	-2.79938E 01	-1.53185E-01	3.55838E 00	3.50953E-02
40.90	1.86996E-03	3.48921E 00	1.60284E-01	-2.79944E 01	-1.54421E-01	3.57566E 00	3.50960E-02
41.00	1.87911E-03	3.50632E 00	1.61553E-01	-2.79951E 01	-1.55665E-01	3.59298E 00	3.50967E-02
41.10	1.88828E-03	3.52347E 00	1.62829E-01	-2.79957E 01	-1.56914E-01	3.61034E 00	3.50975E-02
41.20	1.89747E-03	3.54066E 00	1.64111E-01	-2.79963E 01	-1.58171E-01	3.62774E 00	3.50982E-02
41.30	1.90669E-03	3.55790E 00	1.65401E-01	-2.79970E 01	-1.59434E-01	3.64519E 00	3.50989E-02
41.40	1.91593E-03	3.57517E 00	1.66697E-01	-2.79976E 01	-1.60703E-01	3.66267E 00	3.50996E-02
41.50	1.92519E-03	3.59249E 00	1.67999E-01	-2.79982E 01	-1.61980E-01	3.68020E 00	3.51003E-02
41.60	1.93447E-03	3.60984E 00	1.69309E-01	-2.79988E 01	-1.63262E-01	3.69776E 00	3.51010E-02
41.70	1.94378E-03	3.62724E 00	1.70625E-01	-2.79994E 01	-1.64552E-01	3.71537E 00	3.51017E-02
41.80	1.95311E-03	3.64468E 00	1.71948E-01	-2.80000E 01	-1.65848E-01	3.73302E 00	3.51024E-02
41.90	1.96246E-03	3.66216E 00	1.73277E-01	-2.80006E 01	-1.67151E-01	3.75071E 00	3.51031E-02
42.00	1.97183E-03	3.67968E 00	1.74614E-01	-2.80012E 01	-1.68461E-01	3.76844E 00	3.51038E-02



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