

## PUBLICATIONS

1. M. Aaboud *et al.* (ATLAS Collaboration), Comparison between simulated and observed LHC beam backgrounds in the ATLAS experiment at Ebeam = 4 TeV, Journal of Instrumentation 13 (2018) P12006: 1810.04450 [hep-ex].
2. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the top quark mass in the ttbar -> lepton+jets channel from sqrt(s) = 8 TeV ATLAS data and combination with previous results, submitted to EPJC (2018): 1810.01772 [hep-ex].
3. M. Aaboud *et al.* (ATLAS Collaboration), 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, submitted to JHEP (2018): 1809.11105 [hep-ex].
4. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of photon-jet transverse momentum correlations in 5.02 TeV Pb+Pb and pp collisions with ATLAS, submitted to PLB 786 (2018): 1809.07280 [hep-ex].
5. M. Aaboud *et al.* (ATLAS Collaboration), Search for invisible Higgs boson decays in vector boson fusion at sqrt(s) = 13 TeV with the ATLAS detector, submitted to PLB (2018): 1809.06682 [hep-ex].
6. M. Aaboud *et al.* (ATLAS Collaboration), A search for pairs of highly collimated photon-jets in pp collisions at sqrt(s) = 13 TeV with the ATLAS detector, accepted by PRD (2018): 1808.10515 [hep-ex].
7. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of gluon-gluon fusion and vector-boson fusion Higgs boson production cross-sections in the H -> WW\* -> e+e- decay channel in pp collisions at sqrt(s) = 13 TeV with the ATLAS detector, accepted by PLB (2018): 1808.09054 [hep-ex].
8. M. Aaboud *et al.* (ATLAS Collaboration), Performance of top-quark and W-boson tagging with ATLAS in run 2 of the LHC, Physics Letters B 786 (2018) 59: 1808.08238 [hep-ex].
9. M. Aaboud *et al.* (ATLAS Collaboration), Performance of top-quark and W-boson tagging with ATLAS in run 2 of the LHC, submitted to EPJC (2018): 1808.07858 [hep-ex].
10. M. Aaboud *et al.* (ATLAS Collaboration), Search for squarks and gluinos in final states with hadronically decaying tau-leptons, jets, and missing transverse momentum using pp collisions at sqrt(s) = 13 TeV with the ATLAS detector, accepted by PRD (2018): 1808.06358 [hep-ex].
11. M. Aaboud *et al.* (ATLAS Collaboration), Search for heavy charged long-lived particles in proton-proton collisions at sqrt(s) = 13 TeV using an ionization measurement with the ATLAS detector, Physics Letters B 788 (2018) 96-116: 1808.04095 [hep-ex].
12. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the azimuthal anisotropy of charged particles produced in sqrt(s\_NN) = 5.02 TeV Pb+Pb collisions with the ATLAS detector, accepted by EPJC (2018): 1808.03951 [hep-ex].
13. M. Aaboud *et al.* (ATLAS Collaboration), Search for charged Higgs bosons decaying into top and bottom quarks at sqrt(s) = 13 TeV with the ATLAS detector, Journal of High Energy Physics 11 (2018) 085: 1808.03599 [hep-ex].

14. M. Aaboud *et al.* (ATLAS Collaboration), Search for long-lived particles in final states with displaced dimuon vertices in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, submitted to Physical Review D (2018): 1808.03057 [hep-ex].
15. M. Aaboud *et al.* (ATLAS Collaboration), Combination of the searches for heavy resonances decaying into bosonic and leptonic states using 36 fb<sup>-1</sup> of proton-proton collision data at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physical Review D 98, 052008 (2018): 1808.02380 [hep-ex].
16. M. Aaboud *et al.* (ATLAS Collaboration), Combination of the searches for pair-produced vectorlike partners of the third-generation quarks at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physical Review Letters 121, 211801 (2018): 1808.02343 [hep-ex].
17. M. Aaboud *et al.* (ATLAS Collaboration), Search for pair production of heavy vectrolike quarks decaying into hadronic final states in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physical Review D 98, 092005 (2018): 1808.01771 [hep-ex].
18. M. Aaboud *et al.* (ATLAS Collaboration), Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector, submitted to EPJC (2018): 1808.01899 [hep-ex].
19. M. Aaboud *et al.* (ATLAS Collaboration), Constraints on off-shell Higgs boson production and the Higgs boson total width in  $ZZ \rightarrow 4l$  and  $ZZ \rightarrow 2l2\nu$  final state with the ATLAS detector, Physics Letters B 786 (2018) 223-244: 1808.01191 [hep-ex].
20. M. Aaboud *et al.* (ATLAS Collaboration), Search for resonant and nonresonant 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, Physical Review Letters 121, 191801 (2018): 1808.00336 [hep-ex].
21. M. Aaboud *et al.* (ATLAS Collaboration), 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, accepted by Journal of High Energy Physics (2018): 1807.11883 [hep-ex].
22. M. Aaboud *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 10 (2018) 180: 1807.11471 [hep-ex].
23. M. Aaboud *et al.* (ATLAS Collaboration), 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, Physics Letters B 788 (2018) 347-370: 1807.10473 [hep-ex].
24. M. Aaboud *et al.* (ATLAS Collaboration), In situ calibration of large-R jet energy and mass in 13 TeV proton-proton collisions with the ATLAS detector, submitted to The European Physical Journal C (2018): 1807.09477 [hep-ex].
25. M. Aaboud *et al.* (ATLAS Collaboration), Search for Higgs boson pair production in  $\gamma\gamma WW^*$  channel using pp collision data recorded at  $\sqrt{s} = 13$  TeV with the ATLAS detector, accepted by The European Physical Journal C (2018): 1807.08567 [hep-ex].

26. M. Aaboud *et al.* (ATLAS Collaboration), 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, *Physical Review D* 98, 052003 (2018): 1807.08639 [hep-ex].
27. M. Aaboud *et al.* (ATLAS Collaboration), Search for charged Higgs bosons decaying via  $H^{\pm} \rightarrow \tau^{\pm} \nu_{\tau}$  in the  $\tau$ +jets and  $\tau$ +lepton final states with 36 fb<sup>-1</sup> of pp collision data recorded at  $\sqrt{s} = 13$  TeV with the ATLAS experiment, *Journal of High Energy Physics* 09 (2018) 139: 1807.07915 [hep-ex].
28. M. Aaboud *et al.* (ATLAS Collaboration), A strategy for a general search for new phenomena using data-driven signal regions and its application within the ATLAS experiment, submitted to EPJC (2018): 1807.07447 [hep-ex].
29. M. Aaboud *et al.* (ATLAS Collaboration), Search for lepton-flavor violation in different-flavor, high-mass final states in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Physics Review D* 98, 092008 (2018): 1807.05198 [hep-ex].
30. M. Aaboud *et al.* (ATLAS Collaboration), Prompt and non-prompt J/psi elliptic flow in Pb+Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV with the ATLAS detector, *The European Physical Journal C* (2018) 78:784: 1807.06573 [hep-ex].
31. M. Aaboud *et al.* (ATLAS Collaboration), Search for Higgs boson pair production in the  $\gamma\gamma$  final state with 13 TeV pp collision data collected by the ATLAS experiment, *Journal of High Energy Physics* 11 (2018) 040: 1807.04873 [hep-ex].
32. M. Aaboud *et al.* (ATLAS Collaboration), Correlated long-range mixed-harmonic fluctuations measured in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector, accepted by *Physics Letters B* (2018): 1807.02012 [hep-ex].
33. M. Aaboud *et al.* (ATLAS Collaboration), Searches for exclusive Higgs and Z boson decays into J/psi  $\gamma$ ,  $\psi(2S)$   $\gamma$ , and  $\Upsilon(nS)$  at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Physics Letters B* 786 (2018) 134-155: 1807.00802 [hep-ex].
34. M. Aaboud *et al.* (ATLAS Collaboration), 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, accepted by *PLB* (2018): 1807.00539 [hep-ex].
35. M. Aaboud *et al.* (ATLAS Collaboration), Search for pair- and single-production of vector-like 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  $\sqrt{s} = 13$  TeV, accepted by *PRD* (2018): 1806.10555 [hep-ex].
36. M. Aaboud *et al.* (ATLAS Collaboration), 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, *Physical Review Letters* 121, 212301 (2018): 1806.08708 [hep-ex].
37. M. Aaboud *et al.* (ATLAS Collaboration), Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the  $H \rightarrow a\bar{a} \rightarrow 4b$  channel in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Journal of High Energy Physics* 10 (2018) 031: 1806.07355 [hep-ex].

38. M. Aaboud *et al.* (ATLAS Collaboration), Probing the quantum interference between singly and doubly resonant top-quark production in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Physical Review Letters* 121, 152002 (2018): 1806.04667 [hep-ex].
39. M. Aaboud *et al.* (ATLAS Collaboration), 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, *Physical Review D* 98, 092002 (2018): 1806.04030 [hep-ex].
40. M. Aaboud *et al.* (ATLAS Collaboration), 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, *Physical Review D* 98, 092012 (2018): 1806.02293 [hep-ex].
41. M. Aaboud *et al.* (ATLAS Collaboration), Operation and performance of the ATLAS Tile Calorimeter in Run 1, *The European Journal of Physics C* (2018) 78:987: 1806.02129 [hep-ex].
42. M. Aaboud *et al.* (ATLAS Collaboration), Search for pair production of heavy vector-like quarks decaying into high-pT W bosons and top quarks in the lepton-plus-jets final state in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Journal of High Energy Physics* 08 (2018) 048: 1806.01762 [hep-ex].
43. M. Aaboud *et al.* (ATLAS Collaboration), Search for resonant W Z production in the fully leptonic final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Physics Letters B* 784 (2018) 68-88: 1806.01532 [hep-ex].
44. M. Aaboud *et al.* (ATLAS Collaboration), Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector, *Physics Letters B* 784 (2018) 173-191: 1806.00425 [hep-ex].
45. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the Higgs boson mass in the  $H \rightarrow ZZ^* \rightarrow 4l$  and  $H \rightarrow \gamma\gamma$  channels with  $\sqrt{s} = 13$  TeV pp collisions using the ATLAS detector, *Physics Letters B* 784 (2018) 345-366: 1806.00242 [hep-ex].
46. M. Aaboud *et al.* (ATLAS Collaboration), 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 pp collisions with the ATLAS detector, *The European Journal of Physics C* (2018) 78:625: 1805.11381 [hep-ex].
47. M. Aaboud *et al.* (ATLAS Collaboration), Combined measurement of differential and total cross sections in the  $H \rightarrow \gamma\gamma$  and the  $H \rightarrow ZZ^* \rightarrow 4l$  decay channels at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Physics Letters B* 786 (2018) 114-133: 1805.10197 [hep-ex].
48. M. Aaboud *et al.* (ATLAS Collaboration), 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, *Physics Review D* 98, 032016 (2018): 1805.09299 [hep-ex].
49. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the nuclear modification factor for inclusive jets in Pb+Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV with the ATLAS detector, submitted to PLB (2018): 1805.05635 [hep-ex].

50. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of jet fragmentation in Pb+Pb and pp collisions at  $\sqrt{s_{NN}} = 5.02$  TeV with the ATLAS detector, *Physical Review C* 98, 024908 (2018): 1805.05424 [hep-ex].
51. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the suppression and azimuthal anisotropy of muons from heavy-flavor decays in Pb+Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV with the ATLAS detector, *Physical Review C* 98, 044905 (2018): 1805.05220 [hep-ex].
52. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of dijet azimuthal decorrelations in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector and determination of the strong coupling, *Physical Review D* 98, 092004 (2018): 1805.04691 [hep-ex].
53. M. Aaboud *et al.* (ATLAS Collaboration), Angular analysis of  $B_d^0 \rightarrow K^* \mu^+ \mu^-$  decays in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, *Journal of High Energy Physics* 10 (2018) 047: 1805.04000 [hep-ex].
54. M. Aaboud *et al.* (ATLAS Collaboration), Prompt and non-prompt  $J/\psi$  and  $\psi(2S)$  suppression at high transverse momentum in 5.02 TeV Pb+Pb collisions with the ATLAS experiment, *The European Journal of Physics C* (2018) 78:762: 1805.04077 [hep-ex].
55. M. Aaboud *et al.* (ATLAS Collaboration), 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, *Physical Review D* 98, 032002 (2018): 1805.03483 [hep-ex].
56. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of colour flow using jet-pull observables in  $t\bar{t}$  events with the ATLAS experiment at  $\sqrt{s} = 13$  TeV, *The European Journal of Physics C* (2018) 78:847: 1805.02935 [hep-ex].
57. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of b-jet tagging efficiency with the ATLAS detector using  $t\bar{t}$  events at  $\sqrt{s} = 13$  TeV, *Journal of High Energy Physics* 08 (2018) 89: 1805.01845 [hep-ex].
58. M. Aaboud *et al.* (ATLAS Collaboration), 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, *Physical Review D* 98, 032015 (2018): 1805.01908 [hep-ex].
59. M. Aaboud *et al.* (ATLAS Collaboration), Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector, *Journal of High Energy Physics* 09 (2018) 050: 1805.01649 [hep-ex].
60. D.M. Gingrich, "Search for new physics in dijet resonant signatures and recent results from run 2 with the ATLAS experiment", *Proceedings of the 3rd Conference on Large Hadron Collider Physics (LHCP2015)*, St. Petersburg, August 31 - September 5, 2015, Editors: Victor T. Kim and Dmitry E. Sosnov (PNPI NRC KI, Gatchina, 2016), 762 pages ISBN: 978-5-86763-405-6
61. M. Aaboud *et al.* (ATLAS Collaboration), 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, *The European Physical Journal C* (2018) 78:565: 1804.10823 [hep-ex].

62. M. Aaboud *et al.* (ATLAS Collaboration), Search for lepton-flavor-violating decays of the Z boson into a tau-lepton and a light lepton with the ATLAS detector, *Physical Review D* 98, 092010 (2018): 1804.09568 [hep-ex].
63. M. Aaboud *et al.* (ATLAS Collaboration), Search for pair production of Higgs bosons in the  $b\bar{b}b\bar{b}b\bar{b}$  state using proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, submitted to JHEP (2018): 1804.06174 [hep-ex].
64. M. Aaboud *et al.* (ATLAS Collaboration), Search for supersymmetry in events with four or more leptons in  $\sqrt{s} = 13$  TeV pp collisions with ATLAS, *Physical Review D* 98, 032009 (2018): 1804.03602 [hep-ex].
65. M. Aaboud *et al.* (ATLAS Collaboration), Search for R-parity-violating supersymmetric particles in multi-jet final states produced in p-p collisions at  $\sqrt{s} = 13$  TeV using the ATLAS detector at the LHC, *Physics Letters B* 785 (2018) 136-158: 1804.03568 [hep-ex].
66. M. Aaboud *et al.* (ATLAS Collaboration), Search for low-mass dijet resonances using trigger-level jets with the ATLAS detector in pp collisions at  $\sqrt{s} = 13$  TeV, *Physical Review Letters* 121, 081801 (2018): 1804.03496 [hep-ex].
67. M. Aaboud *et al.* (ATLAS Collaboration), Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the  $l\bar{l}b\bar{b}$  final state in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Physics Letters B* 783 (2018) 392-414: 1804.01126 [hep-ex].
68. Aaboud *et al.* (ATLAS Collaboration), Search for Higgs boson decays into pairs of light (pseudo) scalar particles in the  $\gamma\gamma\text{jet}\text{jet}$  final state in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Physics Letters B* 782 (2018) 750-767: 1803.11145 [hep-ex].
69. M. Aaboud *et al.* (ATLAS Collaboration), Search for top squarks decaying to tau sleptons in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Physical Review D* 98, 032008 (2018): 1803.10178 [hep-ex].
70. M. Aaboud *et al.* (ATLAS Collaboration), 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, *Journal of High Energy Physics* 07 (2018) 089: 1803.09678 [hep-ex].
71. M. Aaboud *et al.* (ATLAS Collaboration), Search for flavor-changing neutral current top-quark decays  $t \rightarrow qZ$  in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Journal of High Energy Physics* 07 (2018) 176: 1803.09923 [hep-ex].
72. M. Aaboud *et al.* (ATLAS Collaboration), Search for electroweak production of supersymmetric particles in final states with two or three leptons at  $\sqrt{s} = 13$  TeV with the ATLAS detector, accepted by EPJC (2018): 1803.02762 [hep-ex].
73. M. Aaboud *et al.* (ATLAS Collaboration), Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at  $\sqrt{s} = 13$  TeV, *The European Physical Journal C* (2018) 78:903: 1802.08168 [hep-ex].
74. M. Aaboud *et al.* (ATLAS Collaboration), Measurement 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, *Journal of High Energy Physics* 10 (2018) 159: 1802.06572 [hep-ex].

75. M. Aaboud *et al.* (ATLAS Collaboration), Search for the decay of the Higgs boson to charm quarks with the ATLAS experiment, Physical Review Letters 120, 211802 (2018): 1802.04329 [hep-ex].
76. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of Higgs boson properties in the diphoton decay channel with 36 fb<sup>-1</sup> of pp collision data at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physical Review D 98, 052005 (2018): 1802.04146 [hep-ex].
77. M. Aaboud *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 06 (2018) 166: 1802.03388 [hep-ex].
78. M. Aaboud *et al.* (ATLAS Collaboration), Search for photonic signatures of gauge-mediated supersymmetry in 13 TeV pp collisions with the ATLAS detector, Physical Review D 97, 092006 (2018); 1802.03158 [hep-ex].
79. M. Aaboud *et al.* (ATLAS Collaboration), Search for structure in the  $B_S^0 \pi^{\pm\pm}$  invariant mass spectrum with the ATLAS experiment, Physical Review Letters 120, 202007 (2018); 1802.01840 [hep-ex].
80. M. Aaboud *et al.* (ATLAS Collaboration), 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, Physics Letters B 788 (2019) 316-335: 1801.08769 [hep-ex].
81. M. Aaboud *et al.* (ATLAS Collaboration), Search for  $W^{\pm} \rightarrow tb$  decays in the hadronic final state using pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physics Letters B 781 (2018) 327-348: 1801.07893 [hep-ex].
82. M. Aaboud *et al.* (ATLAS Collaboration), A search for high-mass resonances decaying to taunu in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physical Review Letters 120, 161802 (2018): 1801.06992 [hep-ex].
83. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of tt-bar differential cross-sections of highly boosted top quarks decaying to all-hadronic final states in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, accepted by PRD; arXiv: 1801.02052 [hep-ex].
84. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the cross section for isolated-photon plus jet production in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physics Letters B 780 (2018) 578-602; arXiv: 1801.00112 [hep-ex].
85. M. Aaboud *et al.* (ATLAS Collaboration), 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, Physical Review D 97, 072016 (2018); arXiv: 1712.08895 [hep-ex].
86. M. Aaboud *et al.* (ATLAS Collaboration), Evidence for the associated production of the Higgs boson and a top quark pair with the the ATLAS detector, Physical Review D 97, 072003 (2018); arXiv: 1712.08891 [hep-ex].
87. M. Aaboud *et al.* (ATLAS Collaboration), Search for electroweak production of supersymmetric states in scenarios with compressed mass spectra at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physical Review D 97, 052010 (2018); arXiv: 1712.08119 [hep-ex].



88. M. Aaboud *et al.* (ATLAS Collaboration), 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, The European Physical Journal C (2018) 78:487; arXiv: 1712.06857 [hep-ex].
89. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the production cross section of three isolated photons in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physics Letters B 781 (2018) 55-76; arXiv: 1712.07291 [hep-ex].
90. M. Aaboud *et al.* (ATLAS Collaboration), Search for heavy ZZ resonances in the  $l+l-l-l$  and  $l+l-nu\bar{\nu}$  final states using proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, The European Physical Journal C (2018) 79:293; arXiv: 1712.06386 [hep-ex].
91. M. Aaboud *et al.* (ATLAS Collaboration), 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 of  $\sqrt{s} = 13$  TeV pp collisions with the ATLAS detector, Journal of High Energy Physics 03 (2018) 174; arXiv: 1712.06518 [hep-ex].
92. M. Aaboud *et al.* (ATLAS Collaboration), Search for exclusive Higgs and Z boson decays to  $\phi$ -gamma and  $\rho$ -gamma with the ATLAS detector, accepted by JHEP; arXiv: 1712.02758 [hep-ex].
93. M. Aaboud *et al.* (ATLAS Collaboration), Search for squarks and gluinos in final states with jets and missing transverse momentum using 36/fb of  $\sqrt{s} = 13$  TeV pp collision data with the ATLAS detector, Physical Review D 97, 112001 (2018); arXiv: 1712.02332 [hep-ex].
94. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the Higgs boson coupling properties in the  $H \rightarrow ZZ^* \rightarrow 4l$  decay channel at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Journal of High Energy Physics 03 (2018) 095; arXiv: 1712.02304 [hep-ex].
95. M. Aaboud *et al.* (ATLAS Collaboration), Search for long-lived charginos based on a disappearing-track signature in pp collision at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Journal of High Energy Physics 06 (2018) 022; arXiv: 1712.02118 [hep-ex].
96. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of differential cross-sections of a single top quark produced in association with a W boson at  $\sqrt{s} = 13$  TeV with the ATLAS detector, The European Physical Journal (2018) 78:186; arXiv: 1712.01602 [hep-ex].
97. M. Aaboud *et al.* (ATLAS Collaboration), Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36/fb of  $\sqrt{s} = 13$  TeV pp collision data with the ATLAS detector, Journal of High Energy Physics 06 (2018) 108; arXiv: 1711.11520 [hep-ex].
98. M. Aaboud *et al.* (ATLAS Collaboration), A measure of the soft-drop jet mass in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physical Review Letters 121, 092001 (2018); arXiv: 1711.08341 [hep-ex].
99. M. Aaboud *et al.* (ATLAS Collaboration), Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using



- the ATLAS detector, Journal of High Energy Physics 01 (2018) 126; arXiv: 1711.03301 [hep-ex].
100. M. Aaboud *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 06 (2018) 077; arXiv: 1711.03296 [hep-ex].
  101. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Journal of High Energy Physics 05 (2018) 195; arXiv: 1711.02692 [hep-ex].
  102. M. Aaboud *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 06 (2018) 107; arXiv: 1711.01901 [hep-ex].
  103. M. Aaboud *et al.* (ATLAS Collaboration), Search for dark matter produced in association with bottom or top quarks in  $\sqrt{s} = 13$  TeV pp collisions with the ATLAS detector, The European Physical Journal C (2018) 78:18; arXiv: 1710.11412 [hep-ex].
  104. M. Aaboud *et al.* (ATLAS Collaboration), Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at  $\sqrt{s} = 13$  TeV, The European Physical Journal C (2018) 78:199; arXiv: 1710.09748 [hep-ex].
  105. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of differential cross sections of isolated-photon plus heavy-flavour jet production in pp collisions at  $\sqrt{s} = 8$  TeV using the ATLAS detector, Physics Letters B 776 (2018) 295-317; arXiv: 1710.09560 [hep-ex].
  106. M. Aaboud *et al.* (ATLAS Collaboration), Search for WW/WZ resonance production in  $l\nu qq$  final states in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Journal of High Energy Physics 03 (2018) 042; arXiv: 1710.07235 [hep-ex].
  107. M. Aaboud *et al.* (ATLAS Collaboration), A search for pair-produced resonances in four-jet final states at  $\sqrt{s} = 13$  TeV with the ATLAS detector, The European Physical Journal C (2018) 78:250; arXiv: 1710.07171 [hep-ex].
  108. M. Aaboud *et al.* (ATLAS Collaboration), Search for B-L R-parity-violating top squarks in  $\sqrt{s} = 13$  TeV pp collisions with the ATLAS experiment, Physical Review D 97, 032003 (2018); arXiv: 1710.05544 [hep-ex].
  109. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the Drell-Yan triple-differential cross section in pp collisions at  $\sqrt{s} = 8$  TeV, Journal of High Energy Physics 12 (2017) 059; arXiv: 1710.05167 [hep-ex].
  110. M. Aaboud *et al.* (ATLAS Collaboration), Search for long-lived, massive particles in events with displaced vertices and missing transverse momentum in  $\sqrt{s} = 13$  TeV pp collisions with the ATLAS detector, Physical Review D 97, 052012 (2018); arXiv: 1710.04901 [hep-ex].

111. M. Aaboud *et al.* (ATLAS Collaboration), 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, Physics Letters B 780 (2018) 557-577; arXiv: 1710.03659 [hep-ex].
112. M. Aaboud *et al.* (ATLAS Collaboration), Search for heavy resonances decaying into WW in the  $e\mu\mu\nu$  final state in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, The European Physical Journal C (2018) 78:24; arXiv: 1710.01123 [hep-ex].
113. M. Aaboud *et al.* (ATLAS Collaboration), Search for new phenomena in high-mass final states with a photon and a jet from pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, The European Physical Journal C (2018) 78:102; arXiv: 1709.10440 [hep-ex].
114. M. Aaboud *et al.* (ATLAS Collaboration), 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, Physics Letters B 775 (2017) 206-228; arXiv: 1709.10264 [hep-ex].
115. M. Aaboud *et al.* (ATLAS Collaboration), 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, The European Physical Journal C (2017) 77:804; arXiv: 1709.09407 [hep-ex].
116. M. Aaboud *et al.* (ATLAS Collaboration),  $ZZ \rightarrow l+l'l'^+$  cross-section measurements and search for anomalous triple gauge couplings in 13 TeV pp collisions with the ATLAS detector, Physical Review D 97, 032005 (2018); arXiv: 1709.07703 [hep-ex].
117. M. Aaboud *et al.* (ATLAS Collaboration), Study of ordered hadron chains with the ATLAS detector, Physical Review D 96, 092008 (2017); arXiv: 1708.07384 [hep-ex].
118. M. Aaboud *et al.* (ATLAS Collaboration), Search for additional heavy neutral Higgs and gauge bosons in the  $d\tau$  final state produced in 36 fb<sup>-1</sup> of pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Journal of High Energy Physics 01 (2018) 055; arXiv: 1709.07242 [hep-ex].
119. M. Aaboud *et al.* (ATLAS Collaboration), 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, Physics Letters B 779 (2018) 24-45; arXiv: 1709.06783 [hep-ex].
120. A.M. Sirunyan *et al.* (CMS and ATLAS Collaboration), Combination of inclusive and differential  $t\bar{t}$  charge asymmetry measurements using ATLAS and CMS data at  $\sqrt{s} = 7$  and 8 TeV, Journal of High Energy Physics 04 (2018) 033; arXiv: 1709.05327 [hep-ex].
121. M. Aaboud *et al.* (ATLAS Collaboration), Direct top-quark decay width measurement in the  $t\bar{t}$  lepton+jets channel at  $\sqrt{s} = 8$  TeV with the ATLAS detector, The European Physical Journal C (2018) 78:129; arXiv: 1709.04207 [hep-ex].
122. M. Aaboud *et al.* (ATLAS Collaboration), Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Journal of High Energy Physics 12 (2017) 085; arXiv: 1709.04183 [hep-ex].
123. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of tau polarization in  $Z/\gamma^* \rightarrow \tau\tau$  decays in proton-proton collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, The European Physical Journal C (2018) 78:163; arXiv: 1709.03490 [hep-ex].

124. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of quarkonium production in proton-lead and proton-proton at 5.02 TeV with the ATLAS detector, The European Physical Journal C (2018) 78:171; arXiv: 1709.03089 [hep-ex].
125. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of longitudinal flow de-correlations in Pb+Pb collisions at  $\sqrt{s_{NN}} = 2.76$  and 5.02 TeV with the ATLAS detector, The European Physical Journal C (2018) 78:142; arXiv: 1709.02301 [hep-ex].
126. M. Aaboud *et al.* (ATLAS Collaboration), Search for heavy ZZ and ZW resonances in  $llqq$  and  $nunuqq$  final states in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Journal of High Energy Physics 03 (2018) 009; arXiv: 1708.09638 [hep-ex].
127. M. Aaboud *et al.* (ATLAS Collaboration), 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, Physics Letters B 776 (2018) 318-337; arXiv: 1708.09624 [hep-ex].
128. M. Aaboud *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 11 (2017) 195; arXiv: 1708.09266 [hep-ex].
129. M. Aaboud *et al.* (ATLAS Collaboration), 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, Physical Review D 96, 112010 (2017); arXiv: 1708.08232 [hep-ex].
130. M. Aaboud *et al.* (ATLAS Collaboration), Search for the direct production of charginos and neutralinos in  $\sqrt{s} = 13$  TeV pp collisions with the ATLAS detector, The European Physical Journal C (2018) 78:154; arXiv: 1708.07875 [hep-ex].
131. M. Aaboud *et al.* (ATLAS Collaboration), Search for diboson resonance with boson-tagged jets in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physics Letters B 777 (2018) 91-113; arXiv: 1708.0445 [hep-ex].
132. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the exclusive  $\gamma\gamma \rightarrow \mu^+\mu^-$  process in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physics Letters B 777 (2018) 303-323; arXiv: 1708.04053 [hep-ex].
133. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of long-range multi-particle azimuthal correlations with the subevent cumulant method in pp and p+Pb collisions with the ATLAS detector at the LHC, Physical Review C 97, 024904 (2018); arXiv: 1708.03559 [hep-ex].
134. M. Aaboud *et al.* (ATLAS Collaboration), Search for new phenomena with large jet multiplicities and missing transverse momentum using large-radius jets and flavor-tagging at ATLAS in 13 TeV pp collisions, Journal of High Energy Physics 12 (2017) 034; arXiv: 1708.02794 [hep-ex].
135. M. Aaboud *et al.* (ATLAS Collaboration), Search for direct top squark pair production in final states with two leptons in  $\sqrt{s} = 13$  TeV pp collisions with the ATLAS detector, The European Physical Journal C (2017) 77:898; arXiv: 1708.03247 [hep-ex].

136. M. Aaboud *et al.* (ATLAS Collaboration), Evidence for the  $H \rightarrow b\bar{b}\gamma$  decay with the ATLAS detector, Journal of High Energy Physics 12 (2017) 024; arXiv: 1708.03299 [hep-ex].
137. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of inclusive and differential cross sections in the  $H \rightarrow ZZ^* \rightarrow 4l$  decay channel in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Journal of High Energy Physics 10 (2017) 132; arXiv: 1708.02810 [hep-ex].
138. M. Aaboud *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 11 (2017) 191; arXiv: 1708.00727 [hep-ex].
139. M. Aaboud *et al.* (ATLAS Collaboration), Search 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, Journal of High Energy Physics 10 (2017) 112; arXiv: 1708.00212 [hep-ex].
140. M. Aaboud *et al.* (ATLAS Collaboration), Search for heavy resonances decaying to a W or Z boson and a Higgs boson in  $q\bar{q} \rightarrow \gamma^* \rightarrow b\bar{b}H$  final states in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physics Letters B 774 (2017) 494-515; arXiv: 1707.06958 [hep-ex].
141. M. Aaboud *et al.* (ATLAS Collaboration), 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, Physical Review Letters 119, 191803 (2017); arXiv: 1707.06025 [hep-ex].
142. M. Aaboud *et al.* (ATLAS Collaboration), 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, The European Physical Journal C (2017) 77:646; arXiv: 1707.05597 [hep-ex].
143. M. Aaboud *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 12 (2017) 017; arXiv: 1707.05393 [hep-ex].
144. M. Aaboud *et al.* (ATLAS Collaboration), Search for new phenomena in high-mass diphoton final states using 37 fb<sup>-1</sup> of proton-proton collisions collected at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physics Letters B 775 (2017) 105-125; arXiv: 1707.04147 [hep-ex].
145. M. Aaboud *et al.* (ATLAS Collaboration), Search for pair production of heavy vector like quarks decaying to high-pT W bosons and b quarks in the lepton-plus-jets final state in pp collisions at  $\sqrt{s} = 13$  TeV, Journal of High Energy Physics 10 (2017) 141; arXiv: 1707.03347 [hep-ex].
146. M. Aaboud *et al.* (ATLAS Collaboration), 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, The European Physical Journal C (2017) 77:765; arXiv: 1707.03263 [hep-ex].

147. M. Aaboud *et al.* (ATLAS Collaboration), Study of the material of the ATLAS inner detector for Run 2 of the LHC, *Journal of Instrumentation* 12 (2017) P12009; arXiv: 1707.02826 [hep-ex].
148. M. Aaboud *et al.* (ATLAS Collaboration), Determination of the strong coupling constant  $\alpha_s$  from transverse energy-energy correlations in multijet events at  $\sqrt{s} = 8$  TeV using the ATLAS detector, *The European Physical Journal C* (2017) 77:872; arXiv: 1707.02562 [hep-ex].
149. M. Aaboud *et al.* (ATLAS Collaboration), Search for new high-mass phenomena in the dilepton final state using 36 fb<sup>-1</sup> of proton-proton collision data at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Journal of High Energy Physics* 10 (2017) 182; arXiv: 1707.02424 [hep-ex].
150. M. Aaboud *et al.* (ATLAS Collaboration), Search for dark matter produced in association with a Higgs boson decaying to  $b\bar{b}$  using 36 fb<sup>-1</sup> of pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Physical Review Letters* 119, 181804 (2017); arXiv: 1707.01302 [hep-ex].
151. M. Aaboud *et al.* (ATLAS Collaboration), Search for top quark decays  $t \rightarrow qH$ , with  $H \rightarrow \gamma\gamma$ , in  $\sqrt{s} = 13$  TeV pp collisions using the ATLAS detector, *Journal of High Energy Physics* 10 (2017) 129; arXiv: 1706.01404 [hep-ex].
152. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of jet p<sub>T</sub> correlations in Pb+Pb and pp collisions at  $\sqrt{s_{NN}} = 2.76$  TeV with the ATLAS detector, *Physics Letters B* 774 (2017) 379-402; arXiv: 1706.09363 [hep-ex].
153. M. Aaboud *et al.* (ATLAS Collaboration), Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb<sup>-1</sup> of pp collisions  $\sqrt{s} = 13$  TeV with the ATLAS detector, *The European Physical Journal C* (2018) 78:401; arXiv: 1706.04786 [hep-ex].
154. M. Aaboud *et al.* (ATLAS Collaboration), Search for dark matter in association with a Higgs boson decaying to two photons at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Physical Review D* 96, 112004 (2017); arXiv: 1706.03948 [hep-ex].
155. M. Aaboud *et al.* (ATLAS Collaboration), Search for direct top squark pair production in events with a Higgs or Z boson, and missing transverse momentum in  $\sqrt{s} = 13$  TeV pp collision data with the ATLAS detector, *Journal of High Energy Physics* 08 (2017) 006; arXiv: 1706.03986 [hep-ex].
156. M. Aaboud *et al.* (ATLAS Collaboration), Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb<sup>-1</sup> of  $\sqrt{s} = 13$  TeV pp collision data with the ATLAS detector, *Journal of High Energy Physics* 09 (2017) 084; arXiv: 1706.03731 [hep-ex].
157. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the inclusive jet cross-section in proton-proton collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, *Journal of High Energy Physics* 09 (2017) 020; arXiv: 1706.03192 [hep-ex].
158. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of jet fragmentation in 5.02 TeV proton-lead and proton-proton collisions with the ATLAS detector, *Nuclear Physics A* 978 (2018) 65-106; arXiv: 1706.02859 [hep-ex].

159. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the  $t\bar{t}\gamma$  production cross section in proton-proton-collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, *Journal of High Energy Physics* 11 (2017) 086; arXiv: 1706.03046 [hep-ex].
160. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of  $WW/WZ \rightarrow l\nu qq'$  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, *The European Physical Journal C* (2017) 77:563; arXiv: 1706.01702 [hep-ex].
161. M. Aaboud *et al.* (ATLAS Collaboration), 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, *Journal of High Energy Physics* 08 (2017) 052; arXiv: 1705.10751 [hep-ex].
162. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at  $\sqrt{s} = 8$  TeV, *Journal of High Energy Physics* 11 (2017) 062; arXiv: 1705.03374 [hep-ex].
163. M. Aaboud *et al.* (ATLAS Collaboration), Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector, *The European Physical Journal C* (2017) 77:580; arXiv: 1705.02211 [hep-ex].
164. M. Aaboud *et al.* (ATLAS Collaboration), 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, *Journal of High Energy Physics* 09 (2017) 088; arXiv: 1705.08493 [hep-ex].
165. M. Aaboud *et al.* (ATLAS Collaboration), Performance of the ATLAS track reconstruction algorithms in dense environments in LHC run 2, *The European Physical Journal C* (2017) 77:673; arXiv:1745.07983 [hep-ex].
166. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the kt splitting scales in  $Z \rightarrow ll$  events in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, *Journal of High Energy Physics* 08 (2017) 026; arXiv:1704.01530 [hep-ex].
167. M. Aaboud *et al.* (ATLAS Collaboration), Femtoscopy with identified charged pions in proton-lead collisions at  $\sqrt{s_{NN}} = 5.02$  TeV with ATLAS, *Physical Review C* 96, 064908 (2017); arXiv:1704.01621 [hep-ex].
168. M. Aaboud *et al.* (ATLAS Collaboration), Jet energy scale measurement and their systematic uncertainties in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Physical Review D* 96, 072002 (2017); arXiv:1703.09665 [hep-ex].
169. M. Aaboud *et al.* (ATLAS Collaboration), Search for new phenomena in dijet events using 37 fb-1 of pp collisions data collected at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Physical Review D* 96, 052004 (2017); arXiv:1703.09127 [hep-ex].
170. M. Aaboud *et al.* (ATLAS Collaboration), Top-quark mass measurement in the all-hadronic  $t\bar{t}$  decay channel at  $\sqrt{s} = 8$  TeV with the ATLAS detector, *Journal of High Energy Physics* 09 (2017) 118; arXiv:1702.07546 [hep-ex].



171. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of  $W^{+-}W^{+-}$  vector-boson scattering and limits on anomalous quadratic gauge couplings with the ATLAS detector, *Physical Review D* 96, 012007 (2017); arXiv:1611.02428 [hep-ex].
172. M. Aaboud *et al.* (ATLAS Collaboration), 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 detector, *Physics Letters B* 773 (2017) 354-374; arXiv:1702.04519 [hep-ex].
173. M. Aaboud *et al.* (ATLAS Collaboration), 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, *The European Physical Journal C* (2017) 77:531; arXiv:1701.02859 [hep-ex].
174. M. Aaboud *et al.* (ATLAS Collaboration), Evidence for light-by-light scattering in heavy-ion collisions with the ATLAS detector at the LHC, *Nature Physics*, NPHYS4208 (2017); arXiv:1702.01625 [hep-ex].
175. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the W-boson mass in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *The European Physical Journal C* (2017) 78:110; arXiv:1701.07240 [hep-ex].
176. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at  $\sqrt{s} = 13$  GeV with ATLAS, *Journal of High Energy Physics* 01 (2018) 063; arXiv:1612.07231 [hep-ex].
177. M. Aaboud *et al.* (ATLAS Collaboration), 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  $\sqrt{s_{NN}} = 5.02$  TeV with the ATLAS detector, *Physical Review C* 96, 024908 (2017); arXiv:1609.06213 [hep-ex].
178. M. Aaboud *et al.* (ATLAS Collaboration), Search for the dimuon decay of the Higgs boson in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *Physical Review Letters* 119, 051802 (2017); arXiv: 1705.04582 [hep-ex].
179. M. Aaboud *et al.* (ATLAS Collaboration), Studies of Zgamma production in association with a high-mass dijet system in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, *Journal of High Energy Physics* 07 (2017) 107; arXiv:1705.01966 [hep-ex].
180. M. Aaboud *et al.* (ATLAS Collaboration), Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1, *The European Physical Journal C* (2017) 77:490; arXiv:1603.02934 [hep-ex].
181. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of multi-particle azimuthal correlations in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector, *The European Physical Journal C* (2017) 77:428; arXiv:1705.04176 [hep-ex].
182. M. Aaboud *et al.* (ATLAS Collaboration), Measurements of integrated and differential cross sections for isolated photon pair production in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, *Physical Review D* 95 (2017) 112005; arXiv:1704.03839 [hep-ex].
183. M. Aaboud *et al.* (ATLAS Collaboration), 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, The European Physical Journal C (2017) 77:393; arXiv: 1704.03848 [hep-ex].
184. M. Aaboud *et al.* (ATLAS Collaboration), Jet reconstruction and performance using particle flow with the ATLAS detector, The European Physical Journal C (2017) 77:466; arXiv:1703.10485 [hep-ex].
  185. M. Aaboud *et al.* (ATLAS Collaboration), Measurements of electroweak  $Wjj$  production and constraints on anomalous gauge couplings with the ATLAS detector, The European Physical Journal C (2017) 77:474; arXiv:1703.04362 [hep-ex].
  186. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the  $t\bar{t}$  production cross section in the  $\tau$ +jets final state in pp collisions at  $\sqrt{s} = 8$  TeV using the ATLAS detector, Physical Review D 95 (2017) 072003:361; arXiv: 1702.08839 [hep-ex].
  187. M. Aaboud *et al.* (ATLAS Collaboration), Probing the  $Wtb$  vertex structure in t-channel single-top quark production and decay in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Journal of High Energy Physics 04 (2017) 124:361; arXiv: 1702.08309 [hep-ex].
  188. M. Aaboud *et al.* (ATLAS Collaboration), Performance of the ATLAS transition radiation tracker in Run 1 of the LHC: tracker properties, Journal of Instrumentation (2017) 77:361; arXiv: 1702.06473 [hep-ex].
  189. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the production cross section of a Z boson in association with jets in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS experiment, The European Physical Journal C (2017) 77:361; arXiv: 1702.05725 [hep-ex].
  190. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of jet fragmentation in Pb+Pb and pp collisions at  $\sqrt{s_{NN}} = 2.76$  TeV with the ATLAS detector at the LHC, The European Physical Journal C (2017) 77:379; arXiv: 1702.00674 [hep-ex].
  191. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the cross section for inclusive isolated-photon production in pp collisions at  $\sqrt{s} = 13$  TeV using the ATLAS detector, Physics Letters B 770 (2017) 473-493; arXiv:1701.06882 [hep-ex].
  192. M. Aaboud *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 03 (2017) 157; arXiv: 1701.05390 [hep-ex].
  193. M. Aaboud *et al.* (ATLAS Collaboration), Measurement 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, Journal of High Energy Physics 03 (2017) 113; arXiv: 1612.07004 [hep-ex].
  194. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of top-quark pair differential cross-section in the  $e\mu$  channel in pp collisions at  $\sqrt{s} = 13$  TeV with ATLAS, The European Physical Journal C (2017) 77:292; arXiv: 1612.05220 [hep-ex].
  195. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of top-quark pair to Z-boson cross-section ratios at  $\sqrt{s} = 13, 8, 7$  TeV with the ATLAS detector, Journal of High Energy Physics 02 (2017) 117; arXiv: 1612.03636 [hep-ex].

196. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the prompt J/psi pair production cross-section in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, The European Physical Journal C (2017) 77:76; arXiv: 1612.02950 [hep-ex].
197. M. Aaboud *et al.* (ATLAS Collaboration), Precision measurement and interpretation of inclusive W<sup>+</sup>, W<sup>-</sup> and Z/gamma\* production cross sections with the ATLAS detector, The European Physical Journal C (2017) 77:367; arXiv: 1612.03016 [hep-ex].
198. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the W boson polarisation in ttbar events from pp collisions at  $\sqrt{s} = 8$  TeV in the lepton+jets channel with ATLAS, The European Physical Journal C (2017) 77:264; arXiv: 1612.02577 [hep-ex].
199. M. Aaboud *et al.* (ATLAS Collaboration), Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data, The European Physical Journal C (2017) 77:195; arXiv: 1612.01456 [hep-ex].
200. M. Aaboud *et al.* (ATLAS Collaboration), Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC, The European Physical Journal C (2017) 77:332; arXiv: 1611.10235 [hep-ex].
201. M. Aaboud *et al.* (ATLAS Collaboration), Performance of the ATLAS trigger system in 2015, The European Physical Journal C (2017) 77:317; arXiv: 1611.09661 [hep-ex].
202. M. Aaboud *et al.* (ATLAS Collaboration), High-ET isolated-photon plus jets production in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Nuclear Physics B 918 (2017) 257;144; arXiv: 1611.06586 [hep-ex].
203. M. Aaboud *et al.* (ATLAS Collaboration), Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in  $\sqrt{s} = 13$  TeV, The European Physical Journal C (2017) 77:144; arXiv: 1611.05791 [hep-ex].
204. M. Aaboud *et al.* (ATLAS Collaboration), Measurements 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, The European Physical Journal C (2017) 77:220; arXiv: 1610.09978 [hep-ex].
205. M. Aaboud *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 01 (2017) 117; arXiv: 1610.09303 [hep-ex].
206. M. Aaboud *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 02 (2017) 071; arXiv: 1610.07869 [hep-ex].
207. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the ZZ production cross section in pp collisions at  $\sqrt{s} = 8$  TeV using the ZZ  $\rightarrow$  l-l+l'-l'+ and ZZ  $\rightarrow$  l-l+nu-nu-bar channels with the ATLAS detector, The European Physical Journal C 77 (2017) 141; arXiv: 1610.07585 [hep-ex].

208. M. Aaboud *et al.* (ATLAS Collaboration), Search for triboson  $W^{+}W^{+}W^{-}$  production in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, The European Physical Journal C 77 (2017) 141; arXiv: 1610.05088 [hep-ex].
209. M. Aaboud *et al.* (ATLAS Collaboration), Performance of algorithms that reconstruct missing transverse momentum in  $\sqrt{s} = 8$  TeV proton-proton collisions in the ATLAS detector, The European Physical Journal C 77 (2017) 241; arXiv: 1609.09324 [hep-ex].
210. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of W boson angular distributions in events with high transverse momentum jets at  $\sqrt{s} = 8$  TeV using the ATLAS detector, Physics Letters B 765 (2016) 132-153; arXiv: 1609.07045 [hep-ex].
211. M. Aaboud *et al.* (ATLAS Collaboration), 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, Physics Letters B 765 (2016) 11-31; arXiv: 1609.05122 [hep-ex].
212. M. Aaboud *et al.* (ATLAS Collaboration), Search for dark matter in association with a Higgs boson decayin to b-quarks in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physics Letters B 765 (2016) 11-31; arXiv: 1609.04572 [hep-ex].
213. M. Aaboud *et al.* (ATLAS Collaboration), A measurement of material in the ATLAS tracker using secondary hadronic interactions in 7 TeV pp collisions, Journal of Instrumentation 04 (2016) 086; arXiv: 1609.04305 [hep-ex].
214. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the inclusive cross-sections of single top-quark and top-anti-quark t-channel production in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Journal of High Energy Physics 04 (2016) 086; arXiv: 1609.03920 [hep-ex].
215. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the  $t\bar{t}$ -bar Z and  $t\bar{t}$ -bar W production cross sections in multilepton final states using 3.2 fb<sup>-1</sup> of pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, The European Physical Journal C (2016) 76:653; arXiv: 1609.01599 [hep-ex].
216. M. Aaboud *et al.* (ATLAS Collaboration), Luminosity determination in pp collisions at  $\sqrt{s} = 8$  TeV using the ATLAS detector at the LHC, The European Physical Journal C (2016) 76:653; arXiv: 1608.03953 [hep-ex].
217. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of  $W^{+}W^{-}$  production in association with one jet in proton-proton collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physics Letters B 763 (2016) 114-133; arXiv: 1608.03086 [hep-ex].
218. M. Aaboud *et al.* (ATLAS Collaboration), 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, Physics Letters B 763 (2016) 251-268; arXiv: 1608.02372 [hep-ex].
219. M. Aaboud *et al.* (ATLAS Collaboration), Study of hard double-parton scattering in four-jet events in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS experiment, Journal of High Energy Physics 11 (2016) 110; arXiv: 1608.01857 [hep-ex].
220. M. Aaboud *et al.* (ATLAS Collaboration), Search for minimal supersymmetric standard model Higgs boson H/A and for a Z' boson in the tautau final state produced in pp

- collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, The European Physical Journal C (2016) 76:585; arXiv: 1608.00890 [hep-ex].
221. M. Aaboud *et al.* (ATLAS Collaboration), Dark matter interactions of ATLAS searches for the electroweak production in supersymmetric particles in  $\sqrt{s} = 8$  TeV proton-proton collisions, Journal of Higher Energy Physics 09 (2016) 175; arXiv: 1608.00872 [hep-ex].
222. M. Aaboud *et al.* (ATLAS Collaboration), A measurement of calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC run-1 pp-collision data with the ATLAS detector, The European Physical Journal C (2016) 77:26; arXiv:1607.08842 [hep-ex].
223. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the  $b\bar{b}\gamma$  dijet cross section in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, The European Physical Journal C (2016) 76:670; arXiv:1607.08430 [hep-ex].
224. M. Aaboud *et al.* (ATLAS Collaboration), Search for new phenomena in different-flavour high-mass dilepton final states in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, The European Physical Journal C (2016) 76:541; arXiv:1607.08079 [hep-ex].
225. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of top quark pair differential cross-sections in the dilepton channel in pp collisions at  $\sqrt{s} = 7$  and 8 TeV with ATLAS, Physical Review D 94(2016) 092003; arXiv:1607.07281 [hep-ex].
226. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the total cross section from elastic scattering in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physics Letters B 761 (2016) 158-178; arXiv:1607.06605 [hep-ex].
227. M. Aaboud *et al.* (ATLAS Collaboration), Search for heavy resonances decaying to a Z boson and a photon in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physics Letters B 764 (2016) 11-30; arXiv:1607.06262 [hep-ex].
228. M. Aaboud *et al.* (ATLAS Collaboration), 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, The European Physical Journal C (2016) 76:683; arXiv:1607.05979 [hep-ex].
229. M. Aaboud *et al.* (ATLAS Collaboration), Search for new resonances decaying to a W or Z boson and a Higgs boson in  $l+l-b\bar{b}\gamma$ ,  $l\nu b\bar{b}\gamma$ , and  $l\nu\bar{\nu}b\bar{b}\gamma$  channels with pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physics Letters B 765 (2016) 32-52; arXiv:1607.05621 [hep-ex].
230. M. Aaboud *et al.* (ATLAS Collaboration), 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, Physical Review D 94 (2016) 032011; arXiv:1607.03745 [hep-ex].
231. M. Aaboud *et al.* (ATLAS Collaboration), Search for high-mass new phenomena in the dilepton final state using proton-proton collisions at  $\sqrt{s} = 13$  TeV pp with the ATLAS detector, Physics Letters B 761 (2016) 372-292; arXiv:1607.03669 [hep-ex].

232. M. Aaboud *et al.* (ATLAS Collaboration), Search for Higgs and Z boson decay in  $\phi$  gamma with the ATLAS detector, Physical Review Letters 117, 111802 (2016); arXiv:1607.03400 [hep-ex].
233. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of jet activity in top quark events using the emu final state with two b-tagged jets in pp collisions at  $\sqrt{s} = 8$  TeV pp with the ATLAS detector, Journal of High Energy Physics 09 (2016) 074; arXiv:1606.09490 [hep-ex].
234. M. Aaboud *et al.* (ATLAS Collaboration), 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, The European Physical Journal C (2016) 76:517; arXiv:1606.09150 [hep-ex].
235. M. Aaboud *et al.* (ATLAS Collaboration), Search for bottom squark pair production in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, The European Physical Journal C (2016) 76:547; arXiv:1606.08772 [hep-ex].
236. M. Aaboud *et al.* (ATLAS Collaboration), 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, The European Physical C (2016) 76:605; arXiv:1606.08391 [hep-ex].
237. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of forward-backward multiplicity correlations in lead-lead, proton-lead and proton-proton collisions with the ATLAS detector, Physical Review C 95 (2017) 064914; arXiv:1606.08170 [hep-ex].
238. M. Aaboud *et al.* (ATLAS Collaboration), The performance of the jet trigger for the ATLAS detector during 2011 data taking, The European Physical Journal C (2016) 76:526; arXiv:1606.07759 [hep-ex].
239. M. Aaboud *et al.* (ATLAS Collaboration), Search for heavy long-lived charged R-hadrons with the ATLAS detector in 3.2 fb<sup>-1</sup> of proton-proton collision data at  $\sqrt{s} = 13$  TeV, Physics Letters B 760 (2016) 647-665; arXiv:1606.05129 [hep-ex].
240. M. Aaboud *et al.* (ATLAS Collaboration), Search for heavy diboson resonances in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Journal of High Energy Physics 09 (2016) 173; arXiv:1606.04833 [hep-ex].
241. M. Aaboud *et al.* (ATLAS Collaboration), Search for pair production of Higgs bosons in the  $b\bar{b}b\bar{b}b\bar{b}b$  final state using proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physical Review D 94 (2016) 052002; arXiv:1606.04782 [hep-ex].
242. M. Aaboud *et al.* (ATLAS Collaboration), 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, Physics Letters B 762 (2016) 334-352; arXiv:1606.03977 [hep-ex].
243. M. Aaboud *et al.* (ATLAS Collaboration), Search for resonances in diphoton events at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Journal of High Energy Physics 09 (2016) 001; arXiv:1606.03833 [hep-ex].
244. M. Aaboud *et al.* (ATLAS Collaboration), Search for top squarks in final states with one isolated lepton, jets, and missing transverse momentum in  $\sqrt{s} = 13$  TeV with pp

- collisions with the ATLAS detector, Physical Review D 94, 052009 (2016); arXiv:1606.03903 [hep-ex].
245. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the  $W^+Z$  boson pair-production cross section in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physics Letters B 762 (2016) 1-22; arXiv:1606.04017 [hep-ex].
246. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the  $t\bar{t}$  production cross-section using emu events with b-tagged jets in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physics Letters B 761 (2016) 136-157; arXiv:1606.02699 [hep-ex].
247. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the inelastic proton-proton cross section at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physical Review Letters 117, 182002 (2016); arXiv:1606.02625 [hep-ex].
248. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the top quark mass in  $t\bar{t}$   $\rightarrow$  dilepton channel from  $\sqrt{s} = 8$  TeV ATLAS data, Physics Letters B 761 (2016) 150-171; arXiv:1606.02179 [hep-ex].
249. M. Aaboud *et al.* (ATLAS Collaboration), Search for TeV-scale gravity signatures in high-mass final states with leptons and jets with the ATLAS detector at  $\sqrt{s} = 13$  TeV, Physics Letters B 760 (2016) 520-537; arXiv:1606.02265 [hep-ex].
250. M. Aaboud *et al.* (ATLAS Collaboration), Search for the Standard Model Higgs boson produced by vector-boson fusion in  $\sqrt{s} = 8$  TeV pp collisions and decaying to bottom quarks with the ATLAS detector, Journal of High Energy Physics 11 (2016) 112; arXiv:1606.02181 [hep-ex].
251. M. Aaboud *et al.* (ATLAS and CMS Collaborations), Measurement 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, Journal of High Energy Physics 08 (2016) 045; arXiv:1606.02266 [hep-ex].
252. M. Aaboud *et al.* (ATLAS Collaboration), Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data, The European Physical Journal C (2016) 76:666; arXiv:1606.01813 [hep-ex].
253. G. Aad *et al.* (ATLAS Collaboration), Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Journal of High Energy Physics 08 JHEP (2016) 009; arXiv:1606.01736 [hep-ex].
254. M. Aaboud *et al.* (ATLAS Collaboration), Charged-particle distributions at low transverse momentum in  $\sqrt{s} = 13$  TeV pp interactions measured with the ATLAS detector at the LHC, The European Physical Journal C (2016) 76:502; arXiv:1606.01133 [hep-ex].
255. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 08 (2016) 159; arXiv:1606.00689 [hep-ex].
256. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review D 94, 032003 (2016); arXiv:1605.09318 [hep-ex].



257. G. Aad *et al.* (ATLAS Collaboration), 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, *Physics Letters B* 763 (2016) 313-336; arXiv:1605.06036 [hep-ex].
258. M. Aaboud *et al.* (ATLAS Collaboration), Search for scalar leptoquarks in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS experiment, *New Journal of Physics* 18 (2016) 093016; arXiv:1605.06035 [hep-ex].
259. G. Aad *et al.* (ATLAS Collaboration), Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at  $\sqrt{s} = 13$  TeV with the ATLAS detector, *The European Physical Journal* (2016) 76:565; arXiv:1605.04285 [hep-ex].
260. G. Aad *et al.* (ATLAS Collaboration), Measurement of the inclusive isolated prompt photon cross section in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, *Journal of High Energy Physics* 08 (2016) 005; arXiv:1605.03495 [hep-ex].
261. G. Aad *et al.* (ATLAS Collaboration), Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector, *The European Physical Journal C* (2016) 77:70; arXiv:1604.07730 [hep-ex].
262. M. Aaboud *et al.* (ATLAS Collaboration), Search for states with energetic jet and large missing transverse momentum in pp collisions at  $\sqrt{s} = 13$  TeV using the ATLAS detector, *Physical Review D* 94 (2016) 032005; arXiv:1604.07773 [hep-ex].
263. G. Aad *et al.* (ATLAS Collaboration), Measurement of the charge asymmetry in top-quark pair production in the dilepton final state at  $\sqrt{s} = 8$  TeV with the ATLAS detector, *Physical Review D* 94 (2016) 032006; arXiv:1604.05538 [hep-ex].
264. M. Aaboud *et al.* (ATLAS Collaboration), Study of the rare decays of  $B_s^0$  and  $B^0$  into muon pairs from data collected during the LHC Run 1 with the ATLAS detector, *The European Physical Journal C* (2016) 76:513; arXiv:1604.04263 [hep-ex].
265. G. Aad *et al.* (ATLAS Collaboration), Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to  $WW^* \rightarrow e^+e^-$  with the ATLAS detector at  $\sqrt{s} = 8$  TeV, *Journal of High Energy Physics* 08 (2016) 104; arXiv:1604.02997 [hep-ex].
266. G. Aad *et al.* (ATLAS Collaboration), 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, *Journal of High Energy Physics* 09 (2016) 29; arXiv:1603.01702 [hep-ex].
267. G. Aad *et al.* (ATLAS Collaboration), Search for single production of a vector-like quark decaying to  $Wb$  in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, *The European Physical Journal C* (2016) 76:442; arXiv:1602.05606 [hep-ex].
268. G. Aad *et al.* (ATLAS Collaboration), 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, *The European Physical Journal C* (2016) 76:658; arXiv:1602.04516 [hep-ex].



269. G. Aad *et al.* (ATLAS Collaboration), Measurement of the CP-violating phase  $\phi_s$  and the  $B_s^0$  meson decay width difference with  $B_s^0 \rightarrow J/\psi \phi$  decays in ATLAS, Journal of High Energy Physics 08 (2016) 147; arXiv:1601.03297 [hep-ex].
270. G. Aad *et al.* (ATLAS Collaboration), 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, The European Physical Journal C (2016) 76:538; arXiv:1511.04716 [hep-ex].
271. G. Aad *et al.* (ATLAS Collaboration), Performance of pile-up mitigation techniques for jets in pp collisions at  $\sqrt{s} = 8$  TeV using the ATLAS detector, The European Physical Journal C (2016) 76:581; arXiv:1510.03823 [hep-ex].
272. G. Aad *et al.* (ATLAS Collaboration), Measurement of the relative width difference of the  $B^0$ - $B^0$  system with the ATLAS detector, Journal of High Energy Physics 06 (2016); 081; arXiv:1605.07485 [hep-ex].
273. G. Aad *et al.* (ATLAS Collaboration), Search for squarks and gluinos in final states with jets and missing transverse momentum at  $\sqrt{s} = 13$  TeV with the ATLAS detector, The European Physical Journal C (2016) 76:392; arXiv:1605.03814 [hep-ex].
274. G. Aad *et al.* (ATLAS Collaboration), Measurements of  $Z\gamma$  and  $Z\gamma\gamma$  production in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physical Review D 93, 112002 (2016); arXiv:1604.05232 [hep-ex].
275. G. Aad *et al.* (ATLAS Collaboration), Search for metastable heavy charged particles in large ionization energy loss in pp collisions at  $\sqrt{s} = 13$  TeV using the ATLAS detector, Physical Review D 93 (2016) 112015; arXiv:1604.04520 [hep-ex].
276. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 05 (2016) 160; arXiv:1604.03812 [hep-ex].
277. G. Aad *et al.* (ATLAS Collaboration), Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at  $\sqrt{s} = 13$  TeV by the ATLAS detector, Journal of High Energy Physics 06 (2016) 059; arXiv:1604.01306 [hep-ex].
278. G. Aad *et al.* (ATLAS Collaboration), 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, Physics Letters B 759 (2016) 555-574; arXiv:1603.09203 [hep-ex].
279. G. Aad *et al.* (ATLAS Collaboration), Beam-induced and cosmic-ray backgrounds observed in the ATLAS detector during the LHC 2012 proton-proton running period, Journal of Instrumentation 11 (2016) P05013; arXiv:1603.09202 [hep-ex].
280. G. Aad *et al.* (ATLAS Collaboration), Measurement of  $W^{\pm}$  and Z-boson production cross sections in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physics Letters B 759 (2016) 601-621; arXiv:1603.09222 [hep-ex].
281. G. Aad *et al.* (ATLAS Collaboration), 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, *Physics Letters B* 759 (2016) 229-246; arXiv:1603.08791 [hep-ex].
282. G. Aad *et al.* (ATLAS Collaboration), Muon reconstruction performance of the ATLAS detector in proton-proton collision data at  $\sqrt{s} = 13$  TeV, *The European Physical Journal C* (2016) 76:292; arXiv:1603.05598 [hep-ex].
  283. G. Aad *et al.* (ATLAS Collaboration), Identification of high transverse momentum top quarks in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, *Journal of High Energy Physics* 06 (2016) 093; arXiv:1603.03127 [hep-ex].
  284. G. Aad *et al.* (ATLAS Collaboration), Charged-particle distributions in pp interactions at  $\sqrt{s} = 8$  TeV measured with the ATLAS detector at the LHC, *The European Physical Journal C* (2016) 76:403; arXiv:1603.02439 [hep-ex].
  285. G. Aad *et al.* (ATLAS Collaboration), Measurement of  $W+Z$  production cross sections in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector and limits on anomalous gauge boson self-couplings, *Physical Review D* 93, 092004 (2016); arXiv:1603.02151 [hep-ex].
  286. G. Aad *et al.* (ATLAS Collaboration), 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, *The European Physical Journal C* (2016) 76:259; arXiv:1602.09058 [hep-ex].
  287. G. Aad *et al.* (ATLAS Collaboration), Measurement of event-shape observables in  $Z \rightarrow l+l-$  events in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector at the LHC, *The European Physical Journal C* (2016) 76:375; arXiv:1602.08980 [hep-ex].
  288. G. Aad *et al.* (ATLAS Collaboration), 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, *Physics Letters B* 757 (2016) 334-355; arXiv:1602.06194 [hep-ex].
  289. G. Aad *et al.* (ATLAS Collaboration), Search for single production of a vector-like quark via a heavy gluon in the  $4b$  final state with the ATLAS detector in pp collisions at  $\sqrt{s} = 8$  TeV, *Physics Letters B* 758 (2016) 249-268; arXiv:1602.06034 [hep-ex].
  290. G. Aad *et al.* (ATLAS Collaboration), Charged-particle distributions in  $\sqrt{s} = 13$  TeV pp interactions measured with the ATLAS detector at the LHC, *Physics Letters B* 758 (2016) 67-88; arXiv:1602.01633 [hep-ex].
  291. G. Aad *et al.* (ATLAS Collaboration), Measurement of the charged-particle multiplicity inside jets from  $\sqrt{s} = 8$  TeV pp collisions with the ATLAS detector, *The European Physical Journal C* (2016) 76:322; arXiv:1602.00988 [hep-ex].
  292. G. Aad *et al.* (ATLAS Collaboration), 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, *Journal of High Energy Physics* 06 (2016) 067; arXiv:1601.07453 [hep-ex].
  293. G. Aad *et al.* (ATLAS Collaboration), 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, *New Journal of Physics* 18 (2016) 073021; arXiv:1601.05627 [hep-ex].

294. G. Aad *et al.* (ATLAS Collaboration), Probing lepton flavor violation via neutrinoless tau  $\rightarrow 3\mu$  decays with the ATLAS detector, The European Physics Journal C 76 (2016) 232; arXiv:1601.03567 [hep-ex].
295. G. Aad *et al.* (ATLAS Collaboration), Search for new phenomena with photon+jet events in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Journal of High Energy Physics 03 (2016) 041; arXiv:1512.05910 [hep-ex].
296. G. Aad *et al.* (ATLAS Collaboration), Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment, The European Physical Journal (2016) 76: 295; arXiv:1512.05955 [hep-ex].
297. G. Aad *et al.* (ATLAS Collaboration), 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, Physics Letters B 756 (2016) 52-71; arXiv:1512.06092 [hep-ex].
298. G. Aad *et al.* (ATLAS Collaboration), Measurement of the ZZ production cross section in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physical Review Letters 116 (2016) 101801; arXiv:1512.05314 [hep-ex].
299. G. Aad *et al.* (ATLAS Collaboration), Combination of searches for WW, WZ, and ZZ resonances in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physics Letters B 775 (2016) 285-305; arXiv:1512.05099 [hep-ex].
300. G. Aad *et al.* (ATLAS Collaboration), Measurement of the differential cross-sections of prompt and non-prompt production of J/psi and  $\phi(2S)$  in pp collisions at  $\sqrt{s} = 7$  TeV and 8 TeV with the ATLAS detector, The European Physical Journal C (2016) 76: 283; arXiv:1512.03658 [hep-ex].
301. G. Aad *et al.* (ATLAS Collaboration), Search for charged Higgs bosons in the  $H^{\pm\pm} \rightarrow tb$  decay channel in pp collisions at  $\sqrt{s} = 8$  TeV using the ATLAS detector, Journal of High Energy Physics 03 (2016) 127; arXiv:1512.03704 [hep-ex].
302. G. Aad *et al.* (ATLAS Collaboration), Measurement of  $D^{*\pm}$ ,  $D^+$  and  $D_s^{\pm}$  meson production cross sections in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Nuclear Physics B 907 (2016) 717-763; arXiv:1512.029134 [hep-ex].
303. G. Aad *et al.* (ATLAS Collaboration), Search for strong gravity in multijet final states produced in pp collisions at  $\sqrt{s} = 13$  TeV using the ATLAS detector, Journal of High Energy Physics 03 (2016) 026; arXiv:1512.02586 [hep-ex].
304. G. Aad *et al.* (ATLAS Collaboration), Measurement of the transverse momentum and  $\phi_{\eta^*}$  distributions of Drell-Yan lepton pairs in proton-proton collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, The European Physical Journal C (2016) 76:291; arXiv:1512.02192 [hep-ex].
305. G. Aad *et al.* (ATLAS Collaboration), Search for new phenomena in dijet mass and angular distributions from pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector, Physics Letters B 754 (2016) 302-322; arXiv:1512.01530 [hep-ex].
306. G. Aad *et al.* (ATLAS Collaboration), Performance of b-jet identification in the ATLAS experiment, Journal of Instrumentation 11 (2016) P04008; arXiv:1512.01094 [hep-ex].

307. G. Aad *et al.* (ATLAS Collaboration), 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, Physics Letters B 756 (2016) 10-28; arXiv:1512.00197 [hep-ex].
308. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review D 93, 092005 (2016); arXiv:1511.08352 [hep-ex].
309. G. Aad *et al.* (ATLAS Collaboration), Evidence for single top-quark production in the s-channel in proton-proton collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector using the matrix element method, Physics Letters B 754 (2016) 228-246; arXiv:1511.05980 [hep-ex].
310. G. Aad *et al.* (ATLAS Collaboration), A search for prompt lepton-jets in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Journal of High Energy Physics 02 (2016) 062; arXiv:1511.05542 [hep-ex].
311. G. Aad *et al.* (ATLAS Collaboration), Dijet production in  $\sqrt{s} = 7$  TeV pp collisions with large rapidity gaps at the ATLAS experiment, Physics Letters B 745 (2016) 214-234; arXiv:1511.00502 [hep-ex].
312. G. Aad *et al.* (ATLAS Collaboration), Measurement of the correlations between the polar angles of leptons from top quark decays in the helicity bases at  $\sqrt{s} = 7$  TeV using the ATLAS experiment, Physical Review D 93 (2016) 012002; arXiv:1510.07478 [hep-ex].
313. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review D 93 (2016) 072002; arXiv:1510.06218 [hep-ex].
314. G. Aad *et al.* (ATLAS Collaboration), Identification of boosted, hadronically decaying W bosons and comparisons with ATLAS data taken at  $\sqrt{s} = 8$  TeV, The European Physical Journal C 76(3) (2016) 1-47; arXiv:1510.05821 [hep-ex].
315. G. Aad *et al.* (ATLAS Collaboration), Measurement of the production cross-section of a single top quark in association with a W boson at 8 TeV with the ATLAS experiment, Journal of High Energy Physics 01 (2016) 064; arXiv:1510.03752 [hep-ex].
316. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 04 (2016) 023; arXiv:1510.03764 [hep-ex].
317. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review D 93 (2016) 032009; arXiv:1510.03818 [hep-ex].
318. G. Aad *et al.* (ATLAS Collaboration), Search for the production of single vector-like and excited quarks in the  $Wt$  final state in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Journal of High Energy Physics 02 (2016) 110; arXiv:1510.02664 [hep-ex].

319. G. Aad *et al.* (ATLAS Collaboration), Search for magnetic monopoles and stable particles with high electric charges in 8 TeV pp collisions with the ATLAS detector, Physical Review D 93 (2016) 052009; arXiv:1509.08059 [hep-ex].
320. G. Aad *et al.* (ATLAS Collaboration), Measurements of four-lepton production in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physics Letters B 753 (2016) 552-572; arXiv:1509.07844 [hep-ex].
321. G. Aad *et al.* (ATLAS Collaboration), Measurements of four-jet differential cross sections in  $\sqrt{s} = 8$  TeV proton-proton collisions using the ATLAS detector, Journal of High Energy Physics 12 (2015) 105; arXiv:1509.07335 [hep-ex].
322. D.M. Gingrich, Collider searches for non-perturbative low-scale gravity states, International Journal of Modern Physics A Vol. 30 (2015) 1530061; arXiv:1509.07180 [hep-ph].
323. G. Aad *et al.* (ATLAS Collaboration), Search for the electroweak production of supersymmetric particles in  $\sqrt{s} = 8$  TeV pp collisions with the ATLAS detector, Physical Review D 93 (2016) 052002; arXiv:1509.07152 [hep-ex].
324. G. Aad *et al.* (ATLAS Collaboration), Search for flavor-changing neutral current top quark decays  $t \rightarrow Hq$  in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Journal of High Energy Physics 12 (2015) 061; arXiv:1509.06047 [hep-ex].
325. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 11 (2015) 172; arXiv:1509.05276 [hep-ex].
326. G. Aad *et al.* (ATLAS Collaboration), Measurement of jet charge in dijet events from  $\sqrt{s} = 8$  TeV pp collisions with the ATLAS detector, Physical Review D 93 (2016) 052003; arXiv:1509.05190 [hep-ex].
327. G. Aad *et al.* (ATLAS Collaboration), Search for direct scalar top pair production in final states with two tau leptons in pp collisions at  $\sqrt{s} = 8$  TeV pp with the ATLAS detector, The European Physical Journal C 76 (2016) 81; arXiv:1509.04976 [hep-ex].
328. G. Aad *et al.* (ATLAS Collaboration), Search for new phenomena in events with at least three photons collected in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, The European Journal of Physics C 76(4) (2016) 1-26; arXiv:1509.05051 [hep-ex].
329. G. Aad *et al.* (ATLAS Collaboration), A new method to distinguish hadronically decaying boosted Z bosons from W bosons using the ATLAS detector, The European Physical Journal C 76 (2016) 238; arXiv:1509.04939 [hep-ex].
330. G. Aad *et al.* (ATLAS Collaboration), Observation of long-range elliptical anisotropies in  $\sqrt{s} = 13$  TeV and 2.76 TeV pp collisions with ATLAS, Physical Review Letters 116 (2016) 172301; arXiv:1509.04776 [hep-ex].
331. G. Aad *et al.* (ATLAS Collaboration), Searches for Higgs boson pair production in the  $hh \rightarrow b\bar{b}\tau\tau$ ,  $\gamma\gamma WW^*$ ,  $\gamma\gamma\gamma\gamma$ ,  $bbbb$  channels with the ATLAS detector, Physical Review D 92 (2015) 092004; arXiv:1509.04670 [hep-ex].

332. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review D 92 (2015) 112007; arXv:1509.04261 [hep-ex].
333. G. Aad *et al.* (ATLAS Collaboration), Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at  $\sqrt{s} = 8$  TeV with the ATLAS detector, The European Physical Journal C 76 (2016) 87; arXv:1509.02358 [hep-ex].
334. G. Aad *et al.* (ATLAS Collaboration), Constraints on new phenomena via Higgs boson coupling and invisible decays with the ATLAS detector, Journal of High Energy Physics 11 (2015) 206; arXv:1509.00672 [hep-ex].
335. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 01 (2016) 032; arXv:1509.00389 [hep-ex].
336. G. Aad *et al.* (ATLAS Collaboration), Search for single top-quark production via flavor changing neutral currents at 8 TeV with the ATLAS detector, The European Physical Journal C 76 (2016) 55; arXv:1509.00294 [hep-ex].
337. G. Aad *et al.* (ATLAS Collaboration), Search for invisible decays of a Higgs boson using vector-boson fusion in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Journal of High Energy Physics 01 (2016) 172; arXv:1508.07869 [hep-ex].
338. G. Aad *et al.* (ATLAS Collaboration), Measurements of fiducial cross-sections for ttbar production with one or two additional b-jets in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, The European Physical Journal C 76 (2016) 11; arXv:1508.06868 [hep-ex].
339. G. Aad *et al.* (ATLAS Collaboration), Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 – interpreted in the phenomenological MSSM, Journal of High Energy Physics 10 (2015) 134; arXv:1508.06608 [hep-ex].
340. G. Aad *et al.* (ATLAS Collaboration), Search for flavor-changing neutral current top-quark decays to qZ in pp collision data collected with the ATLAS detector at  $\sqrt{s} = 8$  TeV, The European Physical Journal C 76 (2016) 12; arXv:1508.05796 [hep-ex].
341. G. Aad *et al.* (ATLAS Collaboration), Searches for scalar leptoquarks in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, The European Physical Journal C 76(1) (2016) 1-28; arXv:1508.04735 [hep-ex].
342. G. Aad *et al.* (ATLAS Collaboration), Search for lepton-flavour-violating  $H \rightarrow \mu\tau$  decays of the Higgs boson with the ATLAS detector, Journal of High Energy Physics 11 (2015) 211; arXv:1508.03372 [hep-ex].
343. G. Aad *et al.* (ATLAS Collaboration), 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, Physics Letters B 753 (2016) 69-85; arXv:1508.02507 [hep-ex].
344. G. Aad *et al.* (ATLAS Collaboration), 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  $\alpha_s(m_Z)$ , Physics Letters B 750 (2015) 427-447; arXv:1508.02579 [hep-ex].
345. G. Aad *et al.* (ATLAS Collaboration), 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, The European Physical Journal C 76 (2016) 199; arXv:1508.00848 [hep-ex].
  346. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review Letters 115 (2015) 262001; arXv:1507.08925 [hep-ex].
  347. G. Aad *et al.* (ATLAS Collaboration), 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, Physics Letters B 751 (2015) 63-80; arXv:1507.08202 [hep-ex].
  348. G. Aad *et al.* (ATLAS Collaboration), Study of the  $B_c^+ \rightarrow J/\psi D_{s^*}^+$  and  $B_c^+ \rightarrow J/\psi D_{s^*}^+$  decays with the ATLAS detector, The European Physical Journal C 76(1) (2016) 1-24; arXv:1507.07099 [hep-ex].
  349. G. Aad *et al.* (ATLAS Collaboration), Z boson production in p+Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV measured with the ATLAS detector, Physical Review C 92 (2015) 044915; arXv:1507.06232 [hep-ex].
  350. G. Aad *et al.* (ATLAS Collaboration), Search for an additional, heavy Higgs boson in the  $H \rightarrow ZZ$  decay channel at  $\sqrt{s} = 8$  TeV in pp collision data with the ATLAS detector, The European Physical Journal C 76 (2016) 45; arXv:1507.05930 [hep-ex].
  351. G. Aad *et al.* (ATLAS Collaboration), Search for photonic signatures of gauge-mediated supersymmetry in  $\sqrt{s} = 8$  TeV pp collisions with the ATLAS detector, Physical Review D 92 (2015) 072001; arXv:1507.05493 [hep-ex].
  352. G. Aad *et al.* (ATLAS Collaboration), Summary of the search for squarks and gluinos using  $\sqrt{s} = 8$  TeV pp collisions with the ATLAS experiment at the LHC, Journal of High Energy Physics 10 (2015) 054; arXv:1507.05525 [hep-ex].
  353. G. Aad *et al.* (ATLAS Collaboration), 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, The European Physical Journal C 76 (2016) 6; arXv:1507.04548 [hep-ex].
  354. G. Aad *et al.* (ATLAS Collaboration), Determination of the top-quark pole mass using  $t\bar{t} + 1$ -jet events collected with the ATLAS experiment in 7 TeV pp collisions, Journal of High Energy Physics 10 (2015) 121; arXv:1507.01769 [hep-ex].
  355. G. Aad *et al.* (ATLAS Collaboration), Centrality, rapidity and transverse momentum dependence of isolated prompt photon production in lead-lead collisions at  $\sqrt{s_{NN}} = 2.76$  TeV measured with the ATLAS detector, Physical Review C 93 (2016) 034914; arXiv:1506.08552 [hep-ex].
  356. G. Aad *et al.* (ATLAS Collaboration), ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider, The European Physical Journal C 75 (2015) 510; arXiv:1506.08616 [hep-ex].



357. G. Aad *et al.* (ATLAS Collaboration), Measurement of the production of neighbouring jets in lead-lead collisions at  $\sqrt{s_{\text{NN}}} = 2.76$  TeV with the ATLAS detector, *Physics Letters B* 751 (2015) 376; arXiv:1506.08656 [hep-ex].
358. G. Aad *et al.* (ATLAS Collaboration), Measurement of exclusive  $\gamma\gamma \rightarrow l+l$  production in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Physics Letters B* 749 (2015) 242-261; arXiv:1506.07098 [hep-ex].
359. G. Aad *et al.* (ATLAS Collaboration), Study of (W/Z)H production and Higgs boson couplings using  $H \rightarrow WW^*$  decays with the ATLAS detector, *Journal of High Energy Physics* 08 (2015) 137; arXiv:1506.06641 [hep-ex].
360. G. Aad *et al.* (ATLAS Collaboration), Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at  $\sqrt{s} = 8$  TeV, *Journal of High Energy Physics* 07 (2015) 162; arXiv:1506.06020 [hep-ex].
361. G. Aad *et al.* (ATLAS Collaboration), Search for the associated production of the Higgs boson with a top quark pair in multilepton final states with the ATLAS detector, *Physics Letters B* 749 (2015) 519-541; arXiv:1506.05988 [hep-ex].
362. G. Aad *et al.* (ATLAS Collaboration), Measurement of colour flow with the jet pull angle in  $t\bar{t}$  events using the ATLAS detector, *Physics Letters B* 750 (2015) 475-493; arXiv:1506.05629 [hep-ex].
363. G. Aad *et al.* (ATLAS Collaboration), Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector, *The European Physical Journal C* 75 (2015) 476; arXiv:1506.05669 [hep-ex].
364. G. Aad *et al.* (ATLAS Collaboration), Modelling  $Z \rightarrow \tau\tau$  processes in ATLAS with  $\tau$ -embedded in  $Z \rightarrow \mu\mu$  data, *Journal of Instrumentation* 10 (2015) P09018; arXiv:1506.05623 [hep-ex].
365. G. Aad *et al.* (ATLAS Collaboration), Search for metastable heavy charged particles with large ionization energy loss in pp collisions at  $\sqrt{s} = 8$  TeV using the ATLAS experiment, *The European Physical Journal C* 75 (2015) 407; arXiv:1506.05332 [hep-ex].
366. G. Aad *et al.* (ATLAS Collaboration), Measurement of the top quark branching ratios into channels with leptons and quarks with the ATLAS Detector, *Physical Review D* 92 (2015) 072005; arXiv:1506.05074 [hep-ex].
367. G. Aad *et al.* (ATLAS Collaboration), Search for type-III seesaw heavy leptons in pp collisions at  $\sqrt{s} = 8$  TeV with ATLAS Detector, *Physical Review D* 92, 032001 (2015); arXiv:1506.01839 [hep-ex].
368. G. Aad *et al.* (ATLAS Collaboration), Search for heavy lepton resonances decaying to a Z boson and a lepton in pp collisions at  $\sqrt{s} = 8$  TeV with ATLAS Detector, *Journal of High Energy Physics* 09 (2015) 108; arXiv:1506.01291 [hep-ex].
369. G. Aad *et al.* (ATLAS Collaboration), 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 ATLAS Detector, *Physical Review Letters* 115 (2015) 131801; arXiv:1506.01081 [hep-ex].

370. G. Aad *et al.* (ATLAS Collaboration), 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 ATLAS Detector at the LHC, The European Physical Journal C 75 (2015) 412; arXiv:1506.00285 [hep-ex].
371. G. Aad *et al.* (ATLAS Collaboration), Measurement of differential J/psi production cross sections and forward-backward ratio in p+Pb collisions with the ATLAS detector, Physical Review C 92 (2015) 034904; arXiv:1506.08141 [hep-ex].
372. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review D 92 (2015) 092001; arXiv:1506.07645 [hep-ex].
373. G. Aad *et al.* (ATLAS Collaboration), A search for  $t\bar{t}$  resonances using lepton-plus-jets events in proton-proton collisions at  $\sqrt{s} = 8$  TeV with ATLAS detector, Journal of High Energy Physics 08 (2015) 148; arXiv:1505.07018v1 [hep-ex].
374. G. Aad *et al.* (ATLAS Collaboration), Search for production of vector-like quark pairs and of four top quarks in lepton-plus-jets final states in pp collisions at  $\sqrt{s} = 8$  TeV with ATLAS detector, submitted to JHEP (2015); arXiv:1505.04306v2 [hep-ex].
375. G. Aad *et al.* (ATLAS Collaboration), Search for Higgs bosons decaying to  $a\bar{a}$  in muon-muon final state in pp collisions at  $\sqrt{s} = 8$  TeV with ATLAS Detector, Physical Review D 92, 052002 (2015); arXiv:1505.01609v1 [hep-ex].
376. G. Aad *et al.* (ATLAS Collaboration), Measurements of the Total and Differential Higgs Boson Production Cross Sections Combining the  $H \rightarrow \gamma\gamma$  and  $H \rightarrow ZZ^* \rightarrow 4l$  Decay Channels at  $\sqrt{s} = 8$  TeV with ATLAS Detector, submitted to PRL (2015); arXiv:1504.05833v1 [hep-ex].
377. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review D 92, 032004 (2015); arXiv:1504.0516v1 [hep-ex].
378. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 10 (2015) 150; arXiv:1504.04605v1 [hep-ex].
379. G. Aad *et al.* (ATLAS Collaboration), 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, The European Physical Journal C (2015) 75:337; arXiv:1504.04324v1 [hep-ex].
380. G. Aad *et al.* (ATLAS Collaboration), Centrality and rapidity dependence of inclusive jet production in  $\sqrt{s_{NN}} = 5.02$  TeV proton-lead collisions with the ATLAS detector, Physics Letters B 748 (2015) 392-413; arXiv:1412.4092v1 [hep-ex].
381. G. Aad *et al.* (ATLAS Collaboration), Search for new phenomena in events with three or more charged leptons in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Journal of High Energy Physics 08 (2015) 138; arXiv:1411.2921v1 [hep-ex].

382. G. Aad *et al.* (ATLAS Collaboration), Two-particle Bose-Einstein correlations in pp collisions at  $\sqrt{s} = 0.9$  and 7 TeV measured with the ATLAS detector, The European Physical Journal C 75 (2015) 466; arXiv:1502.07947v1 [hep-ex].
383. G. Aad *et al.* (ATLAS Collaboration), Measurement of charged-particle spectra in Pb+Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV with the ATLAS detector at the LHC, Journal of High Energy Physics 09 (2015) 050; arXiv:1504.04337v1 [hep-ex].
384. G. Aad *et al.* (ATLAS Collaboration), Measurement of the forward-backward asymmetry of electron and muon pair-production in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Journal of High Energy Physics 09 (2015) 049; arXiv:1503.03709v1 [hep-ex].
385. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review C 92 (2015) 034903; arXiv:1504.01289v1 [hep-ex].
386. G. Aad *et al.* (ATLAS Collaboration), A search for high-mass resonance decaying to  $\tau + \tau$ - in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Journal of High Energy Physics 07 (2015) 157; arXiv:1502.07177v1 [hep-ex].
387. G. Aad *et al.* (ATLAS Collaboration), Search for high-mass diphoton resonances in pp collisions at  $\sqrt{s} = 8$  TeV with ATLAS detector, Physical Review D 92, 032004 (2015); arXiv:1504.05511v1 [hep-ex].
388. G. Aad *et al.* (ATLAS Collaboration), Search for heavy long-lived multi-charged particles in pp collisions at  $\sqrt{s} = 8$  TeV using the ATLAS detector, The European Physical Journal C (2015) 75:362; arXiv:1504.04188v1 [hep-ex].
389. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review D 91 (2015) 112013; arXiv:1504.04251v1 [hep-ex].
390. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review D 92, 012010 (2015); arXiv:1504.03634v1 [hep-ex].
391. G. Aad *et al.* (ATLAS Collaboration), Search for New Phenomena in Dijet Angular Distributions in Proton-Proton Collisions at  $\sqrt{s} = 8$  TeV Measured with the ATLAS Detector, Physical Review Letters 114 (2015) 221802; arXiv:1504.00357v1 [hep-ex].
392. G. Aad *et al.* (ATLAS Collaboration), Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at  $\sqrt{s} = 8$  TeV, Journal of High Energy Physics 07 (2015) 032; arXiv:1503.08988v1 [hep-ex].
393. G. Aad *et al.* (ATLAS Collaboration), Search for a new resonance decaying to a W or Z boson and a Higgs boson in  $ll/\text{lnu}/\text{nunu} + b\bar{b}$  final states with the ATLAS detector, The European Physical Journal C (2015) 75:263; arXiv:1503.08989v1 [hep-ex].
394. G. Aad *et al.* (ATLAS Collaboration), Combined Measurement of the Higgs Boson Mass in pp Collisions at  $\sqrt{s} = 7$  and 8 TeV with the ATLAS and CMS Experiments, accepted in Physical Review Letters 114 (2015) 191803; arXiv:1503.07589v1 [hep-ex].

395. G. Aad *et al.* (ATLAS Collaboration), Measurement of the top quark mass in the  $t\bar{t} \rightarrow \text{lepton} + \text{jets}$  and  $t\bar{t} \rightarrow d\bar{d} \ell^+ \ell^-$  channels using  $\sqrt{s} = 7$  TeV ATLAS data, The European Physical Journal C (2015) 75:330; arXiv:1503.05427v1 [hep-ex].
396. G. Aad *et al.* (ATLAS Collaboration), 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, PRD (2015); arXiv:1503.05425v1 [hep-ex].
397. G. Aad *et al.* (ATLAS Collaboration), 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, The European Physical Journal C (2015) 75:349; arXiv:1503.05066v1 [hep-ex].
398. G. Aad *et al.* (ATLAS Collaboration), 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, The European Physical Journal C (2015); arXiv:1503.04677v1 [hep-ex].
399. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review Letters 114, 231801 (2015); arXiv:1503.04233v1 [hep-ex].
400. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review Letters 115, 031801 (2015); arXiv:1503.04430v1 [hep-ex].
401. G. Aad *et al.* (ATLAS Collaboration), Determination of spin and parity of the Higgs boson in the  $WW^* \rightarrow e \nu \mu \nu$  decay channel with the ATLAS detector, The European Physical Journal C (2015) 75:231; arXiv:1503.03643v1 [hep-ex].
402. G. Aad *et al.* (ATLAS Collaboration), Evidence of W $\gamma\gamma$  Production in pp Collisions at  $\sqrt{s} = 8$  TeV and Limits on Anomalous Quartic Gauge Coupling with the ATLAS detector, Physical Review Letters 115, 031802 (2015); arXiv:1503.03243v1 [hep-ex].
403. G. Aad *et al.* (ATLAS Collaboration), 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, The European Physical Journal C 75:318 (2015); arXiv:1503.03290v1 [hep-ex].
404. G. Aad *et al.* (ATLAS Collaboration), Constraints on the off-shell Higgs boson signal strength in the high-mass ZZ and WW final states with the ATLAS detector, The European Physical Journal C (2015) 75:335; arXiv:1503.01060v1 [hep-ex].
405. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 06 (2015) 100; arXiv:1502.05923v1 [hep-ex].
406. G. Aad *et al.* (ATLAS Collaboration), Search for massive supersymmetric particles decaying to many jets using the ATLAS detector in pp collisions at  $\sqrt{s} = 8$  TeV, Physical Review D 91, 112016 (2015); arXiv:1502.05686v1 [hep-ex].

407. G. Aad *et al.* (ATLAS Collaboration), Search for a CP-odd Higgs boson decaying to  $Zh$  in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physics Letters B 744 (2015) 163-183; arXiv:1502.04478v1 [hep-ex].
408. G. Aad *et al.* (ATLAS Collaboration), 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, The European Physical Journal C 75:299 (2015); arXiv:1502.01518v1 [hep-ex].
409. G. Aad *et al.* (ATLAS Collaboration), Observation of top-quark pair production in association with a photon and measurement of the  $t\bar{t}\gamma$  production cross section in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physical Review D 91, 072007 (2015); arXiv:1502.00586v1 [hep-ex].
410. G. Aad *et al.* (ATLAS Collaboration), Measurement of the charge asymmetry in dileptonic decays of top quark pairs in pp collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector, Journal of High Energy Physics 05 (2015) 061; arXiv:1501.07383v1 [hep-ex].
411. G. Aad *et al.* (ATLAS Collaboration), 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, The European Physical Journal C (2015); arXiv:1501.07110v1 [hep-ex].
412. G. Aad *et al.* (ATLAS Collaboration), Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector, Journal of High Energy Physics 04 (2015) 117; arXiv:1501.04943v1 [hep-ex].
413. G. Aad *et al.* (ATLAS Collaboration), Search for pair-produced long-lived neutral particles decaying to jets in the ATLAS hadronic calorimeter in pp collisions at  $\sqrt{s} = 8$  TeV, Physics Letters B 743 (2015) 15-34; arXiv:1501.04020v2 [hep-ex].
414. G. Aad *et al.* (ATLAS Collaboration), Search for Higgs and Z Boson Decays to  $J/\psi$  gamma and  $Y(nS)$  gamma with the ATLAS detector, Physical Review Letters 114 (2015) 121801; arXiv:1501.03276v2 [hep-ex].
415. G. Aad *et al.* (ATLAS Collaboration), Search for squarks and gluinos in events with isolated leptons, jets and missing transverse momentum at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Journal of High Energy Physics 04 (2015) 116; arXiv:1501.03555v1 [hep-ex].
416. G. Aad *et al.* (ATLAS Collaboration), Search for Scalar Charm Quark Pair Production in pp Collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physical Review Letters 114, 161801 (2015); arXiv:1501.01325v1 [hep-ex].
417. G. Aad *et al.* (ATLAS Collaboration), Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at  $\sqrt{s} = 8$  TeV, The European Physical Journal C (215) 75:330; arXiv:1412.70865v1 [hep-ex].
418. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics (2015) 088; arXiv:1412.6663v2 [hep-ex].
419. G. Aad *et al.* (ATLAS Collaboration), Observation and measurement of the production of prompt and non-prompt  $J/\psi$  meson in association with a Z boson in pp collisions at  $\sqrt{s}$

- = 8 TeV with the ATLAS detector, The European Physical Journal C (2015) 75:229; arXiv:1412.6428v1 [hep-ex].
420. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review Letters 114, 142001 (2015); arXiv:1412.4742v2 [hep-ex].
421. G. Aad *et al.* (ATLAS Collaboration), Observation and measurement of Higgs boson decays to  $WW^*$  with the ATLAS detector, Physical Review D 92, 012006 (2015); arXiv:1412.2641v1 [hep-ex].
422. G. Aad *et al.* (ATLAS Collaboration), Measurement of the transverse polarization of lambda and anti-lambda hyperons produced in proton-proton collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector, Physical Review D 91, 032004 (2015); arXiv:1412.1692v2 [hep-ex].
423. G. Aad *et al.* (ATLAS Collaboration), Search for anomalous production of prompt same-sign lepton pairs and pair-produced double charged Higgs bosons with  $\sqrt{s} = 8$  TeV of pp collisions using the ATLAS detector, Journal of High Energy Physics 03 (2015) 041; arXiv:1412.0237v2 [hep-ex].
424. G. Aad *et al.* (ATLAS Collaboration), Search for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at  $\sqrt{s} = 8$  TeV, Journal of High Energy Physics 01 (2015) 068; arXiv:1411.6795v2 [hep-ex].
425. G. Aad *et al.* (ATLAS Collaboration), Measurements of the Nuclear Modification Factor for Jets in Pb+Pb Collisions at  $\sqrt{s_{NN}} = 2.76$  TeV with the ATLAS detector, Physical Review Letters 114, 072392 (2015); arXiv:1411.2357v2 [hep-ex].
426. G. Aad *et al.* (ATLAS Collaboration), Measurement of three-jet production cross-sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS Detector, The European Physical Journal C (2015) 75:228; arXiv:1411.1855v1 [hep-ex].
427. G. Aad *et al.* (ATLAS Collaboration), Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physical Review D 91, 012008 (2015); arXiv:1411.1559v2 [hep-ex].
428. G. Aad *et al.* (ATLAS Collaboration), Measurement of the inclusive jet cross-section in proton-proton collisions at  $\sqrt{s} = 7$  TeV using 4.5 fb<sup>-1</sup> of data with the ATLAS detector, Journal of High Energy Physics 02 (2015) 153; arXiv:1410.8857v2 [hep-ex].
429. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 01 (2015) 049; arXiv:1410.7238v2 [hep-ex].
430. G. Aad *et al.* (ATLAS Collaboration), Search for invisible particles produced in association with single-top-quark in proton-proton collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, The European Physical Journal C (2015) 75:79; arXiv:1410.5404v2 [hep-ex].

431. G. Aad *et al.* (ATLAS Collaboration), Search for the  $X_b$  and other hidden-beauty states in the  $\pi^+\pi^-Y(1S)$  channel at ATLAS, Physics Letters B 740 (2015) 199-217; arXiv:1410.4409v2 [hep-ex].
432. G. Aad *et al.* (ATLAS Collaboration), Search for dark matter in events with heavy quarks and missing transverse momentum in pp collisions with the ATLAS detector, The European Physical Journal C (2015) 75:92; arXiv:1410.4409v2 [hep-ex].
433. G. Aad *et al.* (ATLAS Collaboration), Search for  $W' \rightarrow t\bar{b}$  in the lepton plus jets final state in proton-proton collisions at a center-of-mass energy of  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physics Letters B 743 (2015) 235-255; arXiv:1410.4103v2 [hep-ex].
434. G. Aad *et al.* (ATLAS Collaboration), Search for s-channel single top-quark production in proton-proton collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physics Letters B 740 (2015) 118-136; arXiv:1410.0647v2 [hep-ex].
435. G. Aad *et al.* (ATLAS Collaboration), Measurements of the W production cross sections in association with jets with the ATLAS detector, The European Physical Journal C (2015) 75:82; arXiv:1409.8639v2 [hep-ex].
436. G. Aad *et al.* (ATLAS Collaboration), Search for resonant diboson production in the  $l\bar{l}q\bar{q}$  final state in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, The European Physical Journal C (2015) 75:69; arXiv:1409.6190v2 [hep-ex].
437. G. Aad *et al.* (ATLAS Collaboration), Search for the  $b\bar{b}$  decay of the Standard Model Higgs boson in associated  $(W/Z)H$  production with the ATLAS detector, Journal of High Energy Physics 01 (2015) 069; arXiv:1409.6212v2 [hep-ex].
438. G. Aad *et al.* (ATLAS Collaboration), Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Journal of High Energy Physics 11 (2014) 056; arXiv:1409.6064v2 [hep-ex].
439. G. Aad *et al.* (ATLAS Collaboration), Search for nonpointing and delayed photons in diphoton and missing transverse momentum final state in 8 TeV pp collisions at the LHC using the ATLAS detector, Physical Review D 90 112005 (2014); arXiv:1409.5542v2 [hep-ex].
440. G. Aad *et al.* (ATLAS Collaboration), 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 ATLAS detector, Journal of High Energy Physics 11 (2014) 104; arXiv:1409.5500v2 [hep-ex].
441. G. Aad *et al.* (ATLAS Collaboration), Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, The European Physical Journal C (2014) 74:3195; arXiv:1409.3433v2 [hep-ex].
442. G. Aad *et al.* (ATLAS Collaboration), 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 take at 7 TeV and 8 TeV with the ATLAS detector, Physics Letters B 740 (2015) 222-242; arXiv:1409.3122v2 [hep-ex].



443. G. Aad *et al.* (ATLAS Collaboration), Measurement of long-range pseudorapidity correlations and azimuthal harmonics in  $\sqrt{s_{\text{NN}}} = 5.02$  TeV proton-lead collisions with the ATLAS detector, *Physical Review C* 90, 044906 (2014); arXiv:1409.1792v2 [hep-ex].
444. G. Aad *et al.* (ATLAS Collaboration), Measurement of the top-quark mass in the fully hadronic decay channel from ATLAS data at  $\sqrt{s} = 7$  TeV, *The European Physical Journal C* (2015) 75:158; arXiv:1409.0832v1 [hep-ex].
445. G. Aad *et al.* (ATLAS Collaboration), Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, *Journal of High Energy Physics* 11 (2014) 088; arXiv:1409.0746v3 [hep-ex].
446. G. Aad *et al.* (ATLAS Collaboration), 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, *Physical Review D* 90 (2014) 112015; arXiv:1408.7084v2 [hep-ex].
447. G. Aad *et al.* (ATLAS Collaboration), A measurement of the ratio of the production cross sections for W and Z bosons in association with jets with the ATLAS detector, *The European Physical Journal C* (2014) 74:3168; arXiv:1408.6610v2 [hep-ex].
448. G. Aad *et al.* (ATLAS Collaboration), Measurement of the total cross section from elastic scattering in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Nuclear Physics Section B* (2014) 486-548; arXiv:1408.5778v2 [hep-ex].
449. G. Aad *et al.* (ATLAS Collaboration), Search for the lepton flavor violating decay  $Z \rightarrow \mu\mu$  in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, *Physical Review D* 90, 072010; (2014); arXiv:1408.5774v1 [hep-ex].
450. G. Aad *et al.* (ATLAS Collaboration), Measurements of the Higgs boson production and coupling in the four-lepton channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector, *Physical Review D* 91, 102006; (2015); arXiv:1408.5191v3 [hep-ex].
451. G. Aad *et al.* (ATLAS Collaboration), Measurements 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, *The European Physical Journal C* (2015) 75:23; arXiv:1408.4674v2 [hep-ex].
452. G. Aad *et al.* (ATLAS Collaboration), Measurements of flow harmonics with multi-particle cumulants in Pb-Pb collisions at  $\sqrt{s_{\text{NN}}} = 2.76$  TeV with the ATLAS detector, *The European Physical Journal C* (2014) 74:3157; arXiv:1408.4342v2 [hep-ex].
453. G. Aad *et al.* (ATLAS Collaboration), 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, *Physics Letters B* 738 (2014) 234-253; arXiv:1408.3226v2 [hep-ex].
454. G. Aad *et al.* (ATLAS Collaboration), Performance of the ATLAS muon trigger in pp collisions at  $\sqrt{s} = 8$  TeV, *The European Physical Journal C* (2015) 75:120; arXiv:1408.3179v2 [hep-ex].
455. G. Aad *et al.* (ATLAS Collaboration), Search for  $W' \rightarrow tb \rightarrow qqbb$  decays in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, *The European Physical Journal C* (2015) 75:165; arXiv:1408.0886v2 [hep-ex].

456. G. Aad *et al.* (ATLAS Collaboration), Search for new resonances in  $W\gamma$  and  $Z\gamma$  final states in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physics Letters B 738 (2014) 428-447; arXiv:1407.8150v2 [hep-ex].
457. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 09 (2014) 037; arXiv:1407.7494v1 [hep-ex].
458. G. Aad *et al.* (ATLAS Collaboration), Search for Scalar Diphoton Resonances in the Mass Range 65-600 GeV with the ATLAS Detector in pp Collision Data at  $\sqrt{s} = 8$  TeV, Physical Review Letters 113, 171801 (2014); arXiv:1407.6583v2 [hep-ex]/
459. G. Aad *et al.* (ATLAS Collaboration), Measurement of jet vetoes and azimuthal decorrelations in dijet events produced in pp collisions at  $\sqrt{s} = 7$  using the ATLAS detector, The European Physical Journal C (2014) 74:3117; arXiv:1407.5756v1 [hep-ex].
460. G. Aad *et al.* (ATLAS Collaboration), Measurement of the production cross-section of  $\psi(2S) \rightarrow J/\psi \rightarrow \mu^+\mu^- \pi^+\pi^-$  in pp collisions at  $\sqrt{s} = 7$  at ATLAS, Journal of High Energy Physics 09 (2014) 079; arXiv:1407.5532v2 [hep-ex].
461. G. Aad *et al.* (ATLAS Collaboration), Electron and photon energy calibration with the ATLAS detector using LHC run 1 data, The European Physical Journal C (2014) 74:3071; arXiv:1407.5063v1 [hep-ex].
462. G. Aad *et al.* (ATLAS Collaboration), Measurement of fiducial and differential cross sections for Higgs boson production in the diphoton channel at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Journal of High Energy Physics 09 (2014) 112; arXiv:1407.4222v1 [hep-ex].
463. G. Aad *et al.* (ATLAS Collaboration), Measurements of spin correlation in top-antitop quark events from proton-proton collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector, Physical Review D 90, 112016 (2014); arXiv:1407.4314v1 [hep-ex].
464. G. Aad *et al.* (ATLAS Collaboration), Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data, The European Physical Journal C (2014) 74:3130; arXiv:1407.3935v1 [hep-ex].
465. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 10 (2014) 141; arXiv:1407.3643v1 [hep-ex].
466. G. Aad *et al.* (ATLAS Collaboration), 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, The European Physical Journal C (2014) 74:3134; arXiv:1407.2410v1 [hep-ex].
467. G. Aad *et al.* (ATLAS Collaboration), Search for new phenomena in the dijet mass distribution in ATLAS 2012 data using pp collisions at  $\sqrt{s} = 8$  TeV, Physical Review D 91, 052007 (2015); arXiv:1407.1376v1 [hep-ex].

468. G. Aad *et al.* (ATLAS Collaboration), Flavor tagged time-dependent angular analysis of the  $B_s^0 \rightarrow J/\psi \phi$  decay and extraction of  $\Delta\Gamma_s$  and the weak phase  $\phi_s$  in ATLAS, Physical Review D 90, 052007 (2014); arXiv:1407.1796v1 [hep-ex].
469. G. Aad *et al.* (ATLAS Collaboration), Measurement of the  $t\bar{t}$  production cross-section as a function of jet multiplicity and jet transverse momentum produced in 7 TeV proton-proton collisions with the ATLAS detector, Journal of High Energy Physics 01 (2015) 020; arXiv:1407.0891v1 [hep-ex].
470. G. Aad *et al.* (ATLAS Collaboration), Observation of an Excited  $B_{c^{+-}}$  meson state with the ATLAS detector, Physical Review Letters 113, 212004 (2014); arXiv:1407.1032v1 [hep-ex].
471. G. Aad *et al.* (ATLAS Collaboration), Measurement of the cross-section of high transverse momentum vector bosons decaying as single jet and studies of jet substructure properties in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, New Journal of Physics 16 (2014) 113013; arXiv:1407.0800v1 [hep-ex].
472. G. Aad *et al.* (ATLAS Collaboration), Simultaneous measurements of the  $t\bar{t}$ ,  $W+W-$ , and  $Z/\gamma^* \rightarrow \tau\tau$  production cross sections in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS, Physical Review D 91, 052005 (2014); arXiv:1407.0573v1 [hep-ex].
473. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 10 (2014) 024; arXiv:1407.0600v1 [hep-ex].
474. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 11 (2014) 118; arXiv:1407.0583v1 [hep-ex].
475. G. Aad *et al.* (ATLAS Collaboration), Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 20 fb<sup>-1</sup> of  $\sqrt{s} = 8$  TeV proton-proton collision data with the ATLAS detector, Journal of High Energy Physics 09 (2014) 103; arXiv:1407.0603v1 [hep-ex].
476. G. Aad *et al.* (ATLAS Collaboration), Search for pair-production third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physical Review D 90, 052008 (2014); arXiv:1407.0608v1 [hep-ex].
477. G. Aad *et al.* (ATLAS Collaboration), Measurement of normalized differential cross sections or  $t\bar{t}$  production in pp collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector, Physical Review D 90, 072004 (2014); arXiv:1407.0371v1 [hep-ex].
478. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 10 (2014) 096; arXiv:1407.0350v1 [hep-ex].

479. G. Aad *et al.* (ATLAS Collaboration), A neural network clustering algorithm for the ATLAS silicon pixel detector, 2014 Journal of Instrumentation 9 P09009; arXiv:1406.7690v1 [hep-ex].
480. G. Aad *et al.* (ATLAS Collaboration), Comprehensive measurements of t-channel single top-quark production cross sections at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physical Review D 90, 112006 (2014); arXiv:1406.7844v1 [hep-ex].
481. G. Aad *et al.* (ATLAS Collaboration), Search for the Standard Model Higgs boson decay to  $\mu + \mu -$  with the ATLAS detector, Physics Letters B 738 (2014) 68-86; arXiv:1406.7663v1 [hep-ex].
482. G. Aad *et al.* (ATLAS Collaboration), 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, The European Physical Journal C (2014) 74:3109; arXiv:1406.5375v1 [hep-ex].
483. G. Aad *et al.* (ATLAS Collaboration), Search for Higgs Boson Pair Production in the  $\gamma \gamma b\bar{b}$  Final State Using pp Collision data at  $\sqrt{s} = 8$  TeV from the ATLAS Detector, Physical Review Letters 114, 081802 (2014); arXiv:1406.5053v1 [hep-ex].
484. G. Aad *et al.* (ATLAS Collaboration), Search for WZ resonances in the fully leptonic channel using pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physics Letters B 737 (2014) 223-243; arXiv:1406.4456v1 [hep-ex].
485. G. Aad *et al.* (ATLAS Collaboration), Measurement of the Higgs boson mass from the  $H \rightarrow \gamma\gamma$  and  $H \rightarrow ZZ^* \rightarrow 4l$  channels in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector, Physical Review D 90, 052004 (2014); arXiv:1406.3827v1 [hep-ex].
486. G. Aad *et al.* (ATLAS Collaboration), Measurement of the Z/ $\gamma$ \* boson transverse momentum distribution in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Journal of High Energy Physics 09 (2014) 145; arXiv:1406.3660v1 [hep-ex].
487. G. Aad *et al.* (ATLAS Collaboration), Measurement of inclusive jet charged-particle fragmentation functions in Pb+Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV with the ATLAS detector, Physics Letters B (2014); arXiv:1406.2979v1 [hep-ex].
488. G. Aad *et al.* (ATLAS Collaboration), Search for direct pair production of the top squark in all-hadronic final states in proton-proton collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Journal of High Energy Physics 09 (2014) 015; arXiv:1406.1122v1 [hep-ex].
489. G. Aad *et al.* (ATLAS Collaboration), Measurement of the underlying event in jet events from 7 TeV proton-proton collisions with the ATLAS detector, The European Physical Journal C (2014) 74:2965; arXiv:1406.0392v1 [hep-ex].
490. G. Aad *et al.* (ATLAS Collaboration), Jet energy measurement and its systematic uncertainty in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, The European Physical Journal C (2014) 75:17; arXiv:1406.0076v1 [hep-ex].
491. G. Aad *et al.* (ATLAS Collaboration), Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using  $\sqrt{s} = 8$  TeV

- proton-proton collision data, Journal of High Energy Physics 09 (2014) 176; arXiv:1405.7875v1 [hep-ex].
492. G. Aad *et al.* (ATLAS Collaboration), Light-quark and gluon jet discrimination in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS, The European Physical Journal C (2014) 74:3023; arXiv:1405.6583v1 [hep-ex].
  493. G. Aad *et al.* (ATLAS Collaboration), Evidence of Electroweak Production in  $W^{+-}W^{+-}jj$  in pp Collisions at  $\sqrt{s} = 8$  TeV with the ATLAS Detector, Physical Review Letters 113, 141803 (2014); arXiv:1405.6241v1 [hep-ex].
  494. G. Aad *et al.* (ATLAS Collaboration), Search for supersymmetry in events with four or more leptons in  $\sqrt{s} = 8$  TeV pp collisions with the ATLAS detector, Physical Review D 90, 052001 (2014); arXiv:1405.5086.v1 [hep-ex].
  495. G. Aad *et al.* (ATLAS Collaboration), Search for microscopic black holes and string balls in final states with leptons and jets with the ATLAS detector at  $\sqrt{s} = 8$  TeV, Journal of High Energy Physics 08 (2014) 103; arXiv:1404.4254.v1 [hep-ex].
  496. G. Aad *et al.* (ATLAS Collaboration), Search for high-mass dilepton resonances in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physical Review D 90, 052005 (2014); arXiv:1405.4123v1 [hep-ex].
  497. G. Aad *et al.* (ATLAS Collaboration), Measurement of the centrality and pseudorapidity dependence of the integrated elliptic flow in lead-lead collisions at  $\sqrt{s_{NN}} = 2.76$  TeV with the ATLAS detector, The European Physical Journal C (2014) 74:2982; arXiv:1405.3936v1 [hep-ex].
  498. G. Aad *et al.* (ATLAS Collaboration), Operation and performance of the ATLAS semiconductor tracker, Journal of Instrumentation (2014) 9 P08009; arXiv:1404.7473v1 [hep-ex].
  499. G. Aad *et al.* (ATLAS Collaboration), 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, Physics Letters B 738 (2014) 25-43; arXiv:1404.7042v1 [hep-ex].
  500. G. Aad *et al.* (ATLAS Collaboration), Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at  $\sqrt{s} = 8$  TeV in 2010, The European Physical Journal C (2014) 74:3034; arXiv:1404.4562v1 [hep-ex].
  501. G. Aad *et al.* (ATLAS Collaboration), Search for dark matter in events with single  $Z$  boson and missing transverse momentum using pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physical Review D 90, 012004 (2014); arXiv:1404.0051v2 [hep-ex].
  502. G. Aad *et al.* (ATLAS Collaboration), Measurement of event-plane correlations in  $\sqrt{s_{NN}} = 2.76$  TeV lead-lead collisions with the ATLAS detector, Physical Review C 90, 024905 (2014); arXiv:1403.0489v1 [hep-ex].
  503. G. Aad *et al.* (ATLAS Collaboration), Measurement of  $\chi_{c1}$  and  $\chi_{c2}$  production with  $\sqrt{s} = 7$  TeV pp collisions in ATLAS, Journal of High Energy Physics 07 (2014) 154; arXiv:1404.7035v1 [hep-ex].
  504. G. Aad *et al.* (ATLAS Collaboration), Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHE proton-proton

- collision data, The European Physical Journal C (2014) 74:2941; arXiv:1404.2240v1 [hep-ex].
505. G. Aad *et al.* (ATLAS Collaboration), Measurement of the low-mass Drell-Yan differential cross section at  $\sqrt{s} = 7$  TeV using the ATLAS detector, Journal of High Energy Physics 06 (2014) 112; arXiv:1404.1212v1 [hep-ex].
  506. G. Aad *et al.* (ATLAS Collaboration), 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 collision with the ATLAS detector, The European Physical Journal C (2014) 74:2883; arXiv:1403.5222v1 [hep-ex].
  507. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 06 (2014) 124; arXiv:1403.4853v1 [hep-ex].
  508. G. Aad *et al.* (ATLAS Collaboration), The differential production cross section of the  $\phi(1020)$  meson in  $\sqrt{s} = 7$  TeV pp collisions measured with the ATLAS detector, The European Physical Journal C (2014) 74:2895; arXiv:1402.6161v1 [hep-ex].
  509. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 06 (2014) 35; arXiv:1404.2500v1 [hep-ex].
  510. G. Aad *et al.* (ATLAS Collaboration), Measurement of four-lepton production at the Z resonance in pp collisions at  $\sqrt{s} = 7$  and 8 TeV with the ATLAS, Physical Review Letters 112, 231806 (2014); arXiv:1403.5657v1 [hep-ex].
  511. G. Aad *et al.* (ATLAS Collaboration), Measurement of the parity-violating asymmetry parameter  $\alpha_b$  and the helicity amplitudes for the decay  $\Lambda_b^0 \rightarrow J/\psi \Lambda_b^0$  with the ATLAS detector, PRD 89, 092009 (2014); arXiv:1404.1071v1 [hep-ex].
  512. G. Aad *et al.* (ATLAS Collaboration), Search for top quark decays  $t \rightarrow qH$  with  $H \rightarrow \gamma\gamma$  using the ATLAS detector, JHEP 06 (2014) 008; arXiv:1403.6293v1 [hep-ex].
  513. G. Aad *et al.* (ATLAS Collaboration), 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, JHEP 05 (2014) 071; arXiv:1403.5294v1 [hep-ex].
  514. G. Aad *et al.* (ATLAS Collaboration), 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, JHEP 05 (2014) 068; arXiv:1402.6263v1 [hep-ex].
  515. G. Aad *et al.* (ATLAS Collaboration), Measurement of dijet cross-sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS detector, JHEP 05 (2014) 059; arXiv:1312.3524v2 [hep-ex].
  516. G. Aad *et al.* (ATLAS Collaboration), Search for invisible decays of the Higgs boson produced in association with a Z boson in ATLAS, Physical Review Letters 112, 201802 (2014); arXiv:1402.3244v1 [hep-ex].

517. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 04 (2014)169; arXiv:1402.7029v1 [hep-ex].
518. G. Aad *et al.* (ATLAS Collaboration), Measurement of the production cross section of prompt J/Psi mesons in association with a  $W^{++}$  boson in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Journal of High Energy Physics 04 (2014) 172; arXiv:1401.2831v1 [hep-ex].
519. G. Aad *et al.* (ATLAS Collaboration), Study of heavy-flavor quarks produced in association with top-quark pairs at  $\sqrt{s} = 7$  TeV using the ATLAS detector, Physical Review D 89, 072012 (2014); arXiv:1304.6386v1 [hep-ex].
520. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 04 (2014) 031; arXiv:1401.7610v1 [hep-ex].
521. G. Aad *et al.* (ATLAS Collaboration), Search for Higgs boson decay to a photon and a Z boson in pp collisions at  $\sqrt{s} = 7$  and 8 TeV with the ATLAS detector, Physics Letters B (2014); arXiv:1402.3051v1 [hep-ex].
522. G. Aad *et al.* (ATLAS Collaboration), 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<sup>-1</sup>, Physical Review D 89, 052004 (2014); arXiv:1311.1440v1 [hep-ex].
523. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review D 89, 032002 (2014); arXiv:1312.1956v1 [hep-ex].
524. G. Aad *et al.* (ATLAS Collaboration), Standalone vertex finding in the ATLAS muon spectrometer, Journal of Instrumentation 9 P02001 (2014); arXiv:1311.7070v1 [physics.ins-det].
525. G. Aad *et al.* (ATLAS Collaboration), Measurement of the top quark pair production charge asymmetry in proton-proton collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector, Journal of High Energy Physics 02 (2014) 107; arXiv:1311.6724v2 [hep-ex].
526. G. Aad *et al.* (ATLAS Collaboration), Search for quantum black hole production in high-invariant-mass lepton + jet final states using proton-proton collisions at  $\sqrt{s} = 8$  TeV and the ATLAS detector, Physical Review Letters 112, 091804 (2014) ; arXiv:1311.2006v2 [hep-ex].
527. G. Aad *et al.* (ATLAS Collaboration), Measurement of the mass difference between top and anti-top quarks in pp collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector, Physics Letters B 728 (2014) 363-379; arXiv:1310.6527v3 [hep-ex].
528. G. Aad *et al.* (ATLAS Collaboration), Search for long-lived stopped R-hadrons decays out-of-time with pp collisions using the ATLAS detector, Physical Review D 88, 112003 (2013); arXiv:1310.6584v3 [hep-ex].



529. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review D 88, 112006 (2013); arXiv:1310.3675 [hep-ex].
530. G. Aad *et al.* (ATLAS Collaboration), 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, Physical Review Letters 112, 041802 (2014); arXiv:1309.4017 [hep-ex].
531. G. Aad *et al.* (ATLAS Collaboration), Search for new phenomena in photon + jet events collected in proton-proton collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector, Physics Letters B 728 (2014) 562-578; arXiv:1309.3230 [hep-ex].
532. G. Aad *et al.* (ATLAS Collaboration), Search for microscopic black holes in a like-sign dimuon final state using large track multiplicity with the ATLAS detector, Physical Review D 88, 072001 (2013); arXiv:1308.4075 [hep-ex].
533. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 10 (2013) 189; arXiv:1308.2631 [hep-ex].
534. G. Aad *et al.* (ATLAS Collaboration), 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, Journal of High Energy Physics 10 (2013) 130; arXiv:1308.1841 [hep-ex].
535. G. Aad *et al.* (ATLAS Collaboration), Search for excited electrons and muons in  $\sqrt{s} = 8$  TeV proton-proton collisions with the ATLAS detector, New Journal of Physics 15 (2013) 093011; arXiv:1308.1364 [hep-ex].
536. G. Aad *et al.* (ATLAS Collaboration), Dynamics of isolated-photon plus jet production in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Nuclear Physics B 875 (2013) 483-535; arXiv:1307.6795v1 [hep-ex].
537. G. Aad *et al.* (ATLAS Collaboration), Measurement of top quark polarization in top-antitop events from proton-proton collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector, Physical Review Letters 111, 232002 (2013); arXiv:1307.6511 [hep-ex].
538. G. Aad *et al.* (ATLAS Collaboration), Measurements of jet shapes in top-quark pair events at  $\sqrt{s} = 7$  TeV using the ATLAS detector, The European Physical Journal C (2013) 73:2676; arXiv:1307.5749[hep-ex].
539. G. Aad *et al.* (ATLAS Collaboration), Measurement of the top quark charge in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Journal of High Energy Physics 11 (2013) 031; arXiv:1307.4568v1 [hep-ex].
540. G. Aad *et al.* (ATLAS Collaboration), Measurements of Higgs boson production and couplings using diboson final states with the ATLAS detector at the LHC, Physics Letters B 726 (2013) 88-119; arXiv:1307.1427v1 [hep-ex].

541. G. Aad *et al.* (ATLAS Collaboration), Evidence for the spin-0 nature of the Higgs boson using ATLAS data, *Physics Letters B* 726 (2013) 120-144; arXiv:1307.1432v1 [hep-ex].
542. G. Aad *et al.* (ATLAS Collaboration), Measurement of the differential cross-section of B+ meson production in pp collisions at  $\sqrt{s} = 7$  TeV at ATLAS, *Journal of High Energy Physics* 10 (2013) 042; arXiv:1307.0126v1 [hep-ex].
543. G. Aad *et al.* (ATLAS Collaboration), 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, *Physical Review Letters* 111, 152301 (2013); arXiv:1306.6469v1 [hep-ex].
544. G. Aad *et al.* (ATLAS Collaboration), Performance of jet substructure techniques for large-R jets in proton-proton collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector, *Journal of High Energy Physics* 09 (2013) 076; arXiv:1306.4945v1 [hep-ex].
545. G. Aad *et al.* (ATLAS Collaboration), Measurement of the high-mass Drell-Yan differential cross-section in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Physics Letters B* 725 (2013) 223-242; arXiv:1305.4192v2 [hep-ex].
546. G. Aad *et al.* (ATLAS Collaboration), Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at  $\sqrt{s_{NN}} = 2.76$  TeV with the ATLAS detector at the LHC, *Journal of High Energy Physics* 11 (2013) 183; arXiv:1305.2942v2 [hep-ex].
547. G. Aad *et al.* (ATLAS Collaboration), Search for  $t\bar{t}$  resonances in the lepton plus jets final state with ATLAS using 4.7 fb<sup>-1</sup> of pp collisions at  $\sqrt{s} = 7$  TeV, *Physical Review D* 88 (2013) 102004; arXiv:1305.2756v1 [hep-ex].
548. G. Aad *et al.* (ATLAS Collaboration), Triggers for displaced decays of long-lived neutral particles in the ATLAS Detector, *the Journal of Instrumentation* (2013) 8 P07015; arXiv:1305.2284v1 [hep-ex].
549. G. Aad *et al.* (ATLAS Collaboration), Search for nonpointing photons in the diphoton and ET<sub>miss</sub> final state in  $\sqrt{s} = 7$  TeV proton-proton collisions using the ATLAS detector, *Physical Review D* 88, 012001 (2013); arXiv:1304.6310v1 [hep-ex].
550. G. Aad *et al.* (ATLAS Collaboration), Measurement of the inclusive jet cross-section in pp collisions at  $\sqrt{s} = 2.76$  TeV and comparison to the inclusive jet cross-section at  $\sqrt{s} = 7$  TeV using the ATLAS detector, *The European Physical Journal C* (2013) 73:2509; arXiv:1304.4739v1 [hep-ex].
551. G. Aad *et al.* (ATLAS Collaboration), Improved luminosity determination in pp collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector at the LHC, *The European Physical Journal C* (2013) 73:2518; arXiv:1302.4393v1 [hep-ex].
552. G. Aad *et al.* (ATLAS Collaboration), Measurement of charged-particle event shape variables in inclusive  $\sqrt{s} = 7$  TeV proton-proton interactions with the ATLAS detector, *Physical Review D* 88, 032004 (2013); arXiv:1207.6915v1 [hep-ex].
553. G. Aad *et al.* (ATLAS Collaboration), Measurement with the ATLAS detector of multi-particle azimuthal correlations in p + Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV, *Physics Letters B* 725 (2013) 60-78; arXiv:1303.2084v1 [hep-ex].

554. G. Aad *et al.* (ATLAS Collaboration), Characterisation and mitigation of beam-induced backgrounds observed in the ATLAS detector during the 2011 proton-proton run, *Journal of Instrumentation* 8 (2013) P07004; arXiv:1303.0223v1 [hep-ex].
555. G. Aad *et al.* (ATLAS Collaboration), Measurement of the production cross section of jets in association with a Z boson in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Journal of High Energy Physics* 07 (2013) 032; arXiv:1304.7098v1 [hep-ex].
556. G. Aad *et al.* (ATLAS Collaboration), Search for third generation scalar leptoquarks in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Journal of High Energy Physics* 06 (2013) 33; arXiv:1303.0526v2 [hep-ex].
557. G. Aad *et al.* (ATLAS Collaboration), Measurement of the cross-section for W boson production in association with b-jets in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Journal of High Energy Physics* 06 (2013) 084; arXiv:1302.2929v1 [hep-ex].
558. G. Aad *et al.* (ATLAS Collaboration), Search for resonant diboson production in the WW/WZ- $\rightarrow$ lnujj decay channels with the ATLAS detector at  $\sqrt{s} = 7$  TeV, *Physical Review D* 87, 112006 (2013); arXiv:1305.0125v1 [hep-ex].
559. G. Aad *et al.* (ATLAS Collaboration), Search for a light charged Higgs boson in the decay channel  $H^+ \rightarrow c\bar{s}$  in ttbar events using pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *European Physical Journal C* (2013) 73:2465; arXiv:1302.3694v1 [hep-ex].
560. G. Aad *et al.* (ATLAS Collaboration), Measurement of kT splitting scales in  $W \rightarrow l \nu$  events at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *European Physical Journal C* (2013) 73:2432; arXiv:1302.1415v1 [hep-ex].
561. G. Aad *et al.* (ATLAS Collaboration), Measurements of Wgamma and Zgamma production in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector at the LHC, *Physical Review D* 87, 112003 (2013); arXiv:1302.1283v1 [hep-ex].
562. G. Aad *et al.* (ATLAS Collaboration), Measurement of  $W+W^-$  production in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector and limits on anomalous WWZ and WWgamma couplings, *Physical Review D* 87m 112001 (2013); arXiv:1210.2979v1 [hep-ex].
563. G. Aad *et al.* (ATLAS Collaboration), Search for a heavy narrow resonance decaying to e mu, e tau, or mu tau with the ATLAS detector in  $\sqrt{s} = 7$  TeV pp collisions at the LHC, *Physics Letters B* 723 (2013) 15-32; arXiv:1212.1272v2 [hep-ex].
564. G. Aad *et al.* (ATLAS Collaboration), Search for long-lived, multi-charged particles in pp collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector, *Physics Letters B* 722 (2013) 305-323; arXiv:1301.5272v1 [hep-ex].
565. G. Aad *et al.* (ATLAS Collaboration), Search for extra dimensions in diphoton events using proton-proton collisions recorded at  $\sqrt{s} = 7$  TeV with the ATLAS detector at the LHC, *New Journal of Physics* 15 (2013) 043007; arXiv:1210.8389v2 [hep-ex].
566. G. Aad *et al.* (ATLAS Collaboration), Search for WH production with a light Higgs boson decaying to prompt electron-jets in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *New Journal of Physics* 15 (2013) 043009; arXiv:1302.4403v1 [hep-ex].

567. G. Aad *et al.* (ATLAS Collaboration), Search for single  $b^*$ -quark production with the ATLAS detector at  $\sqrt{s} = 7$  TeV, Physics Letters B 721 (2013) 171-189; arXiv:1301.1583v1 [hep-ex].
568. G. Aad *et al.* (ATLAS Collaboration), Multi-channel search for squarks and gluinos in  $\sqrt{s} = 7$  TeV pp collisions with the ATLAS detector, European Physical Journal C (2013) 73:2362; arXiv:1212.6149v1 [hep-ex].
569. G. Aad *et al.* (ATLAS Collaboration), Observation of Associated Near-Side and Away-Side Long-Range Correlations in  $\sqrt{s_{NN}} = 5.02$  TeV Proton-Lead Collisions with the ATLAS Detector, Physical Review Letter 110, 182302 (2013); arXiv:1212.5198v2 [hep-ex].
570. G. Aad *et al.* (ATLAS Collaboration), Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector, Journal of High Energy Physics 04 (2013) 075; arXiv:1210.4491v1 [hep-ex].
571. G. Aad *et al.* (ATLAS Collaboration), Measurement of hard double-parton interactions in  $W(-\rightarrow l\nu) + 2$ -jet events at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physics Letters B 719 (2013) 299-317; arXiv:1301.6872v3 [hep-ex].
572. G. Aad *et al.* (ATLAS Collaboration), A search for prompt lepton-jets in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physics Letters B 719 (2013) 299-317; arXiv:1212.5409v2 [hep-ex].
573. G. Aad *et al.* (ATLAS Collaboration), Search for charged Higgs bosons through the violation of lepton universality in  $t\bar{t}$  events using pp collision data at  $\sqrt{s} = 7$  TeV with the ATLAS experiment, Journal of High Energy Physics 03 (2013) 076; arXiv:1212.3572v2 [hep-ex].
574. G. Aad *et al.* (ATLAS Collaboration), Measurement of  $\epsilon$  production in 7 TeV pp collisions at ATLAS, Physical Review D 87, 052004 (2013); arXiv:1211.7255v2 [hep-ex].
575. G. Aad *et al.* (ATLAS Collaboration), Measurement of the  $t\bar{t}$  production cross section in  $\tau + \text{jets}$  channel using the ATLAS detector, European Physical Journal C (2013) 73:2328; arXiv:1211.7205v2 [hep-ex].
576. G. Aad *et al.* (ATLAS Collaboration), Search for the neutral Higgs boson of the minimal supersymmetric standard model in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Journal of High Energy Physics 02 (2013) 095; arXiv:1211.6956v2 [hep-ex].
577. G. Aad *et al.* (ATLAS Collaboration), Measurement of angular correlations in Drell-Yan lepton pairs to probe  $Z/\gamma^*$  boson transverse momentum at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physics Letters B 720 (2013) 32-51; arXiv:1211.6899v2 [hep-ex].
578. G. Aad *et al.* (ATLAS Collaboration), Search for new phenomena in events with three charged leptons at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physical Review D 87, 052002 (2013); arXiv:1211.6312v3 [hep-ex].
579. G. Aad *et al.* (ATLAS Collaboration), Measurement of  $ZZ$  production in pp collisions at  $\sqrt{s} = 7$  TeV and limits on anomalous  $ZZZ$  and  $ZZ\gamma$  couplings with the ATLAS detector, Journal of High Energy Physics 03 (2013) 128; arXiv:1211.6096v1 [hep-ex].

580. G. Aad *et al.* (ATLAS Collaboration), Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at  $\sqrt{s} = 7$  TeV, Journal of High Energy Physics 01 (2013) 116; arXiv:1211.2202v3 [hep-ex].
581. G. Aad *et al.* (ATLAS Collaboration), Measurement of isolated-photon pair production in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Journal of High Energy Physics 01 (2013) 086; arXiv:1211.1913v2 [hep-ex].
582. G. Aad *et al.* (ATLAS Collaboration), Searches for heavy long-lived sleptons and R-hadrons with the ATLAS detector in pp collisions at  $\sqrt{s} = 7$  TeV, Physics Letters B 720 (2013) 277-308; arXiv:1211.1597v2 [hep-ex].
583. G. Aad *et al.* (ATLAS Collaboration), Search for contact interactions and large extra dimensions in dilepton events from pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physical Review D 87, 015010 (2013); arXiv:1211.1150v2 [hep-ex].
584. G. Aad *et al.* (ATLAS Collaboration), Search for supersymmetry in events with photons, bottom quarks, and missing transverse momentum in proton-proton collisions at a centre-of-mass energy of 7 TeV with the ATLAS detector, Physics Letters B 719 (2013) 261-279; arXiv:1211.1167v2 [hep-ex].
585. G. Aad *et al.* (ATLAS Collaboration), Search for long-lived, heavy particles in final states with a muon and multi-track displaced vertex in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physics Letters B 719 (2013) 280-298; arXiv:1210.7481v2 [hep-ex].
586. G. Aad *et al.* (ATLAS Collaboration), A Particle Consistent with the Higgs Boson Observed with the ATLAS Detector at the Large Hadron Collider, Science 338, 1576 (2012).
587. G. Aad *et al.* (ATLAS Collaboration), Measurement of Z Boson Production in Pb-Pb Collisions at  $\sqrt{s_{NN}} = 2.76$  TeV with the ATLAS Detector, Physical Review Letters 110, 022301 (2013); arXiv:1210.6486v1 [hep-ex].
588. G. Aad *et al.* (ATLAS Collaboration), Search for high-mass resonances decaying to  $\tau^+\tau^-$  in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physics Letters B 719 (2013) 242-260; arXiv:1210.6604v3 [hep-ex].
589. G. Aad *et al.* (ATLAS Collaboration), Jet energy resolution in proton-proton collisions at  $\sqrt{s} = 7$  TeV recorded in 2010 with the ATLAS detector, European Physical Journal C (2013) 173:2306; arXiv:1210.6210v1 [hep-ex].
590. G. Aad *et al.* (ATLAS Collaboration), Search for pair production of heavy top-like quarks decaying to a high- $p_T$  W boson and a b quark in the lepton plus jets final state at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physics Letters B 718 (2013) 1284-1302; arXiv:1210.5468v1 [hep-ex].
591. G. Aad *et al.* (ATLAS Collaboration), Search for doubly charged Higgs bosons in like-sign dilepton final states at  $\sqrt{s} = 7$  TeV with the ATLAS detector, European Physical Journal C (2012) 72:2244; arXiv:1210.5070v1 [hep-ex].

592. G. Aad *et al.* (ATLAS Collaboration), Search for pair production of massive particles decaying into three quarks with the ATLAS detector in  $\sqrt{s} = 7$  TeV pp collisions at the LHC, *Journal of High Energy Physics* 12 (2012) 086:2263; arXiv:1210.4813v2 [hep-ex].
593. G. Aad *et al.* (ATLAS Collaboration), Search for anomalous production of prompt like-sign lepton pairs at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Journal of High Energy Physics* 12 (2012) 007:2263; arXiv:1210.4538v1 [hep-ex].
594. G. Aad *et al.* (ATLAS Collaboration), Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton-proton collisions at  $\sqrt{s} = 7$  TeV, *European Physical Journal C* (2013) 73:2263; arXiv:1210.4826v2 [hep-ex].
595. G. Aad *et al.* (ATLAS Collaboration), Search for R-parity-violating supersymmetry in events with four or more leptons in  $\sqrt{s} = 7$  TeV pp collisions with the ATLAS detector, *Journal of High Energy Physics* 12 (2012) 124; arXiv:1210.4457v2 [hep-ex].
596. G. Aad *et al.* (ATLAS Collaboration), Search for direct chargino production in anomaly-mediated supersymmetry breaking models based on a disappearing-track signature in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Journal of High Energy Physics* 01 (2013) 131; arXiv:1210.2862v2 [hep-ex].
597. G. Aad *et al.* (ATLAS Collaboration), ATLAS search for new phenomena in dijet mass and angular distributions using pp collisions at  $\sqrt{s} = 7$  TeV, *Journal of High Energy Physics* 01 (2013) 029; arXiv:1210.1718v3 [hep-ex].
598. G. Aad *et al.* (ATLAS Collaboration), Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 7 TeV proton-proton collision data with the ATLAS detector, *European Physical Journal C* (2012) 72:2215; arXiv:1210.1314v1 [hep-ex].
599. G. Aad *et al.* (ATLAS Collaboration), Measurement of the flavour composition of dijet events in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *European Physical Journal C* (2013) 73:2301; arXiv:1210.0441v3 [hep-ex].
600. G. Aad *et al.* (ATLAS Collaboration), Search for displaced muonic lepton jets from light Higgs boson decay in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Physics Letters B* 721 (2013) 32-50; arXiv:1210.0435v1 [hep-ex].
601. G. Aad *et al.* (ATLAS Collaboration), Search for a heavy gauge boson decaying to a charged lepton and a neutrino in pp collisions at  $\sqrt{s} = 7$  TeV, *European Physical Journal C* (2012) 72:2241; arXiv:1209.4446v2 [hep-ex].
602. G. Aad *et al.* (ATLAS Collaboration), Search for Dark Matter Candidates and Large Extra Dimensions in Events with a Photon and Missing Transverse Momentum in pp Collision Data at  $\sqrt{s} = 7$  TeV with the ATLAS Detector, *Physical Review Letters* 110, 011802 (2013) 094; arXiv:1209.4625v3 [hep-ex].
603. G. Aad *et al.* (ATLAS Collaboration), Search for a heavy top-quark partner in final states with two leptons with the ATLAS detector at the LHC, *Journal of High Energy Physics* 11 (2012) 094; arXiv:1209.4186v1 [hep-ex].

604. G. Aad *et al.* (ATLAS Collaboration), Search for high-mass resonances decaying to dilepton final states in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Journal of High Energy Physics* 11 (2012) 138; arXiv:1209.2535v3 [hep-ex].
605. G. Aad *et al.* (ATLAS Collaboration), Search for light top squark pair production in final states with leptons and b-jets with the ATLAS detector in  $\sqrt{s} = 7$  TeV proton-proton collisions, *Physics Letters B* 720 (2013) 13-31; arXiv:1209.2102v2 [hep-ex].
606. G. Aad *et al.* (ATLAS Collaboration), Search for diphoton events with large missing transverse momentum in 7 TeV proton-proton collision data with the ATLAS detector, *Physics Letters B* 718 (2012) 411-430; arXiv:1209.0753v1 [hep-ex].
607. G. Aad *et al.* (ATLAS Collaboration), Measurements of the pseudorapidity dependence of the total transverse energy in proton-proton collisions at  $\sqrt{s} = 7$  TeV with ATLAS, *Journal of High Energy Physics* 11 (2012) 033; arXiv:1208.6256v1 [hep-ex].
608. G. Aad *et al.* (ATLAS Collaboration), Further search for supersymmetry at  $\sqrt{s} = 7$  TeV in final states with jets, missing transverse momentum, and isolated leptons with the ATLAS detector, *Physical Review D* 86, 092002 (2012); arXiv:1208.4688v1 [hep-ex].
609. G. Aad *et al.* (ATLAS Collaboration), Search for light scalar top-quark pair production in final states with two leptons with the ATLAS detector in  $\sqrt{s} = 7$  TeV proton-proton collisions, *European Physical Journal C* (2012) 72:2237; arXiv:1208.4305v2 [hep-ex].
610. G. Aad *et al.* (ATLAS Collaboration), Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in  $\sqrt{s} = 7$  TeV pp collisions with the ATLAS detector, *Physics Letters B* 718 (2013) 841-859; arXiv:1208.3144v2 [hep-ex].
611. G. Aad *et al.* (ATLAS Collaboration), Search for direct slepton and gaugino production in final states with two leptons and missing transverse momentum with the ATLAS detector in pp collisions at  $\sqrt{s} = 7$  TeV, *Physics Letters B* 718 (2013) 879-901; arXiv:1208.2884v2 [hep-ex].
612. G. Aad *et al.* (ATLAS Collaboration), Search for new phenomena in  $WW \rightarrow l\nu l'\nu'$  final states in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Physics Letters B* 718 (2013) 860-878; arXiv:1208.2880v2 [hep-ex].
613. G. Aad *et al.* (ATLAS Collaboration), Search for Direct Top Squark Pair Production in Final States with One Isolated Lepton, Jets, and Missing Transverse Momentum in  $\sqrt{s} = 7$  TeV pp Collisions Using 4.7 fb<sup>-1</sup> of ATLAS Data, *Physical Review Letters* 109, 221803 (2012); arXiv:1208.2590v2 [hep-ex].
614. G. Aad *et al.* (ATLAS Collaboration), Measurement of the jet radius and transverse momentum dependence of inclusive jet suppression in lead-lead collisions at  $\sqrt{s_{NN}} = 2.76$  TeV with the ATLAS detector, *Physics Letters B* 719 (2013) 220-241; arXiv:1208.1967v2 [hep-ex].
615. G. Aad *et al.* (ATLAS Collaboration), Measurement of  $W^+Z$  production in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *European Physical Journal C* (2012) 72:2173; arXiv:1208.1390v3 [hep-ex].



616. G. Aad *et al.* (ATLAS Collaboration), Search for a Supersymmetric Partner to the Top Quark in Final States with Jets and Missing Transverse Momentum at  $\sqrt{s} = 7$  TeV with the ATLAS Detector, *Physical Review Letters* 109, 211802 (2012); arXiv:1208.1447v1 [hep-ex].
617. G. Aad *et al.* (ATLAS Collaboration), Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using 4.7 fb<sup>-1</sup> of  $\sqrt{s} = 7$  TeV proton-proton collision data, *Physical Review D* 87, 012008 (2012); arXiv:1208.0949v3 [hep-ex].
618. G. Aad *et al.* (ATLAS Collaboration), Time-dependent angular analysis of the decay  $B_s^- \rightarrow J/\psi \phi$  and extraction of  $\Delta\Gamma_{B_s}$  and the CP-violating weak phase  $\phi_s$  by ATLAS, *Journal of High Energy Physics* 12 (2012) 072; arXiv:1208.0572v3 [hep-ex].
619. G. Aad *et al.* (ATLAS Collaboration), Underlying event characteristics and their dependence on jet size of charged-particle jet events in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Physical Review D* 86, 072004 (2012); arXiv:1208.0563v1 [hep-ex].
620. G. Aad *et al.* (ATLAS Collaboration), Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC, *Physics Letters B* 716 (2012) 1-29; arXiv:1207.7214v2 [hep-ex].
621. G. Aad *et al.* (ATLAS Collaboration), Search for Magnetic Monopoles in  $\sqrt{s} = 7$  TeV pp Collisions with the ATLAS Detector, *Physical Review Letters* 109, 261803 (2012); arXiv:1207.6411v3 [hep-ex].
622. G. Aad *et al.* (ATLAS Collaboration), Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at  $\sqrt{s} = 7$  TeV, *European Physical Journal C* (2012) 73:2261; arXiv:1207.5644v2 [hep-ex].
623. G. Aad *et al.* (ATLAS Collaboration), Search for top and bottom squarks from gluino pair production in final states with missing transverse energy and at least three b-jets with the ATLAS detector, *European Physical Journal C* (2012) 72:2174; arXiv:1207.4686v1 [hep-ex].
624. G. Aad *et al.* (ATLAS Collaboration), A search for  $t\bar{t}$  resonances in lepton+jets events with highly boosted top quarks collected in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Journal of High Energy Physics* 09 (2012) 041; arXiv:1207.2409v2 [hep-ex].
625. G. Aad *et al.* (ATLAS Collaboration), Measurement of the  $\Lambda_b$  lifetime and mass in the ATLAS experiment, *Physical Review D* 87, 032002 (2013); arXiv:1207.2284v2 [hep-ex].
626. G. Aad *et al.* (ATLAS Collaboration), Combined search for the Standard Model Higgs boson in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Physical Review D* 86, 032003 (2012); arXiv:1207.0319v2 [hep-ex].
627. G. Aad *et al.* (ATLAS Collaboration), Search for the Standard Model Higgs boson produced in association with a vector boson and decaying to a b-quark pair with the ATLAS detector, *Physics Letters B* 718 (2012) 369-390; arXiv:1207.0210v2 [hep-ex].

628. G. Aad *et al.* (ATLAS Collaboration), Search for the Standard Model Higgs boson in the  $H \rightarrow \tau^+ \tau^-$  decay mode in  $\sqrt{s} = 7$  TeV, Journal for High Energy Physics 09 (2012) 070; arXiv:1206.5971v1 [hep-ex].
629. G. Aad *et al.* (ATLAS Collaboration), Search for the Higgs boson in the  $H \rightarrow WW \rightarrow l\nu jj$  decay channel at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physics Letters B 718 (2012) 391-410; arXiv:1206.6074v1 [hep-ex].
630. G. Aad *et al.* (ATLAS Collaboration), ATLAS measurements of the properties of jets for boosted particle searches, Physical Review D 86, 072006 (2012); arXiv:1206.5369v2 [hep-ex].
631. G. Aad *et al.* (ATLAS Collaboration), Search for a Standard Model Higgs boson in the mass range 200-600 GeV in the channel  $H \rightarrow ZZ \rightarrow llqq$  decay channel with the ATLAS detector, Physics Letters B 717 (2012) 70-88; arXiv:1206.2443v1 [hep-ex].
632. G. Aad *et al.* (ATLAS Collaboration), Measurement of the b-hadron production cross section using decays to  $D^{*+} \mu^- X$  final states in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Nuclear Physics B 864 (2012) 341-281; arXiv:1206.3122v2 [hep-ex].
633. G. Aad *et al.* (ATLAS Collaboration), Measurement of event shapes at large momentum transfer with the ATLAS detector in pp collisions at  $\sqrt{s} = 7$  TeV, European Physical Journal C (2012) 72:2211; arXiv:1206.2135v1 [hep-ex].
634. G. Aad *et al.* (ATLAS Collaboration), Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in 4.7 fb<sup>-1</sup> of  $\sqrt{s} = 7$  TeV proton-proton collisions, Journal of High Energy Physics 07 (2012) 167; arXiv:1206.1760v2 [hep-ex].
635. G. Aad *et al.* (ATLAS Collaboration), Search for the Standard Model Higgs boson in the  $H \rightarrow WW^{(*)} \rightarrow l\nu l\nu$  decay mode with 4.7 fb<sup>-1</sup> of ATLAS data at  $\sqrt{s} = 7$  TeV, Physics Letters B 716 (2012) 62-81; arXiv:1206.0756v2 [hep-ex].
636. G. Aad *et al.* (ATLAS Collaboration), A search for flavour changing neutral currents in top-quark decays in pp collision data collected with the ATLAS detector  $\sqrt{s} = 7$  TeV, Journal of High Energy Physics 09 (2012) 139; arXiv:1206.0257v1 [hep-ex].
637. G. Aad *et al.* (ATLAS Collaboration), Search for a standard model Higgs boson in the  $H \rightarrow ZZ \rightarrow ll\nu\nu$  decay channel using 4.7 fb<sup>-1</sup> of  $\sqrt{s} = 7$  TeV data with the ATLAS detector, Physics Letters B 717 (2012) 29-48; arXiv:1205.6744v1 [hep-ex].
638. G. Aad *et al.* (ATLAS Collaboration), Evidence for the associated production of a W boson and a top quark in ATLAS at  $\sqrt{s} = 7$  TeV, Physics Letters B 716 (2012) 142-159; arXiv:1205.5764v2 [hep-ex].
639. G. Aad *et al.* (ATLAS Collaboration), A search for ttbar resonances with the ATLAS detector in 2.05 fb<sup>-1</sup> of proton-proton collisions at  $\sqrt{s} = 7$  TeV, European Physical Journal C (2012) 72:2083; arXiv:1205.5371v3 [hep-ex].
640. G. Aad *et al.* (ATLAS Collaboration), Measurement of the t-channel single top-quark production cross section in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physics Letters B 717 (2012) 330-350; arXiv:1205.3130v3 [hep-ex].

- 641. G. Aad *et al.* (ATLAS Collaboration), Measurement of W gamma and Z gamma production cross sections in pp collisions at  $\sqrt{s} = 7$  TeV and limits on anomalous triple gauge couplings with the ATLAS detector, Physics Letters B 717 (2012) 49-69; arXiv:1205.2531v1 [hep-ex].
- 642. G. Aad *et al.* (ATLAS Collaboration), Measurement of the top quark pair cross section with ATLAS in pp collisions at  $\sqrt{s} = 7$  TeV using final states with an electron or a muon and a hadronically decaying tau lepton, Physics Letters B 717 (2012) 89-108; arXiv:1205.2067v1 [hep-ex].
- 643. G. Aad *et al.* (ATLAS Collaboration), Search for tb Resonances in Proton-Proton Collisions at  $\sqrt{s} = 7$  TeV with the ATLAS Detector, Physical Review Letters 109, 081801 (2012); arXiv:1205.1016v2 [hep-ex].
- 644. G. Aad *et al.* (ATLAS Collaboration), Search for fermiophobic Higgs boson in the diphoton decay channel with the ATLAS detector, European Physical Journal C (2012)72:2157; arXiv:1205.0701v2 [hep-ex].
- 645. G. Aad *et al.* (ATLAS Collaboration), Search for scalar top quark pair production in natural gauge mediated supersymmetry models with the ATLAS detector in pp collisions at  $\sqrt{s} = 7$  TeV, Physics Letters B 715 (2012) 44-60; arXiv:1204.6736v2 [hep-ex].
- 646. G. Aad *et al.* (ATLAS Collaboration), Search for TeV-scale gravity signatures in final states with leptons and jets with the ATLAS Detector, Physics Letters B 716 (2012) 122-141; arXiv:1204.4646v2 [hep-ex].
- 647. G. Aad *et al.* (ATLAS Collaboration), Search for supersymmetry with jets, missing transverse momentum and at least one hadronically decaying tau lepton in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physics Letters B 714 (2012) 197-214; arXiv:1204.3852v3 [hep-ex].
- 648. G. Aad *et al.* (ATLAS Collaboration), Search for Pair Production of a New  $b'$  Quark that Decays to a Z Boson and a Bottom Quark with the ATLAS Detector, Physical Review Letters 109,071801 (2012); arXiv:1204.1265v2 [hep-ex].
- 649. G. Aad *et al.* (ATLAS Collaboration), Search for events with large missing transverse momentum, jets, and at least two tau leptons in 7 TeV proton-proton collision data with the ATLAS detector, Physics Letters B 714 (2012) 180-196; arXiv:1203.6580v2 [hep-ex].
- 650. G. Aad *et al.* (ATLAS Collaboration), Measurement of the azimuthal anisotropy for charged particle production in  $\sqrt{s_{NN}} = 2.76$  TeV lead-lead collisions with the ATLAS detector, Physical Review C 86, 014907 (2012); arXiv:1203.3087v3 [hep-ex].
- 651. G. Aad *et al.* (ATLAS Collaboration), Search for second generation scalar leptoquarks in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, European Physical Journal C (2012) 72:2151; arXiv:1203.3172v2 [hep-ex].
- 652. G. Aad *et al.* (ATLAS Collaboration), Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC, European Physical Journal C (2012) 73:2305; arXiv:1203.1302v1 [hep-ex].

653. G. Aad *et al.* (ATLAS Collaboration), Measurement of the azimuthal ordering of charged hadrons with the ATLAS detector, *Physical Review D* 86, (2012) 052005; arXiv:1203.0419v2 [hep-ex].
654. G. Aad *et al.* (ATLAS Collaboration), Search for Down-Type Fourth Generation Quarks with the ATLAS Detector in Events with One Lepton and Hadronically Decaying W Bosons, *Physical Review Letters* 109, 032001 (2012); arXiv:1202.6540v2 [hep-ex].
655. G. Aad *et al.* (ATLAS Collaboration), Search for pair-produced heavy quarks decaying to  $Wq$  in the two-lepton channel at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Physical Review D* 86, 012007 (2012); arXiv:1202.3389v2 [hep-ex].
656. G. Aad *et al.* (ATLAS Collaboration), Measurement of inclusive jet and dijet production in pp collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector, *Physical Review D* 86, 014022 (2012); arXiv:1112.6297v2 [hep-ex].
657. G. Aad *et al.* (ATLAS Collaboration), Jet energy measurement with the ATLAS detector in proton-proton collisions at  $\sqrt{s} = 7$  TeV, *European Physical Journal C* (2013) 73:2304; arXiv:1112.6426v1 [hep-ex].
658. G. Aad *et al.* (ATLAS Collaboration), Determination of the strange quark density of the proton from ATLAS data on  $W \rightarrow l\nu$  and  $Z \rightarrow ll$  cross-sections, *Physical Review Letters* 109 (2012) 012001; arXiv:1203.4051v2 [hep-ex].
659. G. Aad *et al.* (ATLAS Collaboration), Forward-backward correlations and charged-particle azimuthal distributions in pp interactions using the ATLAS detector, *Journal of High Energy Physics* 07 (2012) 019; arXiv:1203.3100v1 [hep-ex].
660. G. Aad *et al.* (ATLAS Collaboration), Measurement of the W boson polarization in top quark decays with the ATLAS detector, *Journal of High Energy Physics* 06 (2012) 088; arXiv:1205.2484v1 [hep-ex].
661. G. Aad *et al.* (ATLAS Collaboration), Search for lepton flavour violation in the  $e\mu$  continuum with the ATLAS detector in  $\sqrt{s} = 7$  TeV pp collisions at the LHC, *European Physical Journal C* 72 (2012) 2040; arXiv:1205.0705v1 [hep-ex].
662. G. Aad *et al.* (ATLAS Collaboration), Measurement of tau polarization in  $W \rightarrow \tau \nu$  decays with the ATLAS detector in pp collisions at  $\sqrt{s} = 7$  TeV, *European Physical Journal C* 72:2062 (2012); arXiv:1204.6720v1 [hep-ex].
663. G. Aad *et al.* (ATLAS Collaboration), Search for Supersymmetry in Events with Three Leptons and Missing Transverse Momentum in  $\sqrt{s} = 7$  TeV pp Collisions with the ATLAS Detector, *Physical Review Letters* 108 (2012) 261804; arXiv:1204.5638v1 [hep-ex].
664. G. Aad *et al.* (ATLAS Collaboration), Search for charged Higgs bosons decaying via  $H^{\pm} \rightarrow \tau \nu$  in  $t\bar{t}$  events using pp collision data at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Journal of High Energy Physics* 06 (2012) 039; arXiv:1204.2760v1 [hep-ex].
665. G. Aad *et al.* (ATLAS Collaboration), Search for resonant WZ production in the  $WZ \rightarrow l\nu l'$  channel in  $\sqrt{s} = 7$  TeV pp collisions with the ATLAS detector, *Physical Review D* 85 (2012) 112012; arXiv:1204.1648v1 [hep-ex].

- 666. G. Aad *et al.* (ATLAS Collaboration), Search for the decay  $B^0_s \rightarrow \mu^+\mu^-$  with the ATLAS detector, Physics Letters B 713 (2012) 387-407; arXiv:1204.0735v2 [hep-ex].
- 667. G. Aad *et al.* (ATLAS Collaboration), Measurement of the WW cross section in  $\sqrt{s} = 7$  TeV pp collisions at ATLAS and limits on anomalous gauge couplings, Physics Letters B 712 (2012) 289-308; arXiv:1203.6232v2 [hep-ex].
- 668. G. Aad *et al.* (ATLAS Collaboration), Search for supersymmetry in pp collisions at  $\sqrt{s} = 7$  TeV in final states with missing transverse momentum and b-jets with the ATLAS detector, Physical Review D 85 (2012) 112006; arXiv:1203.6193v1 [hep-ex].
- 669. G. Aad *et al.* (ATLAS Collaboration), Search for Gluinos in Events with Two Same-Sign Leptons, Jets and Missing Transverse Momentum with the ATLAS Detector in pp Collisions at  $\sqrt{s} = 7$  TeV, Physical Review Letters 108 (2012) 241802; arXiv:1203.5763v1 [hep-ex].
- 670. G. Aad *et al.* (ATLAS Collaboration), Measurement of the top quark mass with the template method in the  $t\bar{t} \rightarrow \text{lepton} + \text{jets}$  channel using ATLAS data, European Physical Journal C 72 (2012) 2046; arXiv:1203.5755v1 [hep-ex].
- 671. G. Aad *et al.* (ATLAS Collaboration), Search for heavy neutrinos and right-handed W bosons in events with two leptons and jets in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, European Physical Journal C 72:2056 (2012); arXiv:1203.5420v1 [hep-ex].
- 672. G. Aad *et al.* (ATLAS Collaboration), Measurement of  $t\bar{t}$  production with a veto on additional central jet activity in pp collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector, European Physical Journal C 72 (2012) 2043; arXiv:1203.5015v1 [hep-ex].
- 673. G. Aad *et al.* (ATLAS Collaboration), Jet mass and substructure of inclusive jets in  $\sqrt{s} = 7$  TeV pp collisions with the ATLAS experiment, Journal of High Energy Physics 1205 (2012) 128; arXiv:1203.4606v1 [hep-ex].
- 674. G. Aad *et al.* (ATLAS Collaboration), Measurement of the charge asymmetry in top quark pair production in pp collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector, European Physical Journal C 72 (2012) 2039; arXiv:1203.4211v1 [hep-ex].
- 675. G. Aad *et al.* (ATLAS Collaboration), Observation of spin correlation in  $t\bar{t}$  events from pp collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector, Physical Review Letters 108 (2012) 212001; arXiv:1203.4081v1 [hep-ex].
- 676. G. Aad *et al.* (ATLAS Collaboration), Measurement of inclusive two-particle angular correlations in pp collisions with the ATLAS detector at the LHC, Journal of High Energy Physics 05 (2012) 157; arXiv:1203.3549v1 [hep-ex].
- 677. G. Aad *et al.* (ATLAS Collaboration), Measurement of the production cross section of an isolated photon associated with jets in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physical Review D 85 (2012) 092014; arXiv:1203.3161v1 [hep-ex].
- 678. G. Aad *et al.* (ATLAS Collaboration), Measurement of the polarization of W bosons produced at large momentum transfer in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS experiment at the LHC, European Physical Journal C 72 (2012) 2001; arXiv:1203.2165v1 [hep-ex].

679. G. Aad *et al.* (ATLAS Collaboration), Search for a Light Higgs Boson Decaying to Long-Lived Weakly Interacting Particles in Proton-Proton Collisions at  $\sqrt{s} = 7$  TeV with the ATLAS Detector, *Physical Review Letters* 108 (2012) 251801; arXiv:1203.1303v2 [hep-ex].
680. G. Aad *et al.* (ATLAS Collaboration), Search for new particles decaying to ZZ using final states with leptons and jets with the ATLAS detector in  $\sqrt{s} = 7$  TeV proton-proton collisions, *Physics Letters B* 712 (2012) 331-350; arXiv:1203.0718v1 [hep-ex].
681. G. Aad *et al.* (ATLAS Collaboration), Search for FCNC single top-quark production at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Physics Letters B* 712 (2012) 351-369; arXiv:1203.0529v2 [hep-ex].
682. G. Aad *et al.* (ATLAS Collaboration), Search for same-sign top quark production and fourth-generation down-type quarks in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Journal of High Energy Physics* 1204 (2012) 069; arXiv:1202.5520v1 [hep-ex].
683. G. Aad *et al.* (ATLAS Collaboration), Measurement of the cross section for top-quark pair production in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector using final states with two high-pT leptons, *Journal of High Energy Physics* 05 (2012) 059; arXiv:1202.4892v1 [hep-ex].
684. G. Aad *et al.* (ATLAS Collaboration), Search for anomaly-mediated supersymmetry breaking with the ATLAS detector based on a disappearing-track signature in pp collision at  $\sqrt{s} = 7$  TeV, *European Physical Journal C* 72 (2012) 1993; arXiv:1202.4847v1 [hep-ex].
685. G. Aad *et al.* (ATLAS Collaboration), Search for Pair Production of a Heavy Up-Type Quark Decaying to a W Boson and a b Quark in the lepton + jets Channel with the ATLAS Detector, *Physical Review Letters* 108 (2012) 261902; arXiv:1202.3076v1 [hep-ex].
686. G. Aad *et al.* (ATLAS Collaboration), Search for the Standard Model Higgs boson in the decay channel  $H \rightarrow ZZ(*) \rightarrow 4l$  with 4.8 fb<sup>-1</sup> of pp collisions at  $\sqrt{s} = 7$  TeV with ATLAS, *Physics Letters B* 710 (2012) 383-402; arXiv:1202.1415v1 [hep-ex].
687. G. Aad *et al.* (ATLAS Collaboration), Search for the Standard Model Higgs boson in the diphoton decay channel with 4.9 fb<sup>-1</sup> of pp collisions at  $\sqrt{s} = 7$  TeV with ATLAS, *Physical Review Letters* 108 (2012) 111803; arXiv:1202.1414v1 [hep-ex].
688. G. Aad *et al.* (ATLAS Collaboration), Combined search for the Standard Model Higgs boson using up to 4.9 fb<sup>-1</sup> of pp collision data at  $\sqrt{s} = 7$  TeV with the ATLAS detector at the LHC, *Physics Letters B* 710 (2012) 49-66; arXiv:1202.1408v2 [hep-ex].
689. G. Aad *et al.* (ATLAS Collaboration), Search for Decays of Stopped, Long-Lived Particles from 7 TeV pp Collisions with the ATLAS detector, *European Physical Journal C* 72 (2012) 1965; arXiv:1201.5595v1 [hep-ex].
690. G. Aad *et al.* (ATLAS Collaboration), Search for excited leptons in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Physical Review D* 85 (2012) 072003; arXiv:1201.3293v1 [hep-ex].
691. G. Aad *et al.* (ATLAS Collaboration), Rapidity Gap Cross Sections measured with the ATLAS Detector in pp Collisions at  $\sqrt{s} = 7$  TeV, *European Physical Journal C* 72 (2012) 1926; arXiv:1201.2808v1 [hep-ex].

692. G. Aad *et al.* (ATLAS Collaboration), Measurement of the top quark pair production cross-section with ATLAS in the single lepton channel, Physics Letters B711 (2012) 244-263; arXiv:1201.1889v1 [hep-ex].
693. G. Aad *et al.* (ATLAS Collaboration), Study of jets produced in association with a W boson in pp collision at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physical Review D85 (2012) 092202; arXiv:1201.1276v2 [hep-ex].
694. G. Aad *et al.* (ATLAS Collaboration), Search for anomalous production of prompt like-sign muon pairs and constraints on physics beyond the Standard Model with the ATLAS detector, Physical Review D 85 032004 (2012); arXiv:1201.1091v2 [hep-ex].
695. G. Aad *et al.* (ATLAS Collaboration), Search for heavy vector-like quarks coupling to light generations in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physics Letters B712 (2012) 22-39; arXiv:1112.5755v1 [hep-ex].
696. G. Aad *et al.* (ATLAS Collaboration), Observation of a new  $\chi_b$  state in radiative transitions to Upsilon(1S) and Upsilon(2S) at ATLAS, Physical Review Letters 108 (2012) 152001; arXiv:1112.5154v4 [hep-ex].
697. G. Aad *et al.* (ATLAS Collaboration), Search for first generation scalar leptoquarks in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physics Letters B709 (2012) 158-176; Erratum in Physics Letters B711 (2012) 442-455; arXiv:1112.4828v5 [hep-ex].
698. G. Aad *et al.* (ATLAS Collaboration), Search for Contact Interactions in Dilepton Events from pp Collisions at  $\sqrt{s} = 7$  TeV with the ATLAS Detector, Physics Letters B712 (2012) 40-58; arXiv:1112.4462v2 [hep-ex].
699. G. Aad *et al.* (ATLAS Collaboration), Measurement of  $D^*$  meson production in jets from pp Collisions at  $\sqrt{s} = 7$  TeV with the ATLAS Detector, Physics Review D85 (2012) 052005; arXiv:1112.4432v1 [hep-ex].
700. G. Aad *et al.* (ATLAS Collaboration), Search for Scalar Bottom Quark Pair Production with the ATLAS Detector in pp Collisions at  $\sqrt{s} = 7$  TeV, Physics Review Letters 108 (2012) 181802; arXiv:1112.3832v1 [hep-ex].
701. G. Aad *et al.* (ATLAS Collaboration), Search for Production of Resonant States in the Photon-Jet Mass Distribution using pp Collisions at  $\sqrt{s} = 7$  TeV Collected by the ATLAS Detector, Physical Review Letters 108 (2012) 211802; arXiv:1112.3580v1 [hep-ex].
702. G. Aad *et al.* (ATLAS Collaboration), Search for Higgs boson in the  $H \rightarrow WW^{(*)} \rightarrow l \nu l \nu$  decay channel in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physical Review Letters 108 (2012) 111802; arXiv:1112.2577v2 [hep-ex].
703. G. Aad *et al.* (ATLAS Collaboration), Search for Extra Dimensions Using Diphoton Events in 7 TeV Proton-Proton Collisions with the ATLAS Detector, Physics Letters B710 (2012) 538-556; arXiv:1112.2194v1 [hep-ex].
704. G. Aad *et al.* (ATLAS Collaboration), Measurement of the WZ Production Cross Section and Limits on Anomalous Triple Gauge Couplings in Proton-Proton Collisions at  $\sqrt{s} = 7$  TeV with the ATLAS, Physics Letters B709 (2012) 341-357; arXiv:1111.5570v2 [hep-ex].



705. G. Aad *et al.* (ATLAS Collaboration), Search for Diphoton Events with Large Missing Transverse Energy with 1 fb<sup>-1</sup> of 7 TeV Proton-Proton Collision Data with the ATLAS Detector, Physics Letters B710 (2012) 519-537; arXiv:1111.4116v1 [hep-ex].
706. G. Aad *et al.* (ATLAS Collaboration), Measurement of the production cross section for Z/gamma\* in association with jets in pp collisions at sqrt(s) = 7 TeV with the ATLAS Detector, Physical Review D85 (2012) 032009; arXiv:1111.2690v1 [hep-ex].
707. G. Aad *et al.* (ATLAS Collaboration), Kshort and Lambda production in pp interactions at sqrt(s) = 0.9 and 7 TeV measured with the ATLAS detector at the LHC, Physical Review D 85 (2012) 012001; arXiv:1111.1297v2 [hep-ex].
708. G. Aad *et al.* (ATLAS Collaboration), Search for strong gravity signatures in same-sign dimuon final states using the ATLAS detector at the LHC, Physics Letters B709 (2012) 322-340; arXiv:1111.0080v1 [hep-ex].
709. G. Aad *et al.* (ATLAS Collaboration), A study of the material in the ATLAS Inner Detector with secondary hadronic interactions with 7 TeV data, Journal of Instrumentation 7 (2012) P01013; arXiv:1110.6191v2 [hep-ex].
710. G. Aad *et al.* (ATLAS Collaboration), Searches for supersymmetry with the ATLAS detector using final states with two leptons and missing transverse momentum in sqrt(s) = 7 TeV proton-proton collisions, Physics Letters B709 (2012) 137-157; arXiv:1110.6189v1 [hep-ex].
711. G. Aad *et al.* (ATLAS Collaboration), Measurement of the ZZ production cross section and limits on anomalous neutral triple gauge couplings in proton-proton collisions at sqrt(s) = 7 TeV with the ATLAS detector, Physical Review Letters 108 (2012) 041804; arXiv:1110.5016v2 [hep-ex].
712. G. Aad *et al.* (ATLAS Collaboration), Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data, European Physical Journal C72 (2012) 1909; arXiv:1110.3174v1 [hep-ex].
713. G. Aad *et al.* (ATLAS Collaboration), Search for massive colored scalars in four-jet final states in sqrt(s) = 7 TeV proton-proton collisions with the ATLAS detector, European Physical Journal C 71 (2011) 1821; arXiv:1110.2693v2 [hep-ex].
714. G. Aad *et al.* (ATLAS Collaboration), Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using sqrt(s) = 7 TeV pp collisions with the ATLAS detector, Journal of High Energy Physics 1111 (2011) 099; arXiv:1110.2299v1 [hep-ex].
715. G. Aad *et al.* (ATLAS Collaboration), Performance of the ATLAS Trigger System in 2010, European Physical Journal C 72 (2012) 1849; arXiv:1110.1530v2 [hep-ex].
716. G. Aad *et al.* (ATLAS Collaboration), Measurement of the inclusive and dijet cross sections of b-jets in pp collisions at sqrt(s) = 7 TeV with the ATLAS detector, European Physical Journal C 71 (2011) 1846; arXiv:1109.6833v2 [hep-ex].
717. G. Aad *et al.* (ATLAS Collaboration), Search for supersymmetry in final states with jets, missing transverse momentum and one isolated lepton in sqrt(s) = 7 TeV pp collisions using 1 fb<sup>-1</sup> of ATLAS data, Physical Review D 85 (2012) 012006; arXiv:1109.6606v2 [hep-ex].

718. G. Aad *et al.* (ATLAS Collaboration), Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in  $\sqrt{s} = 7$  TeV proton-proton collisions, Physics Letters B 710 (2012) 67-85; arXiv:1109.6572v1 [hep-ex].
719. G. Aad *et al.* (ATLAS Collaboration), Search for the Standard Model Higgs boson in the decay channel  $H \rightarrow ZZ(*) \rightarrow 4l$  with the ATLAS detector, Physics Letters B 05 (2011) 435-451; arXiv:1109.5945v2 [hep-ex].
720. G. Aad *et al.* (ATLAS Collaboration), Measurement of the jet fragmentation function and transverse profile in proton-proton collisions at the center-of-mass energy of 7 TeV with the ATLAS detector at the LHC, European Physical Journal C 71 (2011) 1795; arXiv:1109.5816v2 [hep-ex].
721. G. Aad *et al.* (ATLAS Collaboration), Measurement of the inclusive  $W^{+-}$  and  $Z/\gamma$  cross sections in the electron and muon decay channels in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physical Review D 85 (2012) 072004; arXiv:1109.5141v3 [hep-ex].
722. G. Aad *et al.* (ATLAS Collaboration), Search for New Phenomena in  $t\bar{t}b\bar{a}$  Events With Large Missing Transverse Momentum in Proton-Proton Collisions at  $\sqrt{s} = 7$  TeV with the ATLAS Detector, Physical Review Letters 108 (2012) 041805; arXiv:1109.4725v2 [hep-ex].
723. G. Aad *et al.* (ATLAS Collaboration), Search for the Higgs boson in the  $H \rightarrow WW \rightarrow l\nu qq$  decay channel in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physical Review Letters 107 (2011) 231801; arXiv:1109.3615v2 [hep-ex].
724. G. Aad *et al.* (ATLAS Collaboration), Search for a Standard Model Higgs Boson in the  $H \rightarrow ZZ \rightarrow l\nu\nu\nu$  Decay Channel with the ATLAS Detector, Physical Review Letters 107 (2011) 221802; arXiv:1109.3357v2 [hep-ex].
725. G. Aad *et al.* (ATLAS Collaboration), Search for a heavy neutral particle decaying into an electron and a muon using 1 fb<sup>-1</sup> of ATLAS data, European Physical Journal C 71 (2011) 1809; arXiv:1109.3089v3 [hep-ex].
726. G. Aad *et al.* (ATLAS Collaboration), Search for Displaced Vertices Arising from Decays of New Heavy Particles in 7 TeV pp Collisions at ATLAS, Physics Letters B 707 (2012) 478-496; arXiv:1109.2242v2 [hep-ex].
727. G. Aad *et al.* (ATLAS Collaboration), Measurement of the cross section for the production of a W boson in association with b-jets in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physics Letters B 707 (2012) 418-437; arXiv:1109.1470v2 [hep-ex].
728. G. Aad *et al.* (ATLAS Collaboration), Measurement of the cross-section for b-jets produced in association with a Z boson at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physics Letter B 706 (2012) 295-313; arXiv:1109.1403v2 [hep-ex].
729. G. Aad *et al.* (ATLAS Collaboration), Measurements of the electron and muon inclusive cross-sections in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physics Letter B 707 (2012) 438-458; arXiv:1109.0525v2 [hep-ex].

730. G. Aad *et al.* (ATLAS Collaboration), Search for New Physics in the Dijet Mass Distribution using 1 fb-1 of pp Collision Data at  $\sqrt{s} = 7$  TeV collected by the ATLAS detector, Physics Letters B 708 (2012) 37-54; arXiv:1108.6311v2 [hep-ex].
731. G. Aad *et al.* (ATLAS Collaboration), Measurement of the Transverse Momentum Distribution of W Bosons in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS Detector, Physical Review D 85 (2012) 012005; arXiv:1108.6308v2 [hep-ex].
732. G. Aad *et al.* (ATLAS Collaboration), Measurement of the centrality dependence of the charged particle pseudorapidity distribution in lead-lead collisions at  $\sqrt{s_{NN}} = 2.76$  TeV with the ATLAS detector, Physics Letters B 710 (2012) 363-382; arXiv:1108.6027v1 [hep-ex].
733. G. Aad *et al.* (ATLAS Collaboration), Measurement of the pseudorapidity and transverse momentum dependence of the elliptic flow of charged particles in lead-lead collisions at  $\sqrt{s_{NN}} = 2.76$  TeV with the ATLAS detector, Physics Letters B 707 (2012) 330-348; arXiv:1108.6018v3 [hep-ex].
734. G. Aad *et al.* (ATLAS Collaboration), Search for the Standard model Higgs boson in the two photon decay channel with the ATLAS detector at the LHC, Physics Letters B 705 (2011) 452-470; arXiv:1108.5895v2 [hep-ex].
735. G. Aad *et al.* (ATLAS Collaboration), Performance of Missing Transverse Momentum Reconstruction in Proton-Proton Collisions at 7 TeV with ATLAS, European Physical Journal C 72 (2012) 1844; arXiv:1108.5602v2 [hep-ex].
736. G. Aad *et al.* (ATLAS Collaboration), Search for a heavy Standard Model Higgs boson in the channel  $H \rightarrow ZZ \rightarrow 4lqq$  using the ATLAS detector, Physics Letters B 707 (2012) 27-45; arXiv:1108.5064v2 [hep-ex].
737. G. Aad *et al.* (ATLAS Collaboration), A measurement of the ratio of the W and Z cross sections with exactly one associated jet in pp collisions at  $\sqrt{s} = 7$  TeV with ATLAS, Physics Letters B 708 (2012) 221-240; arXiv:1108.4908v2 [hep-ex].
738. G. Aad *et al.* (ATLAS Collaboration), Measurement of the W to tau nu Cross Section in pp Collisions at the  $\sqrt{s} = 7$  TeV with the ATLAS experiment, Physics Letters B 706 (2012) 276-294; arXiv:1108.4101v2 [hep-ex].
739. G. Aad *et al.* (ATLAS Collaboration), Measurement of the top quark pair production cross-section in the dilepton channel, Physics Letters B 707 (2012) 459-477; arXiv:1108.3699v2 [hep-ex].
740. G. Aad *et al.* (ATLAS Collaboration), Measurement of the Z to tau tau cross section with the ATLAS detector, Physical Review D 84 (2011) 112006; arXiv:1108.2016v2 [hep-ex].
741. G. Aad *et al.* (ATLAS Collaboration), Search for dilepton resonances in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physical Review Letters 107 (2011) 272002; arXiv:1108.1582v3 [hep-ex].
742. G. Aad *et al.* (ATLAS Collaboration), Search for a heavy gauge boson decaying to a charged lepton and a neutrino in 1 fb-1 of pp collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector, Physics Letters B 705 (2011) 28-46; arXiv:1108.1316v2 [hep-ex].

743. G. Aad *et al.* (ATLAS Collaboration), Inclusive search for same-sign dilepton signatures in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Journal of High Energy Physics* 1110 (2011) 107; arXiv:1108.0366v2 [hep-ex].
744. G. Aad *et al.* (ATLAS Collaboration), Measurement of the inclusive isolated prompt photon cross-section in pp collisions at  $\sqrt{s} = 7$  TeV using 35 pb<sup>-1</sup> of ATLAS data, *Physics Letters B* 706 (2011) 150-167; arXiv:1108.0253v2 [hep-ex].
745. G. Aad *et al.* (ATLAS Collaboration), Search for neutral MSSM Higgs bosons decaying to  $\tau^+ \tau^-$  pairs in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Physics Letters B* 705 (2011) 174-192; arXiv:1107.5503 [hep-ex].
746. G. Aad *et al.* (ATLAS Collaboration), Properties of jets measured from tracks in proton-proton collisions at center-of-mass energy  $\sqrt{s} = 7$  TeV with ATLAS detector, *Physical Review D* 84 (2011) 054001; arXiv:1107.3311 [hep-ex].
747. G. Aad *et al.* (ATLAS Collaboration), Measurement of the transverse momentum distribution of  $Z/\gamma^*$  bosons in proton-proton collisions at 7 TeV with the ATLAS detector, *Physics Letters B* 705 (2011) 415-434; arXiv:1107.2381 [hep-ex].
748. G. Aad *et al.* (ATLAS Collaboration), Measurement of multi-jet cross sections in proton-proton collisions at 7 TeV center-of-mass energy, *European Physical Journal C* 71 (2011) 1763; arXiv:1107.2092 [hep-ex].
749. G. Aad *et al.* (ATLAS Collaboration), Measurement of dijet production with a veto on additional central jet activity in pp collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector, *Journal of High Energy Physics* 1109 (2011) 053; arXiv:1107.1641 [hep-ex].
750. G. Aad *et al.* (ATLAS Collaboration), Measurement of the isolated diphoton cross section in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Physical Review D* 85 (2012) 012003; arXiv:1107.0581 [hep-ex].
751. G. Aad *et al.* (ATLAS Collaboration), Search for Diphoton Events with Large Missing Transverse Energy with 36 pb<sup>-1</sup> of 7 TeV Proton-Proton Collision Data with the ATLAS Detector, *European Physical Journal C* 71 (2011) 1744; arXiv:1107.0561 [hep-ex].
752. G. Aad *et al.* (ATLAS Collaboration), Search for new phenomena with the monojet and missing transverse momentum signature using the ATLAS detector in  $\sqrt{s} = 7$  TeV proton-proton collisions, *Physics Letters B* 705 (2011) 294-312; arXiv:1106.5327 [hep-ex].
753. G. Aad *et al.* (ATLAS Collaboration), Measurement of the Upsilon(1S) Production Cross-Section in pp Collisions at  $\sqrt{s} = 7$  TeV in ATLAS, *Physics Letters B* 705 (2011) 9-27; arXiv:1106.5325 [hep-ex].
754. G. Aad *et al.* (ATLAS Collaboration), Search for Heavy Long-Lived Charged Particles with the ATLAS detector in pp collisions at  $\sqrt{s} = 7$  TeV, *Physics Letters B* 703 (2011) 428-446; arXiv:1106.4495 [hep-ex].
755. G. Aad *et al.* (ATLAS Collaboration), Limits on the production of the Standard Model Higgs Boson in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *European Physical Journal C* 71 (2011) 1728; arXiv:1106.2748v3 [hep-ex].

756. G. Aad *et al.* (ATLAS Collaboration), Measurement of the W gamma and Z gamma production in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Journal of High Energy Physics* **1109** (2011) 072; arXiv:1106.1592 [hep-ex].
757. G. Aad *et al.* (ATLAS Collaboration), Measurement of the Inelastic Proton-Proton Cross-Section at  $\sqrt{s} = 7$  TeV with the ATLAS Detector, *Nature Communication* **2** (2011) 463; arXiv:1104.0326 [hep-ex].
758. G. Aad *et al.* (ATLAS Collaboration), Measurement of the WW cross section in  $\sqrt{s} = 7$  TeV pp collisions with ATLAS, *Physical Review Letters* **107** (2011) 041802; arXiv:1104.5225 [hep-ex].
759. G. Aad *et al.* (ATLAS Collaboration), Search for pair production of first or second generation leptoquarks in proton-proton collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector at the LHC, accepted by *Physical Review D* **83** (2011) 112006; arXiv:1104.4481 [hep-ex].
760. G. Aad *et al.* (ATLAS Collaboration), Search for Contact Interactions in Dimuon Events from pp Collisions at  $\sqrt{s} = 7$  TeV, *Physical Review D* **84** (2011) 011101(R); arXiv:1104.4398 [hep-ex].
761. G. Aad *et al.* (ATLAS Collaboration), Measurement of the differential cross-section of inclusive, prompt and non-prompt J/ $\psi$  production in proton-proton collisions at  $\sqrt{s} = 7$  TeV, *Nuclear Physics B* **850** (2011) 387-444; arXiv:1104.3038 [hep-ex].
762. G. Aad *et al.* (ATLAS Collaboration), Search for high mass dilepton resonances in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS experiment, *Physics Letters B* **700** (2011) 163-180; arXiv:1103.6218 [hep-ex].
763. G. Aad *et al.* (ATLAS Collaboration), Search for an excess of events with an identical flavour lepton pair and significant missing transverse momentum in  $\sqrt{s} = 7$  TeV proton-proton collisions, *European Physical Journal C* **71** (2011) 1647; arXiv:1103.6208 [hep-ex].
764. G. Aad *et al.* (ATLAS Collaboration), Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in  $\sqrt{s} = 7$  TeV proton-proton collisions, *European Physical Journal C* **71** (2011) 1682; arXiv:1103.6214 [hep-ex].
765. G. Aad *et al.* (ATLAS Collaboration), Search for a heavy particle decaying into an electron and a muon with the ATLAS detector in  $\sqrt{s} = 7$  TeV proton-proton collisions, *Physical Review Letters* **106** (2011) 251801; arXiv:1103.5559 [hep-ex].
766. G. Aad *et al.* (ATLAS Collaboration), Search for supersymmetry in pp collisions at  $\sqrt{s} = 7$  TeV in final states with missing transverse momentum and b-jets, *Physics Letters B* **701** (2011) 3980416; arXiv: 1103.4344 [hep-ex].
767. G. Aad *et al.* (ATLAS Collaboration), Search for New Physics in Dijet Mass and Angular Distributions in pp Collisions at  $\sqrt{s} = 7$  TeV Measured with the ATLAS Detector, *New Journal Physics* **13** (2011); arXiv:1103.3864 [hep-ex].
768. G. Aad *et al.* (ATLAS Collaboration), Measurement of the W charge asymmetry in the  $W \rightarrow \mu\nu$  decay mode in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Physics Letters B* **701** (2011) 31-49; arXiv:1103.2929 [hep-ex].

769. G. Aad *et al.* (ATLAS Collaboration), Search for stable hadronising squarks and gluinos at the ATLAS experiment at the LHC, Physics Letters B **701** (2011) 1-19; arXiv:1103.1984 [hep-ex].
770. G. Aad *et al.* (ATLAS Collaboration), Measurements of underlying event properties using neutral and charge particles in pp collisions at  $\sqrt{s} = 900$  GeV and  $\sqrt{s} = 7$  TeV with the ATLAS detector at the LHC, European Physical Journal C **71** (2011) 1636; arXiv:1103.1816 [hep-ex].
771. G. Aad *et al.* (ATLAS Collaboration), Search for high-mass states with one lepton plus missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physics Letters B **701** (2011) 50-69; arXiv:1103.1391 [hep-ex].
772. G. Aad *et al.* (ATLAS Collaboration), Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in  $\sqrt{s} = 7$  TeV proton-proton collisions, Physics Letters B **701** (2011) 186-203; arXiv:1102.2696 [hep-ex].
773. G. Aad *et al.* (ATLAS Collaboration), Measurement of Dijet Azimuthal Decorrelations in pp Collisions at  $\sqrt{s} = 7$  TeV, Physical Review Letters **106** (2011) 172002; arXiv:1102.2696 [hep-ex].
774. G. Aad *et al.* (ATLAS Collaboration), Search for Supersymmetry Using Final States with One Lepton, Jets, and Missing Transverse Momentum with the ATLAS Detector in  $\sqrt{s} = 7$  TeV pp Collisions, Physical Review Letters **106** (2011) 131802; arXiv:1102.2357 [hep-ex].
775. G. Aad *et al.* (ATLAS Collaboration), Search for massive long-lived highly ionising particles with the ATLAS detector at the LHC, Physics Letters B **698** (2011) 353-370; arXiv:1102.0459 [hep-ex].
776. G. Aad *et al.* (ATLAS Collaboration), Luminosity determination in pp collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector at the LHC, European Physical Journal C **71** (2011) 1630; arXiv:1101.2185 [hep-ex].
777. G. Aad *et al.* (ATLAS Collaboration), Study of jet shapes in inclusive jet production in pp collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector, Physical Review D **83** (2011) 052003; arXiv:1101.0070 [hep-ex].
778. G. Aad *et al.* (ATLAS Collaboration), Measurement of the centrality dependence of  $J/\psi$  yields and observation of Z production in lead-lead collisions with the ATLAS detector at the LHC, Physics Letters B **697** (2011) 294-312; arXiv:1012.5419 [hep-ex].
779. G. Aad *et al.* (ATLAS Collaboration), Measurement of the production cross section for W-bosons in association with jets in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, Physics Letters B **698** (2011) 325-345; arXiv:1012.5382 [hep-ex].
780. G. Aad *et al.* (ATLAS Collaboration), Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC, accepted by New Journal of Physics **13** (2011) 053033; arXiv:1012.5104 [hep-ex].
781. G. Aad *et al.* (ATLAS Collaboration), Measurement of the inclusive isolated prompt photon cross section in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS Detector, Physical Review D **83** (2011) 052005; arXiv:1012.4389 [hep-ex].

782. G. Aad *et al.* (ATLAS Collaboration), Search for Diphoton Events with Large Missing Transverse Energy in 7 TeV Proton-Proton Collisions with the ATLAS Detector, *Physical Review Letters* **106** (2010) 121803; arXiv:1012.4272 [hep-ex].
783. G. Aad *et al.* (ATLAS Collaboration), Measurement of the top quark-pair production cross section with ATLAS in  $pp$  collisions at  $\sqrt{s} = 7$  TeV, *European Physical Journal C* **71** (2011) 1577; arXiv:1012.1792 [hep-ex].
784. G. Aad *et al.* (ATLAS Collaboration), Measurement of underlying event characteristics using charged particles in  $pp$  collisions at  $\sqrt{s} = 900$  GeV and 7 TeV with the ATLAS detector, *Physical Review D* **83** (2011) 112001; arXiv:1012.0791 [hep-ex].
785. G. Aad *et al.* (ATLAS Collaboration), Studies of the performance of the ATLAS detector using cosmic-ray muons, *European Physical Journal C* **71** (2011) 1593; arXiv:1011.6665 [physics.ins-det].
786. G. Aad *et al.* (ATLAS Collaboration), Measurement of the  $W \rightarrow l \nu$  and  $Z/\gamma^* \rightarrow ll$  production cross sections in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector, *Journal. High Energy Physics* **1012** (2010) 060; arXiv:1010.2130 [hep-ex].
787. G. Aad *et al.* (ATLAS Collaboration), Measurement of inclusive jet and dijet cross sections in proton-proton collisions at 7 TeV centre-of-mass energy with the ATLAS detector, *European Physical Journal C* **71** (2011) 1512; arXiv:1009.5908 [hep-ex].
788. C. Mueller *et al.*, Very high-energy observations of the two high-frequency peaked BL Lac objects 1ES 1218+304 and H 1426+428, *Astroparticle Physics* **34** (2011) 674-678; arXiv:1104.2770 [astro-ph.HE].
789. G. Aad *et al.* (ATLAS Collaboration), Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at  $\sqrt{s(NN)} = 2.76$  TeV with the ATLAS Detector at the LHC, *Physical Review Letters* **105** (2010) 252303; arXiv:1011.6182 [hep-ex].
790. G. Aad *et al.* (ATLAS Collaboration), Search for quark contact interactions in dijet angular distributions in  $pp$  collisions at  $\sqrt{s} = 7$  TeV measured with the ATLAS detector. *Physics Letters B* **694** (2011) 327-345; arXiv:1009.5069 [hep-ex].
791. G. Aad *et al.* (ATLAS Collaboration), Search for New Particles in Two-Jet Final States in 7 TeV Proton-Proton Collisions with the ATLAS Detector at the LHC, *Physical Review Letter* **105** (2010) 161801; arXiv:1008.2461 [hep-ex].
792. G. Aad *et al.* (ATLAS Collaboration), Readiness of the ATLAS Tile Calorimeter for LHC collisions, *European Physical Journal C* **70** (2010) 1193-1236; arXiv:1007.5423v2 [physics.ins-det].
793. G. Aad *et al.* (ATLAS Collaboration), Commissioning of the ATLAS Muon Spectrometer with cosmic rays, *European Physical Journal C* **70** (2010) 875-916; arXiv:1006.4384v1 [physics.ins-det].
794. G. Aad *et al.* (ATLAS Collaboration), Performance of the ATLAS detector using first collision data, *Journal High Energy Phys.* **1009** (2010) 056; arXiv:1005.5254v1 [hep-ex].
795. G. Aad *et al.* (ATLAS Collaboration), The ATLAS Simulation Infrastructure, *European Physical Journal C* **70** (2010) 823-874; arXiv:1005.4568v1 [physics.ins-det].

796. G. Aad *et al.* (ATLAS Collaboration), The ATLAS Inner Detector commissioning and calibration, *European Physical Journal C* **70** (2010) 787-821; arXiv:1004.5293v2 [physics.ins-det].
797. G. Aad *et al.* (ATLAS Collaboration), Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons, *European Physical Journal C* **70** (2010) 755-785; arXiv:1002.4189v3 [physics.ins-det].
798. G. Aad *et al.* (ATLAS Collaboration), Readiness of the ATLAS liquid argon calorimeter for LHC collisions, *European Physical Journal C* **70** (2010) 723-753; arXiv:0912.2642v4 [physics.ins-det].
799. H. Abreu *et al.*, Performance of the Electronic Readout of the ATLAS Liquid Argon Calorimeters. *Journal of Instrumentation* **5** (2010) P09003.
800. A. Jarvis *et al.*, Very High-Energy Observations of Gamma-Ray Bursts with STACEE, *The Astrophysical Journal* **722** (2010) 862-870.
801. D.M. Gingrich, Exotic Searches at ATLAS, Moriond EW-11 Proceedings; arXiv:1105.5101 [hep-ex].
802. D.M. Gingrich, Monte Carlo event generator for black hole production and decay in proton-proton collisions – QBH version 1.02, *Computer Physics Communication* **181** (2010) 1917-1924; arXiv:0911.5370v3 [hep-ph].
803. D.M. Gingrich, Quantum black holes with charge, color and spin at the LHC, *J. Phys. G: Nucl. Part.* **37** (2010) 105008; arXiv:0912.0826v4 [hep-ph].
804. G. Aad *et al.* (ATLAS Collaboration), Charged-particle multiplicities in  $pp$  interactions at  $s^{1/2} = 900$  GeV measured with the ATLAS detector at the LHC. *Phys. Lett.* **B688** (2010) 21-42; arXiv:1003.3124v1 [hep-ex].
805. D.M. Gingrich, Noncommutative geometry inspired black holes in higher dimensions at the LHC, *Journal of High Energy Phys.* **1005** (2010) 022; arXiv:1003.1798v1 [hep-ph].
806. D.M. Gingrich, Production of tidal-charged black holes at the Large Hadron Collider, *Phys. Rev. D* **81** (2010) 057702; arXiv:1001.0626v3 [hep-ph].
807. D.M. Gingrich, Signatures of Singlet Neutrinos in Large Extra Dimensions at the LHC, *Int. J. Mod. Phys. A* **24** (2009) 5173-5215; arXiv:0907.1878v2 [hep-ph].
808. D.D. Driscoll *et al.*, Search for Dark Matter Annihilation in Draco with the Solar Tower Effect Experiment, *Phys. Rev. D* **78** (2008) 087101.
809. D.Hanna *et al.*, OSETI with STACEE: A Search for Nanosecond Optical Transients from Nearby Stars, *Astrobiology* **9** (2009) 345-357.
810. J. Zweerink *et al.*, Pulsed VHE  $\gamma$ -ray Emission Constraints for PSR B1951+32 from STACEE Observations, *Astrophysical Journal* **693** (2008) 1128-1132.
811. D.M. Gingrich and K. Martell, Study of highly-excited string states at the Large Hadron Collider, *Phys. Rev. D* **78** (2008) 115009; arXiv:0808.2512v3 [hep-ph].
812. N.J. Buchanan *et al.*, Radiation qualification of the front-end electronics for the readout of the ATLAS liquid argon calorimeters, *J. Instrumentation* **3** (2008) P10005.



813. N.J. Buchanan *et al.*, ATLAS liquid argon calorimeter front end electronics, J. Instrumentation **3** (2008) P09003.
814. G. Aad *et al.* (ATLAS Collaboration), The ATLAS Experiment at the CERN Large Hadron Collider, J. Instrumentation **3** (2008) S08003.
815. N.J. Buchanan *et al.*, Design and implementation of the Front End Board for the readout of the ATLAS liquid argon calorimeter, J. Instrumentation **3** (2008) P03004.
816. D.M. Gingrich and K. Martell, Microcanonical treatment of black hole decay at the large hadron collider, J. Phys. G: Nucl. Part. **35** (2008) 035001; arXiv:0708.0647 [hep-ph].
817. D.D. Driscoll *et al.*, Search for Dark Matter Annihilation in Draco with STACEE, 30th International Cosmic Ray Conference, 3-11 July 2007, Merida, Mexico; arXiv:0710.3545 [astro-ph].
818. J. Kildea *et al.*, Observations of the Pulsar PSR B1951+32 with the Solar Tower Atmospheric Cherenkov Effect Experiment, 30th International Cosmic Ray Conference, 3-11 July 2007, Merida, Mexico; arXiv:0710.4623 [astro-ph].
819. R. Mukherjee *et al.*, STACEE Observations of 1ES 1218+304, 30th International Cosmic Ray Conference, 3-11 July 2007, Merida, Mexico; arXiv:0710.4110 [astro-ph].
820. A. Jarvis *et al.*, Gamma-Ray Burst Follow-up Observations with STACEE During 2003-2007, 30th International Cosmic Ray Conference, 3-11 July 2007, Merida, Mexico; arXiv:0710.4149 [astro-ph].
821. D.M. Gingrich, Missing energy in black hole production and decay at the Large Hadron Collider, J. High Energy Phys. **0711** (2007) 064; arXiv:0706.0623 [hep-ph] .
822. D.M. Gingrich, Black Hole Production at the Large Hadron Collider, Int. J. Mod. Phys, **A 31** (2007) 56855699; arXiv:0706.0627 [hep-ph].
823. D.M. Gingrich *et al.*, Construction, assembly and testing of the ATLAS hadronic end-cap calorimeter, J. Instrumentation **2** (2007) P05005; ATL-LARG-PUB-2007-009.
824. D.M. Gingrich, Effect of charged partons on black hole production at the Large Hadron Collider, J. High Energy Phys. **0702** (2007) 098; arXiv:hep-ph/0612105.
825. D.M. Gingrich, Black Hole Cross-Section at the LHC, Int. J. Mod. Phys. **A 21** (2006) 6653-6676; arXiv:hep-ph/0609055.
826. D.M. Gingrich, Practical Quantum Electrodynamics, Taylor & Francis CRC Press, 2006, ISBN 1584885424.
827. S. Schael *et al.*, Precision Electroweak Measurements on the Z Resonance, hep-ex/0509008, Physics Reports **427** (2006) 257.
828. J.E. Carson *et al.*, The Spectrum of Markarian 421 above 100 GeV with STACEE, 29th International Cosmic Ray Conference, 3-10 Aug. 2005, Pune India.
829. R. Mukherjee *et al.*, STACEE Observations of Low-Frequency Peaked BL Lac Objects, 29th International Cosmic Ray Conference, 3-10 Aug. 2005, Pune India.
830. J. Kildea *et al.*, Shower Reconstruction Techniques for STACEE, 29th International Cosmic Ray Conference, 3-10 Aug. 2005, Pune India.

831. J. Kildea *et al.*, Observations of the Crab Nebula and Pulsar with STACEE, 29th International Cosmic Ray Conference, 3-10 Aug. 2005, Pune India.
832. A. Jarvis *et al.*, GRB Observations around 100 GeV with STACEE, 29th International Cosmic Ray Conference, 3-10 Aug. 2005, Pune India.
833. D.M. Gingrich *et al.*, The STACEE Ground-Based Gamma-Ray Detector, IEEE Trans. Nucl. Sci. **NS-52** (6) (2005) 2977-2985.
834. L. Chen & D.M. Gingrich, Study of n-channel MOSFETs with an enclosed-gate layout in a 0.18 micron CMOS technology, IEEE Trans. Nucl. Sci. **NS-52** (4) (2005) 861-867.
835. L. Chen and D.M. Gingrich, Configurable SRAM Macro Design to Resist Total Dose Effects, IEEE Canadian Conference on Electrical and Computer Engineering 2005, 1-4 May 2005, Saskatoon, Canada.
836. D.A. Williams *et al.*, Follow-up Observations of Gamma-ray Bursts with STACEE, AIP Con. Proc. **745** (2005) 603-607.
837. D.A. Williams *et al.*, Astrophysics Around 100-GeV with STACEE, 2<sup>nd</sup> VERITAS Symposium on TeV Astrophysics of Extragalactic Sources, Chicago, Illinois, 24-26 April 2003, New Astron. Rev. **48** (2004) 359-366.
838. D.M. Gingrich *et al.*, The STACEE Ground-Based Gamma-Ray Detector, Proceedings of the 2004 IEEE Nuclear Science Symposium and Medical Imaging Conference, October 16-22, Rome; astro-ph/0506613
839. L. Chen & D.M. Gingrich, Study of n-channel MOSFETs with an enclosed-gate layout in a 0.18 micron CMOS technology, Proceedings of the 2004 IEEE Nuclear Science Symposium and Medical Imaging Conference, October 16-22, Rome.
840. J. Kildea *et al.*, The Solar Tower Atmospheric Cherenkov Effect Experiment, Frascati Physics Series Vol. VVV (2004).
841. D.A. Williams *et al.*, Follow-up Observations of Gamma-ray Bursts with STACEE, Proceedings of the 3rd International Symposium on High Energy Gamma-Ray Astronomy, Heidelberg, 2004.
842. J. Kildea *et al.*, Recent AGN Observations by the Solar Tower Atmospheric Cherenkov Effect Experiment, Proceedings of the 3rd International Symposium on High Energy Gamma-Ray Astronomy, Heidelberg, 2004.
843. D.M. Gingrich *et al.*, Radiation tolerant ASIC for controlling switched-capacitor arrays, IEEE Trans. Nucl. Sci. **NS-51** (4) (2004) 1324-1332.
844. R.A. Scalzo *et al.*, Optimized Pointing Strategies for Solar Tower ACTs, 28th International Cosmic Ray Conference, 31 July-7 Aug. 2003, Tsukuba, Japan, 2799-2802.
845. J.A. Zweerink *et al.*, Using GHz FADCs to Reject Hadrons from STACEE data, 28th International Cosmic Ray Conference, 31 July-7 Aug. 2003, Tsukuba, Japan, 2795-2798.
846. C.E. Covault *et al.*, Observations of Active Galactic Nuclei by the Solar Tower Atmospheric Cherenkov Effect Experiment (STACEE), 28th International Cosmic Ray Conference, 31 July-7 Aug. 2003, Tsukuba, Japan, 2551-2554.

847. C.E. Covault *et al.*, Performance Characteristics of the STACEE Gamma-ray Observatory, International Symposium: The Universe Viewed In Gamma Ray,, 25-28 Sept. 2002, Kashiwa, Chiba, Japan, T15.
848. L.M. Boone *et al.*, STACEE Observations of MRK 421 During the 2001 Flare, International Symposium: The Universe Viewed In Gamma Ray, 25-28 Sept. 2002, Kashiwa, Chiba, Japan, S22; astro-ph/0301369.
849. D.S. Hanna *et al.*, STACEE Observations of Extra-galactic Sources, International Symposium: The Universe Viewed In Gamma Ray, 25-28 Sept. 2002, Kashiwa, Chiba, Japan, S21.
850. N.J. Buchanan & D.M. Gingrich, Proton Radiation Effects in XC4036XLA Field Programmable Gate Arrays, IEEE Trans. Nucl. Sci. **NS-50** (2) (2003) 263-271.
851. D.M. Gingrich *et al.*, Radiation Tolerant Controller for a Switched Capacitor Array, Thirteenth Biennial Single Event Effects Symposium, 23-25 April 2002, Manhattan Beach, California, CD-ROM.
852. D.M. Gingrich, N.J. Buchanan, L. Chen, S. Liu, Ionizing Radiation Effects in EPF10K50E and XC2S150 Programmable Logic Devices, 2002 IEEE Radiation Effects Data Workshop - Workshop Record, 15-19 July 2002, Phoenix, Arizona, 41-44.
853. N.J. Buchanan & D.M. Gingrich, Radiation concerns in high-energy physics and the switched capacitor array controller in ATLAS, Fundamental Interactions, World Scientific Pub. (2001) 134-141.
854. R. Mukherjee *et al.*, The Current Status and Future Plans of the STACEE Observatory, Gamma-Ray Astrophysics 2001, Baltimore, Maryland, 4-6 April 2001, 932-936.
855. R.A. Ong *et al.*, STACEE Observations of Active Galactic Nuclei and Other Sources, 27th International Cosmic Ray Conference, Hamburg, Germany, 7-15 August 2001, 2593-2596..
856. J.A. Hinton *et al.*, Observation of Markarian 421 with the STACEE instrument, 27th International Cosmic Ray Conference, Hamburg, Germany, 7-15 August 2001.
857. C.E. Covault *et al.*, The Status of the STACEE Observatory, 27th International Cosmic Ray Conference, Hamburg, Germany, 7-15 August 2001; astro-ph/0107427.
858. D.M. MacQueen, D.M. Gingrich & N.J. Buchanan, Ionizing radiation effects in XC4036X field programmable gate arrays, Nucl. Inst. & Meth. **A479** (2001) 603-610.
859. D.M. Gingrich & N.J. Buchanan, Problems and Solutions to the Radiation Tolerance of the ATLAS Liquid Argon Calorimeter Electronics, Military and Aerospace Applications of Programmable Devices and Technologies International Conference, 2000.
860. N.J. Buchanan & D.M. Gingrich, Proton Induced Single-Event Upset Cross-Section of an SRAM-Based FPGA, Military and Aerospace Applications of Programmable Devices and Technologies International Conference, 2000.
861. R.A. Scalzo *et al.*, GeV Gamma-Ray Astronomy with STACEE-64: Opening the Unopened Window, 20th Texas Symposium on Relativistic Astrophysics, Austin, Texas, December 10-15, 2000, Proceedings 868-870.

862. D.A. Williams *et al.*, Performance of the STACEE Atmospheric Cherenkov Telescope, AIP Con. Proc. **558** (2000) 544-548; astro-ph/0010341.
863. Dictionary of Pure and Applied Physics, Edited by Dipak Basu, CRC Press, 2001, ISBN 0-8493-2890-X.
864. D.M. Gingrich, D.M. MacQueen & N.J. Buchanan, Total Ionizing Dose Effects in a SRAM-Based FPGA, Military and Aerospace Applications of Programmable Devices and Technologies International Conference, 1999.
865. C.E. Covault *et al.*, STACEE: Instrument Performance and Future Plans, Towards a Major Atmospheric Cherenkov Detector VI: (Snowbird, UT) AIP Press (2000) 411-415.
866. C.E. Covault *et al.*, The Solar Tower Atmospheric Cherenkov Effect Experiment (STACEE): New Results at 100 GeV, 5th Compton Gamma-Ray Symposium, New Hampshire, Sept. 15-17, 1999.
867. D.M. MacQueen, D.M. Gingrich, N.J. Buchanan & P.W. Green, Total Ionizing Dose Effects in a SRAM-Based FPGA, 1999 IEEE Radiation Effects Data Workshop - Workshop Record, 12-16 July 1999, Norfolk, Virginia, 24-29.
868. Quadt *et al.*, The design and performance of the ZEUS central tracking detector second-level trigger, A. Nucl. Inst. & Meth. **A438** (1999) 472-501.
869. E. Augè *et al.*, The front-end board for the ATLAS liquid argon calorimeter, Proceedings of the Fourth Workshop on Electronics for LHC Experiments, Rome 1998, CERN/LHCC/98-35 207-212.
870. G. Aguillion, *et al.*, Thin scintillating tiles with high light yield for the OPAL endcaps, Nucl. Inst. & Meth. **A417** (1998) 266-277.
871. D.M. Gingrich *et al.*, SCA controller for the ATLAS calorimeter, Proceedings of the International Conference on Electronics for Future Colliders, 28-29 May 1997, LeCroy Corp., Chestnut Ridge, New York, 43-51.
872. D.M. Gingrich, Status and future plans of the Canadian ATLAS collaboration, Nuclear Physics B (Proc. Suppl.) **55A** (1997) 281-285.
873. D.M. Gingrich *et al.*, A Pipeline Controller for the ATLAS Calorimeter, Proceedings of the First Workshop on Electronics for LHC Experiments, Lisbon, 1995, CERN/LHCC/95-56, 270-272.
874. D.M. Gingrich *et al.*, A Pipeline Controller for the ATLAS Calorimeter, Proceedings of the 1995 IEEE Nuclear Science Symposium and Medical Imaging Conference, October 21-28, San Francisco, Vol. 1, 277-279.
875. D.M. Gingrich, Event Generators for Discovery Physics - Leptoquarks, Physics at LEP2, Vol. 2, Proceedings of the Workshop (1996) CERN 96-01, 345-349.
876. D.M. Gingrich *et al.*, Analog pipeline readout module for the ATLAS calorimeter, Conference Proceedings of the ESONE International Conference RTD'94 on Real Time Data 1994 with emphasis on Distributed Front-End Processing, June 27-July 1, JINR, Dubna, Russia, 141-146.

877. D.M. Gingrich *et al.*, An analog pipeline readout module for calorimetry at LHC, Proceedings of the International Conference on Electronics for Future Colliders, 11-12 May 1994, LeCroy Corp., Chestnut Ridge, New York, 189-201.
878. A. Cassidy *et al.*, The electronics of the ZEUS central tracking detector, Proceedings of the International Conference on Electronics for Future Colliders, 11-12 May 1994, LeCroy Corp., Chestnut Ridge, New York, 147-157.
879. D.M. Gingrich, The applications of transputers in the ZEUS experiment, Conference Record of the Eighth Conference on Real-Time Computer Applications in Nuclear, Particle & Plasma Physics, Ed. D.Axen & R.Poutissou, (1993) 458-466.
880. J. Butterworth *et al.*, Initial experience with the ZEUS central tracking detector second level trigger and data acquisition system, Conference on Computing in High Energy Physics, Annecy, France, 21-25 September 1992, CERN Yellow Report 92-07, 230-233.
881. B. Foster *et al.*, The performance of the ZEUS central tracking detector z-by-timing electronics in a transputer based data acquisition system, Nuclear Physics B (Proc. Suppl.) **32** (1993) 181-188.
882. D.M. Gingrich, P.M. Hallam-Baker & I.C. McArthur, Software tools for transputer networks, New Computing Techniques in Physics Research II, World Scientific Pub. (1992) 209-214.
883. D.G. Cussans *et al.*, The design, status and performance of the ZEUS central tracking detector electronics, Nucl. Inst. & Meth. **A315** (1992) 397-403.
884. D. Gingrich & T. Khatri, Sensitivity to leptoquark detection in ZEUS, Physics at HERA, Vol. 2, Proceedings of the Workshop (1991) 1074-1078.
885. D. Gingrich & N. Harnew, Monte Carlo generator for leptoquark production in lepton-proton collisions, Physics at HERA, Vol. 3, Proceedings of the Workshop (1991) 1542-1550.
886. P.M. Hallam-Baker, D.M. Gingrich & I.C. McArthur, A package for the simulation of asynchronous parallel systems, AIP Con. Proc. **209** (1990) 378-385.
887. R.C.E. Devenish *et al.*, ZEUS central tracking detector second level trigger and readout architectures, AIP Con. Proc. **209** (1990) 155-162.
888. N. Dyce *et al.*, Track reconstruction methodology in the ZEUS central tracking detector, AIP Con. Proc. **209** (1990) 639-646.
889. C.B. Brooks *et al.* (ZEUS-UK Collab.), Development of the ZEUS central tracking detector, Nucl. Inst. & Meth. **A283** (1989) 477-483.
890. D. Gingrich, Observation of inclusive  $D_s$  production in B meson decay, Selected Topics in Electroweak Interactions, Word Scientific Pub. (1987) 396-405.

#### **Refereed Publications with the STACEE Collaboration**

891. D.D. Driscoll *et al.* (STACEE), Search for dark matter annihilation in Draco with the Solar Tower Atmospheric Cherenkov Effect Experiment, Phys. Rev. D **78** (2008) 087101.

892. D.A Bramel *et al.* (STACEE), Observations of the BL Lac Object 3C 66A with STACEE, *Astrophysical Journal* **629** (2005) 108-114; astro-ph/0504515.
893. R.A Scalzo *et al.* (STACEE), High-energy gamma-ray observations of W Comae with the solar tower atmospheric cerenkov effect experiment (STACEE), *Astrophysical Journal* **607** (2004) 778-787.

Plus 3 other publications in refereed journals with STACEE from 2002 to 2007.

#### **Refereed Publications with the RD3 Collaboration**

894. D.M. Gingrich *et al.* (RD3), Performance of an endcap prototype of the ATLAS accordion electromagnetic calorimeter, *Nucl. Inst. & Meth.* **A389** (1997) 398-408.
895. D.M. Gingrich *et al.* (RD3), Performance of a large scale prototype of the ATLAS accordion electromagnetic calorimeter, *Nucl. Inst. & Meth.* **A364** (1995) 290-306.
896. D. Gingrich *et al.* (RD3), Performance of the liquid argon electromagnetic and hadronic accordion calorimeter for the LHC, *Nucl. Inst. & Meth.* **A344** (1994) 39-46.

Plus 4 other publications in refereed journals with RD3 from 1994 to 1998.

#### **Refereed Publications with the OPAL Collaboration**

897. G. Abbiendi *et al.* (OPAL), Search for pair-produced leptoquarks in  $e^+e^-$  interactions at  $s^{1/2} \sim 183$  GeV, *Euro. Phys. Journal* **C13** (2000) 15-27.
898. K. Ackerstaff *et al.* (OPAL), Search for unstable heavy and excited leptons in  $e^+e^-$  collisions at  $s^{1/2} = 170$ -172 GeV, *Euro. Phys. Journal* **C1** (1998) 45-64.
899. K. Ackerstaff *et al.* (OPAL), Search for excited leptons in  $e^+e^-$  collisions at  $s^{1/2} = 161$  GeV, *Phys. Lett.* **B391** (1997) 197-209.

Plus 219 other publications in refereed journals with OPAL from 1993 to 2001.

#### **Refereed Publications with the ZEUS Collaboration**

900. M. Derrick *et al.* (ZEUS), A search for excited fermions in electron-proton collisions at HERA, *Z. Phys.* **C65** (1995) 627-647.
901. M. Derrick *et al.* (ZEUS), Search for excited electrons using the ZEUS detector, *Phys. Lett.* **316B** (1993) 207-218.
902. M. Derrick *et al.* (ZEUS), Search for leptoquarks with the ZEUS detector, *Phys. Lett.* **306B** (1993) 173-186.

Plus 31 other publications in refereed journals with ZEUS from 1992 to 1996.

#### **Refereed Publications with the ARGUS Collaboration**

903. H. Albrecht *et al.* (ARGUS), Physics with ARGUS, *Phys. Rep.* **276** (1996) 223-405.
904. H. Albrecht *et al.* (ARGUS), Observation of  $B^0 - \text{anti-}B^0$  mixing, *Phys. Lett.* **192B** (1987) 245-252.

905. H. Albrecht *et al.* (ARGUS), Observation of inclusive  $D_s$  production in B meson decay, Phys. Lett. **187B** (1987) 425-430.

Plus 46 other publications in refereed journals with ARGUS from 1985 to 1989.