

CHIOS, March 2020

IOANNIS GKIALAS (or GIALAS) - ΓΚΙΑΛΑΣ ΙΩΑΝΝΗΣ

Contents

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Ph.D THESIS

Measurements of A and A(nn) in proton proton elastic scattering at 18.5-GeV/c, Ioannis Gialas (1990, PhD Thesis)

CONFERENCE PUBLICATIONS (following review procedures)

- 1) Preliminary Results From Calibration of Zeus BCAL Modules at Fermilab Testbeam Experiment, U. Mallik Et Al., Proc. Calorimetry in High Energy Physics, Fermilab, November 1990, P. 116.
 - 2) Measurement of Spin Effects in PP Elastic Scattering Using the Polarized Target at the AGS, K.M. Terwilliger Et Al., Proceedings international Conference On High Energy Physics, Munich 1988, P. 621.
-
- 3) Test Beam Calibration of the Zeus Barrel Calorimeter, I. Gialas, Proceedings Calorimetry in High Energy Physics, Capri 1991, Edited By A. Ereditato, P. 162.
 - 4) Search For Leptoquarks at Zeus. I. Gialas, Proceedings Xxvi international Conference On High Energy Physics, Dallas Usa, Edited By J.R. Sanford, 2 (1992) 1301.
 - 5) Beam Tests of the Zeus Barrel Calorimeter. H. Kim, Proceedings Xxvi international Conference On High Energy Physics, Dallas Usa, Edited By J.R. Sanford, 2 (1992) 1675.
 - 6) Beam Tests of the Zeus Barrel Calorimeter. M. Wang Et Al., Proceedings Calorimetry in High Energy Physics, Corpus Christi 1992.
 - 7) Structure Functions at Small-x With Zeus. I. Gialas; See Report of the Structure Function Working Group; Proceedings of the international Workshop On Deep inelastic Scattering and Related Subjects, February 8, 1994, Eilat, Israel, Edited By A. Levy, P.335.
 - 8) Target Proton Properties in Deep inelastic Scattering at Hera, I. Gialas Kαι J. Hartmann; Proceedings of the Workshop 1995/1996 «Future Physics at Hera», Edited By G. Ingelman, A. De Roeck, R. Klanner, Volume 1, P. 602.

- 9) The Structure of the Proton, Results From Hera, I. Gialas; Jhep Electronic Proceedings From the Corfu Summer institute, (Http://Jhep.Sissa.It) [10.22323/1.001.0021](https://doi.org/10.22323/1.001.0021). PoS corfu98 (1998) 021. September 1998
- 10) Status of NESTOR, a Deep Sea Neutrino Telescope in the Mediterranean, By E.G. Anassontzis et al.. [10.1016/S0920-5632\(98\)00047-4](https://doi.org/10.1016/S0920-5632(98)00047-4). Nucl.Phys.Proc.Suppl. 66 (1998) 247-251.
- 11) Leading Baryon Production in Zeus, I. Gialas, 7th international Workshop On Deep inelastic Scattering and QCD, April 1999, Zeuthen, [10.1016/S0920-5632\(99\)00712-4](https://doi.org/10.1016/S0920-5632(99)00712-4). Nucl.Phys.Proc.Suppl. 79 (1999) 324-326.
- 12) LEADING BARYON PRODUCTION AT HERA, CIPANP 2003, I. Gialas, May 19-24 2003, New York. <http://www.cipanp2003.bnl.gov/> [10.1063/1.1664207](https://doi.org/10.1063/1.1664207), AIP Conf.Proc. 698 (2004) no.1,115-118.
- 13) Electrical Breakdown in PET films under high intensity AC fields, C. Theodosiou, I. Gialas, Proceedings of BPU-5: Fifth General Conference of the Balkan Physical Union, August 25-29, 2003, Vrnjačka Banja, Serbia and Montenegro p 1589-1594. <http://www.phy.bg.ac.yu/jdf/bpu5/proceedings/Papers/SO15%20-%20010.pdf>
- 14) Searches for new Physics at HERA, I. Gkialas, CIPANP2006, May 30 – June 3 2006, Puerto Rico, AIP Conf. Proc. 870, pp. 253-257; doi:<http://dx.doi.org/10.1063/1.2402630>,
- 15) Detection of Cosmic Rays Air Showers Using Radio Antenna Arrays and Scintillation Counters [K. Papageorgiou \(Aegean U., Chios\)](#), [S. Tzamarias](#), [I. Gkialas](#), [A. Tsirigotis](#), [G. Bourlis](#), [I. Manthos](#), [G. Avgitas \(Hellenic Open U., Patras\)](#). 2014, DOI: [10.1142/9789814603164_0016](https://doi.org/10.1142/9789814603164_0016) Conference: [C13-09-23.3](#), p.97-101
- 16) The Hellenic Open University Cosmic Ray Telescope: Research and Educational Activities A. Leisos, T. Avgitas, G. Bourlis, G.K. Fanourakis, I. Gkialas, I. Manthos, A. Stamelakis, A.G.Tsirigotis, and S.E. Tzamarias, ICNFP2017, Aug 17-29 2017. [The European Physical Journal Conferences](#) 182:02072 · January 2018 DOI: [10.1051/epjconf/201818202072](https://doi.org/10.1051/epjconf/201818202072)
- 17) [Studies for high energy air shower identification using RF measurements with the ASTRONEU array](#), Stavros Nonis, George Bourlis, Ioannis Gkialas, Antonios Leisos, Ioannis Manthos, Kostas Papageorgiou, Apostolos Tsirigotis and Spyros Tzamarias, EPJ Web of Conferences 210, 05010 (2019) <https://doi.org/10.1051/epjconf/201921005010>
- 18) Validation of the Production-Phase Level-1 Data Driver Cards for the Readout and Trigger System of the ATLAS New Small Wheel Detector, MOCAS 2020.

OTHER PROCEEDINGS

- 19) **Searching For Higgs $\rightarrow Z^0 Z^0 \rightarrow \mu^+ \mu^- \mu^+ \mu^-$ at the SSC**, R. Thun Et Al., Proceedings of Workshop On Experiments, Detectors, and Experimental Areas For the Supercollider, Berkeley, P.78, 1987; UM HE 86-32, November 1986.
- 20) **PHYSICS RESULTS FROM HERA AND FUTURE PLANS**, I. Gialas, Conference of the Greek Physical Society, Chios, November 1-4, 2001
- 21) **INSTANTON PRODUCTION AT HERA**, I. Gialas Workshop on RECENT DEVELOPMENTS IN HIGH ENERGY PHYSICS AND COSMOLOGY, National Technical University of Athens 17-20 April 2003, <http://www.inp.demokritos.gr/eesfye/proceedings.html>

JOURNALS

Non ZEUS and Non ATLAS publications

- 1) [The Performance of "Virtual Phase" CCDs as Detectors of Minimum Ionizing Particles](#), C. Akerlof Et Al., Nucl. inst. Meth. **A 260** (1987) 80.
- 2) **Energy Dependence of Spin Effects in $p\bar{p}$ (Polarized) $p\bar{p}$ (Polarized) $p\bar{p}$** By G.R. Court et al.. [10.1103/PhysRevLett.57.507](#). Phys.Rev.Lett. 57 (1986) 507.
- 3) **Measurement of Spin Effects in $P_{\square} + P_{\square} \square P + P$ at 18.5 GeV/C**, D.G. Crabb Et Al., [10.1103/PhysRevLett.60.2351](#). Physical Review Letters, **60** (1988) 2351.
- 4) **Acceleration of Polarized Protons to 22 GeV/c and the Measurement of Spin-Spin Effects in $P_{\square} + P_{\square} \square P + P$** , F.Z. Khiari Et Al., Physical Review **D 39** (1989) 45. [10.1103/PhysRevD.39.45](#).
- 5) **NESTOR experiment in 2003** By NESTOR Collaboration (V.A. Zhukov et al.). [10.1134/1.1825528](#). Phys.Atom.Nucl. 67 (2004) 2054-2057, Yad.Fiz. 67 (2004) 2075-2078.
- 6) **Design and Implementation of a High Precision Readout System for the Zeus Calorimeter.** A.C. Caldwell Et Al., Nucl. inst. Meth. **A 321** (1992) 356. [10.1016/0168-9002\(92\)90413-X](#).
- 7) **POLYMER FILMS DEGRADATION AND BREAKDOWN IN HIGH VOLTAGE AC FIELDS**,Theodosiou K, Vitellas I, Gialas I and Agoris D, J. Electr. Eng. Vol.55 09-10 (2004), p 225 – 231
- 8) **MECHANISM OF DEGRADATION AND BREAKDOWN IN PET FILMS UNDER HIGH INTENSITY AC FIELDS**, I. Vitellas, K. Theodosiou, I. Gialas and D.P. Agoris, European Physical Journal C30 (2005) 83-89
- 9) **THE ROLE OF INTERFACES IN THE DIELECTRIC STRENGTH OF POLYMERIC FILMS UNDER HIGH INTENSITY FIELDS** K. Theodosiou, I. Gialas, I. Vitellas, and D.P. Agoris, Eur. Phys. J. Appl. Phys. 32 (2005) 109-114.
- 10) **Expansion cone for the 3-inch PMTs of the KM3NeT optical modules By KM3NeT Collaboration** (S. Adrian-Martinez et al.). [10.1088/1748-0221/8/03/T03006](#), JINST 8 (2013) T03006.
- 11) **Detection Potential of the KM3NeT Detector for High-Energy Neutrinos from the Fermi Bubbles**, By KM3NeT Collaboration (S. Adrian-Martinez et al.). arXiv:1208.1226 [astro-ph.HE]. [10.1016/j.astropartphys.2012.11.010](#). Astropart.Phys. 42 (2013) 7-14.
- 12) **The Astroneu Extensive Air Shower array** By T. Avgitas, G. Bourlis, G.K. Fanourakis, I. Gkialas, A. Leisos, I. Manthos, A.G. Tsirigotis, S.E. Tzamarias. [10.1088/1748-0221/15/03/T03003](#). JINST 15 (2020) no.03, T03003.
- 13) **Hybrid Detection of High Energy Showers in Urban Environments**, Antonios Leisos, Stavros Nonis, Apostolos Tsirigotis, George Bourlis, Kostas Papageorgiou, Ioannis Gkialas, Ioannis Manthos, Spyros Tzamarias.[10.3390/universe5010003](#). Universe 5 (2018) no.1, 3.

- 14) **Operation and performance of a pilot HELYCON cosmic ray telescope with 3 stations** By T. Avgitas et al.. arXiv:1801.04768 [physics.ins-det].
- 15) **Cosmic Ray RF detection with the ASTRONEU array** By Ioannis Manthos, Ioannis Gkialas, George Bourlis, Antonios Leisos, Antonios Papaikonomou, Apostolos G. Tsirigotis, Spyros E. Tzamarias. arXiv:1702.05794 [physics.ins-det].
- 16) **Deployment and calibration procedures for accurate timing and directional reconstruction of EAS particle-fronts with HELYCON stations**, By Theodore Avgitas, G. Bourlis, G.K. Fanourakis, I. Gkialas, A. Leisos, I. Manthos, A. Tsirigotis, Spyros E. Tzamarias. arXiv:1702.04902 [physics.ins-det].

TECHNICAL REPORTS – PhD THESIS (not published)

- 1) **Spin Effects in High- $P(T)^2$ $p+p \rightarrow p+p$ at 800 to 900 GeV**, G.R. Court et al., [10.2172/1000261](#).

- 2) **NESTOR: A Deep sea neutrino telescope for the Mediterranean**, By NESTOR Collaboration (E.G. Anassontzis et al.).
- 3) **The NESTOR project**, By E.G. Anassontzis et al..
- 4) **NESTOR neutrino telescope status report**, By NESTOR Collaboration (P.K.F. Grieder et al.).
- 5) **KM3NeT: Technical Design Report for a Deep-Sea Research Infrastructure in the Mediterranean Sea Incorporating a Very Large Volume Neutrino Telescope** By KM3NeT Collaboration (P. Bagley et al.).

ZEUS EXPERIMENT PUBLICATIONS

- 1) Measurement of charm fragmentation fractions in photoproduction at HERA
By ZEUS Collaboration (H. Abramowicz et al.).
arXiv:1306.4862 [hep-ex].
[10.1007/JHEP09\(2013\)058](https://arxiv.org/abs/10.1007/JHEP09(2013)058).
JHEP 1309 (2013) 058.
- 2) Measurement of D^{\pm} production in deep inelastic scattering at HERA
By ZEUS Collaboration (H. Abramowicz et al.).
arXiv:1303.6578 [hep-ex].
[10.1007/JHEP02\(2014\)106](https://arxiv.org/abs/10.1007/JHEP02(2014)106), [10.1007/JHEP05\(2013\)097](https://arxiv.org/abs/10.1007/JHEP05(2013)097).
JHEP 1305 (2013) 097, Erratum: JHEP 1402 (2014) 106.
- 3) Measurement of inelastic J/ψ and ψ^{\prime} photoproduction at HERA
By ZEUS Collaboration (H. Abramowicz et al.).
arXiv:1211.6946 [hep-ex].
[10.1007/JHEP02\(2013\)071](https://arxiv.org/abs/10.1007/JHEP02(2013)071).
JHEP 1302 (2013) 071.
- 4) Production of Z^0 bosons in elastic and quasi-elastic ep collisions at HERA
By ZEUS Collaboration (H. Abramowicz et al.).
arXiv:1210.5511 [hep-ex].
[10.1016/j.physletb.2012.11.051](https://arxiv.org/abs/10.1016/j.physletb.2012.11.051).
Phys.Lett. B718 (2013) 915-921.
- 5) Combination and QCD Analysis of Charm Production Cross Section Measurements in Deep-Inelastic ep Scattering at HERA
By H1 and ZEUS Collaborations (H. Abramowicz et al.).
arXiv:1211.1182 [hep-ex].
[10.1140/epjc/s10052-013-2311-3](https://arxiv.org/abs/10.1140/epjc/s10052-013-2311-3).
Eur.Phys.J. C73 (2013) no.2, 2311.
- 6) Measurement of high- Q^2 neutral current deep inelastic e^+p scattering cross sections with a longitudinally polarized positron beam at HERA
By ZEUS Collaboration (H. Abramowicz et al.).

arXiv:1208.6138 [hep-ex].

[10.1103/PhysRevD.87.052014](https://doi.org/10.1103/PhysRevD.87.052014).

Phys.Rev. D87 (2013) no.5, 052014.

7) Production of the excited charm mesons D_1 and D_1^* at HERA

By ZEUS Collaboration (H. Abramowicz et al.).

arXiv:1208.4468 [hep-ex].

[10.1016/j.nuclphysb.2012.09.007](https://doi.org/10.1016/j.nuclphysb.2012.09.007).

Nucl.Phys. B866 (2013) 229-254.

8) Combined inclusive diffractive cross sections measured with forward proton spectrometers in deep inelastic scattering at HERA

By H1 and ZEUS Collaborations (F.D. Aaron et al.).

arXiv:1207.4864 [hep-ex].

[10.1140/epjc/s10052-012-2175-y](https://doi.org/10.1140/epjc/s10052-012-2175-y).

Eur.Phys.J. C72 (2012) 2175.

9) Measurement of isolated photons accompanied by jets in deep inelastic scattering

By ZEUS Collaboration (H. Abramowicz et al.).

arXiv:1206.2270 [hep-ex].

[10.1016/j.physletb.2012.07.031](https://doi.org/10.1016/j.physletb.2012.07.031).

Phys.Lett. B715 (2012) 88-97.

10) Inclusive-jet photoproduction at HERA and determination of alphas

By ZEUS Collaboration (H. Abramowicz et al.).

arXiv:1205.6153 [hep-ex].

[10.1016/j.nuclphysb.2012.06.006](https://doi.org/10.1016/j.nuclphysb.2012.06.006).

Nucl.Phys. B864 (2012) 1-37.

11) Search for first-generation leptoquarks at HERA

By ZEUS Collaboration (H. Abramowicz et al.).

arXiv:1205.5179 [hep-ex].

[10.1103/PhysRevD.86.012005](https://doi.org/10.1103/PhysRevD.86.012005).

Phys.Rev. D86 (2012) 012005.

12) Exclusive electroproduction of two pions at HERA

By ZEUS Collaboration (H. Abramowicz et al.).

arXiv:1111.4905 [hep-ex].

[10.1140/epjc/s10052-012-1869-5](https://doi.org/10.1140/epjc/s10052-012-1869-5).

Eur.Phys.J. C72 (2012) 1869.

13) Search for single-top production in collisions at HERA

By ZEUS Collaboration (H. Abramowicz et al.).

arXiv:1111.3901 [hep-ex].

[10.1016/j.physletb.2012.01.025](https://doi.org/10.1016/j.physletb.2012.01.025).

Phys.Lett. B708 (2012) 27-36.

14) Scaled momentum distributions for K^0_S and $\bar{\Lambda}$ in DIS at HERA

By ZEUS Collaboration (H. Abramowicz et al.).

arXiv:1111.3526 [hep-ex].

[10.1007/JHEP03\(2012\)020](https://doi.org/10.1007/JHEP03(2012)020).

JHEP 1203 (2012) 020.

15) Measurement of the t dependence in exclusive photoproduction of $\Upsilon(1S)$ mesons at HERA

By ZEUS Collaboration (H. Abramowicz et al.).

arXiv:1111.2133 [hep-ex].

[10.1016/j.physletb.2012.01.009](https://doi.org/10.1016/j.physletb.2012.01.009).

Phys.Lett. B708 (2012) 14-20.

16) Measurement of heavy-quark jet photoproduction at HERA

By ZEUS Collaboration (H. Abramowicz et al.).

arXiv:1104.5444 [hep-ex].

[10.1140/epjc/s10052-011-1659-5](https://doi.org/10.1140/epjc/s10052-011-1659-5).

Eur.Phys.J. C71 (2011) 1659.

17) Measurement of beauty production in deep inelastic scattering at HERA using decays into electrons

By ZEUS Collaboration (H. Abramowicz et al.).

arXiv:1101.3692 [hep-ex].

[10.1140/epjc/s10052-011-1573-x](https://doi.org/10.1140/epjc/s10052-011-1573-x).

Eur.Phys.J. C71 (2011) 1573.

18) Study of tau-pair production at HERA

By ZEUS Collaboration (Aharon Levy et al.).

arXiv:1101.1390 [hep-ex].

[10.1007/JHEP02\(2011\)117](https://doi.org/10.1007/JHEP02(2011)117).

JHEP 1102 (2011) 117.

19) Measurement of the energy dependence of the total photon-proton cross section at HERA

By ZEUS Collaboration (H. Abramowicz et al.).

arXiv:1011.1652 [hep-ex].

[10.1016/j.physletb.2011.01.051](https://doi.org/10.1016/j.physletb.2011.01.051).

Phys.Lett. B697 (2011) 184-193.

20) Inclusive dijet cross sections in neutral current deep inelastic scattering at HERA

By ZEUS Collaboration (H. Abramowicz et al.).

arXiv:1010.6167 [hep-ex].

[10.1140/epjc/s10052-010-1504-2](https://doi.org/10.1140/epjc/s10052-010-1504-2).

Eur.Phys.J. C70 (2010) 965-982.

21) Measurement of high- Q^2 charged current deep inelastic scattering cross sections with a longitudinally polarised positron beam at HERA

By ZEUS Collaboration (H. Abramowicz et al.).

arXiv:1008.3493 [hep-ex].

[10.1140/epjc/s10052-010-1498-9](https://doi.org/10.1140/epjc/s10052-010-1498-9).

Eur.Phys.J. C70 (2010) 945-963.

22) Measurement of D^+ and Λ_c^+ production in deep inelastic scattering at HERA

By ZEUS Collaboration (H. Abramowicz et al.).

arXiv:1007.1945 [hep-ex].
[10.1007/JHEP11\(2010\)009](https://arxiv.org/abs/10.1007/JHEP11(2010)009).
JHEP 1011 (2010) 009.

23) Measurement of beauty production in DIS and $F_2^{\bar{b}}$ extraction at ZEUS
By ZEUS Collaboration (H. Abramowicz et al.).
arXiv:1005.3396 [hep-ex].
[10.1140/epjc/s10052-010-1423-2](https://arxiv.org/abs/10.1140/epjc/s10052-010-1423-2).
Eur.Phys.J. C69 (2010) 347-360.

24) Inclusive-jet cross sections in NC DIS at HERA and a comparison of the kT, anti-kT and SIScone jet algorithms
By ZEUS Collaboration (H. Abramowicz et al.).
arXiv:1003.2923 [hep-ex].
[10.1016/j.physletb.2010.06.015](https://arxiv.org/abs/10.1016/j.physletb.2010.06.015).
Phys.Lett. B691 (2010) 127-137.

25) Scaled momentum spectra in deep inelastic scattering at HERA
By ZEUS Collaboration (H. Abramowicz et al.).
arXiv:1001.4026 [hep-ex].
[10.1007/JHEP06\(2010\)009](https://arxiv.org/abs/10.1007/JHEP06(2010)009), [10.1007/JHEP10\(2010\)030](https://arxiv.org/abs/10.1007/JHEP10(2010)030).
JHEP 1006 (2010) 009, Erratum: JHEP 1010 (2010) 030.

26) A QCD analysis of ZEUS diffractive data
By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0911.4119 [hep-ex].
[10.1016/j.nuclphysb.2010.01.014](https://arxiv.org/abs/10.1016/j.nuclphysb.2010.01.014).
Nucl.Phys. B831 (2010) 1-25.

27) Events with an Isolated Lepton and Missing Transverse Momentum and Measurement of W Production at HERA
By H1 and ZEUS Collaborations (F.D. Aaron et al.).
arXiv:0911.0858 [hep-ex].
[10.1007/JHEP03\(2010\)035](https://arxiv.org/abs/10.1007/JHEP03(2010)035).
JHEP 1003 (2010) 035.

28) Combined Measurement and QCD Analysis of the Inclusive e^+p Scattering Cross Sections at HERA
By H1 and ZEUS Collaborations (F.D. Aaron et al.).
arXiv:0911.0884 [hep-ex].
[10.1007/JHEP01\(2010\)109](https://arxiv.org/abs/10.1007/JHEP01(2010)109).
JHEP 1001 (2010) 109.

29) Measurement of isolated photon production in deep inelastic ep scattering
By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0909.4223 [hep-ex].
[10.1016/j.physletb.2010.02.045](https://arxiv.org/abs/10.1016/j.physletb.2010.02.045).
Phys.Lett. B687 (2010) 16-25.

30) Measurement of dijet photoproduction for events with a leading neutron at HERA
By ZEUS Collaboration (S. Chekanov et al.).

arXiv:0909.3032 [hep-ex].
[10.1016/j.nuclphysb.2009.10.002](https://doi.org/10.1016/j.nuclphysb.2009.10.002).
Nucl.Phys. B827 (2010) 1-33.

31) Measurement of J/psi photoproduction at large momentum transfer at HERA
By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0910.1235 [hep-ex].
[10.1007/JHEP05\(2010\)085](https://doi.org/10.1007/JHEP05(2010)085).
JHEP 1005 (2010) 085.

32) Multi-Leptons with High Transverse Momentum at HERA
By H1 and ZEUS Collaborations (F.D. Aaron et al.).
arXiv:0907.3627 [hep-ex].
[10.1088/1126-6708/2009/10/013](https://doi.org/10.1088/1126-6708/2009/10/013).
JHEP 0910 (2009) 013.

33) Multi-lepton production at high transverse momentum at HERA
By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0906.1504 [hep-ex].
[10.1016/j.physletb.2009.08.026](https://doi.org/10.1016/j.physletb.2009.08.026).
Phys.Lett. B680 (2009) 13-23.

34) Scaled momentum distributions of charged particles in dijet photoproduction at HERA
By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0904.3466 [hep-ex].
[10.1088/1126-6708/2009/08/077](https://doi.org/10.1088/1126-6708/2009/08/077).
JHEP 0908 (2009) 077.

35) Measurement of the Longitudinal Proton Structure Function at HERA
By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0904.1092 [hep-ex].
[10.1016/j.physletb.2009.10.050](https://doi.org/10.1016/j.physletb.2009.10.050).
Phys.Lett. B682 (2009) 8-22.

36) Measurement of high- Q^2 neutral current deep inelastic e- p scattering cross sections
with a longitudinally polarised electron beam at HERA
By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0901.2385 [hep-ex].
[10.1140/epjc/s10052-009-1055-6](https://doi.org/10.1140/epjc/s10052-009-1055-6).
Eur.Phys.J. C62 (2009) 625-658.

37) Exclusive photoproduction of upsilon mesons at HERA
By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0903.4205 [hep-ex].
[10.1016/j.physletb.2009.07.066](https://doi.org/10.1016/j.physletb.2009.07.066).
Phys.Lett. B680 (2009) 4-12.

38) Measurement of charged current deep inelastic scattering cross sections with a
longitudinally polarised electron beam at HERA
By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0812.4620 [hep-ex].

[10.1140/epjc/s10052-009-1015-1](https://doi.org/10.1140/epjc/s10052-009-1015-1).
Eur.Phys.J. C61 (2009) 223-235.

39) Measurement of D⁺- and D⁰ production in deep inelastic scattering using a lifetime tag at HERA

By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0812.3775 [hep-ex].

[10.1140/epjc/s10052-009-1088-x](https://doi.org/10.1140/epjc/s10052-009-1088-x).
Eur.Phys.J. C63 (2009) 171-188.

40) Subject distributions in deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0812.2864 [hep-ex].

[10.1140/epjc/s10052-009-1090-3](https://doi.org/10.1140/epjc/s10052-009-1090-3).
Eur.Phys.J. C63 (2009) 527-548.

41) A Measurement of the Q², W and t dependences of deeply virtual Compton scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0812.2517 [hep-ex].

[10.1088/1126-6708/2009/05/108](https://doi.org/10.1088/1126-6708/2009/05/108).
JHEP 0905 (2009) 108.

42) Leading proton production in deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0812.2416 [hep-ex].

[10.1088/1126-6708/2009/06/074](https://doi.org/10.1088/1126-6708/2009/06/074).
JHEP 0906 (2009) 074.

43) Deep inelastic scattering with leading protons or large rapidity gaps at HERA

By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0812.2003 [hep-ex].

[10.1016/j.nuclphysb.2009.03.003](https://doi.org/10.1016/j.nuclphysb.2009.03.003).
Nucl.Phys. B816 (2009) 1-61.

44) Measurement of beauty photoproduction using decays into muons in dijet events at HERA

By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0901.2226 [hep-ex].

[10.1088/1126-6708/2009/04/133](https://doi.org/10.1088/1126-6708/2009/04/133).
JHEP 0904 (2009) 133.

45) Measurement of the charm fragmentation function in D^{*} photoproduction at HERA

By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0901.1210 [hep-ex].

[10.1088/1126-6708/2009/04/082](https://doi.org/10.1088/1126-6708/2009/04/082).
JHEP 0904 (2009) 082.

46) Measurement of beauty production from dimuon events at HERA

By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0811.0894 [hep-ex].

[10.1088/1126-6708/2009/02/032.](https://arxiv.org/abs/0807.1290)

JHEP 0902 (2009) 032.

47) Production of excited charm and charm-strange mesons at HERA

By ZEUS Collaboration (S. Chekanov et al.).

arXiv:0807.1290 [hep-ex].

[10.1140/epjc/s10052-009-0881-x.](https://arxiv.org/abs/0807.1290)

Eur.Phys.J. C60 (2009) 25-45.

48) Search for events with an isolated lepton and missing transverse momentum and a measurement of W production at HERA

By ZEUS Collaboration (S. Chekanov et al.).

arXiv:0807.0589 [hep-ex].

[10.1016/j.physletb.2009.01.014.](https://arxiv.org/abs/0807.0589)

Phys.Lett. B672 (2009) 106-115.

49) Angular correlations in three-jet events in ep collisions at HERA

By ZEUS Collaboration (S. Chekanov et al.).

arXiv:0808.3783 [hep-ex].

[10.1103/PhysRevD.85.052008.](https://arxiv.org/abs/0808.3783)

Phys.Rev. D85 (2012) 052008.

50) Inclusive $K_0(S)K_0(S)$ resonance production in ep collisions at HERA

By ZEUS Collaboration (S. Chekanov et al.).

arXiv:0806.0807 [hep-ex].

[10.1103/PhysRevLett.101.112003.](https://arxiv.org/abs/0806.0807)

Phys.Rev.Lett. 101 (2008) 112003.

51) Beauty photoproduction using decays into electrons at HERA

By ZEUS Collaboration (S. Chekanov et al.).

arXiv:0805.4390 [hep-ex].

[10.1103/PhysRevD.78.072001.](https://arxiv.org/abs/0805.4390)

Phys.Rev. D78 (2008) 072001.

52) Energy dependence of the charged multiplicity in deep inelastic scattering at HERA

By ZEUS Collaboration (Sergei Chekanov et al.).

arXiv:0803.3878 [hep-ex].

[10.1088/1126-6708/2008/06/061.](https://arxiv.org/abs/0803.3878)

JHEP 0806 (2008) 061.

53) Multi-jet cross-sections in charged current e^+p scattering at HERA

By ZEUS Collaboration (Sergei Chekanov et al.).

arXiv:0802.3955 [hep-ex].

[10.1103/PhysRevD.78.032004.](https://arxiv.org/abs/0802.3955)

Phys.Rev. D78 (2008) 032004.

54) Deep inelastic inclusive and diffractive scattering at Q^2 values from 25 to 320 GeV^2 with the ZEUS forward plug calorimeter

By ZEUS Collaboration (S. Chekanov et al.).

arXiv:0802.3017 [hep-ex].

[10.1016/j.nuclphysb.2008.04.005.](https://arxiv.org/abs/0802.3017)

Nucl.Phys. B800 (2008) 1-76.

55) Diffractive photoproduction of dijets in ep collisions at HERA

By ZEUS Collaboration (Sergei Chekanov et al.).

arXiv:0710.1498 [hep-ex].

[10.1140/epjc/s10052-008-0598-2](https://doi.org/10.1140/epjc/s10052-008-0598-2).

Eur.Phys.J. C55 (2008) 177-191.

56) Exclusive ρ^0 production in deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

arXiv:0708.1478 [hep-ex].

[10.1186/1754-0410-1-6](https://doi.org/10.1186/1754-0410-1-6).

PMC Phys. A1 (2007) 6.

57) Three- and four-jet final states in photoproduction at HERA

By ZEUS Collaboration (S. Chekanov et al.).

arXiv:0707.3749 [hep-ex].

[10.1016/j.nuclphysb.2007.08.021](https://doi.org/10.1016/j.nuclphysb.2007.08.021).

Nucl.Phys. B792 (2008) 1-47.

58) Forward-jet production in deep inelastic ep scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

arXiv:0707.3093 [hep-ex].

[10.1140/epjc/s10052-007-0418-0](https://doi.org/10.1140/epjc/s10052-007-0418-0).

Eur.Phys.J. C52 (2007) 515-530.

59) High-E(T) dijet photoproduction at HERA

By ZEUS Collaboration (S. Chekanov et al.).

arXiv:0706.3809 [hep-ex].

[10.1103/PhysRevD.76.072011](https://doi.org/10.1103/PhysRevD.76.072011).

Phys.Rev. D76 (2007) 072011.

60) Bose-Einstein Correlations of Charged and Neutral Kaons in Deep Inelastic Scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

arXiv:0706.2538 [hep-ex].

[10.1016/j.physletb.2007.06.052](https://doi.org/10.1016/j.physletb.2007.06.052).

Phys.Lett. B652 (2007) 1-12.

61) Measurement of (anti)deuteron and (anti)proton production in DIS at HERA

By ZEUS Collaboration (S. Chekanov et al.).

arXiv:0705.3770 [hep-ex].

[10.1016/j.nuclphysb.2007.06.022](https://doi.org/10.1016/j.nuclphysb.2007.06.022).

Nucl.Phys. B786 (2007) 181-205.

62) Multijet production at low $x(B_j)$ in deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

arXiv:0705.1931 [hep-ex].

[10.1016/j.nuclphysb.2007.05.027](https://doi.org/10.1016/j.nuclphysb.2007.05.027).

Nucl.Phys. B786 (2007) 152-180.

- 63) Measurement of D mesons production in deep inelastic scattering at HERA
By ZEUS Collaboration (S. Chekanov et al.).
arXiv:0704.3562 [hep-ex].
[10.1088/1126-6708/2007/07/074](https://doi.org/10.1088/1126-6708/2007/07/074).
JHEP 0707 (2007) 074.
- 64) Diffractive photoproduction of D^{*+} (2010) at HERA
By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0703046.
[10.1140/epjc/s10052-007-0326-3](https://doi.org/10.1140/epjc/s10052-007-0326-3).
Eur.Phys.J. C51 (2007) 301-315.
- 65) Measurement of D^{*+} meson production in e^+p scattering at low Q^{*2}
By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0702034.
[10.1016/j.physletb.2007.04.003](https://doi.org/10.1016/j.physletb.2007.04.003).
Phys.Lett. B649 (2007) 111-121.
- 66) Leading neutron energy and p_T distributions in deep inelastic scattering and photoproduction at HERA
By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0702028.
[10.1016/j.nuclphysb.2007.03.045](https://doi.org/10.1016/j.nuclphysb.2007.03.045).
Nucl.Phys. B776 (2007) 1-37.
- 67) Measurement of K^0_S , Λ , $\bar{\Lambda}$ production at HERA
By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0612023.
[10.1140/epjc/s10052-007-0299-2](https://doi.org/10.1140/epjc/s10052-007-0299-2).
Eur.Phys.J. C51 (2007) 1-23.
- 68) Photoproduction of events with rapidity gaps between jets at HERA
By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0612008.
[10.1140/epjc/s10052-007-0241-7](https://doi.org/10.1140/epjc/s10052-007-0241-7).
Eur.Phys.J. C50 (2007) 283-297.
- 69) Jet-radius dependence of inclusive-jet cross-sections in deep inelastic scattering at HERA
By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0701039.
[10.1016/j.physletb.2007.03.039](https://doi.org/10.1016/j.physletb.2007.03.039).
Phys.Lett. B649 (2007) 12-24.
- 70) Search for stop production in R-parity-violating supersymmetry at HERA
By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0611018.
[10.1140/epjc/s10052-007-0240-8](https://doi.org/10.1140/epjc/s10052-007-0240-8).
Eur.Phys.J. C50 (2007) 269-281.
- 71) Measurement of open beauty production at HERA in the D^{*+} muon final state
By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0609050.

[10.1140/epjc/s10052-007-0257-z](https://doi.org/10.1140/epjc/s10052-007-0257-z).

Eur.Phys.J. C50 (2007) 299-314.

72) Measurement of azimuthal asymmetries in neutral current deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0608053.

[10.1140/epjc/s10052-007-0310-y](https://doi.org/10.1140/epjc/s10052-007-0310-y).

Eur.Phys.J. C51 (2007) 289-299.

73) Inclusive-jet and dijet cross-sections in deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0608048.

[10.1016/j.nuclphysb.2006.09.018](https://doi.org/10.1016/j.nuclphysb.2006.09.018).

Nucl.Phys. B765 (2007) 1-30.

74) Measurement of prompt photons with associated jets in photoproduction at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0608028.

[10.1140/epjc/s10052-006-0134-1](https://doi.org/10.1140/epjc/s10052-006-0134-1).

Eur.Phys.J. C49 (2007) 511-522.

75) Measurement of neutral current cross sections at high Bjorken-x with the ZEUS detector at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0608014.

[10.1140/epjc/s10052-006-0164-8](https://doi.org/10.1140/epjc/s10052-006-0164-8).

Eur.Phys.J. C49 (2007) 523-544.

76) Event shapes in deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0604032.

[10.1016/j.nuclphysb.2006.05.016](https://doi.org/10.1016/j.nuclphysb.2006.05.016).

Nucl.Phys. B767 (2007) 1-28.

77) Measurement of high- Q^2 deep inelastic scattering cross sections with a longitudinally polarised positron beam at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0602026.

[10.1016/j.physletb.2006.04.047](https://doi.org/10.1016/j.physletb.2006.04.047).

Phys.Lett. B637 (2006) 210-222.

78) Measurement of charm fragmentation ratios and fractions in photoproduction at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0508019.

[10.1140/epjc/s2005-02397-3](https://doi.org/10.1140/epjc/s2005-02397-3).

Eur.Phys.J. C44 (2005) 351-366.

79) Inclusive jet cross sections and dijet correlations in D^{*+} photoproduction at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0507089.

[10.1016/j.nuclphysb.2005.09.021](https://doi.org/10.1016/j.nuclphysb.2005.09.021).

Nucl.Phys. B729 (2005) 492-525.

80) Measurement of inelastic J/ψ production in deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0505008.

[10.1140/epjc/s2005-02346-2](https://doi.org/10.1140/epjc/s2005-02346-2).

Eur.Phys.J. C44 (2005) 13-25.

81) Exclusive electroproduction of phi mesons at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0504010.

[10.1016/j.nuclphysb.2005.04.009](https://doi.org/10.1016/j.nuclphysb.2005.04.009).

Nucl.Phys. B718 (2005) 3-31.

82) An NLO QCD analysis of inclusive cross-section and jet-production data from the zeus experiment

By ZEUS Collaboration (S. Chekanov et al.).

hep-ph/0503274.

[10.1140/epjc/s2005-02293-x](https://doi.org/10.1140/epjc/s2005-02293-x).

Eur.Phys.J. C42 (2005) 1-16.

83) Multijet production in neutral current deep inelastic scattering at HERA and determination of $\alpha(s)$

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0502007.

[10.1140/epjc/s2005-02347-1](https://doi.org/10.1140/epjc/s2005-02347-1).

Eur.Phys.J. C44 (2005) 183-193.

84) Search for lepton-flavor violation at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0501070.

[10.1140/epjc/s2005-02399-1](https://doi.org/10.1140/epjc/s2005-02399-1).

Eur.Phys.J. C44 (2005) 463-479.

85) Search for pentaquarks decaying to $\Xi\pi$ in deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0501069.

[10.1016/j.physletb.2005.02.016](https://doi.org/10.1016/j.physletb.2005.02.016).

Phys.Lett. B610 (2005) 212-224.

86) Study of deep inelastic inclusive and diffractive scattering with the ZEUS forward plug calorimeter

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0501060.

[10.1016/j.nuclphysb.2005.02.001](https://doi.org/10.1016/j.nuclphysb.2005.02.001).

Nucl.Phys. B713 (2005) 3-80.

87) Forward jet production in deep inelastic ep scattering and low-x parton dynamics at HERA

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0502029.
[10.1016/j.physletb.2005.09.066](https://doi.org/10.1016/j.physletb.2005.09.066).
Phys.Lett. B632 (2006) 13-26.

88) Search for a narrow charmed baryonic state decaying to $D^{*+} p$ in ep collisions at HERA

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0409033.
[10.1140/epjc/s2004-02042-9](https://doi.org/10.1140/epjc/s2004-02042-9).
Eur.Phys.J. C38 (2004) 29-41.

89) Dissociation of virtual photons in events with a leading proton at HERA

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0408009.
[10.1140/epjc/s2004-02047-4](https://doi.org/10.1140/epjc/s2004-02047-4).
Eur.Phys.J. C38 (2004) 43-67.

90) Measurement of beauty production in deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0405069.
[10.1016/j.physletb.2004.08.048](https://doi.org/10.1016/j.physletb.2004.08.048).
Phys.Lett. B599 (2004) 173-189.

91) Substructure dependence of jet cross sections at HERA and determination of $\alpha(s)$

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0405065.
[10.1016/j.nuclphysb.2004.08.049](https://doi.org/10.1016/j.nuclphysb.2004.08.049).
Nucl.Phys. B700 (2004) 3-50.

92) Evidence for a narrow baryonic state decaying to $K^0(S) p$ and $K^0(S) \text{ anti-p}$ in deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0403051.
[10.1016/j.physletb.2004.04.024](https://doi.org/10.1016/j.physletb.2004.04.024).
Phys.Lett. B591 (2004) 7-22.

93) The Dependence of dijet production on photon virtuality in ep collisions at HERA

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0404033.
[10.1140/epjc/s2004-01885-2](https://doi.org/10.1140/epjc/s2004-01885-2).
Eur.Phys.J. C35 (2004) 487-500.

94) Exclusive electroproduction of J/ψ mesons at HERA

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0404008.
[10.1016/j.nuclphysb.2004.06.034](https://doi.org/10.1016/j.nuclphysb.2004.06.034).
Nucl.Phys. B695 (2004) 3-37.

95) Study of the pion trajectory in the photoproduction of leading neutrons at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0404002.

[10.1016/j.physletb.2005.01.101](https://doi.org/10.1016/j.physletb.2005.01.101).

Phys.Lett. B610 (2005) 199-211.

96) Observation of isolated high E(T) photons in deep inelastic scattering

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0402019.

[10.1016/j.physletb.2004.05.033](https://doi.org/10.1016/j.physletb.2004.05.033).

Phys.Lett. B595 (2004) 86-100.

97) Photoproduction of D^{*+} - mesons associated with a leading neutron

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0401017.

[10.1016/j.physletb.2004.03.076](https://doi.org/10.1016/j.physletb.2004.03.076).

Phys.Lett. B590 (2004) 143-160.

98) Beauty photoproduction measured using decays into muons in dijet events in e p collisions at $s^{*1/2} = 318$ -GeV

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0312057.

[10.1103/PhysRevD.74.059906](https://doi.org/10.1103/PhysRevD.74.059906), [10.1103/PhysRevD.70.012008](https://doi.org/10.1103/PhysRevD.70.012008).

Phys.Rev. D70 (2004) 012008, Erratum: Phys.Rev. D74 (2006) 059906.

99) Search for QCD instanton induced events in deep inelastic ep scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0312048.

[10.1140/epjc/s2004-01735-3](https://doi.org/10.1140/epjc/s2004-01735-3).

Eur.Phys.J. C34 (2004) 255-265.

100) Search for contact interactions, large extra dimensions and finite quark radius in e p collisions at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0401009.

[10.1016/j.physletb.2004.03.081](https://doi.org/10.1016/j.physletb.2004.03.081).

Phys.Lett. B591 (2004) 23-41.

101) High Q^{*2} neutral current cross-sections in $e^+ p$ deep inelastic scattering at $s^{*1/2} = 318$ -GeV

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0401003.

[10.1103/PhysRevD.70.052001](https://doi.org/10.1103/PhysRevD.70.052001).

Phys.Rev. D70 (2004) 052001.

102) Isolated tau leptons in events with large missing transverse momentum at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0311028.

[10.1016/j.physletb.2003.12.054](https://doi.org/10.1016/j.physletb.2003.12.054).

Phys.Lett. B583 (2004) 41-58.

104) Bose-Einstein correlations in one and two-dimensions in deep inelastic scattering

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0311030.

[10.1016/j.physletb.2003.12.068](https://doi.org/10.1016/j.physletb.2003.12.068).
Phys.Lett. B583 (2004) 231-246.

105) Measurement of D^{*+-} production in deep inelastic e^+p scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0308068.

[10.1103/PhysRevD.69.012004](https://doi.org/10.1103/PhysRevD.69.012004).
Phys.Rev. D69 (2004) 012004.

106) Observation of $K_0^*(s)$ resonances in deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0308006.

[10.1016/j.physletb.2003.10.049](https://doi.org/10.1016/j.physletb.2003.10.049).
Phys.Lett. B578 (2004) 33-44.

107) Measurement of the open charm contribution to the diffractive proton structure function

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0307068.

[10.1016/j.nuclphysb.2003.09.001](https://doi.org/10.1016/j.nuclphysb.2003.09.001).
Nucl.Phys. B672 (2003) 3-35.

108) Measurement of high Q^2 charged current cross-sections in e^+p deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0307043.

[10.1140/epjc/s2003-01363-5](https://doi.org/10.1140/epjc/s2003-01363-5).
Eur.Phys.J. C32 (2003) no.1, 1-16.

109) Jet production in charged current deep inelastic e^+p scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0306018.

[10.1140/epjc/s2003-01358-2](https://doi.org/10.1140/epjc/s2003-01358-2).
Eur.Phys.J. C31 (2003) 149-164.

110) Measurement of deeply virtual Compton scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0305028.

[10.1016/j.physletb.2003.08.048](https://doi.org/10.1016/j.physletb.2003.08.048).
Phys.Lett. B573 (2003) 46-62.

111) A Search for resonance decays to lepton + jet at HERA and limits on leptoquarks

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0304008.

[10.1103/PhysRevD.68.052004](https://doi.org/10.1103/PhysRevD.68.052004).
Phys.Rev. D68 (2003) 052004.

112) Dijet angular distributions in photoproduction of charm at HERA

By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0302025.

[10.1016/S0370-2693\(03\)00752-4](https://doi.org/10.1016/S0370-2693(03)00752-4).

Phys.Lett. B565 (2003) 87-101.

113) Search for single top production in ep collisions at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0302010.

[10.1016/S0370-2693\(03\)00333-2](https://doi.org/10.1016/S0370-2693(03)00333-2).

Phys.Lett. B559 (2003) 153-170.

114) Scaling violations and determination of $\alpha(s)$ from jet production in gamma p interactions at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0212064.

[10.1016/S0370-2693\(03\)00380-0](https://doi.org/10.1016/S0370-2693(03)00380-0).

Phys.Lett. B560 (2003) 7-23.

115) Measurement of subjet multiplicities in neutral current deep inelastic scattering at HERA and determination of $\alpha(s)$

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0212030.

[10.1016/S0370-2693\(03\)00216-8](https://doi.org/10.1016/S0370-2693(03)00216-8).

Phys.Lett. B558 (2003) 41-58.

116) Measurement of event shapes in deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0211040.

[10.1140/epjc/s2003-01148-x](https://doi.org/10.1140/epjc/s2003-01148-x).

Eur.Phys.J. C27 (2003) 531-545.

117) Observation of the strange sea in the proton via inclusive phi meson production in neutral current deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0211025.

[10.1016/S0370-2693\(02\)03206-9](https://doi.org/10.1016/S0370-2693(02)03206-9).

Phys.Lett. B553 (2003) 141-158.

118) Study of the azimuthal asymmetry of jets in neutral current deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0210064.

[10.1016/S0370-2693\(02\)03072-1](https://doi.org/10.1016/S0370-2693(02)03072-1).

Phys.Lett. B551 (2003) 226-240.

119) Measurements of inelastic J/ψ and ψ' photoproduction at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0211011.

[10.1140/epjc/s2002-01130-2](https://doi.org/10.1140/epjc/s2002-01130-2).

Eur.Phys.J. C27 (2003) 173-188.

120) Leading proton production in e^+p collisions at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0210029.

[10.1016/S0550-3213\(03\)00152-4](https://doi.org/10.1016/S0550-3213(03)00152-4).

Nucl.Phys. B658 (2003) 3-46.

121) Measurement of high Q^2 e- p neutral current cross-sections at HERA and the extraction of $xF(3)$

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0208040.

[10.1140/epjc/s2003-01163-y](https://doi.org/10.1140/epjc/s2003-01163-y).

Eur.Phys.J. C28 (2003) 175-201.

122) Inclusive jet cross-sections in the Breit frame in neutral current deep inelastic scattering at HERA and determination of $\alpha(s)$

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0208037.

[10.1016/S0370-2693\(02\)02763-6](https://doi.org/10.1016/S0370-2693(02)02763-6).

Phys.Lett. B547 (2002) 164-180.

123) A ZEUS next-to-leading-order QCD analysis of data on deep inelastic scattering

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0208023.

[10.1103/PhysRevD.67.012007](https://doi.org/10.1103/PhysRevD.67.012007).

Phys.Rev. D67 (2003) 012007.

124) Measurement of diffractive production of D^{*+} mesons in deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0206020.

[10.1016/S0370-2693\(02\)02595-9](https://doi.org/10.1016/S0370-2693(02)02595-9).

Phys.Lett. B545 (2002) 244-260.

125) Measurement of high Q^2 charged current cross-sections in e^+p deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0205091.

[10.1016/S0370-2693\(02\)02093-2](https://doi.org/10.1016/S0370-2693(02)02093-2), [10.1016/S0370-2693\(02\)03097-6](https://doi.org/10.1016/S0370-2693(02)03097-6).

Phys.Lett. B539 (2002) 197-217, Erratum: Phys.Lett. B552 (2003) 308-308.

126) Measurement of proton dissociative diffractive photoproduction of vector mesons at large momentum transfer at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0205081.

[10.1140/epjc/s2002-01079-0](https://doi.org/10.1140/epjc/s2002-01079-0).

Eur.Phys.J. C26 (2003) 389-409.

127) Leading neutron production in e^+p collisions at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0205076.

[10.1016/S0550-3213\(02\)00439-X](https://doi.org/10.1016/S0550-3213(02)00439-X).

Nucl.Phys. B637 (2002) 3-56.

128) Measurement of the Q^2 and energy dependence of diffractive interactions at HERA
By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0203039.
[10.1007/s10052-002-1003-1](https://doi.org/10.1007/s10052-002-1003-1).
Eur.Phys.J. C25 (2002) 169-187.

129) Exclusive photoproduction of J/ψ mesons at HERA
By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0201043.
[10.1007/s10052-002-0953-7](https://doi.org/10.1007/s10052-002-0953-7).
Eur.Phys.J. C24 (2002) 345-360.

130) Search for lepton flavor violation in e^+p collisions at HERA
By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0201003.
[10.1103/PhysRevD.65.092004](https://doi.org/10.1103/PhysRevD.65.092004).
Phys.Rev. D65 (2002) 092004.

131) High mass dijet cross-sections in photoproduction at HERA
By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0112030.
[10.1016/S0370-2693\(02\)01327-8](https://doi.org/10.1016/S0370-2693(02)01327-8).
Phys.Lett. B531 (2002) 9-27.

132) Dijet photoproduction at HERA and the structure of the photon
By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0112029.
[10.1007/s100520200936](https://doi.org/10.1007/s100520200936).
Eur.Phys.J. C23 (2002) 615-631.

133) Measurement of the photon proton total cross-section at a center-of-mass energy of 209-GeV at HERA
By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0202034.
[10.1016/S0550-3213\(02\)00068-8](https://doi.org/10.1016/S0550-3213(02)00068-8).
Nucl.Phys. B627 (2002) 3-28.

134) Searches for excited fermions in $e p$ collisions at HERA
By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0109018.
[10.1016/S0370-2693\(02\)02863-0](https://doi.org/10.1016/S0370-2693(02)02863-0).
Phys.Lett. B549 (2002) 32-47.

135) Dijet production in neutral current deep inelastic scattering at HERA
By ZEUS Collaboration (S. Chekanov et al.).
hep-ex/0109029.
[10.1007/s100520100845](https://doi.org/10.1007/s100520100845).
Eur.Phys.J. C23 (2002) 13-27.

136) Properties of hadronic final states in diffractive deep inelastic ep scattering at HERA
By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0107052.

[10.1103/PhysRevD.65.052001](https://doi.org/10.1103/PhysRevD.65.052001).

Phys.Rev. D65 (2002) 052001.

137) Three jet production in diffractive deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0107004.

[10.1016/S0370-2693\(01\)00928-5](https://doi.org/10.1016/S0370-2693(01)00928-5).

Phys.Lett. B516 (2001) 273-292.

138) Measurement of the neutral current cross-section and $F(2)$ structure function for deep inelastic $e + p$ scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0105090.

[10.1007/s100520100749](https://doi.org/10.1007/s100520100749).

Eur.Phys.J. C21 (2001) 443-471.

139) Multiplicity moments in deep inelastic scattering at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0104036.

[10.1016/S0370-2693\(01\)00583-4](https://doi.org/10.1016/S0370-2693(01)00583-4).

Phys.Lett. B510 (2001) 36-54.

140) Study of the effective transverse momentum of partons in the proton using prompt photons in photoproduction at HERA

By ZEUS Collaboration (S. Chekanov et al.).

hep-ex/0104001.

[10.1016/S0370-2693\(01\)00615-3](https://doi.org/10.1016/S0370-2693(01)00615-3).

Phys.Lett. B511 (2001) 19-32.

141) Measurement of dijet production in neutral current deep inelastic scattering at high Q^{*2} and determination of $\alpha(s)$

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/0102042.

[10.1016/S0370-2693\(01\)00421-X](https://doi.org/10.1016/S0370-2693(01)00421-X).

Phys.Lett. B507 (2001) 70-88.

142) Measurement of open beauty production in photoproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/0011081.

[10.1007/s100520100571](https://doi.org/10.1007/s100520100571).

Eur.Phys.J. C18 (2001) 625-637.

143) Measurement of dijet cross-sections for events with a leading neutron in photoproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/0010019.

[10.1016/S0550-3213\(00\)00612-X](https://doi.org/10.1016/S0550-3213(00)00612-X).

Nucl.Phys. B596 (2001) 3-29.

144) Search for resonance decays to an anti-neutrino plus jet in $e + p$ scattering at DESY

HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/0009059.

[10.1103/PhysRevD.63.052002](https://doi.org/10.1103/PhysRevD.63.052002).

Phys.Rev. D63 (2001) 052002.

145) Measurement of exclusive omega electroproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/0006013.

[10.1016/S0370-2693\(00\)00794-2](https://doi.org/10.1016/S0370-2693(00)00794-2).

Phys.Lett. B487 (2000) 273-288.

146) Measurement of the proton structure function F_2 at very low Q^2 at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/0005018.

[10.1016/S0370-2693\(00\)00793-0](https://doi.org/10.1016/S0370-2693(00)00793-0).

Phys.Lett. B487 (2000) 53-73.

147) Measurement of inclusive D^+ -(s) photoproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/0003018.

[10.1016/S0370-2693\(00\)00431-7](https://doi.org/10.1016/S0370-2693(00)00431-7).

Phys.Lett. B481 (2000) 213-227.

148) Measurement of azimuthal asymmetries in deep inelastic scattering

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/0003017.

[10.1016/S0370-2693\(00\)00430-5](https://doi.org/10.1016/S0370-2693(00)00430-5).

Phys.Lett. B481 (2000) 199-212.

149) Search for resonances decaying to $e^+ e^-$ jet in $e^+ p$ interactions at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/0002038.

[10.1007/s100520050018](https://doi.org/10.1007/s100520050018).

Eur.Phys.J. C16 (2000) 253-267.

150) The Q^2 dependence of dijet cross-sections in γp interactions at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/0002010.

[10.1016/S0370-2693\(00\)00311-7](https://doi.org/10.1016/S0370-2693(00)00311-7).

Phys.Lett. B479 (2000) 37-52.

151) Measurement of inclusive prompt photon photoproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9910045.

[10.1016/S0370-2693\(99\)01450-1](https://doi.org/10.1016/S0370-2693(99)01450-1).

Phys.Lett. B472 (2000) 175-188.

152) Measurement of the $E^2(T_{\text{jet}}) / Q^2$ dependence of forward jet production at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9910043.

[10.1016/S0370-2693\(99\)01478-1](https://doi.org/10.1016/S0370-2693(99)01478-1).

Phys.Lett. B474 (2000) 223-233.

153) Measurement of diffractive photoproduction of vector mesons at large momentum transfer at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9910038.

[10.1007/s100520000374](https://doi.org/10.1007/s100520000374).

Eur.Phys.J. C14 (2000) 213-238.

154) Measurement of D^{*+} production and the charm contribution to $F(2)$ in deep inelastic scattering at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9908012.

[10.1007/s100529900244](https://doi.org/10.1007/s100529900244).

Eur.Phys.J. C12 (2000) 35-52.

155) W production and the search for events with an isolated high-energy lepton and missing transverse momentum at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9907023.

[10.1016/S0370-2693\(99\)01358-1](https://doi.org/10.1016/S0370-2693(99)01358-1).

Phys.Lett. B471 (2000) 411-428.

156) Measurement of high Q^2 charged current e^+p deep inelastic scattering cross-sections at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9907010.

[10.1007/s100529900280](https://doi.org/10.1007/s100529900280).

Eur.Phys.J. C12 (2000) 411-428, Erratum: Eur.Phys.J. C27 (2003) 305-309.

157) Measurement of the spin density matrix elements in exclusive electroproduction of ρ^0 mesons at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9908026.

[10.1007/s100529900246](https://doi.org/10.1007/s100529900246).

Eur.Phys.J. C12 (2000) 393-410.

158) Angular and current target correlations in deep inelastic scattering at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9905050.

[10.1007/s100529900245](https://doi.org/10.1007/s100529900245).

Eur.Phys.J. C12 (2000) 53-68.

159) Measurement of Dijet photoproduction at high transverse energies at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9905046.

[10.1007/s100520050612](https://doi.org/10.1007/s100520050612).

Eur.Phys.J. C11 (1999) 35-50.

160) Search for contact interactions in deep inelastic $e^+p \rightarrow e^+X$ scattering at

HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9905039.

Eur.Phys.J. C14 (2000) 239-254.

161) Measurement of high Q^2 neutral current e^+p deep inelastic scattering cross-sections at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9905032.

[10.1007/s100520050645](https://doi.org/10.1007/s100520050645).

Eur.Phys.J. C11 (1999) 427-445.

162) Measurement of multiplicity and momentum spectra in the current and target regions of the Breit frame in deep inelastic scattering at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9903056.

[10.1007/s100520050630](https://doi.org/10.1007/s100520050630).

Eur.Phys.J. C11 (1999) 251-270.

163) Measurement of three jet distributions in photoproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9810046.

[10.1016/S0370-2693\(98\)01360-4](https://doi.org/10.1016/S0370-2693(98)01360-4).

Phys.Lett. B443 (1998) 394-408.

164) ZEUS results on the measurement and phenomenology of F_2 at low x and low Q^2

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9809005.

[10.1007/s100529901084](https://doi.org/10.1007/s100529901084).

Eur.Phys.J. C7 (1999) 609-630.

165) Exclusive electroproduction of ρ^0 and J/ψ mesons at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9808020.

[10.1007/s100529901051](https://doi.org/10.1007/s100529901051).

Eur.Phys.J. C6 (1999) 603-627.

166) Measurement of elastic Upsilon photoproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9807020.

[10.1016/S0370-2693\(98\)01081-8](https://doi.org/10.1016/S0370-2693(98)01081-8).

Phys.Lett. B437 (1998) 432-444.

167) Measurement of the diffractive cross-section in deep inelastic scattering using ZEUS 1994 data

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9807010.

[10.1007/PL00021606](https://doi.org/10.1007/PL00021606).

Eur.Phys.J. C6 (1999) 43-66.

168) Measurement of inclusive D^{*+} and associated dijet cross-sections in photoproduction at

HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9807008.

[10.1007/s100529801017](https://doi.org/10.1007/s100529801017).

Eur.Phys.J. C6 (1999) 67-83.

169) Search for selectron and squark production in e^+p collisions at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9806019.

[10.1016/S0370-2693\(98\)00817-X](https://doi.org/10.1016/S0370-2693(98)00817-X).

Phys.Lett. B434 (1998) 214-230.

170) Forward jet production in deep inelastic scattering at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9805016.

[10.1007/s100529801018](https://doi.org/10.1007/s100529801018).

Eur.Phys.J. C6 (1999) 239-252.

171) Diffractive dijet cross-sections in photoproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9804013.

[10.1007/s100520050246](https://doi.org/10.1007/s100520050246), [10.1007/s100529800937](https://doi.org/10.1007/s100529800937).

Eur.Phys.J. C5 (1998) 41-56.

172) Measurement of jet shapes in high Q^2 deep inelastic scattering at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9804001.

[10.1007/s100520050471](https://doi.org/10.1007/s100520050471).

Eur.Phys.J. C8 (1999) 367-380.

173) High E_T inclusive jet cross-sections in photoproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9802012.

[10.1007/s100520050230](https://doi.org/10.1007/s100520050230).

Eur.Phys.J. C4 (1998) 591-606.

174) Elastic and proton dissociative ρ^0 photoproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9712020.

[10.1007/s100520050136](https://doi.org/10.1007/s100520050136).

Eur.Phys.J. C2 (1998) 247-267.

175) Charged particles and neutral kaons in photoproduced jets at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9711018.

[10.1007/s100520050125](https://doi.org/10.1007/s100520050125).

Eur.Phys.J. C2 (1998) 77-93.

176) Measurement of the t distribution in diffractive photoproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9712019.

[10.1007/s100520050135](https://doi.org/10.1007/s100520050135).

Eur.Phys.J. C2 (1998) 237-246.

177) Event shape analysis of deep inelastic scattering events with a large rapidity gap at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9710027.

[10.1016/S0370-2693\(97\)01539-6](https://doi.org/10.1016/S0370-2693(97)01539-6).

Phys.Lett. B421 (1998) 368-384.

178) Dijet cross-sections in photoproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9710018.

[10.1007/s100520050065](https://doi.org/10.1007/s100520050065).

Eur.Phys.J. C1 (1998) 109-122.

179) Measurement of jet shapes in photoproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9710002.

[10.1007/s100520050124](https://doi.org/10.1007/s100520050124).

Eur.Phys.J. C2 (1998) 61-75.

180) Measurement of the diffractive structure function $F_2(D(4))$ at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9709021.

[10.1007/s100520050063](https://doi.org/10.1007/s100520050063).

Eur.Phys.J. C1 (1998) 81-96.

181) Observation of scaling violations in scaled momentum distributions at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9710011.

[10.1016/S0370-2693\(97\)01194-5](https://doi.org/10.1016/S0370-2693(97)01194-5).

Phys.Lett. B414 (1997) 428-443.

182) Measurement of inelastic J/ψ photoproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9708010.

[10.1007/s002880050583](https://doi.org/10.1007/s002880050583).

Z.Phys. C76 (1997) 599-612.

183) Measurement of the proton structure function F_2 and $\sigma_{\text{tot}}(\gamma^* p)$ at low q^{*2} and very low x at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9707025.

[10.1016/S0370-2693\(97\)00905-2](https://doi.org/10.1016/S0370-2693(97)00905-2).

Phys.Lett. B407 (1997) 432-448.

184) Observation of isolated high $E(\gamma)$ photons in photoproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9708038.

[10.1016/S0370-2693\(97\)01164-7](https://doi.org/10.1016/S0370-2693(97)01164-7).

Phys.Lett. B413 (1997) 201-216.

185) A Search for excited fermions in $e^+ p$ collisions at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9708007.

[10.1007/s002880050585](https://arxiv.org/abs/10.1007/s002880050585).

Z.Phys. C76 (1997) 631-646.

186) D^* production in deep inelastic scattering at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9706009.

[10.1016/S0370-2693\(97\)00847-2](https://arxiv.org/abs/10.1016/S0370-2693(97)00847-2).

Phys.Lett. B407 (1997) 402-418.

187) Measurement of elastic J/ψ photoproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9704013.

[10.1007/s002880050464](https://arxiv.org/abs/10.1007/s002880050464).

Z.Phys. C75 (1997) 215-228.

188) Study of photon dissociation in diffractive photoproduction at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9704008.

[10.1007/s002880050485](https://arxiv.org/abs/10.1007/s002880050485).

Z.Phys. C75 (1997) 421-435.

189) Comparison of ZEUS data with standard model predictions for $e^+ p \rightarrow e^+ X$ scattering at high x and Q^2

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9702015.

[10.1007/s002880050384](https://arxiv.org/abs/10.1007/s002880050384).

Z.Phys. C74 (1997) 207-220.

190) Differential cross-sections of D^{*+} photoproduction in $e p$ collisions at HERA

By ZEUS Collaboration (J. Breitweg et al.).

hep-ex/9704011.

[10.1016/S0370-2693\(97\)00422-X](https://arxiv.org/abs/10.1016/S0370-2693(97)00422-X).

Phys.Lett. B401 (1997) 192-206.

191) Search for lepton flavor violation in $e p$ collisions at 300-GeV center-of-mass energy

By ZEUS Collaboration (M. Derrick et al.).

hep-ex/9704018.

[10.1007/s002880050352](https://arxiv.org/abs/10.1007/s002880050352).

Z.Phys. C73 (1997) 613-628.

192) Measurement of elastic ω photoproduction at HERA

By ZEUS Collaboration (M. Derrick et al.).

hep-ex/9608010.

[10.1007/s002880050297](https://arxiv.org/abs/10.1007/s002880050297).

Z.Phys. C73 (1996) 73-84.

193) Study of elastic ρ^0 photoproduction at HERA using the ZEUS leading proton spectrometer

By ZEUS Collaboration (M. Derrick et al.).

hep-ex/9609003.

[10.1007/s002880050314](https://arxiv.org/abs/10.1007/s002880050314).

Z.Phys. C73 (1997) 253-268.

194) Measurement of the F2 structure function in deep inelastic e+ p scattering using 1994 data from the ZEUS detector at HERA

By ZEUS Collaboration (M. Derrick et al.).

hep-ex/9607002.

[10.1007/s002880050260](https://arxiv.org/abs/10.1007/s002880050260), [10.1007/BF02909169](https://arxiv.org/abs/10.1007/BF02909169).

Z.Phys. C72 (1996) 399-424.

195) Study of charged current e p interactions at $Q^2 > 200\text{-GeV}^2$ with the ZEUS detector at HERA

By ZEUS Collaboration (M. Derrick et al.).

hep-ex/9606014.

[10.1007/s002880050222](https://arxiv.org/abs/10.1007/s002880050222).

Z.Phys. C72 (1996) 47-64.

196) Dijet angular distributions in direct and resolved photoproduction at HERA

By ZEUS Collaboration (M. Derrick et al.).

hep-ex/9605009.

[10.1016/0370-2693\(96\)00931-8](https://arxiv.org/abs/10.1016/0370-2693(96)00931-8).

Phys.Lett. B384 (1996) 401-413.

197) Observation of events with an energetic forward neutron in deep inelastic scattering at HERA

By ZEUS Collaboration (M. Derrick et al.).

hep-ex/9606006.

[10.1016/0370-2693\(96\)00688-0](https://arxiv.org/abs/10.1016/0370-2693(96)00688-0).

Phys.Lett. B384 (1996) 388-400.

198) Measurement of the reaction $\gamma^* p \rightarrow \phi p$ in deep inelastic e+ p scattering at HERA

By ZEUS Collaboration (M. Derrick et al.).

hep-ex/9604008.

[10.1016/0370-2693\(96\)00603-X](https://arxiv.org/abs/10.1016/0370-2693(96)00603-X).

Phys.Lett. B380 (1996) 220-234.

199) Measurement of the diffractive cross-section in deep inelastic scattering

By ZEUS Collaboration (M. Derrick et al.).

hep-ex/9602010.

[10.1007/s002880050118](https://arxiv.org/abs/10.1007/s002880050118).

Z.Phys. C70 (1996) 391-412.

200) Measurement of elastic ϕ photoproduction at HERA

By ZEUS Collaboration (M. Derrick et al.).

hep-ex/9601009.

[10.1016/0370-2693\(96\)00172-4](https://arxiv.org/abs/10.1016/0370-2693(96)00172-4).

Phys.Lett. B377 (1996) 259-272.

201) Inclusive charged particle distributions in deep inelastic scattering events at HERA
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9511010.
[10.1007/s002880050075](https://arxiv.org/abs/10.1007/s002880050075).
Z.Phys. C70 (1996) 1-16.

202) Rapidity gaps between jets in photoproduction at HERA
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9510012.
[10.1016/0370-2693\(95\)01588-4](https://arxiv.org/abs/10.1016/0370-2693(95)01588-4).
Phys.Lett. B369 (1996) 55-68.

203) Measurement of the proton structure function F_2 at low x and low q^2 at HERA
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9510009.
[10.1007/s002880050064](https://arxiv.org/abs/10.1007/s002880050064), [10.1007/BF02907444](https://arxiv.org/abs/10.1007/BF02907444).
Z.Phys. C69 (1996) 607-620.

204) Measurement of α_s from jet rates in deep inelastic scattering at HERA
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9510001.
[10.1016/0370-2693\(95\)01284-W](https://arxiv.org/abs/10.1016/0370-2693(95)01284-W).
Phys.Lett. B363 (1995) 201-216.

205) Measurement of elastic ρ^0 photoproduction at HERA
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9507011.
[10.1007/s002880050004](https://arxiv.org/abs/10.1007/s002880050004).
Z.Phys. C69 (1995) 39-54.

206) Exclusive ρ^0 production in deep inelastic electron - proton scattering at HERA
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9507001.
[10.1016/0370-2693\(95\)00879-P](https://arxiv.org/abs/10.1016/0370-2693(95)00879-P).
Phys.Lett. B356 (1995) 601-616.

207) Diffractive hard photoproduction at HERA and evidence for the gluon content of the pomeron
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9506009.
[10.1016/0370-2693\(95\)00803-S](https://arxiv.org/abs/10.1016/0370-2693(95)00803-S).
Phys.Lett. B356 (1995) 129-146.

208) Measurement of the diffractive structure function in deep elastic scattering at HERA
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9505010.
[10.1007/BF01565257](https://arxiv.org/abs/10.1007/BF01565257).
Z.Phys. C68 (1995) 569-584.

- 209) Neutral strange particle production in deep inelastic scattering at HERA
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9505011.
[10.1007/BF01579802](https://doi.org/10.1007/BF01579802).
Z.Phys. C68 (1995) 29-42.
- 210) Measurement of charged and neutral current e- p deep inelastic scattering cross-sections at high Q**2
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9503016.
[10.1103/PhysRevLett.75.1006](https://doi.org/10.1103/PhysRevLett.75.1006).
Phys.Rev.Lett. 75 (1995) 1006-1011.
- 211) Measurement of the cross-section for the reaction $\gamma p \rightarrow J/\psi p$ with the ZEUS detector at HERA
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9503015.
[10.1016/0370-2693\(95\)00403-8](https://doi.org/10.1016/0370-2693(95)00403-8).
Phys.Lett. B350 (1995) 120-134.
- 212) Dijet cross-sections in photoproduction at HERA
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9502008.
[10.1016/0370-2693\(95\)00275-P](https://doi.org/10.1016/0370-2693(95)00275-P).
Phys.Lett. B348 (1995) 665-680.
- 213) Jet production in high Q**2 deep inelastic e p scattering at HERA
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9502003.
[10.1007/BF01564823](https://doi.org/10.1007/BF01564823).
Z.Phys. C67 (1995) 81-92.
- 214) Study of D*+- (2010) production in e p collisions at HERA
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9502002.
[10.1016/0370-2693\(95\)00253-H](https://doi.org/10.1016/0370-2693(95)00253-H).
Phys.Lett. B349 (1995) 225-237.
- 215) Measurement of multiplicity and momentum spectra in the current fragmentation region of the Breit frame at HERA
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9501012.
[10.1007/BF01564824](https://doi.org/10.1007/BF01564824).
Z.Phys. C67 (1995) 93-108.
- 216) Study of the photon remnant in resolved photoproduction at HERA
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9505001.
[10.1016/0370-2693\(95\)00650-A](https://doi.org/10.1016/0370-2693(95)00650-A).
Phys.Lett. B354 (1995) 163-177.

- 217) Inclusive transverse momentum distributions of charged particles in diffractive and nondiffractive photoproduction at HERA
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9503014.
[10.1007/BF01571283](https://doi.org/10.1007/BF01571283).
Z.Phys. C67 (1995) 227-238.
- 218) Observation of hard scattering in photoproduction events with a large rapidity gap at HERA
By ZEUS Collaboration (M. Derrick et al.).
hep-ex/9501011.
[10.1016/0370-2693\(95\)00022-D](https://doi.org/10.1016/0370-2693(95)00022-D).
Phys.Lett. B346 (1995) 399-414.
- 219) Inclusive jet differential cross-sections in photoproduction at HERA
By ZEUS Collaboration (M. Derrick et al.).
[10.1016/0370-2693\(94\)01510-J](https://doi.org/10.1016/0370-2693(94)01510-J).
Phys.Lett. B342 (1995) 417-432.
- 220) A Search for excited fermions in electron - proton collisions at HERA
By ZEUS Collaboration (M. Derrick et al.).
[10.1007/BF01578671](https://doi.org/10.1007/BF01578671).
Z.Phys. C65 (1995) 627-648.
- 221) Extraction of the gluon density of the proton at small x
By ZEUS Collaboration (M. Derrick et al.).
[10.1016/0370-2693\(95\)00021-C](https://doi.org/10.1016/0370-2693(95)00021-C).
Phys.Lett. B345 (1995) 576-588.
- 222) Measurement of the proton structure function F2 from the 1993 HERA data
By ZEUS Collaboration (M. Derrick et al.).
[10.1007/BF01556128](https://doi.org/10.1007/BF01556128).
Z.Phys. C65 (1995) 379-398.
- 223) Comparison of energy flows in deep inelastic scattering events with and without a large rapidity gap
By ZEUS Collaboration (M. Derrick et al.).
[10.1016/0370-2693\(94\)90804-4](https://doi.org/10.1016/0370-2693(94)90804-4).
Phys.Lett. B338 (1994) 483-496.
- 224) Observation of jet production in deep inelastic scattering with a large rapidity gap at HERA
By ZEUS Collaboration (M. Derrick et al.).
[10.1016/0370-2693\(94\)90883-4](https://doi.org/10.1016/0370-2693(94)90883-4).
Phys.Lett. B332 (1994) 228-243.
- 225) Measurement of total and partial photon proton cross-sections at 180-GeV center-of-mass energy
By ZEUS Collaboration (M. Derrick et al.).
[10.1007/BF01580320](https://doi.org/10.1007/BF01580320).

Z.Phys. C63 (1994) 391-408.

226) Observation of direct processes in photoproduction at HERA

By ZEUS Collaboration (M. Derrick et al.).

[10.1016/0370-2693\(94\)91121-5](https://doi.org/10.1016/0370-2693(94)91121-5).

Phys.Lett. B322 (1994) 287-300.

227) Measurement of the proton structure function F_2 in e p scattering at HERA

By ZEUS Collaboration (M. Derrick et al.).

[10.1016/0370-2693\(93\)90347-K](https://doi.org/10.1016/0370-2693(93)90347-K).

Phys.Lett. B316 (1993) 412-426.

228) Observation of events with a large rapidity gap in deep inelastic scattering at HERA

By ZEUS Collaboration (M. Derrick et al.).

[10.1016/0370-2693\(93\)91645-4](https://doi.org/10.1016/0370-2693(93)91645-4).

Phys.Lett. B315 (1993) 481-493.

229) Search for excited electrons using the ZEUS detector

By ZEUS Collaboration (M. Derrick et al.).

[10.1016/0370-2693\(93\)90680-G](https://doi.org/10.1016/0370-2693(93)90680-G).

Phys.Lett. B316 (1993) 207-218.

230) Beam tests of the ZEUS barrel calorimeter

By ZEUS Barrel Calorimeter Group (A. Bernstein et al.).

[10.1016/0168-9002\(93\)91078-2](https://doi.org/10.1016/0168-9002(93)91078-2).

Nucl.Instrum.Meth. A336 (1993) 23-52.

231) Hadronic energy distributions in deep inelastic electron - proton scattering

By ZEUS Collaboration (M. Derrick et al.).

[10.1007/BF01566687](https://doi.org/10.1007/BF01566687).

Z.Phys. C59 (1993) 231-242.

232) Search for leptoquarks with the ZEUS detector

By ZEUS Collaboration (M. Derrick et al.).

[10.1016/0370-2693\(93\)91155-G](https://doi.org/10.1016/0370-2693(93)91155-G).

Phys.Lett. B306 (1993) 173-186.

233) Observation of two jet production in deep inelastic scattering at HERA

By ZEUS Collaboration (M. Derrick et al.).

[10.1016/0370-2693\(93\)91154-F](https://doi.org/10.1016/0370-2693(93)91154-F).

Phys.Lett. B306 (1993) 158-172.

234) Initial study of deep inelastic scattering with ZEUS at HERA

By ZEUS Collaboration (M. Derrick et al.).

[10.1016/0370-2693\(93\)90065-P](https://doi.org/10.1016/0370-2693(93)90065-P).

Phys.Lett. B303 (1993) 183-197.

235) Observation of hard scattering in photoproduction at HERA

By ZEUS Collaboration (M. Derrick et al.).

[10.1016/0370-2693\(92\)91280-M](https://doi.org/10.1016/0370-2693(92)91280-M).

Phys.Lett. B297 (1992) 404-416.

236) A Measurement of $\sigma(\text{tot})$ (γp) at $s^{1/2} = 210\text{-GeV}$
By ZEUS Collaboration (M. Derrick et al.).
[10.1016/0370-2693\(92\)90914-P](https://arxiv.org/abs/10.1016/0370-2693(92)90914-P).
Phys.Lett. B293 (1992) 465-477.

ATLAS 2020 (20)

A measurement of soft-drop jet observables in pp collisions with the ATLAS detector at $\sqrt{s} = 13\text{ TeV}$
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1912.09837 [hep-ex].
[10.1103/PhysRevD.101.052007](https://arxiv.org/abs/10.1103/PhysRevD.101.052007).
Phys.Rev. D101 (2020) no.5, 052007.

Searches for electroweak production of supersymmetric particles with compressed mass spectra in $\sqrt{s} = 13\text{ TeV}$ pp collisions with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1911.12606 [hep-ex].
[10.1103/PhysRevD.101.052005](https://arxiv.org/abs/10.1103/PhysRevD.101.052005).
Phys.Rev. D101 (2020) no.5, 052005.

Search for direct stau production in events with two hadronic τ -leptons in $\sqrt{s} = 13\text{ TeV}$ pp collisions with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1911.06660 [hep-ex].
[10.1103/PhysRevD.101.032009](https://arxiv.org/abs/10.1103/PhysRevD.101.032009).
Phys.Rev. D101 (2020) no.3, 032009.

Measurement of the azimuthal anisotropy of charged-particle production in Xe+Xe collisions at $\sqrt{s_{\text{NN}}} = 5.44\text{ TeV}$ with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1911.04812 [nucl-ex].
[10.1103/PhysRevC.101.024906](https://arxiv.org/abs/10.1103/PhysRevC.101.024906).
Phys.Rev. C101 (2020) no.2, 024906.

Measurement of differential cross sections for single diffractive dissociation in $\sqrt{s} = 8\text{ TeV}$ pp collisions using the ATLAS ALFA spectrometer
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1911.00453 [hep-ex].
[10.1007/JHEP02\(2020\)042](https://arxiv.org/abs/10.1007/JHEP02(2020)042).
JHEP 2002 (2020) 042.

Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s_{\text{NN}}} = 8.16\text{ TeV}$ $p\text{-Pb}$ collisions with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1910.13978 [nucl-ex].
[10.1140/epjc/s10052-020-7624-4](https://arxiv.org/abs/10.1140/epjc/s10052-020-7624-4).

Eur.Phys.J. C80 (2020) no.1, 73.

Z boson production in Pb+Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV measured by the ATLAS experiment

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1910.13396 [nucl-ex].

[10.1016/j.physletb.2020.135262](https://doi.org/10.1016/j.physletb.2020.135262).

Phys.Lett. B802 (2020) 135262.

Evidence for electroweak production of two jets in association with a $Z\gamma$ pair in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1910.09503 [hep-ex].

[10.1016/j.physletb.2020.135341](https://doi.org/10.1016/j.physletb.2020.135341).

Phys.Lett. B803 (2020) 135341.

Measurement of J/ψ production in association with a W^\pm boson with pp data at 8 TeV

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1909.13626 [hep-ex].

[10.1007/JHEP01\(2020\)095](https://doi.org/10.1007/JHEP01(2020)095).

JHEP 2001 (2020) 095.

Search for the Higgs boson decays $H \rightarrow ee$ and $H \rightarrow e\mu$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1909.10235 [hep-ex].

[10.1016/j.physletb.2019.135148](https://doi.org/10.1016/j.physletb.2019.135148).

Phys.Lett. B801 (2020) 135148.

Combined measurements of Higgs boson production and decay using up to 80 fb^{-1} of proton-proton collision data at $\sqrt{s} = 13$ TeV collected with the ATLAS experiment

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1909.02845 [hep-ex].

[10.1103/PhysRevD.101.012002](https://doi.org/10.1103/PhysRevD.101.012002).

Phys.Rev. D101 (2020) no.1, 012002.

Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1909.01650 [nucl-ex].

[10.1103/PhysRevLett.124.082301](https://doi.org/10.1103/PhysRevLett.124.082301).

Phys.Rev.Lett. 124 (2020) no.8, 082301.

Performance of electron and photon triggers in ATLAS during LHC Run 2

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1909.00761 [hep-ex].

[10.1140/epjc/s10052-019-7500-2](https://doi.org/10.1140/epjc/s10052-019-7500-2).

Eur.Phys.J. C80 (2020) no.1, 47.

Search for flavour-changing neutral currents in processes with one top quark and a photon

using 81 fb⁻¹ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1908.08461 [hep-ex].
[10.1016/j.physletb.2019.135082](https://doi.org/10.1016/j.physletb.2019.135082).
Phys.Lett. B800 (2020) 135082.

Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1908.08215 [hep-ex].
[10.1140/epjc/s10052-019-7594-6](https://doi.org/10.1140/epjc/s10052-019-7594-6).
Eur.Phys.J. C80 (2020) no.2, 123.

Search for non-resonant Higgs boson pair production in the $b\bar{b}\ell\nu\ell\nu$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1908.06765 [hep-ex].
[10.1016/j.physletb.2019.135145](https://doi.org/10.1016/j.physletb.2019.135145).
Phys.Lett. B801 (2020) 135145.

Search for displaced vertices of oppositely charged leptons from decays of long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1907.10037 [hep-ex].
[10.1016/j.physletb.2019.135114](https://doi.org/10.1016/j.physletb.2019.135114).
Phys.Lett. B801 (2020) 135114.

Searches for lepton-flavour-violating decays of the Higgs boson in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1907.06131 [hep-ex].
[10.1016/j.physletb.2019.135069](https://doi.org/10.1016/j.physletb.2019.135069).
Phys.Lett. B800 (2020) 135069.

Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at $\sqrt{s} = 8$ and 13 TeV
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1906.08290 [nucl-ex].
[10.1140/epjc/s10052-020-7606-6](https://doi.org/10.1140/epjc/s10052-020-7606-6).
Eur.Phys.J. C80 (2020) no.1, 64.

Combination of searches for Higgs boson pairs in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1906.02025 [hep-ex].
[10.1016/j.physletb.2019.135103](https://doi.org/10.1016/j.physletb.2019.135103).
Phys.Lett. B800 (2020) 135103.

Search for magnetic monopoles and stable high-electric-charge objects in 13 TeV proton-proton collisions with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1905.10130 [hep-ex].
[10.1103/PhysRevLett.124.031802](https://arxiv.org/abs/10.1103/PhysRevLett.124.031802).
Phys.Rev.Lett. 124 (2020) no.3, 031802.

Fluctuations of anisotropic flow in Pb+Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1904.04808 [nucl-ex].
[10.1007/JHEP01\(2020\)051](https://arxiv.org/abs/10.1007/JHEP01(2020)051).

ATLAS 2019

1)

10) Measurement of the $Z(\rightarrow e^+e^-)\gamma$ production cross-section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1911.04813 [hep-ex].
[10.1007/JHEP03\(2020\)054](https://arxiv.org/abs/10.1007/JHEP03(2020)054).
JHEP 2003 (2020) 054.

11) Measurement of the azimuthal anisotropy of charged-particle production in Xe+Xe collisions at $\sqrt{s_{\text{NN}}} = 5.44$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1911.04812 [nucl-ex].
[10.1103/PhysRevC.101.024906](https://arxiv.org/abs/10.1103/PhysRevC.101.024906).
Phys.Rev. C101 (2020) no.2, 024906.

12) Evidence for the production of three massive vector bosons with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1903.10415 [hep-ex].
[10.1016/j.physletb.2019.134913](https://arxiv.org/abs/10.1016/j.physletb.2019.134913).
Phys.Lett. B798 (2019) 134913.

13) Measurement of differential cross sections for single diffractive dissociation in $\sqrt{s} = 8$ TeV pp collisions using the ATLAS ALFA spectrometer
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1911.00453 [hep-ex].
[10.1007/JHEP02\(2020\)042](https://arxiv.org/abs/10.1007/JHEP02(2020)042).
JHEP 2002 (2020) 042.

14) Transverse momentum and process dependent azimuthal anisotropies in $\sqrt{s_{\text{NN}}} = 8.16$ TeV pPb collisions with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1910.13978 [nucl-ex].
[10.1140/epjc/s10052-020-7624-4](https://arxiv.org/abs/10.1140/epjc/s10052-020-7624-4).
Eur.Phys.J. C80 (2020) no.1, 73.

15) $Z\gamma$ boson production in Pb+Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV measured by the ATLAS experiment
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1910.13396 [nucl-ex].

[10.1016/j.physletb.2020.135262](https://doi.org/10.1016/j.physletb.2020.135262).
Phys.Lett. B802 (2020) 135262.

16) Evidence for electroweak production of two jets in association with a $Z\gamma$ pair in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1910.09503 [hep-ex].

[10.1016/j.physletb.2020.135341](https://doi.org/10.1016/j.physletb.2020.135341).
Phys.Lett. B803 (2020) 135341.

20) Measurement of J/ψ production in association with a W^\pm boson with pp data at 8 TeV

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1909.13626 [hep-ex].

[10.1007/JHEP01\(2020\)095](https://doi.org/10.1007/JHEP01(2020)095).
JHEP 2001 (2020) 095.

24) Combined measurements of Higgs boson production and decay using up to 80 fb^{-1} of proton-proton collision data at $\sqrt{s} = 13$ TeV collected with the ATLAS experiment

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1909.02845 [hep-ex].

[10.1103/PhysRevD.101.012002](https://doi.org/10.1103/PhysRevD.101.012002).
Phys.Rev. D101 (2020) no.1, 012002.

26) Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1909.01650 [nucl-ex].

[10.1103/PhysRevLett.124.082301](https://doi.org/10.1103/PhysRevLett.124.082301).
Phys.Rev.Lett. 124 (2020) no.8, 082301.

27) Performance of electron and photon triggers in ATLAS during LHC Run 2

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1909.00761 [hep-ex].

[10.1140/epjc/s10052-019-7500-2](https://doi.org/10.1140/epjc/s10052-019-7500-2).
Eur.Phys.J. C80 (2020) no.1, 47.

29) Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1908.08215 [hep-ex].

[10.1140/epjc/s10052-019-7594-6](https://doi.org/10.1140/epjc/s10052-019-7594-6).
Eur.Phys.J. C80 (2020) no.2, 123.

30) Measurements of top-quark pair differential and double-differential cross-sections in the $\ell\ell + \text{jets}$ channel with pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1908.07305 [hep-ex].

[10.1140/epjc/s10052-019-7525-6](https://doi.org/10.1140/epjc/s10052-019-7525-6).
Eur.Phys.J. C79 (2019) no.12, 1028.

32) Measurement of angular and momentum distributions of charged particles within and around jets in Pb+Pb and pp collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1908.05264 [nucl-ex].

[10.1103/PhysRevC.100.064901](https://arxiv.org/abs/10.1103/PhysRevC.100.064901).

Phys.Rev. C100 (2019) no.6, 064901.

33) Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b -jets and missing transverse momentum

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1908.03122 [hep-ex].

[10.1007/JHEP12\(2019\)060](https://arxiv.org/abs/10.1007/JHEP12(2019)060).

JHEP 1912 (2019) 060.

34) Measurement of the inclusive isolated-photon cross section in pp collisions at $\sqrt{s} = 13$ TeV using 36 fb^{-1} of ATLAS data

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1908.02746 [hep-ex].

[10.1007/JHEP10\(2019\)203](https://arxiv.org/abs/10.1007/JHEP10(2019)203).

JHEP 1910 (2019) 203.

35) Electron and photon performance measurements with the ATLAS detector using the 2015–2017 LHC proton-proton collision data

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1908.00005 [hep-ex].

[10.1088/1748-0221/14/12/P12006](https://arxiv.org/abs/10.1088/1748-0221/14/12/P12006).

JINST 14 (2019) no.12, P12006.

36) Measurement of K_S^0 and Λ^0 production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1907.10862 [hep-ex].

[10.1140/epjc/s10052-019-7512-y](https://arxiv.org/abs/10.1140/epjc/s10052-019-7512-y).

Eur.Phys.J. C79 (2019) no.12, 1017.

37) Measurement of W^\pm boson production in Pb+Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1907.10414 [nucl-ex].

[10.1140/epjc/s10052-019-7439-3](https://arxiv.org/abs/10.1140/epjc/s10052-019-7439-3).

Eur.Phys.J. C79 (2019) no.11, 935.

40) Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at 8 TeV using the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1907.06728 [hep-ex].

[10.1140/epjc/s10052-019-7321-3](https://arxiv.org/abs/10.1140/epjc/s10052-019-7321-3).

Eur.Phys.J. C79 (2019) no.10, 847.

42) Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1907.05176 [nucl-ex].

[10.1140/epjc/s10052-019-7489-6](https://arxiv.org/abs/10.1140/epjc/s10052-019-7489-6).

Eur.Phys.J. C79 (2019) no.12, 985.

- 43) ATLAS b-jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at $\sqrt{s}=13$ TeV
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1907.05120 [hep-ex].
[10.1140/epjc/s10052-019-7450-8](https://arxiv.org/abs/10.1140/epjc/s10052-019-7450-8).
 Eur.Phys.J. C79 (2019) no.11, 970.
- 44) Measurement of W^{\pm} -boson and Z-boson production cross-sections in pp collisions at $\sqrt{s}=2.76$ TeV with the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1907.03567 [hep-ex].
[10.1140/epjc/s10052-019-7399-7](https://arxiv.org/abs/10.1140/epjc/s10052-019-7399-7).
 Eur.Phys.J. C79 (2019) no.11, 901.
- 46) Resolution of the ATLAS muon spectrometer monitored drift tubes in LHC Run 2
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1906.12226 [hep-ex].
[10.1088/1748-0221/14/09/P09011](https://arxiv.org/abs/10.1088/1748-0221/14/09/P09011).
 JINST 14 (2019) no.09, P09011.
- 47) Identification of boosted Higgs bosons decaying into $b\bar{b}$ -quark pairs with the ATLAS detector at 13 TeV
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1906.11005 [hep-ex].
[10.1140/epjc/s10052-019-7335-x](https://arxiv.org/abs/10.1140/epjc/s10052-019-7335-x).
 Eur.Phys.J. C79 (2019) no.10, 836.
- 48) Properties of jet fragmentation using charged particles measured with the ATLAS detector in $pp\bar{p}$ collisions at $\sqrt{s}=13$ TeV
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1906.09254 [hep-ex].
[10.1103/PhysRevD.100.052011](https://arxiv.org/abs/10.1103/PhysRevD.100.052011).
 Phys.Rev. D100 (2019) no.5, 052011.
- 51) Search for a heavy charged boson in events with a charged lepton and missing transverse momentum from $pp\bar{p}$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1906.05609 [hep-ex].
[10.1103/PhysRevD.100.052013](https://arxiv.org/abs/10.1103/PhysRevD.100.052013).
 Phys.Rev. D100 (2019) no.5, 052013.
- 52) Search for excited electrons singly produced in proton–proton collisions at $\sqrt{s}=13$ TeV with the ATLAS experiment at the LHC
 By ATLAS Collaboration (Morad Aaboud et al.).
 arXiv:1906.03204 [hep-ex].
[10.1140/epjc/s10052-019-7295-1](https://arxiv.org/abs/10.1140/epjc/s10052-019-7295-1).
 Eur.Phys.J. C79 (2019) no.9, 803.
- 53) Observation of electroweak production of a same-sign W boson pair in association with two jets in $pp\bar{p}$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
 By ATLAS Collaboration (Morad Aaboud et al.).
 arXiv:1906.03203 [hep-ex].
[10.1103/PhysRevLett.123.161801](https://arxiv.org/abs/10.1103/PhysRevLett.123.161801).
 Phys.Rev.Lett. 123 (2019) no.16, 161801.

- 56) Measurement of distributions sensitive to the underlying event in inclusive Z -boson production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1905.09752 [hep-ex].
[10.1140/epjc/s10052-019-7162-0](https://doi.org/10.1140/epjc/s10052-019-7162-0).
 Eur.Phys.J. C79 (2019) no.8, 666.
- 57) Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced signatures with the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1905.09787 [hep-ex].
[10.1007/JHEP10\(2019\)265](https://doi.org/10.1007/JHEP10(2019)265).
 JHEP 1910 (2019) 265.
- 59) Measurement of ZZ production in the $\ell\ell\nu\nu$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV
 By ATLAS Collaboration (Morad Aaboud et al.).
 arXiv:1905.07163 [hep-ex].
[10.1007/JHEP10\(2019\)127](https://doi.org/10.1007/JHEP10(2019)127).
 JHEP 1910 (2019) 127.
- 60) Measurement of fiducial and differential W^+W^- production cross-sections at $\sqrt{s}=13$ TeV with the ATLAS detector
 By ATLAS Collaboration (Morad Aaboud et al.).
 arXiv:1905.04242 [hep-ex].
[10.1140/epjc/s10052-019-7371-6](https://doi.org/10.1140/epjc/s10052-019-7371-6).
 Eur.Phys.J. C79 (2019) no.10, 884.
- 61) Modelling radiation damage to pixel sensors in the ATLAS detector
 By ATLAS Collaboration (Morad Aaboud et al.).
 arXiv:1905.03739 [physics.ins-det].
[10.1088/1748-0221/14/06/P06012](https://doi.org/10.1088/1748-0221/14/06/P06012).
 JINST 14 (2019) no.06, P06012.
- 62) Measurement of the top-quark mass in $t\bar{t}+1$ -jet events collected with the ATLAS detector in pp collisions at $\sqrt{s}=8$ TeV
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1905.02302 [hep-ex].
[10.1007/JHEP11\(2019\)150](https://doi.org/10.1007/JHEP11(2019)150).
 JHEP 1911 (2019) 150.
- 63) Search for a right-handed gauge boson decaying into a high-momentum heavy neutrino and a charged lepton in pp collisions with the ATLAS detector at $\sqrt{s}=13$ TeV
 By ATLAS Collaboration (Morad Aaboud et al.).
 arXiv:1904.12679 [hep-ex].
[10.1016/j.physletb.2019.134942](https://doi.org/10.1016/j.physletb.2019.134942).
 Phys.Lett. B798 (2019) 134942.
- 64) Measurement of the cross-section and charge asymmetry of W bosons produced in proton–proton collisions at $\sqrt{s}=8\sim\text{TeV}$ with the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1904.05631 [hep-ex].
[10.1140/epjc/s10052-019-7199-0](https://doi.org/10.1140/epjc/s10052-019-7199-0).
 Eur.Phys.J. C79 (2019) no.9, 760.
- 65) Combination of searches for invisible Higgs boson decays with the ATLAS experiment

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1904.05105 [hep-ex].
[10.1103/PhysRevLett.122.231801](https://arxiv.org/abs/10.1103/PhysRevLett.122.231801).
Phys.Rev.Lett. 122 (2019) no.23, 231801.

68) Evidence for the production of three massive vectorbosons in pp collisions with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
[10.22323/1.352.0135](https://arxiv.org/abs/10.22323/1.352.0135).
PoS DIS2019 (2019) 135.

69) Measurement of the production cross section for a Higgs boson in association with a vector boson in the $H \rightarrow WW^* \rightarrow \ell\ell\nu\ell\nu$ channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1903.10052 [hep-ex].
[10.1016/j.physletb.2019.134949](https://arxiv.org/abs/10.1016/j.physletb.2019.134949).
Phys.Lett. B798 (2019) 134949.

71) Search for high-mass dilepton resonances using 139 fb^{-1} of pp collision data collected at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1903.06248 [hep-ex].
[10.1016/j.physletb.2019.07.016](https://arxiv.org/abs/10.1016/j.physletb.2019.07.016).
Phys.Lett. B796 (2019) 68-87.

72) Measurement of VH , $H \rightarrow \text{b}\overline{\text{b}}$ production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1903.04618 [hep-ex].
[10.1007/JHEP05\(2019\)141](https://arxiv.org/abs/10.1007/JHEP05(2019)141).
JHEP 1905 (2019) 141.

73) Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1903.02942 [hep-ex].
[10.1007/JHEP08\(2019\)033](https://arxiv.org/abs/10.1007/JHEP08(2019)033).
JHEP 1908 (2019) 033.

74) Measurement of prompt photon production in $\sqrt{s_{NN}} = 8.16$ TeV pPb collisions with ATLAS
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1903.02209 [nucl-ex].
[10.1016/j.physletb.2019.07.031](https://arxiv.org/abs/10.1016/j.physletb.2019.07.031).
Phys.Lett. B796 (2019) 230-252.

75) Constraints on mediator-based dark matter and scalar dark energy models using $\sqrt{s} = 13$ TeV pp collision data collected by the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1903.01400 [hep-ex].
[10.1007/JHEP05\(2019\)142](https://arxiv.org/abs/10.1007/JHEP05(2019)142).
JHEP 1905 (2019) 142.

- 77) Comparison of Fragmentation Functions for Jets Dominated by Light Quarks and Gluons from pp and Pb+Pb Collisions in ATLAS
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1902.10007 [nucl-ex].
[10.1103/PhysRevLett.123.042001](https://doi.org/10.1103/PhysRevLett.123.042001).
Phys.Rev.Lett. 123 (2019) no.4, 042001.
- 78) Searches for third-generation scalar leptoquarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1902.08103 [hep-ex].
[10.1007/JHEP06\(2019\)144](https://doi.org/10.1007/JHEP06(2019)144).
JHEP 1906 (2019) 144.
- 79) Combinations of single-top-quark production cross-section measurements and $|f_{\text{LV}}|$ determinations at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS experiments, By ATLAS and CMS Collaborations (Morad Aaboud et al.).
arXiv:1902.07158 [hep-ex].
[10.1007/JHEP05\(2019\)088](https://doi.org/10.1007/JHEP05(2019)088).
JHEP 1905 (2019) 088.
- 80) Measurement of the four-lepton invariant mass spectrum in 13 TeV proton-proton collisions with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1902.05892 [hep-ex].
[10.1007/JHEP04\(2019\)048](https://doi.org/10.1007/JHEP04(2019)048).
JHEP 1904 (2019) 048.
- 81) Measurement of $W^{\pm}Z$ production cross sections and gauge boson polarisation in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1902.05759 [hep-ex].
[10.1140/epjc/s10052-019-7027-6](https://doi.org/10.1140/epjc/s10052-019-7027-6).
Eur.Phys.J. C79 (2019) no.6, 535.
- 83) Search for long-lived neutral particles in pp collisions at $\sqrt{s} = 13$ TeV that decay into displaced hadronic jets in the ATLAS calorimeter
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1902.03094 [hep-ex].
[10.1140/epjc/s10052-019-6962-6](https://doi.org/10.1140/epjc/s10052-019-6962-6).
Eur.Phys.J. C79 (2019) no.6, 481.
- 84) Search for heavy charged long-lived particles in the ATLAS detector in 36.1 fb^{-1} of proton-proton collision data at $\sqrt{s} = 13$ TeV
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1902.01636 [hep-ex].
[10.1103/PhysRevD.99.092007](https://doi.org/10.1103/PhysRevD.99.092007).
Phys.Rev. D99 (2019) no.9, 092007.
- 85) Searches for scalar leptoquarks and differential cross-section measurements in dilepton-dijet events in proton-proton collisions at a centre-of-mass energy of $\sqrt{s} = 13$ TeV with the ATLAS experiment
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1902.00377 [hep-ex].
[10.1140/epjc/s10052-019-7181-x](https://doi.org/10.1140/epjc/s10052-019-7181-x).
Eur.Phys.J. C79 (2019) no.9, 733.
- 86) Search for low-mass resonances decaying into two jets and produced in association with a

photon using pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1901.10917 [hep-ex].
[10.1016/j.physletb.2019.03.067](https://arxiv.org/abs/10.1016/j.physletb.2019.03.067).
Phys.Lett. B795 (2019) 56-75.

87) Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at $\sqrt{s} = 13$ and 8 TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1901.10075 [hep-ex].
[10.1007/JHEP04\(2019\)093](https://arxiv.org/abs/10.1007/JHEP04(2019)093).
JHEP 1904 (2019) 093.

88) Dijet azimuthal correlations and conditional yields in pp and p+Pb collisions at $\sqrt{s}=5.02$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1901.10440 [nucl-ex].
[10.1103/PhysRevC.100.034903](https://arxiv.org/abs/10.1103/PhysRevC.100.034903).
Phys.Rev. C100 (2019) no.3, 034903.

89) Search for scalar resonances decaying into $\mu^+\mu^-$ in events with and without b -tagged jets produced in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1901.08144 [hep-ex].
[10.1007/JHEP07\(2019\)117](https://arxiv.org/abs/10.1007/JHEP07(2019)117).
JHEP 1907 (2019) 117.

90) Measurement of the $t\bar{t}Z$ and $t\bar{t}W$ cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1901.03584 [hep-ex].
[10.1103/PhysRevD.99.072009](https://arxiv.org/abs/10.1103/PhysRevD.99.072009).
Phys.Rev. D99 (2019) no.7, 072009.

91) Search for top-quark decays $t \rightarrow Hq$ with 36 fb^{-1} of pp collision data at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1812.11568 [hep-ex].
[10.1007/JHEP05\(2019\)123](https://arxiv.org/abs/10.1007/JHEP05(2019)123).
JHEP 1905 (2019) 123.

92) Search for chargino and neutralino production in final states with a Higgs boson and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1812.09432 [hep-ex].
[10.1103/PhysRevD.100.012006](https://arxiv.org/abs/10.1103/PhysRevD.100.012006).
Phys.Rev. D100 (2019) no.1, 012006.

93) Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1812.09743 [hep-ex].
[10.1007/JHEP05\(2019\)041](https://arxiv.org/abs/10.1007/JHEP05(2019)041).
JHEP 1905 (2019) 041.

94) Observation of electroweak $W^{\pm}Z$ boson pair production in association with two jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1812.09740 [hep-ex].
[10.1016/j.physletb.2019.05.012](https://doi.org/10.1016/j.physletb.2019.05.012).
Phys.Lett. B793 (2019) 469-492.

96) Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1812.07343 [hep-ex].
[10.1007/JHEP05\(2019\)164](https://doi.org/10.1007/JHEP05(2019)164).
JHEP 1905 (2019) 164.

98) Search for heavy long-lived multicharged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1812.03673 [hep-ex].
[10.1103/PhysRevD.99.052003](https://doi.org/10.1103/PhysRevD.99.052003).
Phys.Rev. D99 (2019) no.5, 052003.

99) Study of the rare decays of B^0_s and B^0 mesons into muon pairs using data collected during 2015 and 2016 with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1812.03017 [hep-ex].
[10.1007/JHEP04\(2019\)098](https://doi.org/10.1007/JHEP04(2019)098).
JHEP 1904 (2019) 098.

100) Measurements of inclusive and differential fiducial cross-sections of $t\bar{t}\gamma$ production in leptonic final states at $\sqrt{s}=13\sim\text{TeV}$ in ATLAS
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1812.01697 [hep-ex].
[10.1140/epjc/s10052-019-6849-6](https://doi.org/10.1140/epjc/s10052-019-6849-6).
Eur.Phys.J. C79 (2019) no.5, 382.

101) Measurements of inclusive and differential fiducial cross-sections of $t\bar{t}$ production with additional heavy-flavour jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1811.12113 [hep-ex].
[10.1007/JHEP04\(2019\)046](https://doi.org/10.1007/JHEP04(2019)046).
JHEP 1904 (2019) 046.

102) Search for Higgs boson pair production in the $WW^{(*)}WW^{(*)}$ decay channel using ATLAS data recorded at $\sqrt{s}=13$ TeV
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1811.11028 [hep-ex].
[10.1007/JHEP05\(2019\)124](https://doi.org/10.1007/JHEP05(2019)124).
JHEP 1905 (2019) 124.

103) Study of the hard double-parton scattering contribution to inclusive four-lepton production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1811.11094 [hep-ex].
[10.1016/j.physletb.2019.01.062](https://doi.org/10.1016/j.physletb.2019.01.062).
Phys.Lett. B790 (2019) 595-614, Phys.Lett. 790 (2019) 595.

- 106) Search for Higgs boson pair production in the $\bar{b}WW^*$ decay mode at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1811.04671 [hep-ex].
[10.1007/JHEP04\(2019\)092](https://arxiv.org/abs/10.1007/JHEP04(2019)092).
JHEP 1904 (2019) 092.
- 108) Search for the Production of a Long-Lived Neutral Particle Decaying within the ATLAS Hadronic Calorimeter in Association with a Z Boson from pp Collisions at $\sqrt{s} = 13$ TeV
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1811.02542 [hep-ex].
[10.1103/PhysRevLett.122.151801](https://arxiv.org/abs/10.1103/PhysRevLett.122.151801).
Phys.Rev.Lett. 122 (2019) no.15, 151801.
- 111) Measurement of the top quark mass in the $\bar{t} \rightarrow \text{lepton} + \text{jets}$ channel from $\sqrt{s}=8$ TeV ATLAS data and combination with previous results
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1810.01772 [hep-ex].
[10.1140/epjc/s10052-019-6757-9](https://arxiv.org/abs/10.1140/epjc/s10052-019-6757-9).
Eur.Phys.J. C79 (2019) no.4, 290.
- 112) Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1809.11105 [hep-ex].
[10.1007/JHEP01\(2019\)016](https://arxiv.org/abs/10.1007/JHEP01(2019)016).
JHEP 1901 (2019) 016.
- 113) Measurement of photon-jet transverse momentum correlations in 5.02 TeV Pb + Pb and pp collisions with ATLAS
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1809.07280 [nucl-ex].
[10.1016/j.physletb.2018.12.023](https://arxiv.org/abs/10.1016/j.physletb.2018.12.023).
Phys.Lett. B789 (2019) 167-190.
- 114) Search for invisible Higgs boson decays in vector boson fusion at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1809.06682 [hep-ex].
[10.1016/j.physletb.2019.04.024](https://arxiv.org/abs/10.1016/j.physletb.2019.04.024).
Phys.Lett. B793 (2019) 499-519.
- 115) A search for pairs of highly collimated photon-jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1808.10515 [hep-ex].
[10.1103/PhysRevD.99.012008](https://arxiv.org/abs/10.1103/PhysRevD.99.012008).
Phys.Rev. D99 (2019) no.1, 012008.
- 117) Performance of top-quark and W -boson tagging with ATLAS in Run 2 of the LHC
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1808.07858 [hep-ex].
[10.1140/epjc/s10052-019-6847-8](https://arxiv.org/abs/10.1140/epjc/s10052-019-6847-8).

Eur.Phys.J. C79 (2019) no.5, 375.

118) Search for squarks and gluinos in final states with hadronically decaying τ -leptons, jets, and missing transverse momentum using pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1808.06358 [hep-ex].

[10.1103/PhysRevD.99.012009](https://arxiv.org/abs/10.1103/PhysRevD.99.012009).

Phys.Rev. D99 (2019) no.1, 012009.

119) Search for heavy charged long-lived particles in proton-proton collisions at $\sqrt{s} = 13$ TeV using an ionisation measurement with the `ATLAS` detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1808.04095 [hep-ex].

[10.1016/j.physletb.2018.10.055](https://arxiv.org/abs/10.1016/j.physletb.2018.10.055).

Phys.Lett. B788 (2019) 96-116.

121) Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1808.01899 [hep-ex].

[10.1140/epjc/s10052-018-6500-y](https://arxiv.org/abs/10.1140/epjc/s10052-018-6500-y).

Eur.Phys.J. C79 (2019) no.1, 58.

122) Search for vector-boson resonances decaying to a top quark and bottom quark in the lepton plus jets final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1807.10473 [hep-ex].

[10.1016/j.physletb.2018.11.032](https://arxiv.org/abs/10.1016/j.physletb.2018.11.032).

Phys.Lett. B788 (2019) 347-370.

123) In situ calibration of large-radius jet energy and mass in 13 TeV proton–proton collisions with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1807.09477 [hep-ex].

[10.1140/epjc/s10052-019-6632-8](https://arxiv.org/abs/10.1140/epjc/s10052-019-6632-8).

Eur.Phys.J. C79 (2019) no.2, 135.

126) Search for Higgs boson decays into a pair of light bosons in the $b\bar{b}\mu\mu$ final state in pp collision at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1807.00539 [hep-ex].

[10.1016/j.physletb.2018.10.073](https://arxiv.org/abs/10.1016/j.physletb.2018.10.073).

Phys.Lett. B790 (2019) 1-21.

128) Search for pair production of Higgs bosons in the $b\bar{b}b\bar{b}$ final state using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1804.06174 [hep-ex].

[10.1007/JHEP01\(2019\)030](https://arxiv.org/abs/10.1007/JHEP01(2019)030).

JHEP 1901 (2019) 030.

5) Properties of $g \rightarrow b \bar{b}$ at small opening angles in pp collisions with the ATLAS detector at $\sqrt{s}=13$ TeV

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1812.09283 [hep-ex].

[10.1103/PhysRevD.99.052004](https://arxiv.org/abs/10.1103/PhysRevD.99.052004).

Phys.Rev. D99 (2019) no.5, 052004.

7) Electron and photon energy calibration with the ATLAS detector using 2015–2016 LHC proton-proton collision data

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1812.03848 [hep-ex].

[10.1088/1748-0221/14/03/P03017](https://arxiv.org/abs/10.1088/1748-0221/14/03/P03017).

JINST 14 (2019) no.03, P03017.

14) Cross-section measurements of the Higgs boson decaying into a pair of τ -leptons in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1811.08856 [hep-ex].

[10.1103/PhysRevD.99.072001](https://arxiv.org/abs/10.1103/PhysRevD.99.072001).

Phys.Rev. D99 (2019) 072001.

15) Search for long-lived particles produced in pp collisions at $\sqrt{s}=13$ TeV that decay into displaced hadronic jets in the ATLAS muon spectrometer

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1811.07370 [hep-ex].

[10.1103/PhysRevD.99.052005](https://arxiv.org/abs/10.1103/PhysRevD.99.052005).

Phys.Rev. D99 (2019) no.5, 052005.

17) Search for four-top-quark production in the single-lepton and opposite-sign dilepton final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1811.02305 [hep-ex].

[10.1103/PhysRevD.99.052009](https://arxiv.org/abs/10.1103/PhysRevD.99.052009).

Phys.Rev. D99 (2019) no.5, 052009.

19) Measurements of W and Z boson production in pp collisions at $\sqrt{s}=5.02$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1810.08424 [hep-ex].

[10.1140/epjc/s10052-019-6870-9](https://arxiv.org/abs/10.1140/epjc/s10052-019-6870-9), [10.1140/epjc/s10052-019-6622-x](https://arxiv.org/abs/10.1140/epjc/s10052-019-6622-x).

Eur.Phys.J. C79 (2019) no.2, 128, Erratum: Eur.Phys.J. C79 (2019) no.5, 374.

20) Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1810.05087 [hep-ex].

[10.1140/epjc/s10052-019-6650-6](https://doi.org/10.1140/epjc/s10052-019-6650-6).
Eur.Phys.J. C79 (2019) no.3, 205.

21) Measurement of the $Z\gamma \rightarrow \nu \overline{\nu} \gamma$ production cross section in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector and limits on anomalous triple gauge-boson couplings

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1810.04995 [hep-ex].

[10.1007/JHEP12\(2018\)010](https://doi.org/10.1007/JHEP12(2018)010).

JHEP 1812 (2018) 010.

28) Measurements of gluon-gluon fusion and vector-boson fusion Higgs boson production cross-sections in the $H \rightarrow WW^{*} \rightarrow e\nu\mu\nu$ decay channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1808.09054 [hep-ex].

[10.1016/j.physletb.2018.11.064](https://doi.org/10.1016/j.physletb.2018.11.064).

Phys.Lett. B789 (2019) 508-529.

29) Observation of $H \rightarrow b\bar{b}$ decays and VH production with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1808.08238 [hep-ex].

[10.1016/j.physletb.2018.09.013](https://doi.org/10.1016/j.physletb.2018.09.013).

Phys.Lett. B786 (2018) 59-86.

32) Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s}_{NN} = 5.02$ TeV Pb+Pb collisions with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1808.03951 [nucl-ex].

[10.1140/epjc/s10052-018-6468-7](https://doi.org/10.1140/epjc/s10052-018-6468-7).

Eur.Phys.J. C78 (2018) no.12, 997.

34) Search for charged Higgs bosons decaying into top and bottom quarks at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1808.03599 [hep-ex].

[10.1007/JHEP11\(2018\)085](https://doi.org/10.1007/JHEP11(2018)085).

JHEP 1811 (2018) 085.

35) Search for long-lived particles in final states with displaced dimuon vertices in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1808.03057 [hep-ex].

[10.1103/PhysRevD.99.012001](https://doi.org/10.1103/PhysRevD.99.012001).

Phys.Rev. D99 (2019) no.1, 012001.

36) Combination of the searches for pair-produced vector-like partners of the third-generation quarks at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1808.02343 [hep-ex].
[10.1103/PhysRevLett.121.211801](https://arxiv.org/abs/10.1103/PhysRevLett.121.211801).
Phys.Rev.Lett. 121 (2018) no.21, 211801.

37) Combination of searches for heavy resonances decaying into bosonic and leptonic final states using 36 fb⁻¹ of proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1808.02380 [hep-ex].
[10.1103/PhysRevD.98.052008](https://arxiv.org/abs/10.1103/PhysRevD.98.052008).
Phys.Rev. D98 (2018) no.5, 052008.

40) Constraints on off-shell Higgs boson production and the Higgs boson total width in $ZZ \rightarrow 4\ell$ and $ZZ \rightarrow 2\ell 2\nu$ final states with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1808.01191 [hep-ex].
[10.1016/j.physletb.2018.09.048](https://arxiv.org/abs/10.1016/j.physletb.2018.09.048).
Phys.Lett. B786 (2018) 223-244.

41) Search for resonant and non-resonant Higgs boson pair production in the $\{b\bar{b}\}\tau^+\tau^-$ decay channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1808.00336 [hep-ex].
[10.1103/PhysRevLett.122.089901](https://arxiv.org/abs/10.1103/PhysRevLett.122.089901), [10.1103/PhysRevLett.121.191801](https://arxiv.org/abs/10.1103/PhysRevLett.121.191801).
Phys.Rev.Lett. 121 (2018) no.19, 191801, Erratum: Phys.Rev.Lett. 122 (2019) no.8, 089901.

42) Search for new phenomena in events with same-charge leptons and b -jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1807.11883 [hep-ex].
[10.1007/JHEP12\(2018\)039](https://arxiv.org/abs/10.1007/JHEP12(2018)039).
JHEP 1812 (2018) 039.

43) Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1807.11471 [hep-ex].
[10.1007/JHEP10\(2018\)180](https://arxiv.org/abs/10.1007/JHEP10(2018)180).
JHEP 1810 (2018) 180.

46) Search for Higgs bosons produced via vector-boson fusion and decaying into bottom quark pairs in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1807.08639 [hep-ex].
[10.1103/PhysRevD.98.052003](https://arxiv.org/abs/10.1103/PhysRevD.98.052003).
Phys.Rev. D98 (2018) no.5, 052003.

47) Search for Higgs boson pair production in the $\gamma\gamma WW^{**}$ channel using pp collision data recorded at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1807.08567 [hep-ex].

[10.1140/epjc/s10052-018-6457-x](https://doi.org/10.1140/epjc/s10052-018-6457-x).

Eur.Phys.J. C78 (2018) no.12, 1007.

49) A strategy for a general search for new phenomena using data-derived signal regions and its application within the ATLAS experiment

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1807.07447 [hep-ex].

[10.1140/epjc/s10052-019-6540-y](https://doi.org/10.1140/epjc/s10052-019-6540-y).

Eur.Phys.J. C79 (2019) no.2, 120.

50) Search for lepton-flavor violation in different-flavor, high-mass final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1807.06573 [hep-ex].

[10.1103/PhysRevD.98.092008](https://doi.org/10.1103/PhysRevD.98.092008).

Phys.Rev. D98 (2018) no.9, 092008.

53) Correlated long-range mixed-harmonic fluctuations measured in pp , $p+Pb$ and low-multiplicity $Pb+Pb$ collisions with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1807.02012 [nucl-ex].

[10.1016/j.physletb.2018.11.065](https://doi.org/10.1016/j.physletb.2018.11.065).

Phys.Lett. B789 (2019) 444-471.

54) Searches for exclusive Higgs and Z boson decays into $J/\psi\gamma$, $\psi(2S)\gamma$, and $\Upsilon(nS)\gamma$ at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1807.00802 [hep-ex].

[10.1016/j.physletb.2018.09.024](https://doi.org/10.1016/j.physletb.2018.09.024).

Phys.Lett. B786 (2018) 134-155.

57) Observation of centrality-dependent acoplanarity for muon pairs produced via two-photon scattering in $Pb+Pb$ collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1806.08708 [nucl-ex].

[10.1103/PhysRevLett.121.212301](https://doi.org/10.1103/PhysRevLett.121.212301).

Phys.Rev.Lett. 121 (2018) no.21, 212301.

59) Probing the quantum interference between singly and doubly resonant top-quark production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1806.04667 [hep-ex].
[10.1103/PhysRevLett.121.152002](https://arxiv.org/abs/10.1103/PhysRevLett.121.152002).
Phys.Rev.Lett. 121 (2018) no.15, 152002.

60) Search for pair production of higgsinos in final states with at least three b -tagged jets in $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1806.04030 [hep-ex].
[10.1103/PhysRevD.98.092002](https://arxiv.org/abs/10.1103/PhysRevD.98.092002).
Phys.Rev. D98 (2018) no.9, 092002.

61) Operation and performance of the ATLAS Tile Calorimeter in Run 1
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1806.02129 [hep-ex].
[10.1140/epjc/s10052-018-6374-z](https://arxiv.org/abs/10.1140/epjc/s10052-018-6374-z).
Eur.Phys.J. C78 (2018) no.12, 987.

62) Search for chargino-neutralino production using recursive jigsaw reconstruction in final states with two or three charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1806.02293 [hep-ex].
[10.1103/PhysRevD.98.092012](https://arxiv.org/abs/10.1103/PhysRevD.98.092012).
Phys.Rev. D98 (2018) no.9, 092012.

63) Search for pair production of heavy vector-like quarks decaying into high- p_T W bosons and top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1806.01762 [hep-ex].
[10.1007/JHEP08\(2018\)048](https://arxiv.org/abs/10.1007/JHEP08(2018)048).
JHEP 1808 (2018) 048.

64) Search for resonant WZ production in the fully leptonic final state in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1806.01532 [hep-ex].
[10.1016/j.physletb.2018.10.021](https://arxiv.org/abs/10.1016/j.physletb.2018.10.021).
Phys.Lett. B787 (2018) 68-88.

65) Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1806.00425 [hep-ex].
[10.1016/j.physletb.2018.07.035](https://arxiv.org/abs/10.1016/j.physletb.2018.07.035).
Phys.Lett. B784 (2018) 173-191.

66) Measurement of the Higgs boson mass in the $H \rightarrow ZZ^* \rightarrow 4\ell$ and $H \rightarrow \gamma\gamma$ channels with $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1806.00242 [hep-ex].
[10.1016/j.physletb.2018.07.050](https://arxiv.org/abs/10.1016/j.physletb.2018.07.050).
Phys.Lett. B784 (2018) 345-366.

67) Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in $\sqrt{s}=13$ TeV TeV V pp collisions with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1805.11381 [hep-ex].
[10.1140/epjc/s10052-018-6081-9](https://arxiv.org/abs/10.1140/epjc/s10052-018-6081-9).
Eur.Phys.J. C78 (2018) no.8, 625.

68) Combined measurement of differential and total cross sections in the $\text{H} \rightarrow \gamma\gamma$ and the $\text{H} \rightarrow \text{ZZ}^* \rightarrow 4\ell$ decay channels at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1805.10197 [hep-ex].
[10.1016/j.physletb.2018.09.019](https://arxiv.org/abs/10.1016/j.physletb.2018.09.019).
Phys.Lett. B786 (2018) 114-133.

70) Measurement of the nuclear modification factor for inclusive jets in Pb+Pb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1805.05635 [nucl-ex].
[10.1016/j.physletb.2018.10.076](https://arxiv.org/abs/10.1016/j.physletb.2018.10.076).
Phys.Lett. B790 (2019) 108-128.

71) Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1805.05424 [nucl-ex].
[10.1103/PhysRevC.98.024908](https://arxiv.org/abs/10.1103/PhysRevC.98.024908).
Phys.Rev. C98 (2018) no.2, 024908.

72) Measurement of dijet azimuthal decorrelations in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector and determination of the strong coupling
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1805.04691 [hep-ex].
[10.1103/PhysRevD.98.092004](https://arxiv.org/abs/10.1103/PhysRevD.98.092004).
Phys.Rev. D98 (2018) no.9, 092004.

73) Measurement of the suppression and azimuthal anisotropy of muons from heavy-flavor decays in Pb+Pb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1805.05220 [nucl-ex].
[10.1103/PhysRevC.98.044905](https://arxiv.org/abs/10.1103/PhysRevC.98.044905).
Phys.Rev. C98 (2018) no.4, 044905.

74) Search for flavor-changing neutral currents in top quark decays $t \rightarrow Hc$ and $t \rightarrow Hu$ in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1805.03483 [hep-ex].

[10.1103/PhysRevD.98.032002](https://arxiv.org/abs/10.1103/PhysRevD.98.032002).

Phys.Rev. D98 (2018) no.3, 032002.

75) Angular analysis of $B^0_d \rightarrow K^{*} \mu^+ \mu^-$ decays in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1805.04000 [hep-ex].

[10.1007/JHEP10\(2018\)047](https://arxiv.org/abs/10.1007/JHEP10(2018)047).

JHEP 1810 (2018) 047.

76) Prompt and non-prompt J/ψ and $\psi(2\text{S})$ suppression at high transverse momentum in $5.02 \sim 8.76$ TeV Pb+Pb collisions with the ATLAS experiment

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1805.04077 [nucl-ex].

[10.1140/epjc/s10052-018-6219-9](https://arxiv.org/abs/10.1140/epjc/s10052-018-6219-9).

Eur.Phys.J. C78 (2018) no.9, 762.

77) Measurement of colour flow using jet-pull observables in $t\bar{t}$ events with the ATLAS experiment at $\sqrt{s} = 13$ TeV

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1805.02935 [hep-ex].

[10.1140/epjc/s10052-018-6290-2](https://arxiv.org/abs/10.1140/epjc/s10052-018-6290-2).

Eur.Phys.J. C78 (2018) no.10, 847.

78) Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1805.01649 [hep-ex].

[10.1007/JHEP09\(2018\)050](https://arxiv.org/abs/10.1007/JHEP09(2018)050).

JHEP 1809 (2018) 050.

79) Search for heavy resonances decaying to a photon and a hadronically decaying $Z/W/H$ boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1805.01908 [hep-ex].

[10.1103/PhysRevD.98.032015](https://arxiv.org/abs/10.1103/PhysRevD.98.032015).

Phys.Rev. D98 (2018) no.3, 032015.

80) Measurements of b-jet tagging efficiency with the ATLAS detector using $t\bar{t}$ events at $\sqrt{s} = 13$ TeV

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1805.01845 [hep-ex].

[10.1007/JHEP08\(2018\)089](https://arxiv.org/abs/10.1007/JHEP08(2018)089).

JHEP 1808 (2018) 089.

81) Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1804.10823 [hep-ex].

[10.1140/epjc/s10052-018-5995-6](https://doi.org/10.1140/epjc/s10052-018-5995-6).

Eur.Phys.J. C78 (2018) no.7, 565.

82) A search for lepton-flavor-violating decays of the Z boson into a τ -lepton and a light lepton with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1804.09568 [hep-ex].

[10.1103/PhysRevD.98.092010](https://doi.org/10.1103/PhysRevD.98.092010).

Phys.Rev. D98 (2018) 092010.

84) Search for R-parity-violating supersymmetric particles in multi-jet final states produced in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector at the LHC

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1804.03568 [hep-ex].

[10.1016/j.physletb.2018.08.021](https://doi.org/10.1016/j.physletb.2018.08.021).

Phys.Lett. B785 (2018) 136-158.

85) Search for supersymmetry in events with four or more leptons in $\sqrt{s} = 13$ TeV pp collisions with ATLAS

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1804.03602 [hep-ex].

[10.1103/PhysRevD.98.032009](https://doi.org/10.1103/PhysRevD.98.032009).

Phys.Rev. D98 (2018) no.3, 032009.

86) Search for low-mass dijet resonances using trigger-level jets with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV

By ATLAS Collaboration (M. Aaboud et al.).

arXiv:1804.03496 [hep-ex].

[10.1103/PhysRevLett.121.081801](https://doi.org/10.1103/PhysRevLett.121.081801).

Phys.Rev.Lett. 121 (2018) no.8, 081801.

87) Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $\ell\ell b\bar{b}$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1804.01126 [hep-ex].

[10.1016/j.physletb.2018.07.006](https://doi.org/10.1016/j.physletb.2018.07.006).

Phys.Lett. B783 (2018) 392-414.

88) Search for Higgs boson decays into pairs of light (pseudo)scalar particles in the $\gamma\gamma jj$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1803.11145 [hep-ex].

[10.1016/j.physletb.2018.06.011](https://doi.org/10.1016/j.physletb.2018.06.011).
Phys.Lett. B782 (2018) 750-767.

89) Search for top squarks decaying to tau sleptons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1803.10178 [hep-ex].
[10.1103/PhysRevD.98.032008](https://doi.org/10.1103/PhysRevD.98.032008).
Phys.Rev. D98 (2018) no.3, 032008.

90) Search for flavour-changing neutral current top-quark decays $t \rightarrow qZ$ in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1803.09923 [hep-ex].
[10.1007/JHEP07\(2018\)176](https://doi.org/10.1007/JHEP07(2018)176).
JHEP 1807 (2018) 176.

91) Search for pair production of up-type vector-like quarks and for four-top-quark events in final states with multiple b -jets with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1803.09678 [hep-ex].
[10.1007/JHEP07\(2018\)089](https://doi.org/10.1007/JHEP07(2018)089).
JHEP 1807 (2018) 089.

92) Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1803.02762 [hep-ex].
[10.1140/epjc/s10052-018-6423-7](https://doi.org/10.1140/epjc/s10052-018-6423-7).
Eur.Phys.J. C78 (2018) no.12, 995.

93) Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1802.08168 [hep-ex].
[10.1140/epjc/s10052-018-6288-9](https://doi.org/10.1140/epjc/s10052-018-6288-9).
Eur.Phys.J. C78 (2018) no.11, 903.

94) Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1802.06572 [hep-ex].
[10.1007/JHEP10\(2018\)159](https://doi.org/10.1007/JHEP10(2018)159).
JHEP 1810 (2018) 159.

95) Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1802.04329 [hep-ex].
[10.1103/PhysRevLett.120.211802](https://doi.org/10.1103/PhysRevLett.120.211802).
Phys.Rev.Lett. 120 (2018) no.21, 211802.

- 96) Measurements of Higgs boson properties in the diphoton decay channel with 36 fb⁻¹ of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1802.04146 [hep-ex].
[10.1103/PhysRevD.98.052005](https://arxiv.org/abs/1802.04146).
Phys.Rev. D98 (2018) 052005.
- 97) Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at $\sqrt{s}=13$ TeV
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1802.03388 [hep-ex].
[10.1007/JHEP06\(2018\)166](https://arxiv.org/abs/1802.03388).
JHEP 1806 (2018) 166.
- 98) Search for photonic signatures of gauge-mediated supersymmetry in 13 TeV pp collisions with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1802.03158 [hep-ex].
[10.1103/PhysRevD.97.092006](https://arxiv.org/abs/1802.03158).
Phys.Rev. D97 (2018) no.9, 092006.
- 99) Search for a Structure in the $B^0_s \rightarrow \pi^0 \mu^+ \mu^-$ Invariant Mass Spectrum with the ATLAS Experiment
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1802.01840 [hep-ex].
[10.1103/PhysRevLett.120.202007](https://arxiv.org/abs/1802.01840).
Phys.Rev.Lett. 120 (2018) no.20, 202007.
- 100) Search for light resonances decaying to boosted quark pairs and produced in association with a photon or a jet in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1801.08769 [hep-ex].
[10.1016/j.physletb.2018.09.062](https://arxiv.org/abs/1801.08769).
Phys.Lett. B788 (2019) 316-335.
- 101) Search for $W' \rightarrow tb$ decays in the hadronic final state using pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1801.07893 [hep-ex].
[10.1016/j.physletb.2018.03.036](https://arxiv.org/abs/1801.07893).
Phys.Lett. B781 (2018) 327-348.
- 102) Search for High-Mass Resonances Decaying to $\tau\nu$ in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1801.06992 [hep-ex].
[10.1103/PhysRevLett.120.161802](https://arxiv.org/abs/1801.06992).
Phys.Rev.Lett. 120 (2018) no.16, 161802.

103) Measurements of $t\bar{t}$ differential cross-sections of highly boosted top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1801.02052 [hep-ex].

[10.1103/PhysRevD.98.012003](https://arxiv.org/abs/1801.02052).

Phys.Rev. D98 (2018) no.1, 012003.

104) Measurement of the cross section for isolated-photon plus jet production in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1801.00112 [hep-ex].

[10.1016/j.physletb.2018.03.035](https://arxiv.org/abs/1801.00112).

Phys.Lett. B780 (2018) 578-602.

107) Search for electroweak production of supersymmetric states in scenarios with compressed mass spectra at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1712.08119 [hep-ex].

[10.1103/PhysRevD.97.052010](https://arxiv.org/abs/1712.08119).

Phys.Rev. D97 (2018) no.5, 052010.

108) Measurement of the production cross section of three isolated photons in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1712.07291 [hep-ex].

[10.1016/j.physletb.2018.03.057](https://arxiv.org/abs/1712.07291).

Phys.Lett. B781 (2018) 55-76.

110) Search for heavy ZZ resonances in the $\ell\ell^+\ell\ell^-$ and $\ell\ell^+\ell\ell^-\nu\bar{\nu}$ final states using proton–proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (M. Aaboud et al.).

arXiv:1712.06386 [hep-ex].

[10.1140/epjc/s10052-018-5686-3](https://arxiv.org/abs/1712.06386).

Eur.Phys.J. C78 (2018) no.4, 293.

111) Search for exclusive Higgs and ZS boson decays to $\phi\gamma$ and $\rho\gamma$ with the ATLAS detector

By ATLAS Collaboration (M. Aaboud et al.).

arXiv:1712.02758 [hep-ex].

[10.1007/JHEP07\(2018\)127](https://arxiv.org/abs/1712.02758).

JHEP 1807 (2018) 127.

112) Search for squarks and gluinos in final states with jets and missing transverse momentum using 36 fb^{-1} of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1712.02332 [hep-ex].

[10.1103/PhysRevD.97.112001.](#)
Phys.Rev. D97 (2018) no.11, 112001.

115) Measurement of differential cross-sections of a single top quark produced in association with a W boson at $\sqrt{s}=13$ TeV with ATLAS
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1712.01602 [hep-ex].
[10.1140/epjc/s10052-018-5649-8.](#)
Eur.Phys.J. C78 (2018) no.3, 186.

116) Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb^{-1} of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1711.11520 [hep-ex].
[10.1007/JHEP06\(2018\)108.](#)
JHEP 1806 (2018) 108.

117) Measurement of the Soft-Drop Jet Mass in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1711.08341 [hep-ex].
[10.1103/PhysRevLett.121.092001.](#)
Phys.Rev.Lett. 121 (2018) no.9, 092001.

119) Measurement of differential cross sections and W^+/W^- cross-section ratios for W boson production in association with jets at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1711.03296 [hep-ex].
[10.1007/JHEP05\(2018\)077.](#)
JHEP 1805 (2018) 077.

121) Search for supersymmetry in final states with missing transverse momentum and multiple b -jets in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1711.01901 [hep-ex].
[10.1007/JHEP06\(2018\)107.](#)
JHEP 1806 (2018) 107.

122) Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1710.11412 [hep-ex].
[10.1140/epjc/s10052-017-5486-1.](#)
Eur.Phys.J. C78 (2018) no.1, 18.

123) Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton–proton collisions at $\sqrt{s}=13\text{ TeV}$
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1710.09748 [hep-ex].
[10.1140/epjc/s10052-018-5661-z](https://arxiv.org/abs/1710.09748), [10.1140/EPJC/S10052-018-5661-Z](https://arxiv.org/abs/1710.09748).
Eur.Phys.J. C78 (2018) no.3, 199.

125) Search for WW/WZ resonance production in $\ell\ell\nu qq$ final states in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1710.07235 [hep-ex].
[10.1007/JHEP03\(2018\)042](https://arxiv.org/abs/1710.07235).
JHEP 1803 (2018) 042.

127) Search for B-L R -parity-violating top squarks in $\sqrt{s}=13\text{ TeV}$ pp collisions with the ATLAS experiment
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1710.05544 [hep-ex].
[10.1103/PhysRevD.97.032003](https://arxiv.org/abs/1710.05544).
Phys.Rev. D97 (2018) no.3, 032003.

128) Search for long-lived, massive particles in events with displaced vertices and missing transverse momentum in $\sqrt{s}=13\text{ TeV}$ pp collisions with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1710.04901 [hep-ex].
[10.1103/PhysRevD.97.052012](https://arxiv.org/abs/1710.04901).
Phys.Rev. D97 (2018) no.5, 052012.

129) Measurement of the production cross-section of a single top quark in association with a Z boson in proton–proton collisions at 13 TeV with the ATLAS detector
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1710.03659 [hep-ex].
[10.1016/j.physletb.2018.03.023](https://arxiv.org/abs/1710.03659).
Phys.Lett. B780 (2018) 557-577.

132) $ZZ \rightarrow \ell\ell^+\ell\ell^-\ell\ell^{\prime+}\ell\ell^{\prime-}$ cross-section measurements and search for anomalous triple gauge couplings in 13 TeV pp collisions with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1709.07703 [hep-ex].
[10.1103/PhysRevD.97.032005](https://arxiv.org/abs/1709.07703).
Phys.Rev. D97 (2018) no.3, 032005.

133) Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb^{-1} of pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1709.07242 [hep-ex].

[10.1007/JHEP01\(2018\)055](https://arxiv.org/abs/1709.06783).

JHEP 1801 (2018) 055.

134) A search for resonances decaying into a Higgs boson and a new particle X in the $XH \rightarrow q\bar{q}b\bar{b}$ final state with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1709.06783 [hep-ex].

[10.1016/j.physletb.2018.01.042](https://arxiv.org/abs/1709.06783).

Phys.Lett. B779 (2018) 24-45.

135) Combination of inclusive and differential $\overline{t}t$ charge asymmetry measurements using ATLAS and CMS data at $\sqrt{s}=7$ and 8 TeV

By ATLAS and CMS Collaborations (Morad Aaboud et al.).

arXiv:1709.05327 [hep-ex].

[10.1007/JHEP04\(2018\)033](https://arxiv.org/abs/1709.05327).

JHEP 1804 (2018) 033.

137) Measurement of τ polarisation in $Z\gamma \rightarrow \tau\tau$ decays in proton–proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1709.03490 [hep-ex].

[10.1140/epjc/s10052-018-5619-1](https://arxiv.org/abs/1709.03490).

Eur.Phys.J. C78 (2018) no.2, 163.

138) Measurement of quarkonium production in proton–lead and proton–proton collisions at $5.02 \sim \mathcal{O}(\text{TeV})$ with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1709.03089 [nucl-ex].

[10.1140/epjc/s10052-018-5624-4](https://arxiv.org/abs/1709.03089).

Eur.Phys.J. C78 (2018) no.3, 171.

139) Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ and 5.02 TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1709.02301 [nucl-ex].

[10.1140/epjc/s10052-018-5605-7](https://arxiv.org/abs/1709.02301).

Eur.Phys.J. C78 (2018) no.2, 142.

140) Search for an invisibly decaying Higgs boson or dark matter candidates produced in association with a Z boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (M. Aaboud et al.).

arXiv:1708.09624 [hep-ex].

[10.1016/j.physletb.2017.11.049](https://arxiv.org/abs/1708.09624).

Phys.Lett. B776 (2018) 318-337.

141) Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1708.07875 [hep-ex].
[10.1140/epjc/s10052-018-5583-9](https://arxiv.org/abs/10.1140/epjc/s10052-018-5583-9).
Eur.Phys.J. C78 (2018) no.2, 154.

142) Search for diboson resonances with boson-tagged jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1708.04445 [hep-ex].
[10.1016/j.physletb.2017.12.011](https://arxiv.org/abs/10.1016/j.physletb.2017.12.011).
Phys.Lett. B777 (2018) 91-113.

143) Measurement of the exclusive $\gamma \gamma \rightarrow \mu^+ \mu^-$ process in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1708.04053 [hep-ex].
[10.1016/j.physletb.2017.12.043](https://arxiv.org/abs/10.1016/j.physletb.2017.12.043).
Phys.Lett. B777 (2018) 303-323.

148) Search for pair and single production of vectorlike quarks in final states with at least one Z boson decaying into a pair of electrons or muons in pp collision data collected with the ATLAS detector at $s=13$ TeV, Physical Review D 98 (2018)

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2) Search for the standard model Higgs boson produced in association with top quarks and decaying into a $b\bar{b}$ pair in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1712.08895 [hep-ex].
[10.1103/PhysRevD.97.072016](https://arxiv.org/abs/10.1103/PhysRevD.97.072016).
Phys.Rev. D97 (2018) no.7, 072016.

3) Evidence for the associated production of the Higgs boson and a top quark pair with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1712.08891 [hep-ex].
[10.1103/PhysRevD.97.072003](https://arxiv.org/abs/10.1103/PhysRevD.97.072003).
Phys.Rev. D97 (2018) no.7, 072003.

6) Measurement of the inclusive and fiducial $t\bar{t}$ production cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1712.06857 [hep-ex].
[10.1140/epjc/s10052-018-5904-z](https://arxiv.org/abs/10.1140/epjc/s10052-018-5904-z).
Eur.Phys.J. C78 (2018) 487.

7) Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b -jets in 36 fb^{-1} of $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1712.06518 [hep-ex].

[10.1007/JHEP03\(2018\)174](https://arxiv.org/abs/10.1007/JHEP03(2018)174), [10.1007/JHEP11\(2018\)051](https://arxiv.org/abs/10.1007/JHEP11(2018)051).

JHEP 1803 (2018) 174, Erratum: JHEP 1811 (2018) 051.

11) Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ^{*} \rightarrow 4\ell$ decay channel at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1712.02304 [hep-ex].

[10.1007/JHEP03\(2018\)095](https://arxiv.org/abs/10.1007/JHEP03(2018)095).

JHEP 1803 (2018) 095.

12) Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1712.02118 [hep-ex].

[10.1007/JHEP06\(2018\)022](https://arxiv.org/abs/10.1007/JHEP06(2018)022).

JHEP 1806 (2018) 022.

16) Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1711.03301 [hep-ex].

[10.1007/JHEP01\(2018\)126](https://arxiv.org/abs/10.1007/JHEP01(2018)126).

JHEP 1801 (2018) 126.

18) Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector

By ATLAS Collaboration (M. Aaboud et al.).

arXiv:1711.02692 [hep-ex].

[10.1007/JHEP05\(2018\)195](https://arxiv.org/abs/10.1007/JHEP05(2018)195).

JHEP 1805 (2018) 195.

22) Measurement of differential cross sections of isolated-photon plus heavy-flavour jet production in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ using the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1710.09560 [hep-ex].

[10.1016/j.physletb.2017.11.054](https://arxiv.org/abs/10.1016/j.physletb.2017.11.054).

Phys.Lett. B776 (2018) 295-317.

24) A search for pair-produced resonances in four-jet final states at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1710.07171 [hep-ex].
[10.1140/epjc/s10052-018-5693-4](https://doi.org/10.1140/epjc/s10052-018-5693-4).
Eur.Phys.J. C78 (2018) no.3, 250.

26) Measurement of the Drell-Yan triple-differential cross section in pp collisions at $\sqrt{s} = 8$ TeV
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1710.05167 [hep-ex].
[10.1007/JHEP12\(2017\)059](https://doi.org/10.1007/JHEP12(2017)059).
JHEP 1712 (2017) 059.

29) Search for heavy resonances decaying into WW in the $e\nu\mu\nu$ final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1710.01123 [hep-ex].
[10.1140/epjc/s10052-017-5491-4](https://doi.org/10.1140/epjc/s10052-017-5491-4).
Eur.Phys.J. C78 (2018) no.1, 24.

31) Measurement of the cross-section for electroweak production of dijets in association with a Z boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1709.10264 [hep-ex].
[10.1016/j.physletb.2017.10.040](https://doi.org/10.1016/j.physletb.2017.10.040).
Phys.Lett. B775 (2017) 206-228.

32) Measurement of lepton differential distributions and the top quark mass in $t\bar{t}$ production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1709.09407 [hep-ex].
[10.1140/epjc/s10052-017-5349-9](https://doi.org/10.1140/epjc/s10052-017-5349-9).
Eur.Phys.J. C77 (2017) no.11, 804.

34) Study of ordered hadron chains with the ATLAS detector
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1709.07384 [hep-ex].
[10.1103/PhysRevD.96.092008](https://doi.org/10.1103/PhysRevD.96.092008).
Phys.Rev. D96 (2017) no.9, 092008.

38) Direct top-quark decay width measurement in the $t\bar{t}$ lepton+jets channel at $\sqrt{s}=8$ TeV with the ATLAS experiment
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1709.04207 [hep-ex].
[10.1140/epjc/s10052-018-5595-5](https://doi.org/10.1140/epjc/s10052-018-5595-5).
Eur.Phys.J. C78 (2018) no.2, 129.

39) Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1709.04183 [hep-ex].

[10.1007/JHEP12\(2017\)085](https://arxiv.org/abs/1709.04183).

JHEP 1712 (2017) 085.

43) Searches for heavy ZZ and ZW resonances in the $\ell\ell qq$ and $\nu\nu qq$ final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1708.09638 [hep-ex].

[10.1007/JHEP03\(2018\)009](https://arxiv.org/abs/1708.09638).

JHEP 1803 (2018) 009.

45) Search for supersymmetry in events with b -tagged jets and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1708.09266 [hep-ex].

[10.1007/JHEP11\(2017\)195](https://arxiv.org/abs/1708.09266).

JHEP 1711 (2017) 195.

46) Search for squarks and gluinos in events with an isolated lepton, jets, and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1708.08232 [hep-ex].

[10.1103/PhysRevD.96.112010](https://arxiv.org/abs/1708.08232).

Phys.Rev. D96 (2017) no.11, 112010.

48) Search for diboson resonances with boson-tagged jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1708.04445 [hep-ex].

[10.1016/j.physletb.2017.12.011](https://arxiv.org/abs/1708.04445).

Phys.Lett. B777 (2018) 91-113.

51) Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector

By ATLAS Collaboration (M. Aaboud et al.).

arXiv:1708.03299 [hep-ex].

[10.1007/JHEP12\(2017\)024](https://arxiv.org/abs/1708.03299).

JHEP 1712 (2017) 024.

52) Search for direct top squark pair production in final states with two leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector

By ATLAS Collaboration (M. Aaboud et al.).

arXiv:1708.03247 [hep-ex].

[10.1140/epjc/s10052-017-5445-x](https://arxiv.org/abs/1708.03247).

Eur.Phys.J. C77 (2017) no.12, 898.

53) Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1708.02810 [hep-ex].

[10.1007/JHEP10\(2017\)132](https://arxiv.org/abs/10.1007/JHEP10(2017)132).

JHEP 1710 (2017) 132.

54) Search for new phenomena with large jet multiplicities and missing transverse momentum using large-radius jets and flavour-tagging at ATLAS in 13 TeV pp collisions

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1708.02794 [hep-ex].

[10.1007/JHEP12\(2017\)034](https://arxiv.org/abs/10.1007/JHEP12(2017)034).

JHEP 1712 (2017) 034.

55) Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector

By ATLAS Collaboration (M. Aaboud et al.).

arXiv:1708.00727 [hep-ex].

[10.1007/JHEP11\(2017\)191](https://arxiv.org/abs/10.1007/JHEP11(2017)191).

JHEP 1711 (2017) 191.

56) Searches for the $Z\gamma$ decay mode of the Higgs boson and for new high-mass resonances in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (M. Aaboud et al.).

arXiv:1708.00212 [hep-ex].

[10.1007/JHEP10\(2017\)112](https://arxiv.org/abs/10.1007/JHEP10(2017)112).

JHEP 1710 (2017) 112.

57) Search for heavy resonances decaying to a WW or ZZ boson and a Higgs boson in the $q\bar{q} \rightarrow (\prime) b\bar{b}$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1707.06958 [hep-ex].

[10.1016/j.physletb.2017.09.066](https://arxiv.org/abs/10.1016/j.physletb.2017.09.066).

Phys.Lett. B774 (2017) 494-515.

58) Search for Heavy Higgs Bosons A/H Decaying to a Top Quark Pair in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1707.06025 [hep-ex].

[10.1103/PhysRevLett.119.191803](https://arxiv.org/abs/10.1103/PhysRevLett.119.191803).

Phys.Rev.Lett. 119 (2017) no.19, 191803.

59) Study of $WW\gamma$ and $WZ\gamma$ production in pp collisions at $\sqrt{s} = 8$ TeV and search for anomalous quartic gauge couplings with the ATLAS experiment

By ATLAS Collaboration (M. Aaboud et al.).

arXiv:1707.05597 [hep-ex].

[10.1140/epjc/s10052-017-5180-3](https://arxiv.org/abs/10.1140/epjc/s10052-017-5180-3).

Eur.Phys.J. C77 (2017) no.9, 646.

60) Analysis of the Wtb vertex from the measurement of triple-differential angular decay rates of single top quarks produced in the t -channel at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1707.05393 [hep-ex].

[10.1007/JHEP12\(2017\)017](https://arxiv.org/abs/10.1007/JHEP12(2017)017).

JHEP 1712 (2017) 017.

61) Search for new phenomena in high-mass diphoton final states using 37 fb⁻¹ of proton-proton collisions collected at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1707.04147 [hep-ex].

[10.1016/j.physletb.2017.10.039](https://arxiv.org/abs/10.1016/j.physletb.2017.10.039).

Phys.Lett. B775 (2017) 105-125.

62) Search for pair production of heavy vector-like quarks decaying to high- p_T W bosons and b quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (M. Aaboud et al.).

arXiv:1707.03347 [hep-ex].

[10.1007/JHEP10\(2017\)141](https://arxiv.org/abs/10.1007/JHEP10(2017)141).

JHEP 1710 (2017) 141.

63) Measurement of detector-corrected observables sensitive to the anomalous production of events with jets and large missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1707.03263 [hep-ex].

[10.1140/epjc/s10052-017-5315-6](https://arxiv.org/abs/10.1140/epjc/s10052-017-5315-6).

Eur.Phys.J. C77 (2017) no.11, 765.

64) Study of the material of the ATLAS inner detector for Run 2 of the LHC

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1707.02826 [hep-ex].

[10.1088/1748-0221/12/12/P12009](https://arxiv.org/abs/10.1088/1748-0221/12/12/P12009).

JINST 12 (2017) no.12, P12009.

65) Determination of the strong coupling constant α_s from transverse energy-energy correlations in multijet events at $\sqrt{s} = 8$ TeV using the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1707.02562 [hep-ex].

[10.1140/epjc/s10052-017-5442-0](https://arxiv.org/abs/10.1140/epjc/s10052-017-5442-0).

Eur.Phys.J. C77 (2017) no.12, 872.

66) Search for new high-mass phenomena in the dilepton final state using 36 fb⁻¹ of proton-proton collision data at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1707.02424 [hep-ex].

[10.1007/JHEP10\(2017\)182](https://arxiv.org/abs/10.1007/JHEP10(2017)182).

JHEP 1710 (2017) 182.

67) Search for top quark decays $t \rightarrow qH$, with $H \rightarrow \gamma\gamma$, in $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1707.01404 [hep-ex].

[10.1007/JHEP10\(2017\)129](https://arxiv.org/abs/10.1007/JHEP10(2017)129).

JHEP 1710 (2017) 129.

68) Search for Dark Matter Produced in Association with a Higgs Boson Decaying to $b\bar{b}$ using 36 fb^{-1} of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1707.01302 [hep-ex].

[10.1103/PhysRevLett.119.181804](https://arxiv.org/abs/10.1103/PhysRevLett.119.181804).

Phys.Rev.Lett. 119 (2017) no.18, 181804.

69) Measurement of jet $p_{\perp\{\mathrm{T}\}}$ correlations in Pb+Pb and pp collisions at $\sqrt{s_{\{\mathrm{NN}\}}}=2.76$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1706.09363 [hep-ex].

[10.1016/j.physletb.2017.09.078](https://arxiv.org/abs/10.1016/j.physletb.2017.09.078).

Phys.Lett. B774 (2017) 379-402.

70) Search for a new heavy gauge boson resonance decaying into a lepton and missing transverse momentum in 36 fb^{-1} of pp collisions at $\sqrt{s}=13$ TeV with the ATLAS experiment

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1706.04786 [hep-ex].

[10.1140/epjc/s10052-018-5877-y](https://arxiv.org/abs/10.1140/epjc/s10052-018-5877-y).

Eur.Phys.J. C78 (2018) no.5, 401.

72) Search for dark matter in association with a Higgs boson decaying to two photons at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1706.03948 [hep-ex].

[10.1103/PhysRevD.96.112004](https://arxiv.org/abs/10.1103/PhysRevD.96.112004).

Phys.Rev. D96 (2017) no.11, 112004.

74) Measurement of the inclusive jet cross-sections in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1706.03192 [hep-ex].

[10.1007/JHEP09\(2017\)020](https://arxiv.org/abs/10.1007/JHEP09(2017)020).

JHEP 1709 (2017) 020.

75) Measurement of the $t\bar{t}\gamma$ production cross section in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1706.03046 [hep-ex].

[10.1007/JHEP11\(2017\)086](https://arxiv.org/abs/1706.02859).

JHEP 1711 (2017) 086.

76) Measurement of jet fragmentation in 5.02 TeV proton-lead and proton-proton collisions with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1706.02859 [hep-ex].

[10.1016/j.nuclphysa.2018.07.006](https://arxiv.org/abs/1706.02859).

Nucl.Phys. A978 (2018) 65.

77) Measurement of $WW/WZ \rightarrow \ell \ell \nu q q^{\prime}$ production with the hadronically decaying boson reconstructed as one or two jets in pp collisions at $\sqrt{s}=8$ TeV with ATLAS, and constraints on anomalous gauge couplings

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1706.01702 [hep-ex].

[10.1140/epjc/s10052-017-5084-2](https://arxiv.org/abs/1706.01702).

Eur.Phys.J. C77 (2017) no.8, 563.

78) Search for pair production of vector-like top quarks in events with one lepton, jets, and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1705.10751 [hep-ex].

[10.1007/JHEP08\(2017\)052](https://arxiv.org/abs/1705.10751).

JHEP 1708 (2017) 052.

79) Search for the dimuon decay of the Higgs boson in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1705.04582 [hep-ex].

[10.1103/PhysRevLett.119.051802](https://arxiv.org/abs/1705.04582).

Phys.Rev.Lett. 119 (2017) no.5, 051802.

80) Measurement of multi-particle azimuthal correlations in pp , $p+Pb$ and low-multiplicity $Pb+Pb$ collisions with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1705.04176 [hep-ex].

[10.1140/epjc/s10052-017-4988-1](https://arxiv.org/abs/1705.04176).

Eur.Phys.J. C77 (2017) no.6, 428.

81) Measurement of $b\bar{b}$ -hadron pair production with the ATLAS detector in proton-proton collisions at $\sqrt{s}=8$ TeV

By ATLAS Collaboration (M. Aaboud et al.).

arXiv:1705.03374 [hep-ex].

[10.1007/JHEP11\(2017\)062](https://arxiv.org/abs/1705.03374).

JHEP 1711 (2017) 062.

82) Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1705.02211 [hep-ex].

[10.1140/epjc/s10052-017-5245-3](https://doi.org/10.1140/epjc/s10052-017-5245-3), [10.1140/epjc/s10052-017-5081-5](https://doi.org/10.1140/epjc/s10052-017-5081-5).
Eur.Phys.J. C77 (2017) no.9, 580, Erratum: Eur.Phys.J. C77 (2017) no.10, 712.

83) Studies of $Z\gamma$ production in association with a high-mass dijet system in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1705.01966 [hep-ex].
[10.1007/JHEP07\(2017\)107](https://doi.org/10.1007/JHEP07(2017)107).
JHEP 1707 (2017) 107.

84) Search for new phenomena in a lepton plus high jet multiplicity final state with the ATLAS experiment using $\sqrt{s}=13$ TeV proton-proton collision data
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1704.08493 [hep-ex].
[10.1007/JHEP09\(2017\)088](https://doi.org/10.1007/JHEP09(2017)088).
JHEP 1709 (2017) 088.

85) Performance of the ATLAS Track Reconstruction Algorithms in Dense Environments in LHC Run 2
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1704.07983 [hep-ex].
[10.1140/epjc/s10052-017-5225-7](https://doi.org/10.1140/epjc/s10052-017-5225-7).
Eur.Phys.J. C77 (2017) no.10, 673.

86) Search for dark matter at $\sqrt{s}=13$ TeV in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1704.03848 [hep-ex].
[10.1140/epjc/s10052-017-4965-8](https://doi.org/10.1140/epjc/s10052-017-4965-8).
Eur.Phys.J. C77 (2017) no.6, 393.

87) Measurements of integrated and differential cross sections for isolated photon pair production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1704.03839 [hep-ex].
[10.1103/PhysRevD.95.112005](https://doi.org/10.1103/PhysRevD.95.112005).
Phys.Rev. D95 (2017) no.11, 112005.

88) Femtoscopy with identified charged pions in proton-lead collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV with ATLAS
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1704.01621 [hep-ex].
[10.1103/PhysRevC.96.064908](https://doi.org/10.1103/PhysRevC.96.064908).
Phys.Rev. C96 (2017) no.6, 064908.

89) Measurement of the k_{t} splitting scales in $Z \rightarrow \ell\ell$ events in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1704.01530 [hep-ex].
[10.1007/JHEP08\(2017\)026](https://doi.org/10.1007/JHEP08(2017)026).
JHEP 1708 (2017) 026.

- 90) Jet reconstruction and performance using particle flow with the ATLAS Detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1703.10485 [hep-ex].
[10.1140/epjc/s10052-017-5031-2](https://doi.org/10.1140/epjc/s10052-017-5031-2).
Eur.Phys.J. C77 (2017) no.7, 466.
- 91) Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1703.09665 [hep-ex].
[10.1103/PhysRevD.96.072002](https://doi.org/10.1103/PhysRevD.96.072002).
Phys.Rev. D96 (2017) no.7, 072002.
- 93) Measurements of electroweak W_{jj} production and constraints on anomalous gauge couplings with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1703.04362 [hep-ex].
[10.1140/epjc/s10052-017-5007-2](https://doi.org/10.1140/epjc/s10052-017-5007-2).
Eur.Phys.J. C77 (2017) no.7, 474.
- 94) Measurement of the $t\bar{t}$ production cross section in the $\tau + \text{jets}$ final state in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1702.08839 [hep-ex].
[10.1103/PhysRevD.95.072003](https://doi.org/10.1103/PhysRevD.95.072003).
Phys.Rev. D95 (2017) no.7, 072003.
- 95) Probing the W $t\bar{b}$ vertex structure in t -channel single-top-quark production and decay in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1702.08309 [hep-ex].
[10.1007/JHEP04\(2017\)124](https://doi.org/10.1007/JHEP04(2017)124).
JHEP 1704 (2017) 124.
- 96) Top-quark mass measurement in the all-hadronic $t\bar{t}$ decay channel at $\sqrt{s} = 8$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1702.07546 [hep-ex].
[10.1007/JHEP09\(2017\)118](https://doi.org/10.1007/JHEP09(2017)118).
JHEP 1709 (2017) 118.
- 97) Performance of the ATLAS Transition Radiation Tracker in Run 1 of the LHC: tracker properties
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1702.06473 [hep-ex].
[10.1088/1748-0221/12/05/P05002](https://doi.org/10.1088/1748-0221/12/05/P05002).
JINST 12 (2017) no.05, P05002.
- 98) Measurements of the production cross section of a Z boson in association with jets in

pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1702.05725 [hep-ex].
[10.1140/epjc/s10052-017-4900-z](https://arxiv.org/abs/10.1140/epjc/s10052-017-4900-z).
Eur.Phys.J. C77 (2017) no.6, 361.

99) Measurement of the W^+W^- production cross section in pp collisions at a centre-of-mass energy of $\sqrt{s} = 13$ TeV with the ATLAS experiment
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1702.04519 [hep-ex].
[10.1016/j.physletb.2017.08.047](https://arxiv.org/abs/10.1016/j.physletb.2017.08.047).
Phys.Lett. B773 (2017) 354-374.

100) Fiducial, total and differential cross-section measurements of t -channel single top-quark production in pp collisions at 8 TeV using data collected by the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1702.02859 [hep-ex].
[10.1140/epjc/s10052-017-5061-9](https://arxiv.org/abs/10.1140/epjc/s10052-017-5061-9).
Eur.Phys.J. C77 (2017) no.8, 531.

101) Evidence for light-by-light scattering in heavy-ion collisions with the ATLAS detector at the LHC
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1702.01625 [hep-ex].
[10.1038/nphys4208](https://arxiv.org/abs/10.1038/nphys4208).
Nature Phys. 13 (2017) no.9, 852-858.

102) Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV with the ATLAS detector at the LHC
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1702.00674 [hep-ex].
[10.1140/epjc/s10052-017-4915-5](https://arxiv.org/abs/10.1140/epjc/s10052-017-4915-5).
Eur.Phys.J. C77 (2017) no.6, 379.

103) Measurement of the W -boson mass in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1701.07240 [hep-ex].
[10.1140/epjc/s10052-018-6354-3](https://arxiv.org/abs/10.1140/epjc/s10052-018-6354-3), [10.1140/epjc/s10052-017-5475-4](https://arxiv.org/abs/10.1140/epjc/s10052-017-5475-4).
Eur.Phys.J. C78 (2018) no.2, 110, Erratum: Eur.Phys.J. C78 (2018) no.11, 898.

104) Measurement of the cross section for inclusive isolated-photon production in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1701.06882 [hep-ex].
[10.1016/j.physletb.2017.04.072](https://arxiv.org/abs/10.1016/j.physletb.2017.04.072).
Phys.Lett. B770 (2017) 473-493.

105) Measurement of charged-particle distributions sensitive to the underlying event in $\sqrt{s}=13$ TeV proton-proton collisions with the ATLAS detector at the LHC
By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1701.05390 [hep-ex].
[10.1007/JHEP03\(2017\)157](https://arxiv.org/abs/1701.05390).
JHEP 1703 (2017) 157.

106) Measurements of top quark spin observables in $t\bar{t}$ events using dilepton final states in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1612.07004 [hep-ex].
[10.1007/JHEP03\(2017\)113](https://arxiv.org/abs/1612.07004).
JHEP 1703 (2017) 113.

108) Measurements of top-quark pair to Z -boson cross-section ratios at $\sqrt{s} = 13, 8, 7$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1612.03636 [hep-ex].
[10.1007/JHEP02\(2017\)117](https://arxiv.org/abs/1612.03636).
JHEP 1702 (2017) 117.

110) Measurement of the prompt J/ψ pair production cross-section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1612.02950 [hep-ex].
[10.1140/epjc/s10052-017-4644-9](https://arxiv.org/abs/1612.02950).
Eur.Phys.J. C77 (2017) no.2, 76.

111) Measurement of the W boson polarisation in $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV in the lepton + jets channel with ATLAS
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1612.02577 [hep-ex].
[10.1140/epjc/s10052-018-6520-7](https://arxiv.org/abs/1612.02577), [10.1140/epjc/s10052-017-4819-4](https://arxiv.org/abs/10.1140/epjc/s10052-017-4819-4).
Eur.Phys.J. C77 (2017) no.4, 264, Erratum: Eur.Phys.J. C79 (2019) no.1, 195.

114) Performance of the ATLAS Trigger System in 2015
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1611.09661 [hep-ex].
[10.1140/epjc/s10052-017-4852-3](https://arxiv.org/abs/1611.09661).
Eur.Phys.J. C77 (2017) no.5, 317.

115) High- E_{T} isolated-photon plus jets production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1611.06586 [hep-ex].
[10.1016/j.nuclphysb.2017.03.006](https://arxiv.org/abs/1611.06586).
Nucl.Phys. B918 (2017) 257-316.

116) Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s}=13$ pp collisions with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1611.05791 [hep-ex].
[10.1140/epjc/s10052-017-4700-5](https://doi.org/10.1140/epjc/s10052-017-4700-5).
Eur.Phys.J. C77 (2017) no.3, 144.

118) Measurement of jet activity produced in top-quark events with an electron, a muon and two b -tagged jets in the final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1610.09978 [hep-ex].
[10.1140/epjc/s10052-017-4766-0](https://doi.org/10.1140/epjc/s10052-017-4766-0).
Eur.Phys.J. C77 (2017) no.4, 220.

119) Measurements of $\psi(2S)$ and $X(3872) \rightarrow J/\psi \pi^+ \pi^-$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1610.09303 [hep-ex].
[10.1007/JHEP01\(2017\)117](https://doi.org/10.1007/JHEP01(2017)117).
JHEP 1701 (2017) 117.

120) Measurements of charge and CP asymmetries in b -hadron decays using top-quark events collected by the ATLAS detector in pp collisions at $\sqrt{s}=8$ TeV

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1610.07869 [hep-ex].
[10.1007/JHEP02\(2017\)071](https://doi.org/10.1007/JHEP02(2017)071).
JHEP 1702 (2017) 071.

121) Measurement of the ZZ production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV using the $ZZ \rightarrow \ell \ell \nu \bar{\nu}$ channels with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1610.07585 [hep-ex].
[10.1007/JHEP01\(2017\)099](https://doi.org/10.1007/JHEP01(2017)099).
JHEP 1701 (2017) 099.

123) Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s}=8$ TeV proton-proton collisions in the ATLAS detector

By ATLAS Collaboration (G. Aad et al.).
arXiv:1609.09324 [hep-ex].
[10.1140/epjc/s10052-017-4780-2](https://doi.org/10.1140/epjc/s10052-017-4780-2).
Eur.Phys.J. C77 (2017) no.4, 241.

124) Measurement of W boson angular distributions in events with high transverse momentum jets at $\sqrt{s}=8$ TeV using the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1609.07045 [hep-ex].
[10.1016/j.physletb.2016.12.005](https://doi.org/10.1016/j.physletb.2016.12.005).
Phys.Lett. B765 (2017) 132-153.

125) Measurements of long-range azimuthal anisotropies and associated Fourier coefficients for pp collisions at $\sqrt{s}=5.02$ and 13 TeV and $p+Pb$ collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1609.06213 [nucl-ex].
[10.1103/PhysRevC.96.024908](https://arxiv.org/abs/10.1103/PhysRevC.96.024908).
Phys.Rev. C96 (2017) no.2, 024908.

126) Search for anomalous electroweak production of WW/WZ in association with a high-mass dijet system in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1609.05122 [hep-ex].
[10.1103/PhysRevD.95.032001](https://arxiv.org/abs/10.1103/PhysRevD.95.032001).
Phys.Rev. D95 (2017) no.3, 032001.

127) Search for dark matter in association with a Higgs boson decaying to b -quarks in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1609.04572 [hep-ex].
[10.1016/j.physletb.2016.11.035](https://arxiv.org/abs/10.1016/j.physletb.2016.11.035).
Phys.Lett. B765 (2017) 11-31.

128) Measurement of the inclusive cross-sections of single top-quark and top-antiquark t -channel production in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1609.03920 [hep-ex].
[10.1007/JHEP04\(2017\)086](https://arxiv.org/abs/10.1007/JHEP04(2017)086).
JHEP 1704 (2017) 086.

131) Search for heavy resonances decaying to a Z boson and a photon in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1607.06363 [hep-ex].
[10.1016/j.physletb.2016.11.005](https://arxiv.org/abs/10.1016/j.physletb.2016.11.005).
Phys.Lett. B764 (2017) 11-30.

133) Measurement of forward-backward multiplicity correlations in lead-lead, proton-lead, and proton-proton collisions with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.08170 [hep-ex].
[10.1103/PhysRevC.95.064914](https://arxiv.org/abs/10.1103/PhysRevC.95.064914).
Phys.Rev. C95 (2017) no.6, 064914.

135) Search for new phenomena in dijet events using 37 fb⁻¹ of pp collision data collected at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (M. Aaboud et al.).
Physical Review D 96(2017)5, [10.1103/PhysRevD.96.052004](https://arxiv.org/abs/10.1103/PhysRevD.96.052004)

The differential production cross section of the $\phi(1020)$ meson in $\sqrt{s} = 7$ tev pp collisions measured with the atlas detector
European Physical Journal C 74(2014)7 10.1140/epjc/s10052-014-2895-2,

ATLAS 2016

1) Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at $\sqrt{s}=13$ TeV with ATLAS

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1612.07231 [hep-ex].

[10.1007/JHEP01\(2018\)063](https://arxiv.org/abs/1612.07231).

JHEP 1801 (2018) 063.

4) Measurements of top-quark pair to ZZ-boson cross-section ratios at $\sqrt{s} = 13, 8, 7$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1612.03636 [hep-ex].

[10.1007/JHEP02\(2017\)117](https://arxiv.org/abs/1612.03636).

JHEP 1702 (2017) 117.

5) Precision measurement and interpretation of inclusive $W^{+}W^{-}$ and $Z\gamma$ production cross sections with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1612.03016 [hep-ex].

[10.1140/epjc/s10052-017-4911-9](https://arxiv.org/abs/1612.03016).

Eur.Phys.J. C77 (2017) no.6, 367.

8) Electron efficiency measurements with the ATLAS detector using 2012 LHC proton–proton collision data

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1612.01456 [hep-ex].

[10.1140/epjc/s10052-017-4756-2](https://arxiv.org/abs/1612.01456).

Eur.Phys.J. C77 (2017) no.3, 195.

9) Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton–proton collisions at the LHC

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1611.10235 [physics.ins-det].

[10.1140/epjc/s10052-017-4887-5](https://arxiv.org/abs/1611.10235).

Eur.Phys.J. C77 (2017) no.5, 332.

13) Measurement of $W^{+}W^{-}$ vector-boson scattering and limits on anomalous quartic gauge couplings with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1611.02428 [hep-ex].
[10.1103/PhysRevD.96.012007](https://arxiv.org/abs/1611.02428).
Phys.Rev. D96 (2017) no.1, 012007.

18) Search for triboson $W^{\pm}W^{\pm}W^{\mp}$ production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1610.05088 [hep-ex].
[10.1140/epjc/s10052-017-4692-1](https://arxiv.org/abs/1610.05088).
Eur.Phys.J. C77 (2017) no.3, 141.

24) A measurement of material in the ATLAS tracker using secondary hadronic interactions in 7 TeV pp collisions
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1609.04305 [hep-ex].
[10.1088/1748-0221/11/11/P11020](https://arxiv.org/abs/1609.04305).
JINST 11 (2016) no.11, P11020.

26) Measurement of the $t\bar{t}Z$ and $t\bar{t}W$ production cross sections in multilepton final states using 3.2 fb⁻¹ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1609.01599 [hep-ex].
[10.1140/epjc/s10052-016-4574-y](https://arxiv.org/abs/1609.01599).
Eur.Phys.J. C77 (2017) no.1, 40.

27) Luminosity determination in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector at the LHC
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1608.03953 [hep-ex].
[10.1140/epjc/s10052-016-4466-1](https://arxiv.org/abs/1608.03953).
Eur.Phys.J. C76 (2016) no.12, 653.

28) Measurement of W^+W^- production in association with one jet in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1608.03086 [hep-ex].
[10.1016/j.physletb.2016.10.014](https://arxiv.org/abs/1608.03086).
Phys.Lett. B763 (2016) 114-133.

29) Search for dark matter produced in association with a hadronically decaying vector boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1608.02372 [hep-ex].
[10.1016/j.physletb.2016.10.042](https://arxiv.org/abs/1608.02372).
Phys.Lett. B763 (2016) 251-268.

- 30) Study of hard double-parton scattering in four-jet events in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS experiment
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1608.01857 [hep-ex].
[10.1007/JHEP11\(2016\)110](https://arxiv.org/abs/1608.01857).
JHEP 1611 (2016) 110.
- 31) Search for Minimal Supersymmetric Standard Model Higgs bosons H/A and for a Z^{\prime} boson in the $\tau\tau$ final state produced in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1608.00890 [hep-ex].
[10.1140/epjc/s10052-016-4400-6](https://arxiv.org/abs/1608.00890).
Eur.Phys.J. C76 (2016) no.11, 585.
- 32) Dark matter interpretations of ATLAS searches for the electroweak production of supersymmetric particles in $\sqrt{s}=8$ TeV proton-proton collisions
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1608.00872 [hep-ex].
[10.1007/JHEP09\(2016\)175](https://arxiv.org/abs/1608.00872).
JHEP 1609 (2016) 175.
- 33) A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 pp -collision data with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1607.08842 [hep-ex].
[10.1140/epjc/s10052-016-4580-0](https://arxiv.org/abs/1607.08842).
Eur.Phys.J. C77 (2017) no.1, 26.
- 34) Measurement of the $\overline{b}b$ dijet cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1607.08430 [hep-ex].
[10.1140/epjc/s10052-016-4521-y](https://arxiv.org/abs/1607.08430).
Eur.Phys.J. C76 (2016) no.12, 670.
- 35) Search for new phenomena in different-flavour high-mass dilepton final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1607.08079 [hep-ex].
[10.1140/epjc/s10052-016-4385-1](https://arxiv.org/abs/1607.08079).
Eur.Phys.J. C76 (2016) no.10, 541.
- 36) Measurement of top quark pair differential cross-sections in the dilepton channel in pp collisions at $\sqrt{s} = 7$ and 8 TeV with ATLAS
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1607.07281 [hep-ex].
[10.1103/PhysRevD.94.092003](https://arxiv.org/abs/1607.07281).
Phys.Rev. D94 (2016) no.9, 092003.
- 37) Measurement of the total cross section from elastic scattering in pp collisions at

$\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1607.06605 [hep-ex].
[10.1016/j.physletb.2016.08.020](https://doi.org/10.1016/j.physletb.2016.08.020).
Phys.Lett. B761 (2016) 158-178.

39) Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton–proton collisions at $\sqrt{s}=13$ TeV recorded with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1607.05979 [hep-ex].
[10.1140/epjc/s10052-016-4481-2](https://doi.org/10.1140/epjc/s10052-016-4481-2).
Eur.Phys.J. C76 (2016) no.12, 683.

40) Search for new resonances decaying to a W or Z boson and a Higgs boson in the $e^+e^-b\bar{b}$, $e\nu b\bar{b}$, and $\nu\bar{\nu}b\bar{b}$ channels with pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1607.05621 [hep-ex].
[10.1016/j.physletb.2016.11.045](https://doi.org/10.1016/j.physletb.2016.11.045).
Phys.Lett. B765 (2017) 32-52.

41) Measurement of exclusive $\gamma\gamma \rightarrow W^+W^-$ production and search for exclusive Higgs boson production in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1607.03745 [hep-ex].
[10.1103/PhysRevD.94.032011](https://doi.org/10.1103/PhysRevD.94.032011).
Phys.Rev. D94 (2016) no.3, 032011.

42) Search for high-mass new phenomena in the dilepton final state using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1607.03669 [hep-ex].
[10.1016/j.physletb.2016.08.055](https://doi.org/10.1016/j.physletb.2016.08.055).
Phys.Lett. B761 (2016) 372-392.

43) Search for Higgs and Z Boson Decays to $\phi\gamma$ with the ATLAS Detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1607.03400 [hep-ex].
[10.1103/PhysRevLett.117.111802](https://doi.org/10.1103/PhysRevLett.117.111802).
Phys.Rev.Lett. 117 (2016) no.11, 111802.

44) Search for supersymmetry in a final state containing two photons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions at the LHC using the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.09150 [hep-ex].
[10.1140/epjc/s10052-016-4344-x](https://doi.org/10.1140/epjc/s10052-016-4344-x).
Eur.Phys.J. C76 (2016) no.9, 517.

- 45) Measurement of jet activity in top quark events using the e^+e^- final state with two b -tagged jets in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.09490 [hep-ex].
[10.1007/JHEP09\(2016\)074](https://arxiv.org/abs/1606.09490).
JHEP 1609 (2016) 074.
- 46) Search for bottom squark pair production in proton–proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.08772 [hep-ex].
[10.1140/epjc/s10052-016-4382-4](https://arxiv.org/abs/1606.08772).
Eur.Phys.J. C76 (2016) no.10, 547.
- 47) Search for the Higgs boson produced in association with a W boson and decaying to four b -quarks via two spin-zero particles in pp collisions at 13 TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.08391 [hep-ex].
[10.1140/epjc/s10052-016-4418-9](https://arxiv.org/abs/1606.08391).
Eur.Phys.J. C76 (2016) no.11, 605.
- 49) The performance of the jet trigger for the ATLAS detector during 2011 data taking
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1606.07759 [hep-ex].
[10.1140/epjc/s10052-016-4325-0](https://arxiv.org/abs/1606.07759).
Eur.Phys.J. C76 (2016) no.10, 526.
- 50) Search for heavy long-lived charged R -hadrons with the ATLAS detector in 3.2 fb^{-1} of proton–proton collision data at $\sqrt{s} = 13$ TeV
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.05129 [hep-ex].
[10.1016/j.physletb.2016.07.042](https://arxiv.org/abs/1606.05129).
Phys.Lett. B760 (2016) 647-665.
- 51) Searches for heavy diboson resonances in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.04833 [hep-ex].
[10.1007/JHEP09\(2016\)173](https://arxiv.org/abs/1606.04833).
JHEP 1609 (2016) 173.
- 52) Search for pair production of Higgs bosons in the $b\bar{b}b\bar{b}$ final state using proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.04782 [hep-ex].
[10.1103/PhysRevD.94.052002](https://arxiv.org/abs/1606.04782).
Phys.Rev. D94 (2016) no.5, 052002.
- 53) Measurement of the $W^{\pm}Z$ boson pair-production cross section in pp collisions

at $\sqrt{s}=13$ TeV with the ATLAS Detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.04017 [hep-ex].
[10.1016/j.physletb.2016.08.052](https://doi.org/10.1016/j.physletb.2016.08.052).
Phys.Lett. B762 (2016) 1-22.

54) Search for new resonances in events with one lepton and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.03977 [hep-ex].
[10.1016/j.physletb.2016.09.040](https://doi.org/10.1016/j.physletb.2016.09.040).
Phys.Lett. B762 (2016) 334-352.

55) Search for top squarks in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.03903 [hep-ex].
[10.1103/PhysRevD.94.052009](https://doi.org/10.1103/PhysRevD.94.052009).
Phys.Rev. D94 (2016) no.5, 052009.

56) Search for resonances in diphoton events at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.03833 [hep-ex].
[10.1007/JHEP09\(2016\)001](https://doi.org/10.1007/JHEP09(2016)001).
JHEP 1609 (2016) 001.

58) Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s} = 13$ TeV with the ATLAS Detector at the LHC
By ATLAS Collaboration (M. Aaboud et al.).
arXiv:1606.02625 [hep-ex].
[10.1103/PhysRevLett.117.182002](https://doi.org/10.1103/PhysRevLett.117.182002).
Phys.Rev.Lett. 117 (2016) no.18, 182002.

59) Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at $\sqrt{s}=7$ and 8 TeV
By ATLAS and CMS Collaborations (Georges Aad et al.).
arXiv:1606.02266 [hep-ex].
[10.1007/JHEP08\(2016\)045](https://doi.org/10.1007/JHEP08(2016)045).
JHEP 1608 (2016) 045.

60) Search for TeV-scale gravity signatures in high-mass final states with leptons and jets with the ATLAS detector at $\sqrt{s}=13$ TeV
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.02265 [hep-ex].
[10.1016/j.physletb.2016.07.030](https://doi.org/10.1016/j.physletb.2016.07.030).
Phys.Lett. B760 (2016) 520-537.

61) Search for the Standard Model Higgs boson produced by vector-boson fusion and decaying to bottom quarks in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.02181 [hep-ex].
[10.1007/JHEP11\(2016\)112](https://arxiv.org/abs/1606.02181).
JHEP 1611 (2016) 112.

62) Measurement of the top quark mass in the $t\bar{t}$ dilepton channel from $\sqrt{s}=8$ TeV ATLAS data
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.02179 [hep-ex].
[10.1016/j.physletb.2016.08.042](https://arxiv.org/abs/1606.02179).
Phys.Lett. B761 (2016) 350-371.

63) Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.01813 [hep-ex].
[10.1140/epjc/s10052-016-4507-9](https://arxiv.org/abs/1606.01813).
Eur.Phys.J. C76 (2016) no.12, 666.

65) Charged-particle distributions at low transverse momentum in $\sqrt{s} = 13$ TeV pp interactions measured with the ATLAS detector at the LHC
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1606.01133 [hep-ex].
[10.1140/epjc/s10052-016-4335-y](https://arxiv.org/abs/1606.01133).
Eur.Phys.J. C76 (2016) no.9, 502.

66) Measurement of the angular coefficients in Z -boson events using electron and muon pairs from data taken at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1606.00689 [hep-ex].
[10.1007/JHEP08\(2016\)159](https://arxiv.org/abs/1606.00689).
JHEP 1608 (2016) 159.

67) Search for pair production of gluinos decaying via stop and sbottom in events with b -jets and large missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1605.09318 [hep-ex].
[10.1103/PhysRevD.94.032003](https://arxiv.org/abs/1605.09318).
Phys.Rev. D94 (2016) no.3, 032003.

69) Transverse momentum, rapidity, and centrality dependence of inclusive charged-particle production in $\sqrt{s_{NN}}=5.02$ TeV p + Pb collisions measured by the ATLAS experiment
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1605.06436 [hep-ex].
[10.1016/j.physletb.2016.10.053](https://arxiv.org/abs/1605.06436).
Phys.Lett. B763 (2016) 313-336.

70) Search for scalar leptoquarks in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS

experiment

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1605.06035 [hep-ex].

[10.1088/1367-2630/18/9/093016](https://doi.org/10.1088/1367-2630/18/9/093016).

New J.Phys. 18 (2016) no.9, 093016.

71) Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1605.04285 [hep-ex].

[10.1140/epjc/s10052-016-4397-x](https://doi.org/10.1140/epjc/s10052-016-4397-x).

Eur.Phys.J. C76 (2016) no.10, 565.

72) Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1605.03814 [hep-ex].

[10.1140/epjc/s10052-016-4184-8](https://doi.org/10.1140/epjc/s10052-016-4184-8).

Eur.Phys.J. C76 (2016) no.7, 392.

73) Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1605.03495 [hep-ex].

[10.1007/JHEP08\(2016\)005](https://doi.org/10.1007/JHEP08(2016)005).

JHEP 1608 (2016) 005.

74) Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector

By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1604.07773 [hep-ex].

[10.1103/PhysRevD.94.032005](https://doi.org/10.1103/PhysRevD.94.032005).

Phys.Rev. D94 (2016) no.3, 032005.

75) Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1604.07730 [hep-ex].

[10.1140/epjc/s10052-017-4624-0](https://doi.org/10.1140/epjc/s10052-017-4624-0).

Eur.Phys.J. C77 (2017) no.2, 70.

76) Measurements of the charge asymmetry in top-quark pair production in the dilepton final state at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1604.05538 [hep-ex].

[10.1103/PhysRevD.94.032006](https://doi.org/10.1103/PhysRevD.94.032006).

Phys.Rev. D94 (2016) no.3, 032006.

77) Measurements of $Z\gamma$ and $Z\gamma\gamma$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1604.05232 [hep-ex].
[10.1103/PhysRevD.93.112002](https://doi.org/10.1103/PhysRevD.93.112002).
Phys.Rev. D93 (2016) no.11, 112002.

78) Search for metastable heavy charged particles with large ionization energy loss in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS experiment
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1604.04520 [hep-ex].
[10.1103/PhysRevD.93.112015](https://doi.org/10.1103/PhysRevD.93.112015).
Phys.Rev. D93 (2016) no.11, 112015.

79) Study of the rare decays of B^0_s and B^0 into muon pairs from data collected during the LHC Run 1 with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1604.04263 [hep-ex].
[10.1140/epjc/s10052-016-4338-8](https://doi.org/10.1140/epjc/s10052-016-4338-8).
Eur.Phys.J. C76 (2016) no.9, 513.

80) Search for the Standard Model Higgs boson decaying into $b\bar{b}$ produced in association with top quarks decaying hadronically in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1604.03812 [hep-ex].
[10.1007/JHEP05\(2016\)160](https://doi.org/10.1007/JHEP05(2016)160).
JHEP 1605 (2016) 160.

81) Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $WW^{*} \rightarrow e\nu\mu\nu$ with the ATLAS detector at $\sqrt{s}=8$ TeV
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1604.02997 [hep-ex].
[10.1007/JHEP08\(2016\)104](https://doi.org/10.1007/JHEP08(2016)104).
JHEP 1608 (2016) 104.

82) Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1604.01306 [hep-ex].
[10.1007/JHEP06\(2016\)059](https://doi.org/10.1007/JHEP06(2016)059).
JHEP 1606 (2016) 059.

83) Measurement of W^{\pm} and Z -boson production cross sections in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1603.09222 [hep-ex].
[10.1016/j.physletb.2016.06.023](https://doi.org/10.1016/j.physletb.2016.06.023).
Phys.Lett. B759 (2016) 601-621.

84) Search for charged Higgs bosons produced in association with a top quark and decaying via $H^{\pm} \rightarrow \tau\nu$ using pp collision data recorded at $\sqrt{s} = 13$ TeV by the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).

arXiv:1603.09203 [hep-ex].
[10.1016/j.physletb.2016.06.017](https://arxiv.org/abs/1603.09203).
Phys.Lett. B759 (2016) 555-574.

85) Beam-induced and cosmic-ray backgrounds observed in the ATLAS detector during the LHC 2012 proton-proton running period
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1603.09202 [hep-ex].
[10.1088/1748-0221/11/05/P05013](https://arxiv.org/abs/1603.09202).
JINST 11 (2016) no.05, P05013.

86) Search for resonances in the mass distribution of jet pairs with one or two jets identified as b -jets in proton–proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector
By ATLAS Collaboration (Morad Aaboud et al.).
arXiv:1603.08791 [hep-ex].
[10.1016/j.physletb.2016.05.064](https://arxiv.org/abs/1603.08791).
Phys.Lett. B759 (2016) 229-246.

87) Muon reconstruction performance of the ATLAS detector in proton–proton collision data at $\sqrt{s} = 13$ TeV
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1603.05598 [hep-ex].
[10.1140/epjc/s10052-016-4120-y](https://arxiv.org/abs/1603.05598).
Eur.Phys.J. C76 (2016) no.5, 292.

88) Identification of high transverse momentum top quarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1603.03127 [hep-ex].
[10.1007/JHEP06\(2016\)093](https://arxiv.org/abs/1603.03127).
JHEP 1606 (2016) 093.

89) Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1603.02934 [hep-ex].
[10.1140/epjc/s10052-017-5004-5](https://arxiv.org/abs/1603.02934).
Eur.Phys.J. C77 (2017) 490.

90) Charged-particle distributions in pp interactions at $\sqrt{s}=8$ TeV measured with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1603.02439 [hep-ex].
[10.1140/epjc/s10052-016-4203-9](https://arxiv.org/abs/1603.02439).
Eur.Phys.J. C76 (2016) no.7, 403.

91) Measurements of $W^\pm Z$ production cross sections in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector and limits on anomalous gauge boson self-couplings
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1603.02151 [hep-ex].
[10.1103/PhysRevD.93.092004](https://arxiv.org/abs/1603.02151).
Phys.Rev. D93 (2016) no.9, 092004.

92) Measurement of total and differential W^+W^- production cross sections in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector and limits on anomalous triple-gauge-boson couplings

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1603.01702 [hep-ex].

[10.1007/JHEP09\(2016\)029](https://arxiv.org/abs/1603.01702).

JHEP 1609 (2016) 029.

93) Search for supersymmetry at $\sqrt{s}=13$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1602.09058 [hep-ex].

[10.1140/epjc/s10052-016-4095-8](https://arxiv.org/abs/1602.09058).

Eur.Phys.J. C76 (2016) no.5, 259.

94) Measurement of event-shape observables in $Z \rightarrow \ell^+ \ell^-$ events in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector at the LHC

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1602.08980 [hep-ex].

[10.1140/epjc/s10052-016-4176-8](https://arxiv.org/abs/1602.08980).

Eur.Phys.J. C76 (2016) no.7, 375.

95) Search for new phenomena in final states with large jet multiplicities and missing transverse momentum with ATLAS using $\sqrt{s}=13$ TeV proton-proton collisions

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1602.06194 [hep-ex].

[10.1016/j.physletb.2016.04.005](https://arxiv.org/abs/1602.06194).

Phys.Lett. B757 (2016) 334-355.

97) Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1602.05606 [hep-ex].

[10.1140/epjc/s10052-016-4281-8](https://arxiv.org/abs/1602.05606).

Eur.Phys.J. C76 (2016) no.8, 442.

98) Test of CP Invariance in vector-boson fusion production of the Higgs boson using the Optimal Observable method in the ditau decay channel with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1602.04516 [hep-ex].

[10.1140/epjc/s10052-016-4499-5](https://arxiv.org/abs/1602.04516).

Eur.Phys.J. C76 (2016) no.12, 658.

99) Charged-particle distributions in $\sqrt{s}=13$ TeV pp interactions measured with the ATLAS detector at the LHC

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1602.01633 [hep-ex].

[10.1016/j.physletb.2016.04.050](https://arxiv.org/abs/1602.01633).

Phys.Lett. B758 (2016) 67-88.

100) Measurement of the charged-particle multiplicity inside jets from $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1602.00988 [hep-ex].
[10.1140/epjc/s10052-016-4126-5](https://doi.org/10.1140/epjc/s10052-016-4126-5).
Eur.Phys.J. C76 (2016) no.6, 322.

101) A search for top squarks with R-parity-violating decays to all-hadronic final states with the ATLAS detector in $\sqrt{s}=8$ TeV proton-proton collisions
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1601.07453 [hep-ex].
[10.1007/JHEP06\(2016\)067](https://doi.org/10.1007/JHEP06(2016)067).
JHEP 1606 (2016) 067.

102) A search for an excited muon decaying to a muon and two jets in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1601.05627 [hep-ex].
[10.1088/1367-2630/18/7/073021](https://doi.org/10.1088/1367-2630/18/7/073021), [10.1088/1367-2630/ab46ed](https://doi.org/10.1088/1367-2630/ab46ed).
New J.Phys. 18 (2016) no.7, 073021, Erratum: New J.Phys. 21 (2019) no.10, 109501.

103) Probing lepton flavour violation via neutrinoless $\tau \rightarrow 3\mu$ decays with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1601.03567 [hep-ex].
[10.1140/epjc/s10052-016-4041-9](https://doi.org/10.1140/epjc/s10052-016-4041-9).
Eur.Phys.J. C76 (2016) no.5, 232.

104) Measurement of the CP-violating phase ϕ_s and the B^0_s meson decay width difference with $B^0_s \rightarrow J/\psi\phi$ decays in ATLAS
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1601.03297 [hep-ex].
[10.1007/JHEP08\(2016\)147](https://doi.org/10.1007/JHEP08(2016)147).
JHEP 1608 (2016) 147.

105) Measurement of the charge asymmetry in highly boosted top-quark pair production in $\sqrt{s}=8$ TeV pp collision data collected by the ATLAS experiment
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1512.06092 [hep-ex].
[10.1016/j.physletb.2016.02.055](https://doi.org/10.1016/j.physletb.2016.02.055).
Phys.Lett. B756 (2016) 52-71.

106) Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1512.05955 [hep-ex].
[10.1140/epjc/s10052-016-4110-0](https://doi.org/10.1140/epjc/s10052-016-4110-0).
Eur.Phys.J. C76 (2016) no.5, 295.

109) Combination of searches for WW , WZ , and ZZ resonances in pp collisions at

$\sqrt{s} = 8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1512.05099 [hep-ex].
[10.1016/j.physletb.2016.02.015](https://arxiv.org/abs/10.1016/j.physletb.2016.02.015).
Phys.Lett. B755 (2016) 285-305.

112) Measurement of $D^{*\pm}$, D^{\pm} and D_s^{\pm} meson production cross sections in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1512.02913 [hep-ex].
[10.1016/j.nuclphysb.2016.04.032](https://arxiv.org/abs/10.1016/j.nuclphysb.2016.04.032).
Nucl.Phys. B907 (2016) 717-763.

113) Search for strong gravity in multijet final states produced in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector at the LHC
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1512.02586 [hep-ex].
[10.1007/JHEP03\(2016\)026](https://arxiv.org/abs/10.1007/JHEP03(2016)026).
JHEP 1603 (2016) 026.

114) Measurement of the transverse momentum and ϕ_{η^*} distributions of Drell–Yan lepton pairs in proton–proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1512.02192 [hep-ex].
[10.1140/epjc/s10052-016-4070-4](https://arxiv.org/abs/10.1140/epjc/s10052-016-4070-4).
Eur.Phys.J. C76 (2016) no.5, 291.

115) Search for new phenomena in dijet mass and angular distributions from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1512.01530 [hep-ex].
[10.1016/j.physletb.2016.01.032](https://arxiv.org/abs/10.1016/j.physletb.2016.01.032).
Phys.Lett. B754 (2016) 302-322.

116) Performance of b -Jet Identification in the ATLAS Experiment
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1512.01094 [hep-ex].
[10.1088/1748-0221/11/04/P04008](https://arxiv.org/abs/10.1088/1748-0221/11/04/P04008).
JINST 11 (2016) no.04, P04008.

117) Measurement of the dependence of transverse energy production at large pseudorapidity on the hard-scattering kinematics of proton-proton collisions at $\sqrt{s} = 2.76$ TeV with ATLAS
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1512.00197 [hep-ex].
[10.1016/j.physletb.2016.02.056](https://arxiv.org/abs/10.1016/j.physletb.2016.02.056).
Phys.Lett. B756 (2016) 10-28.

118) Search for the Standard Model Higgs boson produced in association with a vector boson and decaying into a tau pair in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS

detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1511.08352 [hep-ex].

[10.1103/PhysRevD.93.092005](https://arxiv.org/abs/10.1103/PhysRevD.93.092005).

Phys.Rev. D93 (2016) no.9, 092005.

119) Evidence for single top-quark production in the ss -channel in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector using the Matrix Element Method

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1511.05980 [hep-ex].

[10.1016/j.physletb.2016.03.017](https://arxiv.org/abs/10.1016/j.physletb.2016.03.017).

Phys.Lett. B756 (2016) 228-246.

121) Measurements of top-quark pair differential cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1511.04716 [hep-ex].

[10.1140/epjc/s10052-016-4366-4](https://arxiv.org/abs/10.1140/epjc/s10052-016-4366-4).

Eur.Phys.J. C76 (2016) no.10, 538.

123) Measurement of the correlations between the polar angles of leptons from top quark decays in the helicity basis at $\sqrt{s}=7$ TeV using the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1510.07478 [hep-ex].

[10.1103/PhysRevD.93.012002](https://arxiv.org/abs/10.1103/PhysRevD.93.012002).

Phys.Rev. D93 (2016) no.1, 012002.

125) Identification of boosted, hadronically decaying W bosons and comparisons with ATLAS data taken at $\sqrt{s} = 8$ TeV

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1510.05821 [hep-ex].

[10.1140/epjc/s10052-016-3978-z](https://arxiv.org/abs/10.1140/epjc/s10052-016-3978-z).

Eur.Phys.J. C76 (2016) no.3, 154.

126) Performance of pile-up mitigation techniques for jets in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1510.03823 [hep-ex].

[10.1140/epjc/s10052-016-4395-z](https://arxiv.org/abs/10.1140/epjc/s10052-016-4395-z).

Eur.Phys.J. C76 (2016) no.11, 581.

128) Search for anomalous couplings in the Wtb vertex from the measurement of double differential angular decay rates of single top quarks produced in the t -channel with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1510.03764 [hep-ex].

[10.1007/JHEP04\(2016\)023](https://arxiv.org/abs/10.1007/JHEP04(2016)023).

JHEP 1604 (2016) 023.

129) Measurement of the production cross-section of a single top quark in association with a W boson at 8 TeV with the ATLAS experiment

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1510.03752 [hep-ex].

[10.1007/JHEP01\(2016\)064](https://arxiv.org/abs/10.1007/JHEP01(2016)064).

JHEP 1601 (2016) 064.

132) Measurements of four-lepton production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1509.07844 [hep-ex].

[10.1016/j.physletb.2015.12.048](https://arxiv.org/abs/10.1016/j.physletb.2015.12.048).

Phys.Lett. B753 (2016) 552-572.

134) Measurement of jet charge in dijet events from $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1509.05190 [hep-ex].

[10.1103/PhysRevD.93.052003](https://arxiv.org/abs/10.1103/PhysRevD.93.052003).

Phys.Rev. D93 (2016) no.5, 052003.

135) Search for new phenomena in events with at least three photons collected in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1509.05051 [hep-ex].

[10.1140/epjc/s10052-016-4034-8](https://arxiv.org/abs/10.1140/epjc/s10052-016-4034-8).

Eur.Phys.J. C76 (2016) no.4, 210.

137) A new method to distinguish hadronically decaying boosted Z bosons from W bosons using the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1509.04939 [hep-ex].

[10.1140/epjc/s10052-016-4065-1](https://arxiv.org/abs/10.1140/epjc/s10052-016-4065-1).

Eur.Phys.J. C76 (2016) no.5, 238.

138) Observation of Long-Range Elliptic Azimuthal Anisotropies in $\sqrt{s} = 13$ and 2.76 TeV pp Collisions with the ATLAS Detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1509.04776 [hep-ex].

[10.1103/PhysRevLett.116.172301](https://arxiv.org/abs/10.1103/PhysRevLett.116.172301).

Phys.Rev.Lett. 116 (2016) no.17, 172301.

139) Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $\sqrt{s} = 8, \mathit{TeV}$ with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1509.02358 [hep-ex].

[10.1140/epjc/s10052-016-3910-6](https://doi.org/10.1140/epjc/s10052-016-3910-6), [10.1140/epjc/s10052-017-5089-x](https://doi.org/10.1140/epjc/s10052-017-5089-x).
Eur.Phys.J. C76 (2016) no.2, 87, Erratum: Eur.Phys.J. C77 (2017) 564.

142) Search for invisible decays of a Higgs boson using vector-boson fusion in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1508.07869 [hep-ex].
[10.1007/JHEP01\(2016\)172](https://doi.org/10.1007/JHEP01(2016)172).
JHEP 1601 (2016) 172.

144) Search for flavour-changing neutral current top-quark decays to qZ in pp collision data collected with the ATLAS detector at $\sqrt{s}=8$ TeV
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1508.05796 [hep-ex].
[10.1140/epjc/s10052-015-3851-5](https://doi.org/10.1140/epjc/s10052-015-3851-5).
Eur.Phys.J. C76 (2016) no.1, 12.

147) Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton–lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1508.00848 [hep-ex].
[10.1140/epjc/s10052-016-4002-3](https://doi.org/10.1140/epjc/s10052-016-4002-3).
Eur.Phys.J. C76 (2016) no.4, 199.

148) Study of the $B_c^+ \rightarrow J/\psi D_s^+$ and $B_c^+ \rightarrow J/\psi D_s^{*+}$ decays with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1507.07099 [hep-ex].
[10.1140/epjc/s10052-015-3743-8](https://doi.org/10.1140/epjc/s10052-015-3743-8).
Eur.Phys.J. C76 (2016) no.1, 4.

150) Measurements of the Higgs boson production and decay rates and coupling strengths using pp collision data at $\sqrt{s}=7$ and 8 TeV in the ATLAS experiment
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1507.04548 [hep-ex].
[10.1140/epjc/s10052-015-3769-y](https://doi.org/10.1140/epjc/s10052-015-3769-y).
Eur.Phys.J. C76 (2016) no.1, 6.

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3) Search for new phenomena with photon+jet events in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1512.05910 [hep-ex].
[10.1007/JHEP03\(2016\)041](https://doi.org/10.1007/JHEP03(2016)041).
JHEP 1603 (2016) 041.

4) Measurement of the ZZ Production Cross Section in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1512.05314 [hep-ex].
[10.1103/PhysRevLett.116.101801](https://doi.org/10.1103/PhysRevLett.116.101801).
Phys.Rev.Lett. 116 (2016) no.10, 101801.

6) Search for charged Higgs bosons in the $H^{\pm} \rightarrow tb$ decay channel in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1512.03704 [hep-ex].
[10.1007/JHEP03\(2016\)127](https://doi.org/10.1007/JHEP03(2016)127).
JHEP 1603 (2016) 127.

7) Measurement of the differential cross-sections of prompt and non-prompt production of J/ψ and $\psi(2S)$ in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1512.03657 [hep-ex].
[10.1140/epjc/s10052-016-4050-8](https://doi.org/10.1140/epjc/s10052-016-4050-8).
Eur.Phys.J. C76 (2016) no.5, 283.

16) A search for prompt lepton-jets in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1511.05542 [hep-ex].
[10.1007/JHEP02\(2016\)062](https://doi.org/10.1007/JHEP02(2016)062).
JHEP 1602 (2016) 062.

18) Dijet production in $\sqrt{s}=7$ TeV pp collisions with large rapidity gaps at the ATLAS experiment
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1511.00502 [hep-ex].
[10.1016/j.physletb.2016.01.028](https://doi.org/10.1016/j.physletb.2016.01.028).
Phys.Lett. B754 (2016) 214-234.

20) Search for dark matter produced in association with a Higgs boson decaying to two bottom quarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1510.06218 [hep-ex].
[10.1103/PhysRevD.93.072007](https://doi.org/10.1103/PhysRevD.93.072007).
Phys.Rev. D93 (2016) no.7, 072007.

23) Measurement of the differential cross-section of highly boosted top quarks as a function of their transverse momentum in $\sqrt{s} = 8$ TeV proton-proton collisions using the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1510.03818 [hep-ex].

[10.1103/PhysRevD.93.032009](https://arxiv.org/abs/1510.03818).

Phys.Rev. D93 (2016) no.3, 032009.

27) Search for magnetic monopoles and stable particles with high electric charges in 8 TeV pp collisions with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1509.08059 [hep-ex].

[10.1103/PhysRevD.93.052009](https://arxiv.org/abs/1509.08059).

Phys.Rev. D93 (2016) no.5, 052009.

29) Measurement of four-jet differential cross sections in $\sqrt{s}=8$ TeV proton-proton collisions using the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1509.07335 [hep-ex].

[10.1007/JHEP12\(2015\)105](https://arxiv.org/abs/1509.07335).

JHEP 1512 (2015) 105.

30) Search for the electroweak production of supersymmetric particles in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1509.07152 [hep-ex].

[10.1103/PhysRevD.93.052002](https://arxiv.org/abs/1509.07152).

Phys.Rev. D93 (2016) no.5, 052002.

31) Search for flavor

-changing neutral current top quark decays $t \rightarrow Hq$ in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1509.06047 [hep-ex].

[10.1007/JHEP12\(2015\)061](https://arxiv.org/abs/1509.06047).

JHEP 1512 (2015) 061.

32) Measurement of the $t\bar{t}W$ and $t\bar{t}Z$ production cross sections in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1509.05276 [hep-ex].

[10.1007/JHEP11\(2015\)172](https://arxiv.org/abs/1509.05276).

JHEP 1511 (2015) 172.

35) Search for direct top squark pair production in final states with two tau leptons in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1509.04976 [hep-ex].
[10.1140/epjc/s10052-016-3897-z](https://doi.org/10.1140/epjc/s10052-016-3897-z).
Eur.Phys.J. C76 (2016) no.2, 81.

38) Searches for Higgs boson pair production in the $hh \rightarrow bb\tau\tau, \gamma\gamma WW^*, \gamma\gamma bb, bbbb$ channels with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1509.04670 [hep-ex].
[10.1103/PhysRevD.92.092004](https://doi.org/10.1103/PhysRevD.92.092004).
Phys.Rev. D92 (2015) 092004.

39) Search for pair production of a new heavy quark that decays into a W boson and a light quark in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1509.04261 [hep-ex].
[10.1103/PhysRevD.92.112007](https://doi.org/10.1103/PhysRevD.92.112007).
Phys.Rev. D92 (2015) no.11, 112007.

41) Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1509.00672 [hep-ex].
[10.1007/JHEP11\(2015\)206](https://doi.org/10.1007/JHEP11(2015)206).
JHEP 1511 (2015) 206.

42) Search for a high-mass Higgs boson decaying to a W boson pair in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1509.00389 [hep-ex].
[10.1007/JHEP01\(2016\)032](https://doi.org/10.1007/JHEP01(2016)032).
JHEP 1601 (2016) 032.

45) Measurements of fiducial cross-sections for $t\bar{t}$ production with one or two additional b-jets in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1508.06868 [hep-ex].
[10.1140/epjc/s10052-015-3852-4](https://doi.org/10.1140/epjc/s10052-015-3852-4).
Eur.Phys.J. C76 (2016) no.1, 11.

46) Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 — interpreted in the phenomenological MSSM
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1508.06608 [hep-ex].
[10.1007/JHEP10\(2015\)134](https://doi.org/10.1007/JHEP10(2015)134).
JHEP 1510 (2015) 134.

- 48) Searches for scalar leptoquarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1508.04735 [hep-ex].
[10.1140/epjc/s10052-015-3823-9](https://arxiv.org/abs/1508.04735).
 Eur.Phys.J. C76 (2016) no.1, 5.
- 49) Search for lepton-flavour-violating $H \rightarrow \mu\tau$ decays of the Higgs boson with the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1508.03372 [hep-ex].
[10.1007/JHEP11\(2015\)211](https://arxiv.org/abs/1508.03372).
 JHEP 1511 (2015) 211.
- 50) Constraints on non-Standard Model Higgs boson interactions in an effective Lagrangian using differential cross sections measured in the $H \rightarrow \gamma\gamma$ decay channel at $\sqrt{s} = 8$ TeV with the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1508.02507 [hep-ex].
[10.1016/j.physletb.2015.11.071](https://arxiv.org/abs/1508.02507).
 Phys.Lett. B753 (2016) 69-85.
- 51) Measurement of transverse energy-energy correlations in multi-jet events in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector and determination of the strong coupling constant $\alpha_{\text{s}}(m_Z)$
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1508.01579 [hep-ex].
[10.1016/j.physletb.2015.09.050](https://arxiv.org/abs/1508.01579).
 Phys.Lett. B750 (2015) 427-447.
- 53) Determination of the ratio of b -quark fragmentation fractions f_s/f_d in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1507.08925 [hep-ex].
[10.1103/PhysRevLett.115.262001](https://arxiv.org/abs/1507.08925).
 Phys.Rev.Lett. 115 (2015) no.26, 262001.
- 54) Measurement of the branching ratio $\Gamma(\Lambda_b^0 \rightarrow \psi(2S)\Lambda_b^0) / \Gamma(\Lambda_b^0 \rightarrow J/\psi\Lambda_b^0)$ with the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1507.08202 [hep-ex].
[10.1016/j.physletb.2015.10.009](https://arxiv.org/abs/1507.08202).
 Phys.Lett. B751 (2015) 63-80.
- 56) Z boson production in $p+Pb$ collisions at $\sqrt{s_{NN}} = 5.02$ TeV measured with the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1507.06232 [hep-ex].

[10.1103/PhysRevC.92.044915](https://arxiv.org/abs/1507.05525).

Phys.Rev. C92 (2015) no.4, 044915.

58) Summary of the searches for squarks and gluinos using $\sqrt{s}=8$ TeV pp collisions with the ATLAS experiment at the LHC

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1507.05525 [hep-ex].

[10.1007/JHEP10\(2015\)054](https://arxiv.org/abs/1507.05525).

JHEP 1510 (2015) 054.

59) Search for photonic signatures of gauge-mediated supersymmetry in 8 TeV pp collisions with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1507.05493 [hep-ex].

[10.1103/PhysRevD.92.072001](https://arxiv.org/abs/1507.05493).

Phys.Rev. D92 (2015) no.7, 072001.

61) Determination of the top-quark pole mass using $\overline{t} + 1$ -jet events collected with the ATLAS experiment in 7 TeV pp collisions

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1507.01769 [hep-ex].

[10.1007/JHEP10\(2015\)121](https://arxiv.org/abs/1507.01769).

JHEP 1510 (2015) 121.

62) Measurement of the production of neighbouring jets in lead–lead collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1506.08656 [hep-ex].

[10.1016/j.physletb.2015.10.059](https://arxiv.org/abs/1506.08656).

Phys.Lett. B751 (2015) 376-395.

63) ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1506.08616 [hep-ex].

[10.1140/epjc/s10052-016-3935-x](https://arxiv.org/abs/1506.08616), [10.1140/epjc/s10052-015-3726-9](https://arxiv.org/abs/1506.08616).

Eur.Phys.J. C75 (2015) no.10, 510, Erratum: Eur.Phys.J. C76 (2016) no.3, 153.

64) Centrality, rapidity and transverse momentum dependence of isolated prompt photon production in lead-lead collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV measured with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1506.08552 [hep-ex].

[10.1103/PhysRevC.93.034914](https://arxiv.org/abs/1506.08552).

Phys.Rev. C93 (2016) no.3, 034914.

65) Measurement of exclusive $\gamma\gamma \rightarrow e^+e^-$ production in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1506.07098 [hep-ex].
[10.1016/j.physletb.2015.07.069](https://arxiv.org/abs/10.1016/j.physletb.2015.07.069).
Phys.Lett. B749 (2015) 242-261.

66) Study of (W/Z)H production and Higgs boson couplings using $\text{SH} \rightarrow \text{WW}^{\ast}$ decays with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1506.06641 [hep-ex].
[10.1007/JHEP08\(2015\)137](https://arxiv.org/abs/10.1007/JHEP08(2015)137).
JHEP 1508 (2015) 137.

67) Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at $\sqrt{s}=8$ TeV
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1506.06020 [hep-ex].
[10.1007/JHEP07\(2015\)162](https://arxiv.org/abs/10.1007/JHEP07(2015)162).
JHEP 1507 (2015) 162.

68) Search for the associated production of the Higgs boson with a top quark pair in multilepton final states with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1506.05988 [hep-ex].
[10.1016/j.physletb.2015.07.079](https://arxiv.org/abs/10.1016/j.physletb.2015.07.079).
Phys.Lett. B749 (2015) 519-541.

69) Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1506.05669 [hep-ex].
[10.1140/epjc/s10052-016-3934-y](https://arxiv.org/abs/10.1140/epjc/s10052-016-3934-y), [10.1140/epjc/s10052-015-3685-1](https://arxiv.org/abs/10.1140/epjc/s10052-015-3685-1).
Eur.Phys.J. C75 (2015) no.10, 476, Erratum: Eur.Phys.J. C76 (2016) no.3, 152.

70) Measurement of colour flow with the jet pull angle in $t\bar{t}$ events using the ATLAS detector at $\sqrt{s}=8$ TeV
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1506.05629 [hep-ex].
[10.1016/j.physletb.2015.09.051](https://arxiv.org/abs/10.1016/j.physletb.2015.09.051).
Phys.Lett. B750 (2015) 475-493.

71) Modelling $Z \rightarrow \tau\tau$ processes in ATLAS with τ -embedded $Z \rightarrow \mu\mu$ data
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1506.05623 [hep-ex].
[10.1088/1748-0221/10/09/P09018](https://arxiv.org/abs/10.1088/1748-0221/10/09/P09018), [10.1088/1748-0221/2015/9/P09018](https://arxiv.org/abs/10.1088/1748-0221/2015/9/P09018).
JINST 10 (2015) no.09, P09018.

72) Search for metastable heavy charged particles with large ionisation energy loss in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS experiment
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1506.05332 [hep-ex].
[10.1140/epjc/s10052-015-3609-0](https://arxiv.org/abs/10.1140/epjc/s10052-015-3609-0).

Eur.Phys.J. C75 (2015) no.9, 407.

73) Measurements of the top quark branching ratios into channels with leptons and quarks with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1506.05074 [hep-ex].

[10.1103/PhysRevD.92.072005](https://arxiv.org/abs/10.1103/PhysRevD.92.072005).

Phys.Rev. D92 (2015) no.7, 072005.

74) Search for type-III Seesaw heavy leptons in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1506.01839 [hep-ex].

[10.1103/PhysRevD.92.032001](https://arxiv.org/abs/10.1103/PhysRevD.92.032001).

Phys.Rev. D92 (2015) no.3, 032001.

75) Search for heavy lepton resonances decaying to a Z boson and a lepton in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1506.01291 [hep-ex].

[10.1007/JHEP09\(2015\)108](https://arxiv.org/abs/10.1007/JHEP09(2015)108).

JHEP 1509 (2015) 108.

76) Search for Dark Matter in Events with Missing Transverse Momentum and a Higgs Boson Decaying to Two Photons in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1506.01081 [hep-ex].

[10.1103/PhysRevLett.115.131801](https://arxiv.org/abs/10.1103/PhysRevLett.115.131801).

Phys.Rev.Lett. 115 (2015) no.13, 131801.

77) Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1506.00962 [hep-ex].

[10.1007/JHEP12\(2015\)055](https://arxiv.org/abs/10.1007/JHEP12(2015)055).

JHEP 1512 (2015) 055.

78) Search for Higgs boson pair production in the $b\bar{b}b\bar{b}$ final state from pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1506.00285 [hep-ex].

[10.1140/epjc/s10052-015-3628-x](https://arxiv.org/abs/10.1140/epjc/s10052-015-3628-x).

Eur.Phys.J. C75 (2015) no.9, 412.

79) Measurement of differential J/ψ production cross sections and forward-backward ratios in $p + Pb$ collisions with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1505.08141 [hep-ex].

[10.1103/PhysRevC.92.034904](https://arxiv.org/abs/10.1103/PhysRevC.92.034904).

Phys.Rev. C92 (2015) no.3, 034904.

80) Search for new light gauge bosons in Higgs boson decays to four-lepton final states in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector at the LHC

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1505.07645 [hep-ex].

[10.1103/PhysRevD.92.092001](https://arxiv.org/abs/10.1103/PhysRevD.92.092001).

Phys.Rev. D92 (2015) no.9, 092001.

81) A search for $\overline{t}t$ resonances using lepton-plus-jets events in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1505.07018 [hep-ex].

[10.1007/JHEP08\(2015\)148](https://arxiv.org/abs/10.1007/JHEP08(2015)148).

JHEP 1508 (2015) 148.

82) Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1505.04306 [hep-ex].

[10.1007/JHEP08\(2015\)105](https://arxiv.org/abs/10.1007/JHEP08(2015)105).

JHEP 1508 (2015) 105.

83) Search for Higgs bosons decaying to aa in the $\mu\mu\tau\tau$ final state in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS experiment

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1505.01609 [hep-ex].

[10.1103/PhysRevD.92.052002](https://arxiv.org/abs/10.1103/PhysRevD.92.052002).

Phys.Rev. D92 (2015) no.5, 052002.

84) Measurements of the Total and Differential Higgs Boson Production Cross Sections Combining the $H\rightarrow\gamma\gamma$ and $H\rightarrow ZZ^*\rightarrow 4\ell$ Decay Channels at $\sqrt{s}=8$ TeV with the ATLAS Detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1504.05833 [hep-ex].

[10.1103/PhysRevLett.115.091801](https://arxiv.org/abs/10.1103/PhysRevLett.115.091801).

Phys.Rev.Lett. 115 (2015) no.9, 091801.

85) Search for high-mass diphoton resonances in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1504.05511 [hep-ex].

[10.1103/PhysRevD.92.032004](https://arxiv.org/abs/10.1103/PhysRevD.92.032004).

Phys.Rev. D92 (2015) no.3, 032004.

86) Search for massive, long-lived particles using multitrack displaced vertices or displaced lepton pairs in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1504.05162 [hep-ex].

[10.1103/PhysRevD.92.072004](https://arxiv.org/abs/10.1103/PhysRevD.92.072004).

Phys.Rev. D92 (2015) no.7, 072004.

87) Analysis of events with b -jets and a pair of leptons of the same charge in pp

collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1504.04605 [hep-ex].
[10.1007/JHEP10\(2015\)150](https://arxiv.org/abs/10.1007/JHEP10(2015)150).
JHEP 1510 (2015) 150.

88) Measurement of charged-particle spectra in Pb+Pb collisions at
 $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1504.04337 [hep-ex].
[10.1007/JHEP09\(2015\)050](https://arxiv.org/abs/10.1007/JHEP09(2015)050).
JHEP 1509 (2015) 050.

89) Search for invisible decays of the Higgs boson produced in association with a
hadronically decaying vector boson in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS
detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1504.04324 [hep-ex].
[10.1140/epjc/s10052-015-3551-1](https://arxiv.org/abs/10.1140/epjc/s10052-015-3551-1).
Eur.Phys.J. C75 (2015) no.7, 337.

90) Measurement of the top pair production cross section in 8 TeV proton-proton collisions
using kinematic information in the lepton+jets final state with ATLAS
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1504.04251 [hep-ex].
[10.1103/PhysRevD.91.112013](https://arxiv.org/abs/10.1103/PhysRevD.91.112013).
Phys.Rev. D91 (2015) no.11, 112013.

91) Search for heavy long-lived multi-charged particles in pp collisions at
 $\sqrt{s}=8$ TeV using the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1504.04188 [hep-ex].
[10.1140/epjc/s10052-015-3534-2](https://arxiv.org/abs/10.1140/epjc/s10052-015-3534-2).
Eur.Phys.J. C75 (2015) 362.

92) Search for long-lived, weakly interacting particles that decay to displaced hadronic jets in
proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1504.03634 [hep-ex].
[10.1103/PhysRevD.92.012010](https://arxiv.org/abs/10.1103/PhysRevD.92.012010).
Phys.Rev. D92 (2015) no.1, 012010.

93) Measurement of the correlation between flow harmonics of different order in lead-lead
collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1504.01289 [hep-ex].
[10.1103/PhysRevC.92.034903](https://arxiv.org/abs/10.1103/PhysRevC.92.034903).
Phys.Rev. C92 (2015) no.3, 034903.

94) Search for New Phenomena in Dijet Angular Distributions in Proton-Proton Collisions at
 $\sqrt{s} = 8$ TeV Measured with the ATLAS Detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1504.00357 [hep-ex].
[10.1103/PhysRevLett.114.221802](https://doi.org/10.1103/PhysRevLett.114.221802).
Phys.Rev.Lett. 114 (2015) no.22, 221802.

95) Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at $\sqrt{s}=8$ TeV
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1503.08988 [hep-ex].
[10.1007/JHEP07\(2015\)032](https://doi.org/10.1007/JHEP07(2015)032).
JHEP 1507 (2015) 032.

96) Search for a new resonance decaying to a W or Z boson and a Higgs boson in the $\ell\ell/\ell\nu/\nu\nu + b\bar{b}$ final states with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1503.08089 [hep-ex].
[10.1140/epjc/s10052-015-3474-x](https://doi.org/10.1140/epjc/s10052-015-3474-x).
Eur.Phys.J. C75 (2015) no.6, 263.

97) Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS Experiments
By ATLAS and CMS Collaborations (Georges Aad et al.).
arXiv:1503.07589 [hep-ex].
[10.1103/PhysRevLett.114.191803](https://doi.org/10.1103/PhysRevLett.114.191803).
Phys.Rev.Lett. 114 (2015) 191803.

98) Measurement of the top quark mass in the $t\bar{t} \rightarrow \text{lepton+jets}$ and $t\bar{t} \rightarrow \text{dilepton}$ channels using $\sqrt{s}=7$ TeV ATLAS data
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1503.05427 [hep-ex].
[10.1140/epjc/s10052-015-3544-0](https://doi.org/10.1140/epjc/s10052-015-3544-0).
Eur.Phys.J. C75 (2015) no.7, 330.

99) Search for vector-like B quarks in events with one isolated lepton, missing transverse momentum and jets at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1503.05425 [hep-ex].
[10.1103/PhysRevD.91.112011](https://doi.org/10.1103/PhysRevD.91.112011).
Phys.Rev. D91 (2015) no.11, 112011.

100) Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $b\bar{b}$ in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1503.05066 [hep-ex].
[10.1140/epjc/s10052-015-3543-1](https://doi.org/10.1140/epjc/s10052-015-3543-1).
Eur.Phys.J. C75 (2015) no.7, 349.

101) Search for production of WW/WZ resonances decaying to a lepton, neutrino and jets in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).

arXiv:1503.04677 [hep-ex].

[10.1140/epjc/s10052-015-3593-4](https://arxiv.org/abs/10.1140/epjc/s10052-015-3593-4), [10.1140/epjc/s10052-015-3425-6](https://arxiv.org/abs/10.1140/epjc/s10052-015-3425-6).

Eur.Phys.J. C75 (2015) no.5, 209, Erratum: Eur.Phys.J. C75 (2015) 370.

102) Search for a Heavy Neutral Particle Decaying to $e\mu$, $e\tau$, or $\mu\tau$ in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1503.04430 [hep-ex].

[10.1103/PhysRevLett.115.031801](https://arxiv.org/abs/10.1103/PhysRevLett.115.031801).

Phys.Rev.Lett. 115 (2015) no.3, 031801.

103) Search for a Charged Higgs Boson Produced in the Vector-Boson Fusion Mode with Decay $H^{\pm} \rightarrow W^{\pm} Z$ using pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Experiment

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1503.04233 [hep-ex].

[10.1103/PhysRevLett.114.231801](https://arxiv.org/abs/10.1103/PhysRevLett.114.231801).

Phys.Rev.Lett. 114 (2015) no.23, 231801.

104) Measurement of the forward-backward asymmetry of electron and muon pair-production in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1503.03709 [hep-ex].

[10.1007/JHEP09\(2015\)049](https://arxiv.org/abs/10.1007/JHEP09(2015)049).

JHEP 1509 (2015) 049.

105) Determination of spin and parity of the Higgs boson in the $WW^* \rightarrow e\nu\mu$ decay channel with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1503.03643 [hep-ex].

[10.1140/epjc/s10052-015-3436-3](https://arxiv.org/abs/10.1140/epjc/s10052-015-3436-3).

Eur.Phys.J. C75 (2015) no.5, 231.

106) Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1503.03290 [hep-ex].

[10.1140/epjc/s10052-015-3661-9](https://arxiv.org/abs/10.1140/epjc/s10052-015-3661-9), [10.1140/epjc/s10052-015-3518-2](https://arxiv.org/abs/10.1140/epjc/s10052-015-3518-2).

Eur.Phys.J. C75 (2015) no.7, 318, Erratum: Eur.Phys.J. C75 (2015) no.10, 463.

107) Evidence of $W\gamma\gamma$ Production in pp Collisions at $s=8$ TeV and Limits on Anomalous Quartic Gauge Couplings with the ATLAS Detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1503.03243 [hep-ex].

[10.1103/PhysRevLett.115.031802](https://arxiv.org/abs/10.1103/PhysRevLett.115.031802).

Phys.Rev.Lett. 115 (2015) no.3, 031802.

108) Constraints on the off-shell Higgs boson signal strength in the high-mass ZZZ and WW final states with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1503.01060 [hep-ex].
[10.1140/epjc/s10052-015-3542-2](https://arxiv.org/abs/10.1140/epjc/s10052-015-3542-2).
Eur.Phys.J. C75 (2015) no.7, 335.

109) Two-particle Bose–Einstein correlations in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV measured with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1502.07947 [hep-ex].
[10.1140/epjc/s10052-015-3644-x](https://arxiv.org/abs/10.1140/epjc/s10052-015-3644-x).
Eur.Phys.J. C75 (2015) no.10, 466.

110) A search for high-mass resonances decaying to $\tau^+\tau^-$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1502.07177 [hep-ex].
[10.1007/JHEP07\(2015\)157](https://arxiv.org/abs/10.1007/JHEP07(2015)157).
JHEP 1507 (2015) 157.

111) Differential top-antitop cross-section measurements as a function of observables constructed from final-state particles using pp collisions at $\sqrt{s} = 7$ TeV in the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1502.05923 [hep-ex].
[10.1007/JHEP06\(2015\)100](https://arxiv.org/abs/10.1007/JHEP06(2015)100).
JHEP 1506 (2015) 100.

112) Search for massive supersymmetric particles decaying to many jets using the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1502.05686 [hep-ex].
[10.1103/PhysRevD.91.112016](https://arxiv.org/abs/10.1103/PhysRevD.91.112016), [10.1103/PhysRevD.93.039901](https://arxiv.org/abs/10.1103/PhysRevD.93.039901).
Phys.Rev. D91 (2015) no.11, 112016, Erratum: Phys.Rev. D93 (2016) no.3, 039901.

113) Search for a CP-odd Higgs boson decaying to Zh in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1502.04478 [hep-ex].
[10.1016/j.physletb.2015.03.054](https://arxiv.org/abs/10.1016/j.physletb.2015.03.054).
Phys.Lett. B744 (2015) 163-183.

114) Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1502.01518 [hep-ex].
[10.1140/epjc/s10052-015-3517-3](https://arxiv.org/abs/10.1140/epjc/s10052-015-3517-3), [10.1140/epjc/s10052-015-3639-7](https://arxiv.org/abs/10.1140/epjc/s10052-015-3639-7).
Eur.Phys.J. C75 (2015) no.7, 299, Erratum: Eur.Phys.J. C75 (2015) no.9, 408.

115) Observation of top-quark pair production in association with a photon and measurement of the $\bar{t}\gamma$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).

arXiv:1502.00586 [hep-ex].
[10.1103/PhysRevD.91.072007](https://doi.org/10.1103/PhysRevD.91.072007).
Phys.Rev. D91 (2015) no.7, 072007.

116) Measurement of the charge asymmetry in dileptonic decays of top quark pairs in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1501.07383 [hep-ex].
[10.1007/JHEP05\(2015\)061](https://doi.org/10.1007/JHEP05(2015)061).
JHEP 1505 (2015) 061.

117) Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1501.07110 [hep-ex].
[10.1140/epjc/s10052-015-3408-7](https://doi.org/10.1140/epjc/s10052-015-3408-7).
Eur.Phys.J. C75 (2015) no.5, 208.

118) Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1501.04943 [hep-ex].
[10.1007/JHEP04\(2015\)117](https://doi.org/10.1007/JHEP04(2015)117).
JHEP 1504 (2015) 117.

119) Search for pair-produced long-lived neutral particles decaying in the ATLAS hadronic calorimeter in pp collisions at $\sqrt{s} = 8$ TeV
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1501.04020 [hep-ex].
[10.1016/j.physletb.2015.02.015](https://doi.org/10.1016/j.physletb.2015.02.015).
Phys.Lett. B743 (2015) 15-34.

120) Search for squarks and gluinos in events with isolated leptons, jets and missing transverse momentum at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1501.03555 [hep-ex].
[10.1007/JHEP04\(2015\)116](https://doi.org/10.1007/JHEP04(2015)116).
JHEP 1504 (2015) 116.

121) Search for Higgs and Z Boson Decays to $J/\psi\gamma$ and $\Upsilon(nS)\gamma$ with the ATLAS Detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1501.03276 [hep-ex].
[10.1103/PhysRevLett.114.121801](https://doi.org/10.1103/PhysRevLett.114.121801).
Phys.Rev.Lett. 114 (2015) no.12, 121801.

122) Search for Scalar Charm Quark Pair Production in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1501.01325 [hep-ex].
[10.1103/PhysRevLett.114.161801](https://doi.org/10.1103/PhysRevLett.114.161801).
Phys.Rev.Lett. 114 (2015) no.16, 161801.

123) Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at $\sqrt{s}=8$ TeV

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1412.7086 [hep-ex].

[10.1140/epjc/s10052-015-3500-z](https://arxiv.org/abs/1412.7086).

Eur.Phys.J. C75 (2015) no.7, 303.

124) Search for charged Higgs bosons decaying via $H^{\pm} \rightarrow \tau^{\pm} \nu$ in fully hadronic final states using pp collision data at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1412.6663 [hep-ex].

[10.1007/JHEP03\(2015\)088](https://arxiv.org/abs/1412.6663).

JHEP 1503 (2015) 088.

125) Observation and measurements of the production of prompt and non-prompt J/ψ mesons in association with a Z boson in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1412.6428 [hep-ex].

[10.1140/epjc/s10052-015-3406-9](https://arxiv.org/abs/1412.6428).

Eur.Phys.J. C75 (2015) no.5, 229.

126) Measurement of Spin Correlation in Top-Antitop Quark Events and Search for Top Squark Pair Production in pp Collisions at $\sqrt{s}=8$ TeV Using the ATLAS Detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1412.4742 [hep-ex].

[10.1103/PhysRevLett.114.142001](https://arxiv.org/abs/1412.4742).

Phys.Rev.Lett. 114 (2015) no.14, 142001.

127) Centrality and rapidity dependence of inclusive jet production in

$\sqrt{s_{\text{NN}}} = 5.02$ TeV proton-lead collisions with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1412.4092 [hep-ex].

[10.1016/j.physletb.2015.07.023](https://arxiv.org/abs/1412.4092).

Phys.Lett. B748 (2015) 392-413.

128) Observation and measurement of Higgs boson decays to WW^{**} with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1412.2641 [hep-ex].

[10.1103/PhysRevD.92.012006](https://arxiv.org/abs/1412.2641).

Phys.Rev. D92 (2015) no.1, 012006.

132) Search for new phenomena in events with three or more charged leptons in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1411.2921 [hep-ex].

[10.1007/JHEP08\(2015\)138](https://arxiv.org/abs/1411.2921).

JHEP 1508 (2015) 138.

133) Measurements of the Nuclear Modification Factor for Jets in Pb+Pb Collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV with the ATLAS Detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1411.2357 [hep-ex].
[10.1103/PhysRevLett.114.072302](https://doi.org/10.1103/PhysRevLett.114.072302).
Phys.Rev.Lett. 114 (2015) no.7, 072302.

134) Measurement of three-jet production cross-sections in \sqrt{s} collisions at 7 TeV centre-of-mass energy using the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1411.1855 [hep-ex].
[10.1140/epjc/s10052-015-3363-3](https://doi.org/10.1140/epjc/s10052-015-3363-3).
Eur.Phys.J. C75 (2015) no.5, 228.

135) Search for new phenomena in events with a photon and missing transverse momentum in \sqrt{s} collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1411.1559 [hep-ex].
[10.1103/PhysRevD.92.059903](https://doi.org/10.1103/PhysRevD.92.059903), [10.1103/PhysRevD.91.012008](https://doi.org/10.1103/PhysRevD.91.012008).
Phys.Rev. D91 (2015) no.1, 012008, Erratum: Phys.Rev. D92 (2015) no.5, 059903.

137) Measurement of the $WW+WZ$ cross section and limits on anomalous triple gauge couplings using final states with one lepton, missing transverse momentum, and two jets with the ATLAS detector at $\sqrt{s}=7$ TeV
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1410.7238 [hep-ex].
[10.1007/JHEP01\(2015\)049](https://doi.org/10.1007/JHEP01(2015)049).
JHEP 1501 (2015) 049.

140) Search for $W' \rightarrow t\bar{b}$ in the lepton plus jets final state in proton-proton collisions at a centre-of-mass energy of $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1410.4103 [hep-ex].
[10.1016/j.physletb.2015.02.051](https://doi.org/10.1016/j.physletb.2015.02.051).
Phys.Lett. B743 (2015) 235-255.

143) Search for the \bar{b} decay of the Standard Model Higgs boson in associated $(W/Z)H$ production with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1409.6212 [hep-ex].
[10.1007/JHEP01\(2015\)069](https://doi.org/10.1007/JHEP01(2015)069).
JHEP 1501 (2015) 069.

144) Search for resonant diboson production in the $\ell\ell q\bar{q}$ final state in \sqrt{s} collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1409.6190 [hep-ex].

[10.1140/epjc/s10052-015-3261-8](https://doi.org/10.1140/epjc/s10052-015-3261-8).

Eur.Phys.J. C75 (2015) 69.

145) Search for $H \rightarrow \gamma\gamma$ produced in association with top quarks and constraints on the Yukawa coupling between the top quark and the Higgs boson using data taken at 7 TeV and 8 TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1409.3122 [hep-ex].

[10.1016/j.physletb.2014.11.049](https://doi.org/10.1016/j.physletb.2014.11.049).

Phys.Lett. B740 (2015) 222-242.

146) Measurement of the top-quark mass in the fully hadronic decay channel from ATLAS data at $\sqrt{s} = 7 \text{ TeV}$

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1409.0832 [hep-ex].

[10.1140/epjc/s10052-015-3373-1](https://doi.org/10.1140/epjc/s10052-015-3373-1).

Eur.Phys.J. C75 (2015) no.4, 158.

147) Measurements of Higgs boson production and couplings in the four-lepton channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1408.5191 [hep-ex].

[10.1103/PhysRevD.91.012006](https://doi.org/10.1103/PhysRevD.91.012006).

Phys.Rev. D91 (2015) no.1, 012006.

149) Performance of the ATLAS muon trigger in pp collisions at $\sqrt{s} = 8 \text{ TeV}$

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1408.3179 [hep-ex].

[10.1140/epjc/s10052-015-3325-9](https://doi.org/10.1140/epjc/s10052-015-3325-9).

Eur.Phys.J. C75 (2015) 120.

150) Search for $W' \rightarrow tb \rightarrow qqbb$ decays in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1408.0886 [hep-ex].

[10.1140/epjc/s10052-015-3372-2](https://doi.org/10.1140/epjc/s10052-015-3372-2).

Eur.Phys.J. C75 (2015) no.4, 165.

151) Search for new phenomena in the dijet mass distribution using pp collision data at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1407.1376 [hep-ex].

[10.1103/PhysRevD.91.052007](https://doi.org/10.1103/PhysRevD.91.052007).

Phys.Rev. D91 (2015) no.5, 052007.

153) Simultaneous measurements of the $t\bar{t}$, W^+W^- , and $Z\gamma^* \rightarrow \tau\tau$ production cross-sections in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1407.0573 [hep-ex].
[10.1103/PhysRevD.91.052005](https://arxiv.org/abs/1407.0573).
Phys.Rev. D91 (2015) no.5, 052005.

154) Search For Higgs Boson Pair Production in the $\gamma\gamma b\bar{b}$ Final State using \sqrt{s} Collision Data at $\sqrt{s}=8$ TeV from the ATLAS Detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1406.5053 [hep-ex].
[10.1103/PhysRevLett.114.081802](https://arxiv.org/abs/1406.5053).
Phys.Rev.Lett. 114 (2015) no.8, 081802.

155) Jet energy measurement and its systematic uncertainty in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1406.0076 [hep-ex].
[10.1140/epjc/s10052-014-3190-y](https://arxiv.org/abs/1406.0076).
Eur.Phys.J. C75 (2015) 17.

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8) Measurement of the transverse polarization of Λ and $\bar{\Lambda}$ hyperons produced in proton-proton collisions at $\sqrt{s}=7$ TeV using the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1412.1692 [hep-ex].
[10.1103/PhysRevD.91.032004](https://arxiv.org/abs/1412.1692).
Phys.Rev. D91 (2015) no.3, 032004.

9) Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with $\sqrt{s}=8$ TeV \sqrt{s} collisions using the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1412.0237 [hep-ex].
[10.1007/JHEP03\(2015\)041](https://arxiv.org/abs/1412.0237).
JHEP 1503 (2015) 041.

10) Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at $\sqrt{s}=8$ TeV
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1411.6795 [hep-ex].
[10.1007/JHEP01\(2015\)068](https://arxiv.org/abs/1411.6795).
JHEP 1501 (2015) 068.

15) Measurement of the inclusive jet cross-section in proton-proton collisions at $\sqrt{s}=7$ TeV using 4.5 fb^{-1} of data with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1410.8857 [hep-ex].
[10.1007/JHEP02\(2015\)153](https://arxiv.org/abs/10.1007/JHEP02(2015)153), [10.1007/JHEP09\(2015\)141](https://arxiv.org/abs/10.1007/JHEP09(2015)141).
JHEP 1502 (2015) 153, Erratum: JHEP 1509 (2015) 141.

17) Search for invisible particles produced in association with single-top-quarks in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1410.5404 [hep-ex].
[10.1140/epjc/s10052-014-3233-4](https://arxiv.org/abs/10.1140/epjc/s10052-014-3233-4).
Eur.Phys.J. C75 (2015) no.2, 79.

18) Search for the X_b and other hidden-beauty states in the $\pi^+ \pi^- \Upsilon(1S)$ channel at ATLAS
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1410.4409 [hep-ex].
[10.1016/j.physletb.2014.11.055](https://arxiv.org/abs/10.1016/j.physletb.2014.11.055).
Phys.Lett. B740 (2015) 199-217.

20) Search for dark matter in events with heavy quarks and missing transverse momentum in pp collisions with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1410.4031 [hep-ex].
[10.1140/epjc/s10052-015-3306-z](https://arxiv.org/abs/10.1140/epjc/s10052-015-3306-z).
Eur.Phys.J. C75 (2015) no.2, 92.

21) Search for $s\bar{s}$ -channel single top-quark production in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1410.0647 [hep-ex].
[10.1016/j.physletb.2014.11.042](https://arxiv.org/abs/10.1016/j.physletb.2014.11.042).
Phys.Lett. B740 (2015) 118-136.

22) Measurements of the W production cross sections in association with jets with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1409.8639 [hep-ex].
[10.1140/epjc/s10052-015-3262-7](https://arxiv.org/abs/10.1140/epjc/s10052-015-3262-7).
Eur.Phys.J. C75 (2015) no.2, 82.

25) Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1409.6064 [hep-ex].
[10.1007/JHEP11\(2014\)056](https://arxiv.org/abs/10.1007/JHEP11(2014)056).
JHEP 1411 (2014) 056.

- 26) Search for nonpointing and delayed photons in the diphoton and missing transverse momentum final state in 8 TeV pp collisions at the LHC using the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1409.5542 [hep-ex].
[10.1103/PhysRevD.90.112005](https://arxiv.org/abs/10.1103/PhysRevD.90.112005).
Phys.Rev. D90 (2014) no.11, 112005.
- 27) Search for pair and single production of new heavy quarks that decay to a Z boson and a third-generation quark in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1409.5500 [hep-ex].
[10.1007/JHEP11\(2014\)104](https://arxiv.org/abs/10.1007/JHEP11(2014)104).
JHEP 1411 (2014) 104.
- 30) Measurement of long-range pseudorapidity correlations and azimuthal harmonics in $\sqrt{s_{NN}}=5.02$ TeV proton-lead collisions with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1409.1792 [hep-ex].
[10.1103/PhysRevC.90.044906](https://arxiv.org/abs/10.1103/PhysRevC.90.044906).
Phys.Rev. C90 (2014) no.4, 044906.
- 32) Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1409.0746 [hep-ex].
[10.1007/JHEP11\(2014\)088](https://arxiv.org/abs/10.1007/JHEP11(2014)088).
JHEP 1411 (2014) 088.
- 33) Measurement of Higgs boson production in the diphoton decay channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1408.7084 [hep-ex].
[10.1103/PhysRevD.90.112015](https://arxiv.org/abs/10.1103/PhysRevD.90.112015).
Phys.Rev. D90 (2014) no.11, 112015.
- 34) A measurement of the ratio of the production cross sections for W and Z bosons in association with jets with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1408.6510 [hep-ex].
[10.1140/epjc/s10052-014-3168-9](https://arxiv.org/abs/10.1140/epjc/s10052-014-3168-9).
Eur.Phys.J. C74 (2014) no.12, 3168.
- 35) Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1408.5778 [hep-ex].
[10.1016/j.nuclphysb.2014.10.019](https://arxiv.org/abs/10.1016/j.nuclphysb.2014.10.019).
Nucl.Phys. B889 (2014) 486-548.

36) Search for the lepton flavor violating decay $Z \rightarrow e\mu$ in pp collisions at \sqrt{s} TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1408.5774 [hep-ex].

[10.1103/PhysRevD.90.072010](https://doi.org/10.1103/PhysRevD.90.072010).

Phys.Rev. D90 (2014) no.7, 072010.

37) Measurements of Higgs boson production and couplings in the four-lepton channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1408.5191 [hep-ex].

[10.1103/PhysRevD.91.012006](https://doi.org/10.1103/PhysRevD.91.012006).

Phys.Rev. D91 (2015) no.1, 012006.

38) Measurement of the production and lepton charge asymmetry of W bosons in Pb+Pb collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1408.4674 [hep-ex].

[10.1140/epjc/s10052-014-3231-6](https://doi.org/10.1140/epjc/s10052-014-3231-6).

Eur.Phys.J. C75 (2015) no.1, 23.

39) Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1408.4342 [hep-ex].

[10.1140/epjc/s10052-014-3157-z](https://doi.org/10.1140/epjc/s10052-014-3157-z).

Eur.Phys.J. C74 (2014) no.11, 3157.

40) Fiducial and differential cross sections of Higgs boson production measured in the four-lepton decay channel in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1408.3226 [hep-ex].

[10.1016/j.physletb.2014.09.054](https://doi.org/10.1016/j.physletb.2014.09.054).

Phys.Lett. B738 (2014) 234-253.

43) Search for new resonances in $W\gamma$ and $Z\gamma$ final states in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1407.8150 [hep-ex].

[10.1016/j.physletb.2014.10.002](https://doi.org/10.1016/j.physletb.2014.10.002).

Phys.Lett. B738 (2014) 428-447.

44) Search for new particles in events with one lepton and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1407.7494 [hep-ex].

[10.1007/JHEP09\(2014\)037](https://doi.org/10.1007/JHEP09(2014)037).

JHEP 1409 (2014) 037.

- 45) Search for Scalar Diphoton Resonances in the Mass Range $65-600$ GeV with the ATLAS Detector in \sqrt{s} Collision Data at $\sqrt{s} = 8$ TeV
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1407.6583 [hep-ex].
[10.1103/PhysRevLett.113.171801](https://arxiv.org/abs/10.1103/PhysRevLett.113.171801).
Phys.Rev.Lett. 113 (2014) no.17, 171801.
- 46) Measurements of jet vetoes and azimuthal decorrelations in dijet events produced in \sqrt{s} collisions at $\sqrt{s}=7$ TeV using the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1407.5756 [hep-ex].
[10.1140/epjc/s10052-014-3117-7](https://arxiv.org/abs/10.1140/epjc/s10052-014-3117-7).
Eur.Phys.J. C74 (2014) no.11, 3117.
- 48) Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1407.5063 [hep-ex].
[10.1140/epjc/s10052-014-3071-4](https://arxiv.org/abs/10.1140/epjc/s10052-014-3071-4).
Eur.Phys.J. C74 (2014) no.10, 3071.
- 49) Measurements of spin correlation in top-antitop quark events from proton-proton collisions at $\sqrt{s}=7$ TeV using the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1407.4314 [hep-ex].
[10.1103/PhysRevD.90.112016](https://arxiv.org/abs/10.1103/PhysRevD.90.112016).
Phys.Rev. D90 (2014) no.11, 112016.
- 50) Measurements of fiducial and differential cross sections for Higgs boson production in the diphoton decay channel at $\sqrt{s}=8$ TeV with ATLAS
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1407.4222 [hep-ex].
[10.1007/JHEP09\(2014\)112](https://arxiv.org/abs/10.1007/JHEP09(2014)112).
JHEP 1409 (2014) 112.
- 51) Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1407.3935 [hep-ex].
[10.1140/epjc/s10052-014-3130-x](https://arxiv.org/abs/10.1140/epjc/s10052-014-3130-x).
Eur.Phys.J. C74 (2014) no.11, 3130.
- 52) Measurement of differential production cross-sections for a Z boson in association with b -jets in 7 TeV proton-proton collisions with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1407.3643 [hep-ex].
[10.1007/JHEP10\(2014\)141](https://arxiv.org/abs/10.1007/JHEP10(2014)141).
JHEP 1410 (2014) 141.
- 53) Search for contact interactions and large extra dimensions in the dilepton channel using proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1407.2410 [hep-ex].
[10.1140/epjc/s10052-014-3134-6](https://arxiv.org/abs/10.1140/epjc/s10052-014-3134-6).
Eur.Phys.J. C74 (2014) no.12, 3134.

54) Flavor tagged time-dependent angular analysis of the $B_s \rightarrow J/\psi \phi$ decay and extraction of $\Delta\Gamma$ and the weak phase ϕ_s in ATLAS
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1407.1796 [hep-ex].
[10.1103/PhysRevD.90.052007](https://arxiv.org/abs/10.1103/PhysRevD.90.052007).
Phys.Rev. D90 (2014) no.5, 052007.

56) Observation of an Excited B_c^{\pm} Meson State with the ATLAS Detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1407.1032 [hep-ex].
[10.1103/PhysRevLett.113.212004](https://arxiv.org/abs/10.1103/PhysRevLett.113.212004).
Phys.Rev.Lett. 113 (2014) no.21, 212004.

57) Measurement of the $t\bar{t}$ production cross-section as a function of jet multiplicity and jet transverse momentum in 7 TeV proton-proton collisions with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1407.0891 [hep-ex].
[10.1007/JHEP01\(2015\)020](https://arxiv.org/abs/10.1007/JHEP01(2015)020).
JHEP 1501 (2015) 020.

58) Measurement of the cross-section of high transverse momentum vector bosons reconstructed as single jets and studies of jet substructure in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1407.0800 [hep-ex].
[10.1088/1367-2630/16/11/113013](https://arxiv.org/abs/10.1088/1367-2630/16/11/113013).
New J.Phys. 16 (2014) no.11, 113013.

59) Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in pp collisions at $\sqrt{s} = 8\text{--}13$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1407.0608 [hep-ex].
[10.1103/PhysRevD.90.052008](https://arxiv.org/abs/10.1103/PhysRevD.90.052008).
Phys.Rev. D90 (2014) no.5, 052008.

60) Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 20 fb⁻¹ of $\sqrt{s} = 8$ TeV proton-proton collision data with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1407.0603 [hep-ex].
[10.1007/JHEP09\(2014\)103](https://arxiv.org/abs/10.1007/JHEP09(2014)103).
JHEP 1409 (2014) 103.

61) Search for strong production of supersymmetric particles in final states with missing

transverse momentum and at least three b -jets at $\sqrt{s} = 8$ TeV proton-proton collisions with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1407.0600 [hep-ex].

[10.1007/JHEP10\(2014\)024](https://arxiv.org/abs/10.1007/JHEP10(2014)024).

JHEP 1410 (2014) 024.

62) Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1407.0583 [hep-ex].

[10.1007/JHEP11\(2014\)118](https://arxiv.org/abs/10.1007/JHEP11(2014)118).

JHEP 1411 (2014) 118.

64) Measurements of normalized differential cross sections for $t\bar{t}$ production in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1407.0371 [hep-ex].

[10.1103/PhysRevD.90.072004](https://arxiv.org/abs/10.1103/PhysRevD.90.072004).

Phys.Rev. D90 (2014) no.7, 072004.

65) Search for the direct production of charginos, neutralinos and staus in final states with at least two hadronically decaying taus and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1407.0350 [hep-ex].

[10.1007/JHEP10\(2014\)096](https://arxiv.org/abs/10.1007/JHEP10(2014)096).

JHEP 1410 (2014) 096.

66) Comprehensive measurements of t -channel single top-quark production cross sections at $\sqrt{s} = 7$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1406.7844 [hep-ex].

[10.1103/PhysRevD.90.112006](https://arxiv.org/abs/10.1103/PhysRevD.90.112006).

Phys.Rev. D90 (2014) no.11, 112006.

67) A neural network clustering algorithm for the ATLAS silicon pixel detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1406.7690 [hep-ex].

[10.1088/1748-0221/9/09/P09009](https://arxiv.org/abs/10.1088/1748-0221/9/09/P09009).

JINST 9 (2014) P09009.

68) Search for the Standard Model Higgs boson decay to $\mu^+\mu^-$ with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1406.7663 [hep-ex].

[10.1016/j.physletb.2014.09.008](https://arxiv.org/abs/10.1016/j.physletb.2014.09.008).

Phys.Lett. B738 (2014) 68-86.

69) Measurement of the $t\bar{t}$ production cross-section using $e\mu$ events with b -

tagged jets in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1406.5375 [hep-ex].

[10.1140/epjc/s10052-014-3109-7](https://arxiv.org/abs/1406.5375), [10.1140/epjc/s10052-016-4501-2](https://arxiv.org/abs/1406.5375).

Eur.Phys.J. C74 (2014) no.10, 3109, Addendum: Eur.Phys.J. C76 (2016) no.11, 642.

71) Search for WZ resonances in the fully leptonic channel using pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1406.4456 [hep-ex].

[10.1016/j.physletb.2014.08.039](https://arxiv.org/abs/1406.4456).

Phys.Lett. B737 (2014) 223-243.

73) Measurement of the Z/γ^* boson transverse momentum distribution in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1406.3660 [hep-ex].

[10.1007/JHEP09\(2014\)145](https://arxiv.org/abs/1406.3660).

JHEP 1409 (2014) 145.

74) Measurement of inclusive jet charged-particle fragmentation functions in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1406.2979 [hep-ex].

[10.1016/j.physletb.2014.10.065](https://arxiv.org/abs/1406.2979).

Phys.Lett. B739 (2014) 320-342.

75) Search for direct pair production of the top squark in all-hadronic final states in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1406.1122 [hep-ex].

[10.1007/JHEP09\(2014\)015](https://arxiv.org/abs/1406.1122).

JHEP 1409 (2014) 015.

76) Measurement of the underlying event in jet events from 7 TeV proton-proton collisions with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1406.0392 [hep-ex].

[10.1140/epjc/s10052-014-2965-5](https://arxiv.org/abs/1406.0392).

Eur.Phys.J. C74 (2014) no.8, 2965.

78) Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $\sqrt{s} = 8 \text{ TeV}$ proton-proton collision data

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1405.7875 [hep-ex].

[10.1007/JHEP09\(2014\)176](https://arxiv.org/abs/1405.7875).

JHEP 1409 (2014) 176.

- 79) Light-quark and gluon jet discrimination in pp collisions at $\sqrt{s}=7\text{ TeV}$ with the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1405.6583 [hep-ex].
[10.1140/epjc/s10052-014-3023-z](https://arxiv.org/abs/1405.6583).
 Eur.Phys.J. C74 (2014) no.8, 3023.
- 80) Evidence for Electroweak Production of $W^{\pm}W^{\pm}jj$ in pp Collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS Detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1405.6241 [hep-ex].
[10.1103/PhysRevLett.113.141803](https://arxiv.org/abs/1405.6241).
 Phys.Rev.Lett. 113 (2014) no.14, 141803.
- 81) Search for supersymmetry in events with four or more leptons in $\sqrt{s}=8\text{ TeV}$ pp collisions with the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1405.5086 [hep-ex].
[10.1103/PhysRevD.90.052001](https://arxiv.org/abs/1405.5086).
 Phys.Rev. D90 (2014) no.5, 052001.
- 82) Search for microscopic black holes and string balls in final states with leptons and jets with the ATLAS detector at $\sqrt{s}=8\text{ TeV}$
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1405.4254 [hep-ex].
[10.1007/JHEP08\(2014\)103](https://arxiv.org/abs/1405.4254).
 JHEP 1408 (2014) 103.
- 83) Search for high-mass dilepton resonances in pp collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1405.4123 [hep-ex].
[10.1103/PhysRevD.90.052005](https://arxiv.org/abs/1405.4123).
 Phys.Rev. D90 (2014) no.5, 052005.
- 84) Measurement of the centrality and pseudorapidity dependence of the integrated elliptic flow in lead-lead collisions at $\sqrt{s_{\text{NN}}}=2.76\text{ TeV}$ with the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1405.3936 [hep-ex].
[10.1140/epjc/s10052-014-2982-4](https://arxiv.org/abs/1405.3936).
 Eur.Phys.J. C74 (2014) no.8, 2982.
- 85) Monitoring and data quality assessment of the ATLAS liquid argon calorimeter
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1405.3768 [hep-ex].
[10.1088/1748-0221/9/07/P07024](https://arxiv.org/abs/1405.3768).
 JINST 9 (2014) P07024.
- 86) Operation and performance of the ATLAS semiconductor tracker

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1404.7473 [hep-ex].
[10.1088/1748-0221/9/08/P08009](https://arxiv.org/abs/10.1088/1748-0221/9/08/P08009).
JINST 9 (2014) P08009.

87) Measurement of the cross section of high transverse momentum $Z \rightarrow b\bar{b}$ production in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1404.7042 [hep-ex].
[10.1016/j.physletb.2014.09.020](https://arxiv.org/abs/10.1016/j.physletb.2014.09.020).
Phys.Lett. B738 (2014) 25-43.

88) Measurement of χ_{c1} and χ_{c2} production with $\sqrt{s} = 7$ TeV pp collisions at ATLAS
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1404.7035 [hep-ex].
[10.1007/JHEP07\(2014\)154](https://arxiv.org/abs/10.1007/JHEP07(2014)154).
JHEP 1407 (2014) 154.

89) Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at $\sqrt{s} = 7$ TeV in 2010
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1404.4562 [hep-ex].
[10.1140/epjc/s10052-014-3034-9](https://arxiv.org/abs/10.1140/epjc/s10052-014-3034-9).
Eur.Phys.J. C74 (2014) no.9, 3034.

90) Search for supersymmetry at $\sqrt{s}=8$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1404.2500 [hep-ex].
[10.1007/JHEP06\(2014\)035](https://arxiv.org/abs/10.1007/JHEP06(2014)035).
JHEP 1406 (2014) 035.

91) Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1404.2240 [hep-ex].
[10.1140/epjc/s10052-014-2941-0](https://arxiv.org/abs/10.1140/epjc/s10052-014-2941-0).
Eur.Phys.J. C74 (2014) no.7, 2941.

92) Measurement of the low-mass Drell-Yan differential cross section at $\sqrt{s} = 7$ TeV using the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1404.1212 [hep-ex].
[10.1007/JHEP06\(2014\)112](https://arxiv.org/abs/10.1007/JHEP06(2014)112).
JHEP 1406 (2014) 112.

93) Measurement of the parity-violating asymmetry parameter α_b and the helicity amplitudes for the decay $\Lambda_b^0 \rightarrow J/\psi + \Lambda^0$ with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1404.1071 [hep-ex].

[10.1103/PhysRevD.89.092009](https://arxiv.org/abs/10.1103/PhysRevD.89.092009).
Phys.Rev. D89 (2014) no.9, 092009.

95) Search for top quark decays $t \rightarrow qH$ with $H \rightarrow \gamma\gamma$ using the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1403.6293 [hep-ex].
[10.1007/JHEP06\(2014\)008](https://arxiv.org/abs/10.1007/JHEP06(2014)008).
JHEP 1406 (2014) 008.

97) Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1403.5294 [hep-ex].
[10.1007/JHEP05\(2014\)071](https://arxiv.org/abs/10.1007/JHEP05(2014)071).
JHEP 1405 (2014) 071.

98) Search for direct top squark pair production in events with a Z boson, b-jets and missing transverse momentum in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1403.5222 [hep-ex].
[10.1140/epjc/s10052-014-2883-6](https://arxiv.org/abs/10.1140/epjc/s10052-014-2883-6).
Eur.Phys.J. C74 (2014) no.6, 2883.

99) Search for direct top-squark pair production in final states with two leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1403.4853 [hep-ex].
[10.1007/JHEP06\(2014\)124](https://arxiv.org/abs/10.1007/JHEP06(2014)124).
JHEP 1406 (2014) 124.

100) Measurement of event-plane correlations in $\sqrt{s_{NN}}=2.76$ TeV lead-lead collisions with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1403.0489 [hep-ex].
[10.1103/PhysRevC.90.024905](https://arxiv.org/abs/10.1103/PhysRevC.90.024905).
Phys.Rev. C90 (2014) no.2, 024905.

101) Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1402.7029 [hep-ex].
[10.1007/JHEP04\(2014\)169](https://arxiv.org/abs/10.1007/JHEP04(2014)169).
JHEP 1404 (2014) 169.

102) Measurement of the production of a W boson in association with a charm quark in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1402.6263 [hep-ex].
[10.1007/JHEP05\(2014\)068](https://arxiv.org/abs/10.1007/JHEP05(2014)068).
JHEP 1405 (2014) 068.

103) Search for Invisible Decays of a Higgs Boson Produced in Association with a Z Boson in ATLAS

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1402.3244 [hep-ex].
[10.1103/PhysRevLett.112.201802](https://arxiv.org/abs/10.1103/PhysRevLett.112.201802).
Phys.Rev.Lett. 112 (2014) 201802.

104) Search for Higgs boson decays to a photon and a Z boson in pp collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1402.3051 [hep-ex].
[10.1016/j.physletb.2014.03.015](https://arxiv.org/abs/10.1016/j.physletb.2014.03.015).
Phys.Lett. B732 (2014) 8-27.

105) Measurement of the electroweak production of dijets in association with a Z-boson and distributions sensitive to vector boson fusion in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1401.7610 [hep-ex].
[10.1007/JHEP04\(2014\)031](https://arxiv.org/abs/10.1007/JHEP04(2014)031).
JHEP 1404 (2014) 031.

106) Measurement of the production cross section of prompt J/ψ mesons in association with a W^\pm boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1401.2831 [hep-ex].
[10.1007/JHEP04\(2014\)172](https://arxiv.org/abs/10.1007/JHEP04(2014)172).
JHEP 1404 (2014) 172.

107) Measurement of dijet cross sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1312.3524 [hep-ex].
[10.1007/JHEP05\(2014\)059](https://arxiv.org/abs/10.1007/JHEP05(2014)059).
JHEP 1405 (2014) 059.

108) Search for a multi-Higgs-boson cascade in $W^+W^-b\bar{b}$ events with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1312.1956 [hep-ex].
[10.1103/PhysRevD.89.032002](https://arxiv.org/abs/10.1103/PhysRevD.89.032002).
Phys.Rev. D89 (2014) no.3, 032002.

109) Standalone vertex finding in the ATLAS muon spectrometer

By ATLAS Collaboration (Georges Aad et al.).
arXiv:1311.7070 [physics.ins-det].

[10.1088/1748-0221/9/02/P02001](https://doi.org/10.1088/1748-0221/9/02/P02001).

JINST 9 (2014) P02001.

110) Measurement of the top quark pair production charge asymmetry in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1311.6724 [hep-ex].

[10.1007/JHEP02\(2014\)107](https://doi.org/10.1007/JHEP02(2014)107).

JHEP 1402 (2014) 107.

111) Search for Quantum Black Hole Production in High-Invariant-Mass Lepton+Jet Final States Using pp Collisions at $\sqrt{s} = 8$ TeV and the ATLAS Detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1311.2006 [hep-ex].

[10.1103/PhysRevLett.112.091804](https://doi.org/10.1103/PhysRevLett.112.091804).

Phys.Rev.Lett. 112 (2014) no.9, 091804.

112) Measurement of the inclusive isolated prompt photons cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector using 4.6 fb^{-1}

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1311.1440 [hep-ex].

[10.1103/PhysRevD.89.052004](https://doi.org/10.1103/PhysRevD.89.052004).

Phys.Rev. D89 (2014) no.5, 052004.

113) Search for long-lived stopped R-hadrons decaying out-of-time with pp collisions using the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1310.6584 [hep-ex].

[10.1103/PhysRevD.88.112003](https://doi.org/10.1103/PhysRevD.88.112003).

Phys.Rev. D88 (2013) no.11, 112003.

114) Measurement of the mass difference between top and anti-top quarks in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1310.6527 [hep-ex].

[10.1016/j.physletb.2013.12.010](https://doi.org/10.1016/j.physletb.2013.12.010).

Phys.Lett. B728 (2014) 363-379.

115) Search for charginos nearly mass degenerate with the lightest neutralino based on a disappearing-track signature in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1310.3675 [hep-ex].

[10.1103/PhysRevD.88.112006](https://doi.org/10.1103/PhysRevD.88.112006).

Phys.Rev. D88 (2013) no.11, 112006.

116) Search for dark matter in events with a hadronically decaying W or Z boson and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1309.4017 [hep-ex].

[10.1103/PhysRevLett.112.041802](https://doi.org/10.1103/PhysRevLett.112.041802).

Phys.Rev.Lett. 112 (2014) no.4, 041802.

117) Search for new phenomena in photon+jet events collected in proton--proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1309.3230 [hep-ex].

[10.1016/j.physletb.2013.12.029](https://doi.org/10.1016/j.physletb.2013.12.029).

Phys.Lett. B728 (2014) 562-578.

118) Search for microscopic black holes in a like-sign dimuon final state using large track multiplicity with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1308.4075 [hep-ex].

[10.1103/PhysRevD.88.072001](https://doi.org/10.1103/PhysRevD.88.072001).

Phys.Rev. D88 (2013) no.7, 072001.

119) Search for direct third-generation squark pair production in final states with missing transverse momentum and two b -jets in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1308.2631 [hep-ex].

[10.1007/JHEP10\(2013\)189](https://doi.org/10.1007/JHEP10(2013)189).

JHEP 1310 (2013) 189.

120) Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at $\sqrt{s} = 8$ TeV proton-proton collisions using the ATLAS experiment

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1308.1841 [hep-ex].

[10.1007/JHEP10\(2013\)130](https://doi.org/10.1007/JHEP10(2013)130), [10.1007/JHEP01\(2014\)109](https://doi.org/10.1007/JHEP01(2014)109).

JHEP 1310 (2013) 130, Erratum: JHEP 1401 (2014) 109.

121) Search for excited electrons and muons in $\sqrt{s} = 8$ TeV proton-proton collisions with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1308.1364 [hep-ex].

[10.1088/1367-2630/15/9/093011](https://doi.org/10.1088/1367-2630/15/9/093011).

New J.Phys. 15 (2013) 093011.

122) Dynamics of isolated-photon plus jet production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1307.6795 [hep-ex].

[10.1016/j.nuclphysb.2013.07.025](https://doi.org/10.1016/j.nuclphysb.2013.07.025).

Nucl.Phys. B875 (2013) 483-535.

123) Measurement of Top Quark Polarization in Top-Antitop Events from Proton-Proton Collisions at $\sqrt{s} = 7$ TeV Using the ATLAS Detector

By ATLAS Collaboration (Georges Aad et al.).

arXiv:1307.6511 [hep-ex].

[10.1103/PhysRevLett.111.232002](https://doi.org/10.1103/PhysRevLett.111.232002).

Phys.Rev.Lett. 111 (2013) no.23, 232002.

- 124) Measurement of jet shapes in top-quark pair events at $\sqrt{s} = 7$ TeV using the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1307.5749 [hep-ex].
[10.1140/epjc/s10052-013-2676-3](https://arxiv.org/abs/10.1140/epjc/s10052-013-2676-3).
Eur.Phys.J. C73 (2013) no.12, 2676.
- 125) Measurement of the top quark charge in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1307.4568 [hep-ex].
[10.1007/JHEP11\(2013\)031](https://arxiv.org/abs/10.1007/JHEP11(2013)031).
JHEP 1311 (2013) 031.
- 126) Evidence for the spin-0 nature of the Higgs boson using ATLAS data
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1307.1432 [hep-ex].
[10.1016/j.physletb.2013.08.026](https://arxiv.org/abs/10.1016/j.physletb.2013.08.026).
Phys.Lett. B726 (2013) 120-144.
- 127) Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1307.1427 [hep-ex].
[10.1016/j.physletb.2014.05.011](https://arxiv.org/abs/10.1016/j.physletb.2014.05.011), [10.1016/j.physletb.2013.08.010](https://arxiv.org/abs/10.1016/j.physletb.2013.08.010).
Phys.Lett. B726 (2013) 88-119, Erratum: Phys.Lett. B734 (2014) 406-406.
- 128) Measurement of the differential cross-section of B^+ meson production in pp collisions at $\sqrt{s} = 7$ TeV at ATLAS
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1307.0126 [hep-ex].
[10.1007/JHEP10\(2013\)042](https://arxiv.org/abs/10.1007/JHEP10(2013)042).
JHEP 1310 (2013) 042.
- 129) Measurement of the Azimuthal Angle Dependence of Inclusive Jet Yields in Pb+Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1306.6469 [hep-ex].
[10.1103/PhysRevLett.111.152301](https://arxiv.org/abs/10.1103/PhysRevLett.111.152301).
Phys.Rev.Lett. 111 (2013) no.15, 152301.
- 130) Performance of jet substructure techniques for large- R jets in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector
By ATLAS Collaboration (Georges Aad et al.).
arXiv:1306.4945 [hep-ex].
[10.1007/JHEP09\(2013\)076](https://arxiv.org/abs/10.1007/JHEP09(2013)076).
JHEP 1309 (2013) 076.
- 131) Measurement of the high-mass Drell-Yan differential cross-section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector

By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1305.4192 [hep-ex].
[10.1016/j.physletb.2013.07.049](https://doi.org/10.1016/j.physletb.2013.07.049).
 Phys.Lett. B725 (2013) 223-242.

132) Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at $\sqrt{s} = 2.76$ TeV with the ATLAS detector at the LHC
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1305.2942 [hep-ex].
[10.1007/JHEP11\(2013\)183](https://doi.org/10.1007/JHEP11(2013)183).
 JHEP 1311 (2013) 183.

133) Triggers for displaced decays of long-lived neutral particles in the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1305.2284 [hep-ex].
[10.1088/1748-0221/8/07/P07015](https://doi.org/10.1088/1748-0221/8/07/P07015).
 JINST 8 (2013) P07015.

134) Search for nonpointing photons in the diphoton and E^{miss}_T final state in $\sqrt{s} = 7$ TeV proton-proton collisions using the ATLAS detector
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1304.6310 [hep-ex].
[10.1103/PhysRevD.88.012001](https://doi.org/10.1103/PhysRevD.88.012001).
 Phys.Rev. D88 (2013) no.1, 012001.

135) Measurement with the ATLAS detector of multi-particle azimuthal correlations in p+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV
 By ATLAS Collaboration (Georges Aad et al.).
 arXiv:1303.2084 [hep-ex].
[10.1016/j.physletb.2013.06.057](https://doi.org/10.1016/j.physletb.2013.06.057).
 Phys.Lett. B725 (2013) 60-78.

TALKS and SEMINARS

1)	THE STRUCTURE OF THE PROTON, RESULTS FROM HERA	Gordon Conference on Photonuclear Reactions, Tilton, New Hampshire, July 1998 (plenary). Invited plenary
2)	THE STRUCTURE OF THE PROTON, RESULTS FROM HERA	Corfu Summer Institute, September 6, 1998 . Invited plenary talk
3)	PHYSICS RESULTS FROM HERA AND FUTURE PLANS	Conference of the Greek Physical Society, Chios, November 1-4, 2001 . Invited talk
4)	LEADING BARYON PRODUCTION IN ZEUS	Conference on Calorimetry in High Energy Physics, Capri, October 1991 (Plenary). Invited talk

5)	LEADING BARYON PRODUCTION WITH ZEUS	XXVI International Conference on High Energy Physics, Dallas, August 1992 . First ZEUS presentation of physics results
6)	SEARCHES FOR EXOTIC PHYSICS AT HERA	Intern. Workshop on DIS and related subjects, February 8, 1994 , Eilat, Israel.
7)	LEADING BARYON PRODUCTION IN ZEUS	The 7th International Workshop on Deep Inelastic Scattering and QCD, Apr 1999 , Zeuthen, Berlin.
8)	LEADING BARYON PRODUCTION WITH ZEUS	Conference At the Intersection of Particle and Nuclear Physics, New York, May 2003 .
9)	SEARCHES FOR EXOTIC PHYSICS AT HERA	Conference At the Intersection of Particle and Nuclear Physics, Puerto Rico, June 2006 .
10)	LARGE P_{\perp}^2 SPIN EFFECTS	University of Michigan, October 1988. Seminar
11)	CALORIMETRY AT ZEUS	Columbia University, November 1992 Seminar
12)	MEASUREMENT OF A AND A_{nn} IN $P+P \rightarrow P+P$	Spring Meeting of Amer Phys Soc, April 1988
13)	RECENT PHYSICS RESULTS FROM ZEUS	Univ. of Michigan, Ann Arbor, Dec 17, 1993. Seminar
14)	DEEP INELASTIC SCATTERING RESULTS FROM ZEUS	University of Crete, February 20, 1994. Seminar
15)	DEEP INELASTIC SCATTERING RESULTS FROM ZEUS	University of Athens, February 21, 1994. Seminar
16)	DEEP INELASTIC SCATTERING RESULTS FROM THE 1993 ZEUS DATA	Workshop on recent developments in high Energy Physics, Thessaloniki, January 12, 1995
17)	RECENT RESULTS FROM ZEUS IN DEEP INEL. SCAT.	CERN PPE Seminar, June 6, 1994
18)	RECENT RESULTS FROM ZEUS IN DEEP INEL. SCAT.	Univ. of Ioannina, January 21, 1995. Seminar
19)	DEEP INELASTIC SCATTERING WITH ZEUS	Univ. of Athens, October 13, 1997. Seminar
20)	A SEARCH OF THE PROTON STRUCTURE – RECENT RESULTS FROM THE ZEUS EXPERIMENT	University of Crete, November 6, 1997 Seminar
21)	STUDY OF LEADING BARYON PRODUCTION WITH THE 1995 DATA FROM THE ZEUS DETECTOR	EESFYE 1998, Demokritos, April 10, 1998.
22)	RECENT PHYSICS RESULTS FROM HERA	NTUA, Seminar, September 1999. Seminar
23)	A SYSTEM TO STUDY SENSOR RADIATION HARDNESS	(EESFYE) HEP 2000, Ioannina, April 22, 2000.
24)	INSTANTON PRODUCTION AT HERA	(EESFYE) HEP 2003, April 19-23 2003, NTUA, Athens
25)	INSTANTONS IN ep COLLISIONS	(EESFYE) HEP 2005, April 21 2005, University of Thessaloniki
26)	SEARCHES FOR NEW PHYSICS WITH ZEUS	(EESFYE) HEP 2006, April 13-16 2006, University of Ioannina

27)	Detection of cosmic events using their electromagnetic signature	(EESFYE) HEP 2014, May 2014, National Technical University of Athens, Naxos
28)	MicroMegas Chambers and the LHC-ATLAS muon detector upgrade	University of Kobe, Japan, 21 June 2016, http://ppwww.phys.sci.kobe-u.ac.jp/2013/news.html
29)	MicroMegas Chambers and the LHC-ATLAS muon detector upgrade	KAIST, Daejeon, S. Korea, 28 June 2016
30)	MicroMegas Chambers and the LHC-ATLAS muon detector upgrade	University of Kyungpook, Daegu, S. Korea, 29 June 2016