

ATLAS group publications (July 2017- December 2019)

- [1] **ATLAS, CMS** Collaboration, A. Cueto, “Inclusive photon, photon plus jets and diphoton production measurements from ATLAS and CMS”, in *Proceedings, Satellite Workshop: Photon Physics and Simulation at Hadron Colliders, International Conference on the Structure and the Interactions of the Photon (Photon 2019): Frascati, Italy, June 3-7, 2019*, pp. 224–229. 2019.
- [2] **ATLAS** Collaboration, I. Grabowska-Bold, “OBSERVATION OF LIGHT-BY-LIGHT SCATTERING AND MEASUREMENTS OF PHOTON-PHOTON COLLISIONS AT ATLAS”, in *Proceedings, Satellite Workshop: Photon Physics and Simulation at Hadron Colliders, International Conference on the Structure and the Interactions of the Photon (Photon 2019): Frascati, Italy, June 3-7, 2019*, pp. 63–68. 2019.
- [3] **ATLAS** Collaboration, K. Uno, “Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s} = 13$ TeV using 139 fb^{-1} data with the ATLAS detector”, *PoS LeptonPhoton2019* (2019) 186. doi:10.22323/1.367.0186.
- [4] **ATLAS** Collaboration, A. M. Rodriguez Vera and K. Anthony-Kittelsen, “Communicating ATLAS: adapting to an ever-changing media landscape”, *PoS LeptonPhoton2019* (2019) 174. doi:10.22323/1.367.0174.
- [5] **ATLAS** Collaboration, Y. Noguchi, “ATLAS Muon Trigger performance”, *PoS LeptonPhoton2019* (2019) 168. doi:10.22323/1.367.0168.
- [6] **ATLAS** Collaboration, A. Murrone, “Measurements of the Higgs production cross section in the $H \rightarrow \tau\tau$ decay channel with the ATLAS experiment”, *PoS LeptonPhoton2019* (2019) 167. doi:10.22323/1.367.0167.
- [7] **ATLAS** Collaboration, A. L. M. D. Carvalho, “The ATLAS Hardware Track Trigger design towards first prototypes”, *PoS LeptonPhoton2019* (2019) 166. doi:10.22323/1.367.0166.
- [8] **ATLAS** Collaboration, Y. Mino, “ATLAS Level-0 Endcap Muon Trigger for HL-LHC”, *PoS LeptonPhoton2019* (2019) 165. doi:10.22323/1.367.0165.
- [9] **ATLAS** Collaboration, J. H. Lindon, “Searches for dark matter and dark energy produced in association with a jet with the ATLAS detector”, *PoS LeptonPhoton2019* (2019) 159. doi:10.22323/1.367.0159.
- [10] **ATLAS** Collaboration, H. Hibi, “ATLAS Level-1 Endcap Muon Trigger for Run 3”, *PoS LeptonPhoton2019* (2019) 146. doi:10.22323/1.367.0146.

- [11] **ATLAS** Collaboration, A. Elliot, “Implementation of the ATLAS trigger within the ATLAS Multi-Threaded AthenaMT Framework”, *PoS LeptonPhoton2019* (2019) 139. doi:10.22323/1.367.0139.
- [12] **ATLAS** Collaboration, E. Corrigan, “Analytical reinterpretation of ATLAS dark matter mediator searches with final-state jets”, *PoS LeptonPhoton2019* (2019) 133. doi:10.22323/1.367.0133.
- [13] **ATLAS** Collaboration, E. M. Asimakopoulou, “Performance of the ATLAS tau-lepton trigger at the LHC in Run 2”, *PoS LeptonPhoton2019* (2019) 124. doi:10.22323/1.367.0124.
- [14] **ATLAS** Collaboration, A. M. Rodriguez Vera, “Evolution of Regional, Age and Gender Demographics in the ATLAS Collaboration”, *PoS LeptonPhoton2019* (2019) 108. doi:10.22323/1.367.0108.
- [15] **ATLAS** Collaboration, T. Dado, “Direct top-quark decay width measurement at $\sqrt{s} = 13$ TeV with the ATLAS experiment”, *PoS LeptonPhoton2019* (2019) 089. doi:10.22323/1.367.0089.
- [16] **ATLAS** Collaboration, L. Ambroz, “Measurements of the Higgs boson decays to two bottom quarks”, *PoS LeptonPhoton2019* (2019) 085. doi:10.22323/1.367.0085.
- [17] **ATLAS Muon** Collaboration, B. Lefebvre, “Small-Strip Thin Gap Chambers for the Muon Spectrometer Upgrade of the ATLAS Experiment”, *PoS LeptonPhoton2019* (2019) 071. doi:10.22323/1.367.0071.
- [18] **ATLAS Muon** Collaboration, J. Zhu, “The Phase-II upgrade of the ATLAS Muon Spectrometer”, *PoS LeptonPhoton2019* (2019) 070. doi:10.22323/1.367.0070.
- [19] **ATLAS** Collaboration, A. Camplani, “ATLAS Trigger and Data Acquisition Upgrades for the High Luminosity LHC”, *PoS LeptonPhoton2019* (2019) 055. doi:10.22323/1.367.0055.
- [20] **ATLAS** Collaboration, G. Aad et al., “Measurement of isolated-photon plus two-jet production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, arXiv:1912.09866.
- [21] **ATLAS** Collaboration, G. Aad et al., “A measurement of soft-drop jet observables in pp collisions with the ATLAS detector at $\sqrt{s} = 13$ TeV”, arXiv:1912.09837.
- [22] **ATLAS** Collaboration, G. Aad et al., “Search for chargino-neutralino production with mass splittings near the electroweak scale in three-lepton final states in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”, arXiv:1912.08479.

- [23] **ATLAS, CMS** Collaboration, T. J. Khoo, “Searches for electroweak signatures of supersymmetry at ATLAS and CMS”, in *Proceedings, 53rd Rencontres de Moriond on QCD and High Energy Interactions (Moriond QCD 2018): La Thuile, Italy, March 17-24, 2018*, pp. 307–314. 2018.
- [24] **ATLAS, CMS** Collaboration, E. Chapon, “Heavy ion measurements at CMS and ATLAS”, in *Proceedings, 53rd Rencontres de Moriond on QCD and High Energy Interactions (Moriond QCD 2018): La Thuile, Italy, March 17-24, 2018*, pp. 275–278. 2018.
- [25] **ATLAS, CMS** Collaboration, R. Ulrich, “QCD with jets and photons at ATLAS and CMS”, in *Proceedings, 53rd Rencontres de Moriond on QCD and High Energy Interactions (Moriond QCD 2018): La Thuile, Italy, March 17-24, 2018*, pp. 237–240. 2018.
- [26] **ATLAS, CMS** Collaboration, P. Starovoitov, “Soft QCD at ATLAS and CMS”, in *Proceedings, 53rd Rencontres de Moriond on QCD and High Energy Interactions (Moriond QCD 2018): La Thuile, Italy, March 17-24, 2018*, pp. 229–232. 2018.
- [27] **ATLAS, CMS** Collaboration, R. Goldouzian, “Searches for new resonances in dijet and dilepton final states with the ATLAS and CMS detectors”, in *Proceedings, 53rd Rencontres de Moriond on QCD and High Energy Interactions (Moriond QCD 2018): La Thuile, Italy, March 17-24, 2018*, pp. 177–180. 2018.
- [28] **ATLAS, CMS** Collaboration, D. Moran, “Searches with boosted objects at ATLAS and CMS”, in *Proceedings, 53rd Rencontres de Moriond on QCD and High Energy Interactions (Moriond QCD 2018): La Thuile, Italy, March 17-24, 2018*, pp. 151–154. 2018.
- [29] **ATLAS, CMS** Collaboration, K. Bierwagen, “Searches for dark matter at ATLAS and CMS”, in *Proceedings, 53rd Rencontres de Moriond on QCD and High Energy Interactions (Moriond QCD 2018): La Thuile, Italy, March 17-24, 2018*, pp. 143–146. 2018.
- [30] **ATLAS, CMS** Collaboration, A. E. Barton, “Heavy Flavour Production and Properties at CMS and ATLAS”, in *Proceedings, 53rd Rencontres de Moriond on QCD and High Energy Interactions (Moriond QCD 2018): La Thuile, Italy, March 17-24, 2018*, pp. 57–60. 2018.
- [31] **ATLAS, CMS** Collaboration, J. M. Hogan, “Searches with top quarks”, in *Proceedings, 53rd Rencontres de Moriond on QCD and High Energy Interactions (Moriond QCD 2018): La Thuile, Italy, March 17-24, 2018*, pp. 37–40. 2018.
- [32] **ATLAS, CMS** Collaboration, J. Glatzer, “ $t\bar{t}X$ Production at ATLAS and CMS”, in *Proceedings, 53rd Rencontres de Moriond on QCD and High Energy Interactions (Moriond QCD 2018): La Thuile, Italy, March 17-24, 2018*, pp. 33–36. 2018.

- [33] **ATLAS, CMS** Collaboration, M. Schröder, “Higgs Physics with Hadronic Signatures at ATLAS and CMS”, in *Proceedings, 53rd Rencontres de Moriond on QCD and High Energy Interactions (Moriond QCD 2018): La Thuile, Italy, March 17-24, 2018*, pp. 7–10. 2018.
- [34] **ATLAS** Collaboration, W. S. Chan, “Search for lepton flavour violation with the ATLAS detector”, *PoS NuFACT2018* (2018) 131. doi:10.22323/1.341.0131.
- [35] **ATLAS** Collaboration, K. Petukhova, “Calibration and Performance of the ATLAS Tile Calorimeter”, *J. Phys. Conf. Ser.* **1390** (2019), no. 1, 012107. doi:10.1088/1742-6596/1390/1/012107.
- [36] **ATLAS** Collaboration, J. Mellenthin, “Observation of the production”, *J. Phys. Conf. Ser.* **1390** (2019), no. 1, 012042. doi:10.1088/1742-6596/1390/1/012042.
- [37] **ATLAS, CMS** Collaboration, J. Erdmann, “Beyond Standard Model searches by ATLAS and CMS”, *J. Phys. Conf. Ser.* **1390** (2019), no. 1, 012041. doi:10.1088/1742-6596/1390/1/012041.
- [38] **ATLAS, CMS** Collaboration, R. Chistov, “Heavy Flavor Physics at ATLAS and CMS”, *J. Phys. Conf. Ser.* **1390** (2019), no. 1, 012033. doi:10.1088/1742-6596/1390/1/012033.
- [39] **ATLAS** Collaboration, A. Vermeulen, “Reconstruction techniques in Supersymmetry searches with the ATLAS detector”, *J. Phys. Conf. Ser.* **1390** (2019), no. 1, 012037. doi:10.1088/1742-6596/1390/1/012037.
- [40] **ATLAS** Collaboration, Y. Noguchi, “Observation of the Higgs decay to beauty quarks”, *J. Phys. Conf. Ser.* **1390** (2019), no. 1, 012046. doi:10.1088/1742-6596/1390/1/012046.
- [41] **ATLAS** Collaboration, K. Todome, “Searches for electroweak production of higgsino with ATLAS”, *J. Phys. Conf. Ser.* **1390** (2019), no. 1, 012043. doi:10.1088/1742-6596/1390/1/012043.
- [42] **ATLAS, CMS** Collaboration, I. Tsukerman, “Measurements of the Higgs boson by ATLAS and CMS”, *J. Phys. Conf. Ser.* **1390** (2019), no. 1, 012030. doi:10.1088/1742-6596/1390/1/012030.
- [43] **ATLAS** Collaboration, P. Janus, “Measurement of electroweak boson production in pp, p+Pb and Pb+Pb collisions with the ATLAS detector”, *J. Phys. Conf. Ser.* **1390** (2019), no. 1, 012023. doi:10.1088/1742-6596/1390/1/012023.
- [44] **ATLAS** Collaboration, J. Kremer, “Measurements of quarkonia and open heavy-flavour production in heavy-ion collisions with the ATLAS detector”, *J. Phys. Conf. Ser.* **1390** (2019), no. 1, 012021. doi:10.1088/1742-6596/1390/1/012021.
- [45] **ATLAS, CMS** Collaboration, A. Savin, “Electroweak measurements at High-Luminosity LHC”, *PoS LHCP2019* (2019) 242. doi:10.22323/1.350.0242.

- [46] **ATLAS, CMS** Collaboration, L. Marchese, “Lepton and Photon reconstruction and identification performance in ATLAS and CMS”, *PoS LHCP2019* (2019) 237. doi:10.22323/1.350.0237.
- [47] **ATLAS** Collaboration, D. Derendarz, “Recent results on collectivity and correlations in heavy-ion collisions from ATLAS”, *PoS LHCP2019* (2019) 222. doi:10.22323/1.350.0222.
- [48] **ATLAS, CMS** Collaboration, V. M. Cairo, “Recent soft QCD results from ATLAS and CMS”, *PoS LHCP2019* (2019) 217. doi:10.22323/1.350.0217.
- [49] **ATLAS** Collaboration, V. M. Cairo, “Probing $g \rightarrow b\bar{b}$ with inclusive jets and V+jets with ATLAS”, *PoS LHCP2019* (2019) 210. doi:10.22323/1.350.0210.
- [50] **ATLAS, CMS** Collaboration, J. A. Mejia Guisao, “ATLAS and CMS measurements on spectroscopy”, *PoS LHCP2019* (2019) 193. doi:10.22323/1.350.0193.
- [51] **ATLAS** Collaboration, O. Nackenhorst, “Searches for new physics in events with top-quark pairs in ATLAS”, *PoS LHCP2019* (2019) 185. doi:10.22323/1.350.0185.
- [52] **ATLAS** Collaboration, S. Mehlhase, “Searches for long-lived particles in ATLAS”, *PoS LHCP2019* (2019) 176. doi:10.22323/1.350.0176.
- [53] **ATLAS** Collaboration, L. Longo, “Searches for charginos and neutralinos in ATLAS”, *PoS LHCP2019* (2019) 173. doi:10.22323/1.350.0173.
- [54] **ATLAS, CMS** Collaboration, A. Mann, “Searches for Tau Sleptons at the Large Hadron Collider”, *PoS LHCP2019* (2019) 172. doi:10.22323/1.350.0172.
- [55] **ATLAS** Collaboration, L. Mijovic, “Latest ATLAS measurements of inclusive and differential top-quark pair production cross-sections”, *PoS LHCP2019* (2019) 140. doi:10.22323/1.350.0140.
- [56] **ATLAS, CMS** Collaboration, C. Kato, “Status and prospects of STXS measurements in ATLAS and CMS”, *PoS LHCP2019* (2019) 133. doi:10.22323/1.350.0133.
- [57] **ATLAS, CMS** Collaboration, T. Sculac, “Differential measurements of Higgs production at ATLAS and CMS”, *PoS LHCP2019* (2019) 132. doi:10.22323/1.350.0132.
- [58] **ATLAS, CMS** Collaboration, L. Mastrolorenzo, “Higgs production in the VH mode at ATLAS and CMS”, *PoS LHCP2019* (2019) 126. doi:10.22323/1.350.0126.
- [59] **ATLAS, CMS** Collaboration, P. Chang, “Studies of rare electroweak multiboson interactions at the LHC”, *PoS LHCP2019* (2019) 107. doi:10.22323/1.350.0107.

- [60] **ATLAS, CMS** Collaboration, M. Moreno Llacer, “Studies of rare top quark processes: tZq , $t\gamma q$, $t\bar{t}\bar{t}$ flavour changing neutral currents”, *PoS LHCP2019* (2019) 106. doi:10.22323/1.350.0106.
- [61] **ATLAS, CMS** Collaboration, L. Finco, “Rare and exotic Higgs decays, including new scalars”, *PoS LHCP2019* (2019) 103. doi:10.22323/1.350.0103.
- [62] **ATLAS, CMS** Collaboration, L. Cadamuro, “Higgs boson couplings and properties”, *PoS LHCP2019* (2019) 101. doi:10.22323/1.350.0101.
- [63] **ATLAS, CMS** Collaboration, D. Zanzi, “Precision Electroweak Measurements in ATLAS and CMS”, *PoS LHCP2019* (2019) 097. doi:10.22323/1.350.0097.
- [64] **ATLAS, CMS** Collaboration, J. Llorente Merino, “Production of top quarks, jets and photons”, *PoS LHCP2019* (2019) 087. doi:10.22323/1.350.0087.
- [65] **ATLAS Muon** Collaboration, H. Asada, “Upgrade of the ATLAS Thin Gap Chamber Electronics for HL-LHC runs”, *PoS LHCP2019* (2019) 065. doi:10.22323/1.350.0065.
- [66] **ATLAS** Collaboration, A. Smykiewicz, “Tracking performance with the HL-LHC ATLAS detector”, *PoS LHCP2019* (2019) 064. doi:10.22323/1.350.0064.
- [67] **ATLAS** Collaboration, P. Pasuwan, “Track-counting luminosity measurements in ATLAS”, *PoS LHCP2019* (2019) 063. doi:10.22323/1.350.0063.
- [68] **ATLAS** Collaboration, K. W. Janas, “The track-based alignment of the ALFA Roman Pot detectors of the ATLAS experiment”, *PoS LHCP2019* (2019) 060. doi:10.22323/1.350.0060.
- [69] **ATLAS** Collaboration, C. D. Sebastiani, “Search for dark-photons decaying to lepton-jets with the ATLAS detector at LHC”, *PoS LHCP2019* (2019) 046. doi:10.22323/1.350.0046.
- [70] **ATLAS** Collaboration, D. Vannicola, “Reconstruction and identification of high-pT muons in $\sqrt{s} = 13$ TeV proton-proton collisions with the ATLAS detector”, *PoS LHCP2019* (2019) 041. doi:10.22323/1.350.0041.
- [71] **ATLAS** Collaboration, J. A. Kremer, “Production of W^\pm bosons in pp collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector”, *PoS LHCP2019* (2019) 037. doi:10.22323/1.350.0037.
- [72] **ATLAS** Collaboration, S. Mehlhase and K. Anthony, “Communicating ATLAS: adapting to an ever-changing media landscape”, *PoS LHCP2019* (2019) 012. doi:10.22323/1.350.0012.
- [73] **ATLAS** Collaboration, E. E. Khoda, “ATLAS pixel cluster splitting using Mixture Density Networks”, *PoS LHCP2019* (2019) 009. doi:10.22323/1.350.0009.

- [74] **ATLAS** Collaboration, A. S. Pineda and S. Mehlhase, “ATLAS Outreach: on the dissemination of High Energy Physics and Computer Sciences”, *PoS LHCP2019* (2019) 008. doi:10.22323/1.350.0008.
- [75] **ATLAS** Collaboration, R. L. Hayes, “ATLAS Muon Trigger performance”, *PoS LHCP2019* (2019) 007. doi:10.22323/1.350.0007.
- [76] **ATLAS** Collaboration, I. K. Lakomic, “Study of the proton reconstruction efficiency with the ALFA detector using an overlay technique of Monte Carlo signal events with zero-bias collider data.”, *PoS LHCP2019* (2019) 002. doi:10.22323/1.350.0002.
- [77] **ATLAS** Collaboration, G. Aad et al., “Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, arXiv:1912.02844.
- [78] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the relative B_c^\pm/B^\pm production cross section with the ATLAS detector at $\sqrt{s} = 8$ TeV”, arXiv:1912.02672.
- [79] **ATLAS** Collaboration, L. Rossini, “Modelling radiation damage effects to pixel sensors for the ATLAS Detector”, *Nuovo Cim.* **C42** (2019), no. 4, 203. doi:10.1393/ncc/i2019-19203-x.
- [80] **ATLAS** Collaboration, L. Rossini, “Searches for supersymmetric higgsinos with the ATLAS detector”, *Nuovo Cim.* **C42** (2019), no. 4, 200. doi:10.1393/ncc/i2019-19200-1.
- [81] **ATLAS** Collaboration, A. Mirto, “Search for direct top squark pair production in final states with two leptons in $\sqrt{s} = 13$ TeV pp collision with the ATLAS detector”, *Nuovo Cim.* **C42** (2019), no. 4, 199. doi:10.1393/ncc/i2019-19199-1.
- [82] **ATLAS** Collaboration, S. Manzonion, “Measurement of the Higgs boson properties in the diphoton final state with the ATLAS detector”, *Nuovo Cim.* **C42** (2019), no. 4, 165. doi:10.1393/ncc/i2019-19165-y.
- [83] **ATLAS** Collaboration, G. Mancini, “Construction and test of the MicroMegas chambers for the upgrade of the ATLAS Muon Spectrometer”, *Nuovo Cim.* **C42** (2019), no. 4, 187. doi:10.1393/ncc/i2019-19187-5.
- [84] **ATLAS ITk Italia** Collaboration, F. Lasagni Manghi, “The phase II ATLAS Pixel: The Inner Tracker (ITk)”, *Nuovo Cim.* **C42** (2019), no. 4, 183. doi:10.1393/ncc/i2019-19183-9.
- [85] **ATLAS** Collaboration, G. Aad et al., “Searches for electroweak production of supersymmetric particles with compressed mass spectra in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”, arXiv:1911.12606.

- [86] **ATLAS** Collaboration, G. Aad et al., “Search for long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13$ TeV decaying into displaced hadronic jets in the ATLAS inner detector and muon spectrometer”, [arXiv:1911.12575](https://arxiv.org/abs/1911.12575).
- [87] **ATLAS** Collaboration, I. Tsukerman, “Highlights from the ATLAS experiment at the CERN LHC”, *PoS FRAPWS2018* (2018) 003. doi:10.22323/1.331.0003.
- [88] **ATLAS, CMS, LHCb** Collaboration, N. Sur, “Heavy Flavour Spectroscopy and Exotic States at LHC”, *Springer Proc. Phys.* **234** (2019) 157–166.
- [89] **ATLAS, CMS, LHCb** Collaboration, K. Mazumdar, “Status of $B_{d,s} \rightarrow \mu^+ \mu^-$ at the LHC”, *Springer Proc. Phys.* **234** (2019) 11–18.
- [90] **ATLAS, CMS** Collaboration, A. Castro, “Top Quark Mass Measurements in ATLAS and CMS”, in *12th International Workshop on Top Quark Physics (TOP2019) Beijing, China, September 22-27, 2019*. 2019. [arXiv:1911.09437](https://arxiv.org/abs/1911.09437).
- [91] **ATLAS** Collaboration, B. Hooberman, “First tracking performance results from the ATLAS Fast Tracker”, in *Connecting the Dots and Workshop on Intelligent Trackers (CTD/WIT 2019) Valencia, Valencia, Spain, April 2-5, 2019*. 2019. [arXiv:1911.07962](https://arxiv.org/abs/1911.07962).
- [92] **ATLAS** Collaboration, R. Wolff, “Higgs boson production in association with a top quark pair at $\sqrt{s} = 13$ TeV with the ATLAS detector”, in *Proceedings, 53rd Rencontres de Moriond on Electroweak Interactions and Unified Theories (Moriond EW 2018): La Thuile, Italy, March 10-17, 2018*, pp. 407–410. 2018.
- [93] **ATLAS** Collaboration, F. Lo Sterzo, “Search for dark matter in the mono-x final states ($x = \text{jet}, Z, W, h$) with ATLAS”, in *Proceedings, 53rd Rencontres de Moriond on Electroweak Interactions and Unified Theories (Moriond EW 2018): La Thuile, Italy, March 10-17, 2018*, pp. 201–206. 2018.
- [94] **ATLAS** Collaboration, D. Barberis, “Squark and gluino searches with R-parity violating decays and long-lived particles in ATLAS”, in *Proceedings, 53rd Rencontres de Moriond on Electroweak Interactions and Unified Theories (Moriond EW 2018): La Thuile, Italy, March 10-17, 2018*, pp. 181–186. 2018.
- [95] **ATLAS** Collaboration, A. S. Mete, “Searches for Higgsinos and related challenges in ATLAS”, in *Proceedings, 53rd Rencontres de Moriond on Electroweak Interactions and Unified Theories (Moriond EW 2018): La Thuile, Italy, March 10-17, 2018*, pp. 167–172. 2018.
- [96] **ATLAS, CMS** Collaboration, M. Kagan, “Di-Higgs results from the ATLAS and CMS experiments”, in *Proceedings, 53rd Rencontres de Moriond on Electroweak Interactions and Unified Theories (Moriond EW 2018): La Thuile, Italy, March 10-17, 2018*, pp. 135–140. 2018.

- [97] **ATLAS** Collaboration, I. Nomidis, “Higgs measurements in the diboson final state”, in *Proceedings, 53rd Rencontres de Moriond on Electroweak Interactions and Unified Theories (Moriond EW 2018): La Thuile, Italy, March 10-17, 2018*, pp. 129–134. 2018.
- [98] **ATLAS, CMS** Collaboration, D. Sperka, “Measurements of the BEH scalar mass and other couplings in ATLAS and CMS”, in *Proceedings, 53rd Rencontres de Moriond on Electroweak Interactions and Unified Theories (Moriond EW 2018): La Thuile, Italy, March 10-17, 2018*, pp. 123–128. 2018.
- [99] **ATLAS** Collaboration, J. Nielsen, “Associated production of $H(b\bar{b}, c\bar{c})$ with a W or a Z in ATLAS”, in *Proceedings, 53rd Rencontres de Moriond on Electroweak Interactions and Unified Theories (Moriond EW 2018): La Thuile, Italy, March 10-17, 2018*, pp. 111–116. 2018.
- [100] **ATLAS** Collaboration, D. Zanzi, “Measurement of the Higgs Boson Coupling to the Top-quark in ATLAS”, in *Proceedings, 53rd Rencontres de Moriond on Electroweak Interactions and Unified Theories (Moriond EW 2018): La Thuile, Italy, March 10-17, 2018*, pp. 105–110. 2018.
- [101] **ATLAS** Collaboration, G. Aad et al., “Search for direct stau production in events with two hadronic τ -leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”, [arXiv:1911.06660](https://arxiv.org/abs/1911.06660).
- [102] **ATLAS** Collaboration, “Measurement of suppression of large-radius jets and its dependence on substructure in Pb+Pb at 5.02 TeV by ATLAS detector”. ATLAS-CONF-2019-056, 2019.
- [103] **ATLAS** Collaboration, Y. Takubo, “Single event upsets in the ATLAS IBL frontend ASICs”, *JINST* **14** (2019), no. 11, C11004. doi:10.1088/1748-0221/14/11/C11004.
- [104] **ATLAS** Collaboration, G. Aad et al., “ATLAS data quality operations and performance for 2015-2018 data-taking”, [arXiv:1911.04632](https://arxiv.org/abs/1911.04632).
- [105] **ATLAS** Collaboration, G. Aad et al., “Measurement of the $Z(\rightarrow \ell^+\ell^-)\gamma$ production cross-section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, [arXiv:1911.04813](https://arxiv.org/abs/1911.04813).
- [106] **ATLAS** Collaboration, H. Santos, “Overview of Heavy Ions from the ATLAS Experiment”, *Acta Phys. Polon.* **B50** (2019) 1217–1228. doi:10.5506/APhysPolB.50.1217.
- [107] **ATLAS** Collaboration, A. Ogrodnik, “Light-by-light Scattering in Lead–Lead Collisions in the ATLAS Experiment”, *Acta Phys. Polon.* **B50** (2019) 1159–1164. doi:10.5506/APhysPolB.50.1159.
- [108] **ATLAS** Collaboration, G. Aad et al., “Evidence for the production of three massive vector bosons with the ATLAS detector”, *Phys. Lett.* **B798** (2019) 134913, [arXiv:1903.10415](https://arxiv.org/abs/1903.10415). doi:10.1016/j.physletb.2019.134913.

- [109] **ATLAS** Collaboration, “Longitudinal flow decorrelations in Xe+Xe collisions at $\sqrt{s_{\text{NN}}} = 5.44$ TeV with the ATLAS detector”. ATLAS-CONF-2019-055, 2019.
- [110] **ATLAS** Collaboration, “Production of $\Upsilon(nS)$ mesons in Pb+Pb and pp collisions at 5.02 TeV with ATLAS”. ATLAS-CONF-2019-054, 2019.
- [111] **ATLAS** Collaboration, “Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in Pb+Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV with the ATLAS detector”. ATLAS-CONF-2019-053, 2019.
- [112] **ATLAS** Collaboration, “Measurement of Z -tagged charged-particle yields in 5.02 TeV Pb+Pb and pp collisions with the ATLAS detector”. ATLAS-CONF-2019-052, 2019.
- [113] **ATLAS** Collaboration, “Measurement of non-exclusive dimuon pairs produced via $\gamma\gamma$ scattering in Pb+Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV with the ATLAS detector”. ATLAS-CONF-2019-051, 2019.
- [114] **ATLAS** Collaboration, F. Berghaus et al., “Sim@P1: Using Cloudscheduler for offline processing on the ATLAS HLT farm”, *EPJ Web Conf.* **214** (2019) 07021. doi:10.1051/epjconf/201921407021.
- [115] **ATLAS** Collaboration, A. Gamel, B. Roland, U. Schnoor et al., “Integration of a heterogeneous compute resource in the ATLAS workflow”, *EPJ Web Conf.* **214** (2019) 07014. doi:10.1051/epjconf/201921407014.
- [116] **ATLAS** Collaboration, F. Berghaus, T. Wegner, M. Lassnig et al., “Integrating a dynamic data federation into the ATLAS distributed data management system”, *EPJ Web Conf.* **214** (2019) 07009. doi:10.1051/epjconf/201921407009.
- [117] **ATLAS** Collaboration, D. Benjamin, T. Childers, D. Lesny et al., “Building and using containers at HPC centres for the ATLAS experiment”, *EPJ Web Conf.* **214** (2019) 07005. doi:10.1051/epjconf/201921407005.
- [118] **ATLAS** Collaboration, R. Vamosi, M. Lassnig, and E. Schikuta, “Data Allocation Service ADAS for the Data Rebalancing of ATLAS”, *EPJ Web Conf.* **214** (2019) 06012. doi:10.1051/epjconf/201921406012.
- [119] **ATLAS Computing** Collaboration, W. Leight, P.-F. Giraud, P. Kluit et al., “New Fitting Concept in ATLAS muon tracking for the LHC Run-2”, *EPJ Web Conf.* **214** (2019) 06006. doi:10.1051/epjconf/201921406006.
- [120] **ATLAS** Collaboration, J. Odier, F. Lambert, and J. Fulachier, “The ATLAS Metadata Interface (AMI) 2.0 metadata ecosystem: new design principles and features”, *EPJ Web Conf.* **214** (2019) 05046. doi:10.1051/epjconf/201921405046.
- [121] **ATLAS** Collaboration, I. Asensi Tortajada, A. Rummler, G. Salukvadze et al., “ATLAS technical coordination expert system”, *EPJ Web Conf.* **214** (2019) 05035. doi:10.1051/epjconf/201921405035.

- [122] **ATLAS** Collaboration, C. Leggett, I. Shapoval, S. Snyder et al., “Conditions DataHandling in the Multithreaded ATLAS Framework”, *EPJ Web Conf.* **214** (2019) 05031. doi:10.1051/epjconf/201921405031.
- [123] **ATLAS** Collaboration, O. Jinnouchi, “SUSY searches with the ATLAS detector”, *J. Phys. Conf. Ser.* **1258** (2019), no. 1, 012008. doi:10.1088/1742-6596/1258/1/012008.
- [124] **CMS, ATLAS** Collaboration, S. Kaur, “Standard Model: Electroweak Physics with CMS and ATLAS at 13 TeV”, *J. Phys. Conf. Ser.* **1258** (2019), no. 1, 012015. doi:10.1088/1742-6596/1258/1/012015.
- [125] **ATLAS** Collaboration, Z. Baranowski et al., “A prototype for the evolution of ATLAS EventIndex based on Apache Kudu storage”, *EPJ Web Conf.* **214** (2019) 04057. doi:10.1051/epjconf/201921404057.
- [126] **ATLAS** Collaboration, M. Barisits et al., “Evolution of the open-source data management system Rucio for LHC Run-3 and beyond ATLAS”, *EPJ Web Conf.* **214** (2019) 04054. doi:10.1051/epjconf/201921404054.
- [127] **ATLAS** Collaboration, L. Rinaldi, A. Formica, E. J. Gallas et al., “Conditions evolution of an experiment in mid-life, without the crisis (in ATLAS)”, *EPJ Web Conf.* **214** (2019) 04052. doi:10.1051/epjconf/201921404052.
- [128] **ATLAS** Collaboration, L. Rinaldi, E. J. Gallas, and A. Formica, “Optimizing access to conditions data in ATLAS event data processing”, *EPJ Web Conf.* **214** (2019) 04051. doi:10.1051/epjconf/201921404051.
- [129] **ATLAS** Collaboration, P. Vasileva, A. Formica, and G. Dimitrov, “The ATLAS wide-range database and application monitoring”, *EPJ Web Conf.* **214** (2019) 04036. doi:10.1051/epjconf/201921404036.
- [130] **ATLAS** Collaboration, A. Brino, A. Di Girolamo, W. Guan et al., “Towards an Event Streaming Service for ATLAS data processing”, *EPJ Web Conf.* **214** (2019) 04034. doi:10.1051/epjconf/201921404034.
- [131] **ATLAS** Collaboration, A. Formica, R. M. Bianchi, and A. De Salvo, “A new mechanism to use the Conditions Database REST API to serve the ATLAS detector description”, *EPJ Web Conf.* **214** (2019) 04032. doi:10.1051/epjconf/201921404032.
- [132] **ATLAS** Collaboration, V. Begy, M. Barisits, M. Lassnig et al., “Remote data access in computational jobs on the ATLAS data grid”, *EPJ Web Conf.* **214** (2019) 04028. doi:10.1051/epjconf/201921404028.
- [133] **ATLAS** Collaboration, T. Maier, T. Beermann, G. Duckeck et al., “Performance and impact of dynamic data placement in ATLAS”, *EPJ Web Conf.* **214** (2019) 04025. doi:10.1051/epjconf/201921404025.

- [134] **ATLAS** Collaboration, M. Barisits et al., “The Data Ocean project”, *EPJ Web Conf.* **214** (2019) 04020. doi:10.1051/epjconf/201921404020.
- [135] **ATLAS** Collaboration, E. Fullana Torregrosa et al., “Grid production with the ATLAS Event Service”, *EPJ Web Conf.* **214** (2019) 04016. doi:10.1051/epjconf/201921404016.
- [136] **ATLAS** Collaboration, A. F. Casani, D. Barberis, J. Sanchez et al., “Distributed Data Collection for the Next Generation ATLAS EventIndex Project”, *EPJ Web Conf.* **214** (2019) 04010. doi:10.1051/epjconf/201921404010.
- [137] **ATLAS** Collaboration, A. Hanushevsky et al., “Xcache in the ATLAS Distributed Computing Environment”, *EPJ Web Conf.* **214** (2019) 04008. doi:10.1051/epjconf/201921404008.
- [138] **ATLAS** Collaboration, F. Lambert, J. Odier, and J. Fulachier, “Broadcasting dynamic metadata content to external web pages using AMI (ATLAS Metadata Interface) embeddable components”, *EPJ Web Conf.* **214** (2019) 04004. doi:10.1051/epjconf/201921404004.
- [139] **ATLAS** Collaboration, C. J. Lee, A. Di Girolamo, J. Elmsheuser et al., “ATLAS Distributed Computing: Its Central Services core”, *EPJ Web Conf.* **214** (2019) 03061. doi:10.1051/epjconf/201921403061.
- [140] **ATLAS** Collaboration, P. Nilsson, A. Anisenkov, D. Benjamin et al., “The next generation PanDA Pilot for and beyond the ATLAS experiment”, *EPJ Web Conf.* **214** (2019) 03054. doi:10.1051/epjconf/201921403054.
- [141] **ATLAS** Collaboration, F. Barreiro Magino, D. Cameron, A. Di Girolamo et al., “Operation of the ATLAS Distributed Computing”, *EPJ Web Conf.* **214** (2019) 03049. doi:10.1051/epjconf/201921403049.
- [142] **ATLAS** Collaboration, F. Barreiro et al., “The future of distributed computing systems in ATLAS: Boldly venturing beyond grids”, *EPJ Web Conf.* **214** (2019) 03047. doi:10.1051/epjconf/201921403047.
- [143] **ATLAS** Collaboration, F. Barreiro Megino, A. Di Girolamo, K. De et al., “ATLAS Global Shares implementation in PanDA”, *EPJ Web Conf.* **214** (2019) 03025. doi:10.1051/epjconf/201921403025.
- [144] **ATLAS** Collaboration, J. Elmsheuser, A. Di Girolamo, A. Filipcic et al., “ATLAS grid workflow performance optimization”, *EPJ Web Conf.* **214** (2019) 03021. doi:10.1051/epjconf/201921403021.
- [145] **ATLAS** Collaboration, J. Elmsheuser and A. Di Girolamo, “Overview of the ATLAS distributed computing system”, *EPJ Web Conf.* **214** (2019) 03010. doi:10.1051/epjconf/201921403010.
- [146] **ATLAS** Collaboration, M. Titov, M. Borodin, D. Golubkov et al., “Advanced Analytics service to enhance workflow control at the ATLAS Production System”, *EPJ Web Conf.* **214** (2019) 03007. doi:10.1051/epjconf/201921403007.

- [147] **ATLAS** Collaboration, M. Svatos, J. Chudoba, and P. Vokac, “ATLAS utilisation of the Czech national HPC center”, *EPJ Web Conf.* **214** (2019) 03005. doi:10.1051/epjconf/201921403005.
- [148] **ATLAS** Collaboration, T. Novak, “New techniques for pile-up simulation in ATLAS”, *EPJ Web Conf.* **214** (2019) 02044. doi:10.1051/epjconf/201921402044.
- [149] **ATLAS** Collaboration, T. Bold, W. Lampl, R. Narayan et al., “Upgrade of ATLAS data quality monitoring for multithreaded reconstruction”, *EPJ Web Conf.* **214** (2019) 02041. doi:10.1051/epjconf/201921402041.
- [150] **ATLAS Muon** Collaboration, G. L. Alberghi, “Status of the present ATLAS RPC system and overview towards HL-LHC”, *JINST* **14** (2019), no. 10, C10018. doi:10.1088/1748-0221/14/10/C10018.
- [151] **ATLAS** Collaboration, S. A. Merkt, R. M. Bianchi, J. Boudreau et al., “Going standalone and platform-independent, an example from recent work on the ATLAS Detector Description and interactive data visualization”, *EPJ Web Conf.* **214** (2019) 02035. doi:10.1051/epjconf/201921402035.
- [152] **ATLAS** Collaboration, R. M. Bianchi, C. A. Bourdarios, M. Hovdesven et al., “Virtual Reality and game engines for interactive data visualization and event displays in HEP, an example from the ATLAS experiment”, *EPJ Web Conf.* **214** (2019) 02013. doi:10.1051/epjconf/201921402013.
- [153] **ATLAS Liquid Argon Calorimeter Group** Collaboration, N. Madysa, “AREUS: A Software Framework for ATLAS Readout Electronics Upgrade Simulation”, *EPJ Web Conf.* **214** (2019) 02006. doi:10.1051/epjconf/201921402006.
- [154] **ATLAS** Collaboration, K. Bouaouda, S. Schmitt, and D. Benchekroun, “The Impact of Applying Wildcards to Disabled Modules for FTK Pattern Banks on Efficiency and Data Flow”, *EPJ Web Conf.* **214** (2019) 01039. doi:10.1051/epjconf/201921401039.
- [155] **ATLAS** Collaboration, K. Takeda, “Software-based data acquisition system for Level-1 end-cap muon trigger in Atlas Run-3”, *EPJ Web Conf.* **214** (2019) 01036. doi:10.1051/epjconf/201921401036.
- [156] **ATLAS** Collaboration, J. Montejo Berlingen, “The ATLAS trigger menu design for higher luminosities in Run 2”, *EPJ Web Conf.* **214** (2019) 01031. doi:10.1051/epjconf/201921401031.
- [157] **ATLAS Tile Calorimeter System** Collaboration, J. Smiesko, “An integrated system for data quality and conditions assessment for the ATLAS Tile Calorimeter - Tile-in-One”, *EPJ Web Conf.* **214** (2019) 01030. doi:10.1051/epjconf/201921401030.

- [158] **ATLAS TDAQ** Collaboration, N. Ilic, J. Vermeulen, and S. Kolos, “FELIX: the new detector interface for the ATLAS experiment”, *EPJ Web Conf.* **214** (2019) 01023. doi:10.1051/epjconf/201921401023.
- [159] **ATLAS** Collaboration, S. Sottocornola, “Software Based Control and Monitoring of a Hardware Based Track Reconstruction System for the ATLAS Experiment”, *EPJ Web Conf.* **214** (2019) 01021. doi:10.1051/epjconf/201921401021.
- [160] **ATLAS** Collaboration, E. Gouveia, “Triggering on Hadronic Signatures in the ATLAS Experiment-Developments for 2017 and 2018”, *EPJ Web Conf.* **214** (2019) 01017. doi:10.1051/epjconf/201921401017.
- [161] **ATLAS Tile Calorimeter System** Collaboration, X. Yue, “Data Acquisition and Software for the ATLAS Tile Calorimeter Phase-II Upgrade Demonstrator”, *EPJ Web Conf.* **214** (2019) 01004. doi:10.1051/epjconf/201921401004.
- [162] **ATLAS** Collaboration, G. Aad et al., “Evidence for electroweak production of two jets in association with a $Z\gamma$ pair in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, arXiv:1910.09503.
- [163] **ATLAS** Collaboration, G. Aad et al., “Measurement of the $t\bar{t}$ production cross-section and lepton differential distributions in $e\mu$ dilepton events from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, arXiv:1910.08819.
- [164] **ATLAS** Collaboration, I. Sanderswood, “Development of ATLAS Primary Vertex Reconstruction for LHC Run 3”, in *Connecting the Dots and Workshop on Intelligent Trackers (CTD/WIT 2019) Valencia, Valencia, Spain, April 2-5, 2019*. 2019. arXiv:1910.08405.
- [165] **ATLAS** Collaboration, G. Aad et al., “Search for new resonances in mass distributions of jet pairs using 139 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, arXiv:1910.08447.
- [166] **ATLAS** Collaboration, M. Safdari, “Primary Vertex Selection in VBF Higgs to Invisibles at the HL-LHC with the ATLAS Experiment”, 2019. arXiv:1910.07681.
- [167] **ATLAS** Collaboration, “Test of CP invariance in vector-boson fusion production of the Higgs boson in the $H \rightarrow \tau\tau$ channel in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-050, 2019.
- [168] **ATLAS** Collaboration, “Constraints on the Higgs boson self-coupling from the combination of single-Higgs and double-Higgs production analyses performed with the ATLAS experiment”. ATLAS-CONF-2019-049, 2019.
- [169] **ATLAS** Collaboration, “Study of $J/\psi p$ resonances in the $\Lambda_b^0 \rightarrow J/\psi p K^-$ decays in pp collisions at $\sqrt{s}=7$ and 8TeV with the ATLAS detector”. ATLAS-CONF-2019-048, 2019.

- [170] **ATLAS** Collaboration, “Measurement of the production cross-section of J/ψ and $\psi(2S)$ mesons at high transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-047, 2019.
- [171] **ATLAS** Collaboration, “Measurement of the top quark mass using a leptonic invariant mass in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-046, 2019.
- [172] **ATLAS** Collaboration, “Analysis of $t\bar{t}H$ and $t\bar{t}W$ production in multilepton final states with the ATLAS detector”. ATLAS-CONF-2019-045, 2019.
- [173] **ATLAS** Collaboration, J. Wollrath, “Sensor shapes and weak modes of the ATLAS Inner Detector track-based alignment”, in *Connecting the Dots and Workshop on Intelligent Trackers (CTD/WIT 2019) Valencia, Valencia, Spain, April 2-5, 2019*. 2019. arXiv:1910.06060.
- [174] **ATLAS** Collaboration, P. McCormack and M. Ganai, “Identifying Merged Tracks in Dense Environments with Machine Learning”, in *Connecting the Dots and Workshop on Intelligent Trackers (CTD/WIT 2019) Valencia, Valencia, Spain, April 2-5, 2019*. 2019. arXiv:1910.06286.
- [175] **ATLAS** Collaboration, M. Aaboud et al., “Determination of jet calibration and energy resolution in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector”, arXiv:1910.04482.
- [176] **ATLAS** Collaboration, M. Svatos, A. De Salvo, A. Dewhurst et al., “Understanding the evolution of conditions data access through Frontier for the ATLAS Experiment”, *EPJ Web Conf.* **214** (2019) 03020. doi:10.1051/epjconf/201921403020.
- [177] **ATLAS, CMS** Collaboration, K. Pedro, “Searches for New Physics with Unconventional Signatures at ATLAS and CMS”, arXiv:1912.04180.
- [178] **ATLAS Tile Calorimeter System** Collaboration, T. Mkrtchyan, “A radiation tolerant readout link and control board for the Phase-II upgrade of the ATLAS Hadronic Tile Calorimeter”, in *Proceedings, 2018 IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC 2018): Sydney, Australia, November 10-17, 2018*, p. 8824450. 2019.
- [179] **ATLAS Liquid Argon Calorimeter Group** Collaboration, H. Xu, “Development of the ATLAS Liquid Argon Calorimeter Readout Electronics for the HL-LHC”, in *Proceedings, 2018 IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC 2018): Sydney, Australia, November 10-17, 2018*, p. 8824693. 2019.
- [180] **ATLAS** Collaboration, R. Simoniello, “The ATLAS Level-1 Topological Processor: from design to routine usage in Run-2”, in *Proceedings, 2018 IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC 2018): Sydney, Australia, November 10-17, 2018*, p. 8824280. 2019.

- [181] **ATLAS** Collaboration, L. Brenner, “Continuous signal modelling in a multidimensional space of coupling parameters”, *PoS Confinement2018* (2018) 228. doi:10.22323/1.336.0228.
- [182] **ATLAS, CMS** Collaboration, S. Schramm, “Searches for new physics using jet substructure in ATLAS and CMS”, *PoS Confinement2018* (2018) 192. doi:10.22323/1.336.0192.
- [183] **ATLAS, CMS, LHCb** Collaboration, K. Müller, “Recent QCD results from LHC”, *PoS Confinement2018* (2018) 020. doi:10.22323/1.336.0020.
- [184] **ATLAS** Collaboration, M. Battaglia, “Searches for Physics Beyond the Standard Model with the ATLAS Detector at LHC”, *Phys. Part. Nucl. Lett.* **16** (2019), no. 5, 458–462. doi:10.1134/S1547477119050054.
- [185] **ATLAS** Collaboration, C. Geng, “Measurements of inclusive neutral diboson production with ATLAS”, *PoS DIS2019* (2019) 286. doi:10.22323/1.352.0286.
- [186] **ATLAS** Collaboration, L. Adam, “Measurements of multiparton interactions at ATLAS”, *PoS DIS2019* (2019) 258. doi:10.22323/1.352.0258.
- [187] **ATLAS, CMS** Collaboration, B. Ravina, “Top quark pair properties & top mass measurements at the LHC”, *PoS DIS2019* (2019) 162. doi:10.22323/1.352.0162.
- [188] **ATLAS, CMS** Collaboration, J. Knolle, “Rare top quark production at the LHC: $t\bar{t}Z$, $t\bar{t}W$, $t\bar{t}\gamma$, tZq , $t\gamma q$, and $t\bar{t}t\bar{t}$ ”, *PoS DIS2019* (2019) 157. doi:10.22323/1.352.0157.
- [189] **ATLAS, CMS** Collaboration, P. Iengo, “Production of quarkonia and heavy flavour states in ATLAS and CMS”, *PoS DIS2019* (2019) 153. doi:10.22323/1.352.0153.
- [190] **ATLAS, CMS** Collaboration, S. Grancagnolo, “Top quark pair-production cross section measurements at LHC”, *PoS DIS2019* (2019) 152. doi:10.22323/1.352.0152.
- [191] **ATLAS** Collaboration, E. Meoni, “Monte Carlo generators for the modelling of multijet processes in ATLAS at 13 TeV”, *PoS DIS2019* (2019) 128. doi:10.22323/1.352.0128.
- [192] **ATLAS** Collaboration, V. S. Lang, “Measurements of inclusive WW and WZ production with ATLAS”, *PoS DIS2019* (2019) 127. doi:10.22323/1.352.0127.
- [193] **ATLAS** Collaboration, Z. Hubacek, “Measurements of dijet azimuthal decorrelations and extraction of α_S at ATLAS”, *PoS DIS2019* (2019) 121. doi:10.22323/1.352.0121.
- [194] **ATLAS, CMS** Collaboration, S. Snyder, “Exotic Higgs decays at the LHC”, *PoS DIS2019* (2019) 109. doi:10.22323/1.352.0109.

- [195] **ATLAS** Collaboration, V. Pleskot, “Searching for leptoquarks with the ATLAS detector”, *PoS DIS2019* (2019) 101. doi:10.22323/1.352.0101.
- [196] **ATLAS, CMS** Collaboration, H. Oide, “Searches for electroweak SUSY and for long-lived particles at the LHC”, *PoS DIS2019* (2019) 100. doi:10.22323/1.352.0100.
- [197] **ATLAS** Collaboration, P. Mastrandrea, “Searches for physics beyond the Standard Model inleptonic final states using the ATLAS detector”, *PoS DIS2019* (2019) 099. doi:10.22323/1.352.0099.
- [198] **ATLAS** Collaboration, J. Erdmann, “Searches for Resonances Decaying to Quarks using the ATLAS detector”, *PoS DIS2019* (2019) 087. doi:10.22323/1.352.0087.
- [199] **ATLAS** Collaboration, A. E. Dumitriu, “Higgs boson production in association with a $t\bar{t}$ pair at the ATLAS experiment”, *PoS DIS2019* (2019) 086. doi:10.22323/1.352.0086.
- [200] **ATLAS** Collaboration, M. Tasevsky, “Measurements of single diffraction using the ALFA forward spectrometer at ATLAS”, *PoS DIS2019* (2019) 072. doi:10.22323/1.352.0072.
- [201] **ATLAS** Collaboration, S. Hassani, “Photon–photon fusion measurements at ATLAS”, *PoS DIS2019* (2019) 055. doi:10.22323/1.352.0055.
- [202] **ATLAS** Collaboration, M. Sutton, “The PDF interpretation of the measurement of a vector boson produced in association with jets at the ATLAS detector”, *PoS DIS2019* (2019) 034. doi:10.22323/1.352.0034.
- [203] **ATLAS** Collaboration, A. R. Cueto Gomez, “Measurement of photon production at ATLAS”, *PoS DIS2019* (2019) 009. doi:10.22323/1.352.0009.
- [204] **ATLAS** Collaboration, “Measurement of the $t\bar{t}$ production cross-section in the lepton+jets channel at $\sqrt{s} = 13$ TeV with the ATLAS experiment”. ATLAS-CONF-2019-044, 2019.
- [205] **ATLAS** Collaboration, “Observation of the associated production of a top quark and a Z boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-043, 2019.
- [206] **ATLAS, CMS** Collaboration, T. A. Vami, “Searches for gluinos and squarks”, *PoS LHCP2019* (2019) 168, arXiv:1909.11753. doi:10.22323/1.350.0168.
- [207] **ATLAS, CMS** Collaboration, P. Zalewski, “Exotics and BSM in ATLAS and CMS (non DM searches)”, *PoS CORFU2018* (2019) 071. doi:10.22323/1.347.0071.
- [208] **ATLAS, CMS** Collaboration, A. Santra, “SUSY searches in ATLAS and CMS”, *PoS CORFU2018* (2019) 070. doi:10.22323/1.347.0070.

- [209] **ATLAS** Collaboration, J. Bossio, “Search for new phenomena in high-mass final states with a photon and a jet from pp collisions at 13 TeV with the ATLAS detector”, *PoS CORFU2018* (2019) 051. doi:10.22323/1.347.0051.
- [210] **ATLAS** Collaboration, M. Trzebinski, “Prospects for Proton-Proton Measurements with Tagged Protons in ATLAS”, arXiv:1909.10827. [Frascati Phys. Ser.69,144(2019)].
- [211] **ATLAS** Collaboration, D. Kobayashi, “Module development for the Phase-2 ATLAS ITk Pixel upgrade”, *JINST* **14** (2019), no. 09, C09036. doi:10.1088/1748-0221/14/09/C09036.
- [212] **ATLAS** Collaboration, “Measurements of inclusive and differential cross-sections of $t\bar{t}\gamma$ production in the $e\mu$ channel at 13 TeV with the ATLAS detector”. ATLAS-CONF-2019-042, 2019.
- [213] **ATLAS** Collaboration, G. Aad et al., “Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b -jets in (pp) collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, arXiv:1909.09226.
- [214] **ATLAS** Collaboration, G. Aad et al., “Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb^{-1} of data collected with the ATLAS detector”, arXiv:1909.08457.
- [215] **ATLAS** Collaboration, M. Cristinziani, “Evidence for the production of three massive vector bosons with the ATLAS detector”, *PoS LHCP2019* (2019) 016, arXiv:1909.07652. doi:10.22323/1.350.0016.
- [216] **ATLAS** Collaboration, F. Barreiro, “Extractions of the QCD coupling in ATLAS”, *PoS ALPHAS2019* (2019) 011. doi:10.22323/1.365.0011.
- [217] **ATLAS** Collaboration, F. Giuli, “Determination of proton parton distribution functions using ATLAS data”, in *2019 European Physical Society Conference on High Energy Physics (EPS-HEP2019) Ghent, Belgium, July 10-17, 2019*. 2019. arXiv:1909.06702.
- [218] **ALICE, ATLAS, CMS, LHCb** Collaboration, A. Ortiz, “Particle production and flow-like effects in small systems”, *PoS LHCP2019* (2019) 091, arXiv:1909.03937. doi:10.22323/1.350.0091.
- [219] **ATLAS ITk** Collaboration, M. Sykora, “ITk strip module design and performance”, *PoS VERTEX2018* (2019) 057. doi:10.22323/1.348.0057.
- [220] **ATLAS** Collaboration, C. T. Klein, “Quality control for ATLAS Inner Tracker strip sensor production”, *PoS VERTEX2018* (2019) 056. doi:10.22323/1.348.0056.
- [221] **ATLAS CMOS Pixel** Collaboration, H. Pernegger, “Depleted CMOS sensors for HL-LHC”, *PoS VERTEX2018* (2019) 041. doi:10.22323/1.348.0041.

- [222] **ATLAS** Collaboration, A. J. Blue, “The ATLAS ITk strip detector for the High-Luminosity LHC”, *PoS VERTEX2018* (2019) 025. doi:10.22323/1.348.0025.
- [223] **ATLAS ITk Community** Collaboration, M. Hamer, “Phase-II upgrade of the ATLAS Pixel Detector”, *PoS VERTEX2018* (2019) 020. doi:10.22323/1.348.0020.
- [224] **ATLAS** Collaboration, P. A. Erland, “ATLAS Forward Proton detectors status and plans”, *PoS VERTEX2018* (2019) 007. doi:10.22323/1.348.0007.
- [225] **ATLAS** Collaboration, G. Aad et al., “Search for light long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13$ TeV and decaying into collimated leptons or light hadrons with the ATLAS detector”, arXiv:1909.01246.
- [226] **ATLAS** Collaboration, G. Aad et al., “Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, arXiv:1909.01650.
- [227] **ATLAS** Collaboration, M. Schioppa, “ATLAS Micro-Pattern Gaseous Detectors production status”, *PoS MPGD2017* (2019) 056. doi:10.22323/1.322.0056.
- [228] **ATLAS Muon** Collaboration, H. Cai, “Simulation of the ATLAS New Small Wheel (NSW) System”, *PoS MPGD2017* (2019) 050. doi:10.22323/1.322.0050.
- [229] **ATLAS Muon** Collaboration, P. Gkoutoumis, “LEVEL-1 DATA DRIVER CARD - A high bandwidth radiation tolerant aggregator board for detectors”, *PoS MPGD2017* (2019) 036. doi:10.22323/1.322.0036.
- [230] **ATLAS Muon** Collaboration, G. Iakovidis, “VMM3, an ASIC for Micropattern Detectors”, *PoS MPGD2017* (2019) 035. doi:10.22323/1.322.0035.
- [231] **ATLAS** Collaboration, G. Aad et al., “Measurements of top-quark pair differential and double-differential cross-sections in the ℓ +jets channel with pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector”, *Eur. Phys. J. C* **79** (2019), no. 12, 1028, arXiv:1908.07305. doi:10.1140/epjc/s10052-019-7525-6.
- [232] **ATLAS, CMS** Collaboration, W. Verbeke, “Single top quark and rare top quark production at ATLAS and CMS”, in *54th Rencontres de Moriond on QCD and High Energy Interactions (Moriond QCD 2019) La Thuile, Italy, March 23-30, 2019*. 2019. arXiv:1908.07271.
- [233] **ATLAS** Collaboration, G. Aad et al., “Measurement of angular and momentum distributions of charged particles within and around jets in Pb+Pb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector”, *Phys. Rev. C* **100** (2019), no. 6, 064901, arXiv:1908.05264. doi:10.1103/PhysRevC.100.064901.
- [234] **ATLAS** Collaboration, S. Rettie, “Search for high-mass dimuon resonances using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *PoS ICHEP2018* (2019) 907. doi:10.22323/1.340.0907.

- [235] **ATLAS** Collaboration, L. Serkin, “Search for the SM four-top-quark production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *PoS ICHEP2018* (2019) 906. doi:10.22323/1.340.0906.
- [236] **ATLAS** Collaboration, Z. Zheng, “Identification of very-low transverse momentum muons in the ATLAS experiment”, *PoS ICHEP2018* (2019) 857. doi:10.22323/1.340.0857.
- [237] **ATLAS** Collaboration, S. Schramm, “Triggering on hadronic signatures in ATLAS: developments for 2017 and 2018 data”, *PoS ICHEP2018* (2019) 856. doi:10.22323/1.340.0856.
- [238] **ATLAS Muon** Collaboration, C. Mwewa, “New Small Wheel trigger simulation and performance”, *PoS ICHEP2018* (2019) 855. doi:10.22323/1.340.0855.
- [239] **ATLAS** Collaboration, B. Vachon, “Tests of perturbative QCD with photon final states at the ATLAS Experiment”, *PoS ICHEP2018* (2019) 450. doi:10.22323/1.340.0450.
- [240] **ATLAS** Collaboration, T. Kishimoto, “Support system for ATLAS distributed computing operations”, *PoS ICHEP2018* (2019) 797. doi:10.22323/1.340.0797.
- [241] **ATLAS** Collaboration, B. Parida, “Search for dark matter production in association with a hadronically decaying vector boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *PoS ICHEP2018* (2019) 787. doi:10.22323/1.340.0787.
- [242] **ATLAS** Collaboration, M. Mlynarikova, “Study of the $H \rightarrow \tau\tau$ decay channel with ATLAS”, *PoS ICHEP2018* (2019) 742. doi:10.22323/1.340.0742.
- [243] **ATLAS** Collaboration, J. C. S. Myers, “Search for Higgs boson pair production with the ATLAS detector”, *PoS ICHEP2018* (2019) 740. doi:10.22323/1.340.0740.
- [244] **ATLAS, CMS, LHCb** Collaboration, D. del Re, “Exotics at the LHC”, *PoS ICHEP2018* (2019) 710. doi:10.22323/1.340.0710.
- [245] **ATLAS, ALICE** Collaboration, T. Carli, “High-lights of the ATLAS and ALICE experiments”, *PoS ICHEP2018* (2019) 693. doi:10.22323/1.340.0693.
- [246] **ATLAS** Collaboration, M. Sioli, “Searches for heavy neutrinos with the ATLAS detector”, *PoS ICHEP2018* (2019) 641. doi:10.22323/1.340.0641.
- [247] **ATLAS** Collaboration, N. Morange, “Measurements of Higgs boson properties using a combination of different Higgs decay channels”, *PoS ICHEP2018* (2019) 616. doi:10.22323/1.340.0616.
- [248] **ATLAS** Collaboration, W. A. Leight, “Measurement of the Higgs boson mass”, *PoS ICHEP2018* (2019) 614. doi:10.22323/1.340.0614.

- [249] **ATLAS** Collaboration, Z. Zinonos, “Searches for electroweak production of supersymmetric gauginos and sleptons with the ATLAS detector at LHC”, *PoS ICHEP2018* (2019) 565. doi:10.22323/1.340.0565.
- [250] **ATLAS** Collaboration, M. Przybycien, “Recent results on correlations and fluctuations in pp , $p + \text{Pb}$, $\text{Pb}+\text{Pb}$ and $\text{Xe}+\text{Xe}$ collisions from the ATLAS Experiment at the LHC”, *PoS ICHEP2018* (2019) 445. doi:10.22323/1.340.0445.
- [251] **ATLAS** Collaboration, R. Y. Peters, “Top quark properties measurements with the ATLAS detector”, *PoS ICHEP2018* (2019) 295. doi:10.22323/1.340.0295.
- [252] **ATLAS** Collaboration, F. Fassi, “Searches for heavy resonances decaying to top quarks with the ATLAS detector”, *PoS ICHEP2018* (2019) 284. doi:10.22323/1.340.0284.
- [253] **ATLAS** Collaboration, M. O. Evans, “ATLAS Open Data project: HEP for everyone”, *PoS ICHEP2018* (2019) 275. doi:10.22323/1.340.0275.
- [254] **ATLAS** Collaboration, O. Kortner, “Measurement of cross sections and properties of the Higgs boson in decays to four leptons using the ATLAS detector”, *PoS ICHEP2018* (2019) 263. doi:10.22323/1.340.0263.
- [255] **ATLAS** Collaboration, L. Mijovic, “Measurement of production cross sections and coupling properties of the Higgs boson in decays to two photons using the ATLAS detector”, *PoS ICHEP2018* (2019) 261. doi:10.22323/1.340.0261.
- [256] **ATLAS** Collaboration, A. McCarn Deiana, “Search for vector-like quarks with the ATLAS Detector”, *PoS ICHEP2018* (2019) 234. doi:10.22323/1.340.0234.
- [257] **ATLAS** Collaboration, D. Duda, “Measurement of production cross sections of the Higgs boson in decays to two W bosons using the ATLAS detector”, *PoS ICHEP2018* (2019) 221. doi:10.22323/1.340.0221.
- [258] **ATLAS** Collaboration, K. Grevtsov, “Searches for high-mass resonances decaying to pairs of bosons using the ATLAS detector”, *PoS ICHEP2018* (2019) 219. doi:10.22323/1.340.0219.
- [259] **ATLAS** Collaboration, J. Tanaka, “Searches for additional neutral Higgs bosons in the MSSM”, *PoS ICHEP2018* (2019) 217. doi:10.22323/1.340.0217.
- [260] **ATLAS** Collaboration, C. Bini, “ATLAS results on quarkonia and its associated production”, *PoS ICHEP2018* (2019) 215. doi:10.22323/1.340.0215.
- [261] **ATLAS** Collaboration, M. Weirich, “Level-1 Calorimeter Trigger: From Virtex-7 to UltraScale+”, *PoS ICHEP2018* (2019) 203. doi:10.22323/1.340.0203.
- [262] **ATLAS** Collaboration, A. Held, “The ATLAS muon trigger”, *PoS ICHEP2018* (2019) 201. doi:10.22323/1.340.0201.

- [263] **ATLAS** Collaboration, “Measurement of the $t\bar{t}$ production cross-section and lepton differential distributions in $e\mu$ dilepton events from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-041, 2019.
- [264] **ATLAS** Collaboration, “Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb^{-1} of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector”. ATLAS-CONF-2019-040, 2019.
- [265] **ATLAS** Collaboration, “Evidence for electroweak production of two jets in association with a $Z\gamma$ pair in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-039, 2019.
- [266] **ATLAS** Collaboration, G. Aad et al., “Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b -jets and missing transverse momentum”, *JHEP* **12** (2019) 060, [arXiv:1908.03122](https://arxiv.org/abs/1908.03122). doi:10.1007/JHEP12(2019)060.
- [267] **ATLAS** Collaboration, D. Zanzi, “The ATLAS Trigger in 2017 and 2018: Developments and performance”, *PoS ICHEP2018* (2019) 197. doi:10.22323/1.340.0197.
- [268] **ATLAS Muon** Collaboration, O. Kortner, “Upgrade of the ATLAS monitored drift tube front-end electronics for the HL-LHC”, *PoS ICHEP2018* (2019) 196. doi:10.22323/1.340.0196.
- [269] **ATLAS** Collaboration, M. Testa, “Search for New Physics through the Reconstruction of Challenging Signatures with the ATLAS detector”, *PoS ICHEP2018* (2019) 175. doi:10.22323/1.340.0175.
- [270] **ATLAS** Collaboration, E. Tolley, “Dark Matter searches with the ATLAS Detector”, *PoS ICHEP2018* (2019) 171. doi:10.22323/1.340.0171.
- [271] **ATLAS** Collaboration, M. Primavera, “Searches for sleptons with the ATLAS detector”, *PoS ICHEP2018* (2019) 169. doi:10.22323/1.340.0169.
- [272] **ATLAS, LHCb** Collaboration, S. Schramm, “Machine learning at CERN: ATLAS, LHCb, and more”, *PoS ICHEP2018* (2019) 158. doi:10.22323/1.340.0158.
- [273] **ATLAS** Collaboration, L.-M. Mir, “Searches for additional charged Higgs bosons in the MSSM”, *PoS ICHEP2018* (2019) 156. doi:10.22323/1.340.0156.
- [274] **ATLAS** Collaboration, A. G. Schwartzman, “Searches for non-Standard Model decays to two light bosons of the Higgs boson”, *PoS ICHEP2018* (2019) 154. doi:10.22323/1.340.0154.
- [275] **ATLAS Muon** Collaboration, C. Bakalis, “Front-End and Back-End Electronics for the ATLAS New Small Wheel Upgrade”, *PoS ICHEP2018* (2019) 134. doi:10.22323/1.340.0134.

- [276] **ATLAS** Collaboration, F. Costanza, “The design and layout of the Phase-II upgrade of the Inner tracker of the ATLAS experiment”, *PoS ICHEP2018* (2019) 127. doi:10.22323/1.340.0127.
- [277] **ATLAS** Collaboration, M. Hodgkinson, “Reconstruction Techniques in Supersymmetry Searches”, *PoS ICHEP2018* (2019) 113. doi:10.22323/1.340.0113.
- [278] **ATLAS** Collaboration, Z. Zinonos, “Cross-section measurements of the Higgs boson decaying to a pair of tau leptons in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *PoS ICHEP2018* (2019) 104. doi:10.22323/1.340.0104.
- [279] **ATLAS** Collaboration, “Search for the decays of the Higgs boson $H \rightarrow ee$ and $H \rightarrow e\mu$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-037, 2019.
- [280] **ATLAS Muon** Collaboration, M. Herrmann, “Performance and Calibration of 2m²-sized 4-layered Micromegas Detectors for the ATLAS Upgrade”, *PoS ICHEP2018* (2019) 088. doi:10.22323/1.340.0088.
- [281] **ATLAS Muon** Collaboration, A. Kourkoumeli-Charalampidi, “The Micromegas construction project for the ATLAS New Small Wheel”, *PoS ICHEP2018* (2019) 087. doi:10.22323/1.340.0087.
- [282] **ATLAS** Collaboration, A. Schwartzman, “A High Granularity Timing Detector for the Phase-2 Upgrade of the ATLAS Experiment: Detector concept, R&D, and first test beam results”, *PoS ICHEP2018* (2019) 085. doi:10.22323/1.340.0085.
- [283] **ATLAS** Collaboration, S. A. Stucci, “ATLAS ITk Strip Detector for High-Luminosity LHC”, *PoS ICHEP2018* (2019) 083. doi:10.22323/1.340.0083.
- [284] **ATLAS** Collaboration, I. Ibragimov, “ATLAS measurements of CP Violation and Rare decays in Beauty mesons”, *PoS ICHEP2018* (2019) 067. doi:10.22323/1.340.0067.
- [285] **ATLAS** Collaboration, L. Adamczyk, “Measurements of elastic pp interactions and exclusive production with the ATLAS detector”, *PoS ICHEP2018* (2019) 045. doi:10.22323/1.340.0045.
- [286] **ATLAS** Collaboration, S. Morgenstern, “Electron and photon energy measurement calibration with the ATLAS detector”, *PoS ICHEP2018* (2019) 033. doi:10.22323/1.340.0033.
- [287] **ATLAS** Collaboration, S. Stärz, “ATLAS Calorimeter system: Run-2 performance, Phase-1 and Phase-2 upgrades”, *PoS ICHEP2018* (2019) 029. doi:10.22323/1.340.0029.

- [288] **ATLAS** Collaboration, M. Bindi, “Operational Experience and Performance with the ATLAS Pixel detector at the Large Hadron Collider”, *PoS ICHEP2018* (2019) 028. doi:10.22323/1.340.0028.
- [289] **ATLAS** Collaboration, P. Berta, “Top quark production cross-section measurements with the ATLAS detector”, *PoS ICHEP2018* (2019) 023. doi:10.22323/1.340.0023.
- [290] **ATLAS** Collaboration, G. Aad et al., “Measurement of the inclusive isolated-photon cross section in pp collisions at $\sqrt{s} = 13$ TeV using 36 fb^{-1} of ATLAS data”, *JHEP* **10** (2019) 203, arXiv:1908.02746. doi:10.1007/JHEP10(2019)203.
- [291] **ATLAS** Collaboration, “Measurement of the top-quark decay width in top-quark pair events in the dilepton channel at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-038, 2019.
- [292] **ATLAS** Collaboration, “Search for a new resonance in the $bj\mu\mu$ final state at a dimuon invariant mass around 28 GeV with ATLAS pp data collected at $\sqrt{s} = 8$ and 13 TeV”. ATLAS-CONF-2019-036, 2019.
- [293] **ATLAS** Collaboration, D. Melini, “Highlights of Top-Quark Properties Measurements at ATLAS”, in *Proceedings, International Conference on High Energy Physics : Workshop on High Energy Physics - Heavy Particles and Flavours: Session C. (LISHEP 2018): Salvador, Bahia, Brazil, September 9-14, 2018*, A. Santoro, V. Oguri, and L. Abreu, eds., pp. 41–54. 2019.
- [294] **ATLAS** Collaboration, S. Honda, “Highlights of Top Quark Production Measurements at ATLAS”, in *Proceedings, International Conference on High Energy Physics : Workshop on High Energy Physics - Heavy Particles and Flavours: Session C. (LISHEP 2018): Salvador, Bahia, Brazil, September 9-14, 2018*, A. Santoro, V. Oguri, and L. Abreu, eds., pp. 189–204. 2019.
- [295] **ATLAS** Collaboration, L. Marchese, “Measurement of Cross-Sections and Properties of the Higgs Boson Using the ATLAS Detector”, in *Proceedings, International Conference on High Energy Physics : Workshop on High Energy Physics - Heavy Particles and Flavours: Session C. (LISHEP 2018): Salvador, Bahia, Brazil, September 9-14, 2018*, A. Santoro, V. Oguri, and L. Abreu, eds., pp. 159–171. 2019.
- [296] **ATLAS** Collaboration, F. A. Arduh, “Searches for Electroweak Production of Supersymmetric Gauginos and Sleptons with the ATLAS Detector”, in *Proceedings, International Conference on High Energy Physics : Workshop on High Energy Physics - Heavy Particles and Flavours: Session C. (LISHEP 2018): Salvador, Bahia, Brazil, September 9-14, 2018*, A. Santoro, V. Oguri, and L. Abreu, eds., pp. 93–99. 2019.
- [297] **CMS, ATLAS** Collaboration, D. Krofcheck, “Heavy Ion Results from ATLAS and CMS”, *J. Phys. Conf. Ser.* **1271** (2019), no. 1, 012007. doi:10.1088/1742-6596/1271/1/012007.

- [298] **ATLAS** Collaboration, G. Aad et al., “Electron and photon performance measurements with the ATLAS detector using the 2015–2017 LHC proton-proton collision data”, *JINST* **14** (2019), no. 12, P12006, arXiv:1908.00005. doi:10.1088/1748-0221/14/12/P12006.
- [299] **ATLAS Tdaq** Collaboration, G. Unel, “FELIX: the New Detector Readout System for the ATLAS Experiment”, *PoS TWEPP2018* (2019) 140. doi:10.22323/1.343.0140.
- [300] **ATLAS** Collaboration, N. V. Biesuz, “First performance measurements of the Fast Tracker Real Time Processor at ATLAS”, *PoS TWEPP2018* (2019) 138. doi:10.22323/1.343.0138.
- [301] **ATLAS ITk** Collaboration, N. Lehmann, “Control and Monitoring for a serially powered pixel demonstrator for the ATLAS Phase II upgrade”, *PoS TWEPP2018* (2019) 133. doi:10.22323/1.343.0133.
- [302] **ATLAS Liquid Argon Calorimeter Group** Collaboration, K. Uno, “The Phase-I Trigger Readout Electronics Upgrade of the ATLAS Liquid Argon Calorimeters”, *PoS TWEPP2018* (2019) 128. doi:10.22323/1.343.0128.
- [303] **ATLAS ITk Community** Collaboration, R. Wölker and C. Sawyer, “Investigations into the effect of gamma irradiation on the leakage current of 130-nm readout chips for the ATLAS ITk strip detector”, *PoS TWEPP2018* (2019) 121. doi:10.22323/1.343.0121.
- [304] **ATLAS Muon** Collaboration, S. Popa, S. Martoiu, M. Luchian et al., “The Quality-Assurance Test of the ATLAS New Small Wheel Read-Out Controller ASIC”, *PoS TWEPP2018* (2019) 081. doi:10.22323/1.343.0081.
- [305] **ATLAS** Collaboration, T. Mitani, “Input Mezzanine Board for the Fast Tracker(FTK) at ATLAS”, *PoS TWEPP2018* (2019) 055. doi:10.22323/1.343.0055.
- [306] **ATLAS** Collaboration, E. Buschmann, “ATLAS Phase-II-Upgrade Pixel Demonstrator Read-out”, *PoS TWEPP2018* (2019) 046. doi:10.22323/1.343.0046.
- [307] **ATLAS** Collaboration, “Generation and Simulation of R-Hadrons in the ATLAS Experiment”, in *27th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 2019) Corpus Christi, TX, United States, May 20-24, 2019*. 2019.
- [308] **ATLAS, CMS** Collaboration, C.-E. Wulz, “Techniques and results of neutral long-lived particle searches in ATLAS and CMS in LHC Run 2”, in *54th Rencontres de Moriond on Electroweak Interactions and Unified Theories (Moriond EW 2019) La Thuile, Italy, March 16-23, 2019*. 2019. arXiv:1907.13588.

- [309] **ATLAS** Collaboration, “Measurement of the Lund Jet Plane using charged particles with the ATLAS detector from 13 TeV proton–proton collisions”. ATLAS-CONF-2019-035, 2019.
- [310] **ATLAS** Collaboration, G. Aad et al., “Measurement of K_S^0 and Λ^0 production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C79** (2019), no. 12, 1017, [arXiv:1907.10862](#). doi:10.1140/epjc/s10052-019-7512-y.
- [311] **ATLAS** Collaboration, G. Aad et al., “Measurement of W^\pm boson production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C79** (2019), no. 11, 935, [arXiv:1907.10414](#). doi:10.1140/epjc/s10052-019-7439-3.
- [312] **ATLAS** Collaboration, G. Aad et al., “Measurement of the jet mass in high transverse momentum $Z(\rightarrow b\bar{b})\gamma$ production at $\sqrt{s} = 13$ TeV using the ATLAS detector”, [arXiv:1907.07093](#).
- [313] **ATLAS** Collaboration, G. Aad et al., “Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at 8 TeV using the ATLAS detector”, *Eur. Phys. J.* **C79** (2019), no. 10, 847, [arXiv:1907.06728](#). doi:10.1140/epjc/s10052-019-7321-3.
- [314] **ATLAS** Collaboration, “Measurement of $Z\gamma \rightarrow \ell^+\ell^-\gamma$ differential cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-034, 2019.
- [315] **ATLAS** Collaboration, “Observation of electroweak production of two jets in association with a Z-boson pair in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-033, 2019.
- [316] **ATLAS** Collaboration, “Combined measurement of the total and differential cross sections in the $H \rightarrow \gamma\gamma$ and the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channels at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-032, 2019.
- [317] **ATLAS** Collaboration, “Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b -jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-031, 2019.
- [318] **ATLAS** Collaboration, “Search for the $HH \rightarrow b\bar{b}b\bar{b}$ process via vector boson fusion production using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-030, 2019.
- [319] **ATLAS** Collaboration, “Measurements and interpretations of Higgs-boson fiducial cross sections in the diphoton decay channel using 139 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-029, 2019.
- [320] **ATLAS** Collaboration, H. M. Gray, “Higgs couplings in ATLAS at Run2”, 2019. [arXiv:1907.06297](#).

- [321] **ATLAS** Collaboration, “A search for the dimuon decay of the Standard Model Higgs boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector”. ATLAS-CONF-2019-028, 2019.
- [322] **ATLAS** Collaboration, “Soft b -hadron tagging for compressed SUSY scenarios”. ATLAS-CONF-2019-027, 2019.
- [323] **ATLAS** Collaboration, “Inclusive and differential measurement of the charge asymmetry in $t\bar{t}$ events at 13 TeV with the ATLAS detector”. ATLAS-CONF-2019-026, 2019.
- [324] **ATLAS** Collaboration, “Measurements of the Higgs boson inclusive, differential and production cross sections in the 4ℓ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-025, 2019.
- [325] **ATLAS** Collaboration, G. Aad et al., “Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C79** (2019), no. 12, 985, [arXiv:1907.05176](#).
doi:10.1140/epjc/s10052-019-7489-6.
- [326] **ATLAS** Collaboration, G. Aad et al., “ATLAS b -jet identification performance and efficiency measurement with $t\bar{t}$ events in pp collisions at $\sqrt{s} = 13$ TeV”, *Eur. Phys. J.* **C79** (2019), no. 11, 970, [arXiv:1907.05120](#).
doi:10.1140/epjc/s10052-019-7450-8.
- [327] **ATLAS** Collaboration, “ Z boson production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV measured by the ATLAS detector”. ATLAS-CONF-2019-024, 2019.
- [328] **ATLAS** Collaboration, G. Aad et al., “Measurement of W^\pm -boson and Z-boson production cross-sections in pp collisions at $\sqrt{s} = 2.76$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C79** (2019), no. 11, 901, [arXiv:1907.03567](#).
doi:10.1140/epjc/s10052-019-7399-7.
- [329] **ATLAS** Collaboration, G. Aad et al., “Search for heavy neutral Higgs bosons produced in association with b -quarks and decaying to b -quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector”, [arXiv:1907.02749](#).
- [330] **ATLAS** Collaboration, G. Aad et al., “Resolution of the ATLAS muon spectrometer monitored drift tubes in LHC Run 2”, *JINST* **14** (2019), no. 09, P09011, [arXiv:1906.12226](#). doi:10.1088/1748-0221/14/09/P09011.
- [331] **ATLAS** Collaboration, C. Amelung, “Upgrade of the ATLAS muon system for the HL-LHC”, *Nucl. Instrum. Meth.* **A936** (2019) 420–423.
doi:10.1016/j.nima.2018.09.005.
- [332] **ATLAS** Collaboration, R. Poggi, “Design of the ATLAS phase-II hardware-based tracking processor”, *Nucl. Instrum. Meth.* **A936** (2019) 305–307.
doi:10.1016/j.nima.2018.11.055.

- [333] **ATLAS** Collaboration, A. Rozanov, “Single event upsets in the ATLAS IBL front end ASICs”, *Nucl. Instrum. Meth.* **A936** (2019) 703–704. doi:10.1016/j.nima.2018.08.107.
- [334] **ATLAS Tile Calorimeter System** Collaboration, S. Angelidakis, “ATLAS Tile Calorimeter upgrades for HL-LHC”, *Nucl. Instrum. Meth.* **A936** (2019) 110–111. doi:10.1016/j.nima.2018.08.100.
- [335] **ATLAS LAr Calorimeter Group** Collaboration, Y.-L. Yang, “The Phase-I trigger readout electronics upgrade of the ATLAS liquid argon calorimeters”, *Nucl. Instrum. Meth.* **A936** (2019) 380–382. doi:10.1016/j.nima.2018.11.080.
- [336] **ATLAS Muon** Collaboration, G. Mancini, “Construction and test of the SM1 MicroMegas chambers for the upgrade of the forward muon spectrometer of the ATLAS experiment”, *Nucl. Instrum. Meth.* **A936** (2019) 442–444. doi:10.1016/j.nima.2018.11.069.
- [337] **ATLAS** Collaboration, M. Testa, “Upgrade of the ATLAS detectors and trigger for the High Luminosity LHC: Tracking and timing for pile-up suppression”, *Nucl. Instrum. Meth.* **A936** (2019) 394–395. doi:10.1016/j.nima.2018.10.172.
- [338] **ATLAS Tile Calorimeter System** Collaboration, E. Valdes Santurio, “Beam tests on the ATLAS tile calorimeter demonstrator module”, *Nucl. Instrum. Meth.* **A936** (2019) 115–116. doi:10.1016/j.nima.2018.10.066.
- [339] **ATLAS** Collaboration, H. Kroha, “Design and construction of integrated small-diameter drift tube and thin-gap resistive plate chambers for the phase-1 upgrade of the ATLAS muon spectrometer”, *Nucl. Instrum. Meth.* **A936** (2019) 445–446. doi:10.1016/j.nima.2018.10.139.
- [340] **ATLAS** Collaboration, C. Sbarra, “The LUCID-2 detector”, *Nucl. Instrum. Meth.* **A936** (2019) 152–153. doi:10.1016/j.nima.2018.07.058.
- [341] **ATLAS Muon** Collaboration, P. Massarotti, “High voltage stability and cleaning of 2 m² resistive strip micromegas detectors (SM2) for the upgrade of the forward muon spectrometer of the ATLAS experiment”, *Nucl. Instrum. Meth.* **A936** (2019) 456–458. doi:10.1016/j.nima.2018.09.008.
- [342] **ATLAS Tile Calorimeter System** Collaboration, M. Hibbard, S. Moayedi, H. Hadavand et al., “ATLAS TileCal low voltage power supply upgrade hardware and testing”, *Nucl. Instrum. Meth.* **A936** (2019) 112–114. doi:10.1016/j.nima.2018.10.198.
- [343] **ATLAS** Collaboration, L. Rossini, “Modelling radiation damage effects to pixel sensors for the ATLAS detector”, *Nucl. Instrum. Meth.* **A936** (2019) 677–678. doi:10.1016/j.nima.2018.09.098.
- [344] **ATLAS** Collaboration, O. Kortner, “Development of a highly selective muon trigger exploiting the high spatial resolution of monitored drift-tube chambers for

- the ATLAS experiment at the HL-LHC”, *Nucl. Instrum. Meth.* **A936** (2019) 311–312. doi:10.1016/j.nima.2018.08.018.
- [345] **ATLAS** Collaboration, A. Grummer, “Operational experience with and performance of the ATLAS Pixel Detector at the Large Hadron Collider”, *Nucl. Instrum. Meth.* **A936** (2019) 684–685. doi:10.1016/j.nima.2018.09.002.
- [346] **ATLAS** Collaboration, C. Anelli, “Phase-II readout electronics upgrades of the ATLAS LAr calorimeter”, *Nucl. Instrum. Meth.* **A936** (2019) 274–277. doi:10.1016/j.nima.2018.11.081.
- [347] **ATLAS Muon** Collaboration, I. Maniatis, B. Flierl, M. Herrmann et al., “Performance and calibration of a 2 m 2 SM2 micromegas detector for the ATLAS muon spectrometer upgrade”, *Nucl. Instrum. Meth.* **A936** (2019) 468–469. doi:10.1016/j.nima.2018.11.015.
- [348] **ATLAS** Collaboration, S. Morgenstern, “ATLAS LAr calorimeter performance in LHC Run-2”, *Nucl. Instrum. Meth.* **A936** (2019) 86–89. doi:10.1016/j.nima.2018.11.027.
- [349] **ATLAS** Collaboration, G. Aad et al., “Identification of boosted Higgs bosons decaying into b -quark pairs with the ATLAS detector at 13 TeV”, *Eur. Phys. J.* **C79** (2019), no. 10, 836, arXiv:1906.11005. doi:10.1140/epjc/s10052-019-7335-x.
- [350] **ATLAS** Collaboration, G. Aad et al., “Properties of jet fragmentation using charged particles measured with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV”, *Phys. Rev.* **D100** (2019), no. 5, 052011, arXiv:1906.09254. doi:10.1103/PhysRevD.100.052011.
- [351] **ATLAS** Collaboration, M. Cristinziani, “Recent diboson and multiboson results in ATLAS”, arXiv:1906.09170. [PoSLHCP2019,157(2019)]. doi:10.22323/1.350.0157.
- [352] **ATLAS, CMS, LHCb** Collaboration, P. Ronchese, “Production rates and branching fractions of heavy hadrons & quarkonia at LHC experiments”, in *17th Conference on Flavor Physics and CP Violation (FPCP 2019) Victoria, BC, Canada, May 6-10, 2019*. 2019. arXiv:1906.08992.
- [353] **ATLAS** Collaboration, V. W. S. Wong, “Searching for leptoquarks with the ATLAS detector”, in *17th Conference on Flavor Physics and CP Violation (FPCP 2019) Victoria, BC, Canada, May 6-10, 2019*. 2019. arXiv:1906.08983.
- [354] **ATLAS** Collaboration, “Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-023, 2019.
- [355] **ATLAS** Collaboration, “Two-particle azimuthal correlations in photo-nuclear ultra-peripheral Pb+Pb collisions at 5.02 TeV with ATLAS”. ATLAS-CONF-2019-022, 2019.

- [356] **ATLAS** Collaboration, G. Aad et al., “Search for diboson resonances in hadronic final states in 139 fb^{-1} of pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, *JHEP* **09** (2019) 091, arXiv:1906.08589. doi:10.1007/JHEP09(2019)091.
- [357] **ATLAS** Collaboration, A. White, “Search for Dilepton Resonances with the ATLAS Detector and Run 2 Data”, in *54th Rencontres de Moriond on Gravitation (Moriond Gravitation 2019) La Thuile, Italy, March 23-30, 2019*. 2019. arXiv:1906.08116.
- [358] **ATLAS** Collaboration, D. Barberis, “Modern BigData technologies to store and access metadata for the ATLAS experiment”, *Afr. Rev. Phys.* **13** (2018) 0009.
- [359] **ATLAS** Collaboration, G. Aad et al., “Search for a heavy charged boson in events with a charged lepton and missing transverse momentum from pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, *Phys. Rev.* **D100** (2019), no. 5, 052013, arXiv:1906.05609. doi:10.1103/PhysRevD.100.052013.
- [360] **ATLAS** Collaboration, G. L. Alberghi, “Performance of the ATLAS RPC first level Muon trigger during the Run-2 data taking”, *JINST* **14** (2019), no. 06, C06007. doi:10.1088/1748-0221/14/06/C06007.
- [361] **ATLAS** Collaboration, W. Walkowiak, “ATLAS Measurements of CP Violation and Rare Decays in Beauty Mesons”, in *17th Conference on Flavor Physics and CP Violation (FPCP 2019) Victoria, BC, Canada, May 6-10, 2019*. 2019. arXiv:1906.05056.
- [362] **ATLAS** Collaboration, M. Aaboud et al., “Search for excited electrons singly produced in proton–proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS experiment at the LHC”, *Eur. Phys. J.* **C79** (2019), no. 9, 803, arXiv:1906.03204. doi:10.1140/epjc/s10052-019-7295-1.
- [363] **ATLAS** Collaboration, M. Aaboud et al., “Observation of electroweak production of a same-sign W boson pair in association with two jets in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, *Phys. Rev. Lett.* **123** (2019), no. 16, 161801, arXiv:1906.03203. doi:10.1103/PhysRevLett.123.161801.
- [364] **ATLAS** Collaboration, F. Fabbri, “Top Pair and Single top Production in ATLAS”, in *Proceedings, 18th Lomonosov Conference on Elementary Particle Physics: Moscow, Russia, August 24-30, 2017*, pp. 443–447. 2019.
- [365] **ATLAS** Collaboration, F. Djama, “Selected Results from the ATLAS Experiment on its 25th anniversary”, in *Proceedings, 18th Lomonosov Conference on Elementary Particle Physics: Moscow, Russia, August 24-30, 2017*, pp. 425–431. 2019.
- [366] **ATLAS** Collaboration, E. Soldatov, “Electroweak Precision Measurements in ATLAS”, in *Proceedings, 18th Lomonosov Conference on Elementary Particle Physics: Moscow, Russia, August 24-30, 2017*, pp. 171–174. 2019.

- [367] **ATLAS** Collaboration, M. Ronzani, “Searches for Supersymmetry with the ATLAS Detector”, in *Proceedings, 18th Lomonosov Conference on Elementary Particle Physics: Moscow, Russia, August 24-30, 2017*, pp. 175–179. 2019.
- [368] **ATLAS** Collaboration, “Luminosity determination in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector at the LHC”. ATLAS-CONF-2019-021, 2019.
- [369] **ATLAS** Collaboration, S. Seidel, “Production of Quarkonia and Heavy Flavor States in ATLAS”, in *17th Conference on Flavor Physics and CP Violation (FPCP 2019) Victoria, BC, Canada, May 6-10, 2019*. 2019. arXiv:1905.13185.
- [370] **ATLAS** Collaboration, “Search for chargino-neutralino production with mass splittings near the electroweak scale in three-lepton final states in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”. ATLAS-CONF-2019-020, 2019.
- [371] **ATLAS** Collaboration, “Search for direct production of electroweakinos in final states with missing transverse energy and a Higgs boson decaying into photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-019, 2019.
- [372] **ATLAS** Collaboration, “Search for direct stau production in events with two hadronic tau leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”. ATLAS-CONF-2019-018, 2019.
- [373] **ATLAS** Collaboration, “Search for direct top squark pair production in the 3-body decay mode with a final state containing one lepton, jets, and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector”. ATLAS-CONF-2019-017, 2019.
- [374] **ATLAS** Collaboration, “Search for top squarks in events with a Z boson using 139 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-016, 2019.
- [375] **ATLAS** Collaboration, “Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb^{-1} of data collected with the ATLAS detector”. ATLAS-CONF-2019-015, 2019.
- [376] **CMS, ATLAS** Collaboration, G. I. Veres, “Heavy ion physics at CMS and ATLAS: hard probes”, in *54th Rencontres de Moriond on QCD and High Energy Interactions (Moriond QCD 2019) La Thuile, Italy, March 23-30, 2019*. 2019. arXiv:1905.10461.
- [377] **ATLAS** Collaboration, G. Aad et al., “Measurement of distributions sensitive to the underlying event in inclusive Z -boson production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C79** (2019), no. 8, 666, arXiv:1905.09752. doi:10.1140/epjc/s10052-019-7162-0.
- [378] **ATLAS** Collaboration, G. Aad et al., “Search for heavy neutral leptons in decays of W bosons produced in 13 TeV pp collisions using prompt and displaced

- signatures with the ATLAS detector”, *JHEP* **10** (2019) 265, arXiv:1905.09787. doi:10.1007/JHEP10(2019)265.
- [379] **ATLAS** Collaboration, “Searches for electroweak production of supersymmetric particles with compressed mass spectra in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”. ATLAS-CONF-2019-014, 2019.
- [380] **ATLAS** Collaboration, ATLAS, “ATLAS”. World Scientific, 2019.
- [381] **ATLAS, CMS** Collaboration, J. Linacre, “Spin correlations in top physics at ATLAS and CMS in Run 2”, in *54th Rencontres de Moriond on Electroweak Interactions and Unified Theories (Moriond EW 2019) La Thuile, Italy, March 16-23, 2019*. 2019. arXiv:1905.08634.
- [382] **ATLAS, CMS** Collaboration, K. Skovpen, “Rare top quark production and decays at ATLAS and CMS”, in *54th Rencontres de Moriond on Electroweak Interactions and Unified Theories (Moriond EW 2019) La Thuile, Italy, March 16-23, 2019*. 2019. arXiv:1905.08324.
- [383] **ATLAS** Collaboration, G. Aad et al., “Search for the electroweak diboson production in association with a high-mass dijet system in semileptonic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev. D* **100** (2019), no. 3, 032007, arXiv:1905.07714. doi:10.1103/PhysRevD.100.032007.
- [384] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of ZZ production in the $ll\nu\nu$ final state with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV”, *JHEP* **10** (2019) 127, arXiv:1905.07163. doi:10.1007/JHEP10(2019)127.
- [385] **ATLAS, CMS** Collaboration, A. Zucchetta, “Heavy resonances (W' , Z' , jets) in ATLAS and CMS in Run 2”, in *54th Rencontres de Moriond on Electroweak Interactions and Unified Theories (Moriond EW 2019) La Thuile, Italy, March 16-23, 2019*. 2019. arXiv:1905.06607.
- [386] **ATLAS, CMS** Collaboration, E. Di Marco, “Inclusive and differential W and Z at CMS and ATLAS”, in *54th Rencontres de Moriond on QCD and High Energy Interactions (Moriond QCD 2019) La Thuile, Italy, March 23-30, 2019*. 2019. arXiv:1905.06412.
- [387] **LHCF, ATLAS** Collaboration, Q.-D. Zhou, “Study of contributions of diffractive processes to forward neutral particle production with the ATLAS-LHCf detector”, *EPJ Web Conf.* **208** (2019) 05008. doi:10.1051/epjconf/201920805008.
- [388] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of fiducial and differential W^+W^- production cross-sections at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C79** (2019), no. 10, 884, arXiv:1905.04242. doi:10.1140/epjc/s10052-019-7371-6.

- [389] **ATLAS** Collaboration, “Searches for lepton-flavour-violating decays of the Higgs boson in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”. ATLAS-CONF-2019-013, 2019.
- [390] **ATLAS** Collaboration, M. Aaboud et al., “Modelling radiation damage to pixel sensors in the ATLAS detector”, *JINST* **14** (2019), no. 06, P06012, arXiv:1905.03739. doi:10.1088/1748-0221/14/06/P06012.
- [391] **ATLAS** Collaboration, G. Aad et al., “Measurement of the top-quark mass in $t\bar{t} + 1$ -jet events collected with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV”, *JHEP* **11** (2019) 150, arXiv:1905.02302. doi:10.1007/JHEP11(2019)150.
- [392] **ATLAS** Collaboration, S. Kuehn, “Results of prototyping for the Phase-II upgrade of the pixel detector of the ATLAS experiment”, *JINST* **14** (2019), no. 04, C04010. doi:10.1088/1748-0221/14/04/C04010.
- [393] **ATLAS** Collaboration, Y. Enari, “The Phase-1 Trigger Readout Electronics Upgrade of the ATLAS Liquid Argon Calorimeter”, *J. Phys. Conf. Ser.* **1162** (2019), no. 1, 012041. doi:10.1088/1742-6596/1162/1/012041.
- [394] **ATLAS** Collaboration, J. V. da Fonseca Pinto, “An Ensemble of Neural Networks for Online Filtering Implemented in the ATLAS Trigger System”, *J. Phys. Conf. Ser.* **1162** (2019), no. 1, 012039. doi:10.1088/1742-6596/1162/1/012039.
- [395] **ATLAS** Collaboration, C. Wiglesworth, “The ATLAS High-Level Calorimeter Trigger in Run-2”, *J. Phys. Conf. Ser.* **1162** (2019), no. 1, 012038. doi:10.1088/1742-6596/1162/1/012038.
- [396] **ATLAS** Collaboration, S. D. Jones, “The ATLAS Electron and Photon Trigger”, *J. Phys. Conf. Ser.* **1162** (2019), no. 1, 012037. doi:10.1088/1742-6596/1162/1/012037.
- [397] **ATLAS Tile Calorimeter System** Collaboration, A. Rodriguez, “Test Beam Studies for the ATLAS Tile Calorimeter Upgrade Readout Electronics”, *J. Phys. Conf. Ser.* **1162** (2019), no. 1, 012018. doi:10.1088/1742-6596/1162/1/012018.
- [398] **ATLAS Tile Calorimeter System** Collaboration, F. Scuri, “Upgrade of the ATLAS Tile Calorimeter for the High Luminosity LHC”, *J. Phys. Conf. Ser.* **1162** (2019), no. 1, 012017. doi:10.1088/1742-6596/1162/1/012017.
- [399] **ATLAS** Collaboration, R. Pedro, “Optics robustness of the ATLAS Tile Calorimeter”, *J. Phys. Conf. Ser.* **1162** (2019), no. 1, 012004, arXiv:1905.01160. doi:10.1088/1742-6596/1162/1/012004.
- [400] **ATLAS** Collaboration, P. Klimek, “Calibration and performance of the ATLAS Tile Calorimeter during the LHC Run 2”, *J. Phys. Conf. Ser.* **1162** (2019), no. 1, 012003. doi:10.1088/1742-6596/1162/1/012003.

- [401] **ATLAS** Collaboration, L. Masetti, “ATLAS results and prospects with focus on beyond the Standard Model”, *Nucl. Part. Phys. Proc.* **303-305** (2018) 43–48. doi:10.1016/j.nuclphysbps.2019.03.009.
- [402] **ATLAS** Collaboration, M. Aaboud et al., “Search for a right-handed gauge boson decaying into a high-momentum heavy neutrino and a charged lepton in pp collisions with the ATLAS detector at $\sqrt{s} = 13$ TeV”, *Phys. Lett.* **B798** (2019) 134942, arXiv:1904.12679. doi:10.1016/j.physletb.2019.134942.
- [403] **ATLAS** Collaboration, P. Steinberg, “Electromagnetic processes with quasireal photons in Pb+Pb collisions: QED, QCD, and the QGP”, *PoS HardProbes2018* (2019) 187. doi:10.22323/1.345.0187.
- [404] **ATLAS** Collaboration, M. Spusta, “Photon and jet probes of small collision systems with ATLAS”, *PoS HardProbes2018* (2019) 182. doi:10.22323/1.345.0182.
- [405] **ATLAS** Collaboration, J. Kremer, “Heavy electroweak boson production in Pb+Pb and pp collisions with ATLAS”, *PoS HardProbes2018* (2018) 119. doi:10.22323/1.345.0119.
- [406] **ATLAS** Collaboration, A. Trzupek, “Measurement of long-range correlations in Z -tagged pp events with ATLAS”, *PoS HardProbes2018* (2018) 109. doi:10.22323/1.345.0109.
- [407] **ATLAS** Collaboration, P. Balek, “Charged-particle production in Pb+Pb and Xe+Xe collisions measured with the ATLAS detector”, *PoS HardProbes2018* (2019) 088. doi:10.22323/1.345.0088.
- [408] **ATLAS** Collaboration, D. Perepelitsa, “Energy loss and modification of photon-tagged jets with ATLAS”, *PoS HardProbes2018* (2018) 055. doi:10.22323/1.345.0055.
- [409] **ATLAS** Collaboration, K. Burka, “Measurement of the azimuthal anisotropy of charged particles in 5.02 TeV Pb+Pb and 5.44 TeV Xe+Xe collisions with ATLAS experiment”, *PoS HardProbes2018* (2018) 020. doi:10.22323/1.345.0020.
- [410] **ATLAS** Collaboration, A. Milov, “Hard probes results from the ATLAS experiment”, *PoS HardProbes2018* (2019) 003. doi:10.22323/1.345.0003.
- [411] **ATLAS** Collaboration, A. Puri, “Measurement of fragmentation functions and angular and momentum distributions of charged particles within and around jets in Pb+Pb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ATLAS at the LHC”, *PoS HardProbes2018* (2019) 002. doi:10.22323/1.345.0002.
- [412] **ATLAS Muon** Collaboration, G. Mancini, “Construction procedure and first tests of the SM1 type microgas chambers for the new small wheel within the phase 1 upgrade of the forward muon spectrometer of the ATLAS Experiment”, in *Proceedings, 19th Frascati Spring School “Bruno Touschek” in Nuclear, Subnuclear and Astroparticle Physics & 6th Young Researchers Workshop on*

- Physics Challenges in the LHC Era: Frascati, Rome, Italy, May 7-11, 2018*, pp. 49–53. 2018.
- [413] **ATLAS** Collaboration, W. S. Chan, “Search for lepton-flavour-violating decays of the Z boson into a τ -lepton and a light lepton with the ATLAS detector”, *SciPost Phys. Proc.* **1** (2019) 048. doi:10.21468/SciPostPhysProc.1.048.
- [414] **CMS, ATLAS** Collaboration, C. Caputo, “Searches for additional Higgs bosons decaying to tau leptons at the LHC”, *SciPost Phys. Proc.* **1** (2019) 022. doi:10.21468/SciPostPhysProc.1.022.
- [415] **ATLAS** Collaboration, B. Le, “Search for lepton flavour violation with the ATLAS experiment”, *SciPost Phys. Proc.* **1** (2019) 020. doi:10.21468/SciPostPhysProc.1.020.
- [416] **ATLAS** Collaboration, L. K. Schildgen, “Measurements of Higgs-boson decays to leptons with the ATLAS detector”, *SciPost Phys. Proc.* **1** (2019) 019. doi:10.21468/SciPostPhysProc.1.019.
- [417] **ATLAS** Collaboration, G. Aad et al., “Measurement of the cross-section and charge asymmetry of W bosons produced in proton–proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C79** (2019), no. 9, 760, arXiv:1904.05631. doi:10.1140/epjc/s10052-019-7199-0.
- [418] **ATLAS** Collaboration, “Measurement of Differential Cross Sections for Single Diffractive Dissociation in $\sqrt{s} = 8\text{TeV}$ pp collisions using the ATLAS ALFA Spectrometer”. ATLAS-CONF-2019-012, 2019.
- [419] **ATLAS** Collaboration, M. Aaboud et al., “Combination of searches for invisible Higgs boson decays with the ATLAS experiment”, *Phys. Rev. Lett.* **122** (2019), no. 23, 231801, arXiv:1904.05105. doi:10.1103/PhysRevLett.122.231801.
- [420] **ATLAS** Collaboration, G. Aad et al., “Observation of light-by-light scattering in ultraperipheral Pb+Pb collisions with the ATLAS detector”, *Phys. Rev. Lett.* **123** (2019), no. 5, 052001, arXiv:1904.03536. doi:10.1103/PhysRevLett.123.052001.
- [421] **ATLAS Tile Calorimeter System** Collaboration, S. Silverstein, E. Valdes Santurio, and C. Bohm, “An Updated Front-End Data Link Design for the Phase-2 Upgrade of the ATLAS Tile Calorimeter”, in *Proceedings, 2017 IEEE Nuclear Science Symposium and Medical Imaging Conference and 24th international Symposium on Room-Temperature Semiconductor X-Ray & Gamma-Ray Detectors (NSS/MIC 2017): Atlanta, Georgia, USA, October 21-28, 2017*, p. 8533116. 2018.
- [422] **ATLAS LAr-HGTD** Collaboration, C. Agapopoulou, “A High-Granularity Timing Detector for the Phase-II upgrade of the ATLAS Detector System”, in *Proceedings, 2017 IEEE Nuclear Science Symposium and Medical Imaging Conference and 24th international Symposium on Room-Temperature*

Semiconductor X-Ray & Gamma-Ray Detectors (NSS/MIC 2017): Atlanta, Georgia, USA, October 21-28, 2017, p. 8533104. 2018.

- [423] **ATLAS** Collaboration, C.-L. Sotiropoulou, “The Associative Memory Serial Link Processor of the ATLAS Fast Tracker Processing System”, in *Proceedings, 2017 IEEE Nuclear Science Symposium and Medical Imaging Conference and 24th international Symposium on Room-Temperature Semiconductor X-Ray & Gamma-Ray Detectors (NSS/MIC 2017): Atlanta, Georgia, USA, October 21-28, 2017*, p. 8532652. 2018.
- [424] **ATLAS** Collaboration, “Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b -jets and missing transverse momentum”. ATLAS-CONF-2019-011, 2019.
- [425] **ATLAS** Collaboration, “Search for heavy neutral Higgs bosons produced in association with b -quarks and decaying to b -quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-010, 2019.
- [426] **ATLAS** Collaboration, G. Giugliarelli, “Modeling of radiation damage effects and digitization for 3D silicon pixel ATLAS detectors”, *Nucl. Instrum. Meth. A* **924** (2019) 208–213. doi:10.1016/j.nima.2018.06.072.
- [427] **ATLAS** Collaboration, P. Liu, “A new technique for luminosity measurement using 3D pixel modules in the ATLAS IBL detector”, *Nucl. Instrum. Meth. A* **924** (2019) 275–278. doi:10.1016/j.nima.2018.09.027.
- [428] **ATLAS, ALICE, CMS, LHCb** Collaboration, F. Hartmann, “Silicon-based detectors at the HL-LHC”, *Nucl. Instrum. Meth. A* **924** (2019) 250–255. doi:10.1016/j.nima.2018.08.101.
- [429] **ATLAS Pixel** Collaboration, C. B. Martin, “Operational experience and performance with the ATLAS Pixel Detector”, *Nucl. Instrum. Meth. A* **924** (2019) 293–296. doi:10.1016/j.nima.2018.06.033.
- [430] **ATLAS** Collaboration, L. P. Rossi, “The phase-2 ATLAS ITk pixel upgrade”, *Nucl. Instrum. Meth. A* **924** (2019) 270–274. doi:10.1016/j.nima.2018.08.006.
- [431] **ATLAS ITk CMOS pixel** Collaboration, H. Pernegger, “Monolithic pixel development in TowerJazz 180 nm CMOS for the outer pixel layers in the ATLAS experiment”, *Nucl. Instrum. Meth. A* **924** (2019) 92–98. doi:10.1016/j.nima.2018.07.043.
- [432] **ATLAS LAr-HGTD Group** Collaboration, C. Allaire, “A High-Granularity Timing Detector in ATLAS: Performance at the HL-LHC”, *Nucl. Instrum. Meth. A* **924** (2019) 355–359. doi:10.1016/j.nima.2018.05.028.
- [433] **ATLAS** Collaboration, G. Aad et al., “Evidence for the production of three massive vectorbosons in pp collisions with the ATLAS detector”, *PoS DIS2019* (2019) 135. doi:10.22323/1.352.0135.

- [434] **ATLAS** Collaboration, G. Aad et al., “Measurement of the production cross section for a Higgs boson in association with a vector boson in the $H \rightarrow WW^* \rightarrow \ell\nu\ell\nu$ channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett.* **B798** (2019) 134949, arXiv:1903.10052. doi:10.1016/j.physletb.2019.134949.
- [435] **ATLAS** Collaboration, H. Santos, “Results on quarkonia production in Heavy Ion collisions from the ATLAS Experiment”, *J. Phys. Conf. Ser.* **1137** (2018), no. 1, 012046. doi:10.1088/1742-6596/1137/1/012046.
- [436] **ATLAS, CMS** Collaboration, R. Gonçalo, “Recent highlights in top quark and Higgs boson physics from the LHC”, *J. Phys. Conf. Ser.* **1137** (2019), no. 1, 012012. doi:10.1088/1742-6596/1137/1/012012.
- [437] **ATLAS** Collaboration, “Measurement of the CP violation phase ϕ_s in $B_s \rightarrow J/\psi\phi$ decays in ATLAS at 13 TeV”. ATLAS-CONF-2019-009, 2019.
- [438] **ATLAS** Collaboration, “Search for electroweak production of charginos and sleptons decaying in final states with two leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector”. ATLAS-CONF-2019-008, 2019.
- [439] **ATLAS** Collaboration, “Search for New Phenomena in Dijet Events using 139 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV collected with the ATLAS Detector”. ATLAS-CONF-2019-007, 2019.
- [440] **ATLAS** Collaboration, “Search for long-lived, massive particles in events with a displaced vertex and a displaced muon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-006, 2019.
- [441] **ATLAS** Collaboration, “Combined measurements of Higgs boson production and decay using up to 80 fb^{-1} of proton–proton collision data at $\sqrt{s} = 13$ TeV collected with the ATLAS experiment”. ATLAS-CONF-2019-005, 2019.
- [442] **ATLAS** Collaboration, “Measurement of Higgs boson production in association with a $t\bar{t}$ pair in the diphoton decay channel using 139 fb^{-1} of LHC data collected at $\sqrt{s} = 13$ TeV by the ATLAS experiment”. ATLAS-CONF-2019-004, 2019.
- [443] **ATLAS** Collaboration, M. Aaboud et al., “Measurements of top-quark pair spin correlations in the $e\mu$ channel at $\sqrt{s} = 13$ TeV using pp collisions in the ATLAS detector”, *Submitted to: Eur. Phys. J.* (2019) arXiv:1903.07570.
- [444] **ATLAS** Collaboration, S. Turchikhin, “Charm physics at ATLAS”, *EPJ Web Conf.* **202** (2019) 05001. doi:10.1051/epjconf/201920205001.
- [445] **ATLAS** Collaboration, “Search for diboson resonances in hadronic final states in 139 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-003, 2019.

- [446] **ATLAS** Collaboration, “Observation of light-by-light scattering in ultraperipheral Pb+Pb collisions with the ATLAS detector”. ATLAS-CONF-2019-002, 2019.
- [447] **ATLAS** Collaboration, G. Aad et al., “Search for high-mass dilepton resonances using 139 fb^{-1} of pp collision data collected at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, *Phys. Lett.* **B796** (2019) 68–87, arXiv:1903.06248. doi:10.1016/j.physletb.2019.07.016.
- [448] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of VH , $H \rightarrow b\bar{b}$ production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector”, *JHEP* **05** (2019) 141, arXiv:1903.04618. doi:10.1007/JHEP05(2019)141.
- [449] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, *JHEP* **08** (2019) 033, arXiv:1903.02942. doi:10.1007/JHEP08(2019)033.
- [450] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of prompt photon production in $\sqrt{s_{NN}} = 8.16 \text{ TeV}$ $p+\text{Pb}$ collisions with ATLAS”, *Phys. Lett.* **B796** (2019) 230–252, arXiv:1903.02209. doi:10.1016/j.physletb.2019.07.031.
- [451] **ATLAS** Collaboration, M. Bahmani, “Data-driven estimation of fake τ background in Higgs searches in ATLAS”, *PoS CHARGED2018* (2019) 018. doi:10.22323/1.339.0018.
- [452] **ATLAS** Collaboration, A. Bailey, “Searches for BSM Higgs bosons in fermionic decays in ATLAS”, *PoS CHARGED2018* (2019) 010. doi:10.22323/1.339.0010.
- [453] **ATLAS** Collaboration, G. Ucchielli, “Searches for doubly charged Higgs bosons with the ATLAS detector”, *PoS CHARGED2018* (2019) 008. doi:10.22323/1.339.0008.
- [454] **ATLAS** Collaboration, F. Barreiro, “Probing perturbative QCD at the ATLAS experiment”, *Nucl. Part. Phys. Proc.* **300-302** (2018) 7–11. doi:10.1016/j.nuclphysbps.2018.12.003.
- [455] **ATLAS** Collaboration, A. Vishwakarma, “Measurements of top quark production cross-section at ATLAS”, *Nucl. Part. Phys. Proc.* **300-302** (2018) 46–52. doi:10.1016/j.nuclphysbps.2018.12.010.
- [456] **ATLAS** Collaboration, T. Dado, “Top quark properties and mass measurements with ATLAS”, *Nucl. Part. Phys. Proc.* **300-302** (2018) 40–45. doi:10.1016/j.nuclphysbps.2018.12.009.
- [457] **ATLAS** Collaboration, I. Carli, “New results for exotic quarkonia and heavy flavour with ATLAS”, *Nucl. Part. Phys. Proc.* **300-302** (2018) 175–178. doi:10.1016/j.nuclphysbps.2018.12.029.

- [458] **ATLAS** Collaboration, T. Barillari, “Measurements of the top-quark mass with the ATLAS detector”, *PoS ICHEP2018* (2019) 656, arXiv:1903.00576. doi:10.22323/1.340.0656.
- [459] **ATLAS** Collaboration, M. Aaboud et al., “Constraints on mediator-based dark matter and scalar dark energy models using $\sqrt{s} = 13$ TeV pp collision data collected by the ATLAS detector”, *JHEP* **05** (2019) 142, arXiv:1903.01400. doi:10.1007/JHEP05(2019)142.
- [460] **ATLAS** Collaboration, D. Krasnopevtsev, “Photon + V measurements in ATLAS”, *CERN Proc.* **1** (2018) 229. doi:10.23727/CERN-Proceedings-2018-001.229.
- [461] **ATLAS** Collaboration, S. Webb, “Photon interactions in ultra-peripheral heavy-ion collisions in the ATLAS detector at the LHC”, *CERN Proc.* **1** (2018) 137. doi:10.23727/CERN-Proceedings-2018-001.137.
- [462] **ATLAS** Collaboration, M. Trzebinski, “Prospects for Photon-Photon and Photon-Proton Measurements with Forward Proton Taggers in ATLAS”, *CERN Proc.* **1** (2018) 113. doi:10.23727/CERN-Proceedings-2018-001.113.
- [463] **ATLAS** Collaboration, C. C. Chau, “Two-Photon Measurements in ATLAS”, *CERN Proc.* **1** (2018) 45. doi:10.23727/CERN-Proceedings-2018-001.45.
- [464] **ATLAS**, **CMS** Collaboration, ATLAS and C. Collaborations, “Addendum to the report on the physics at the HL-LHC, and perspectives for the HE-LHC: Collection of notes from ATLAS and CMS”, *CERN Yellow Rep. Monogr.* **7** (2019) Addendum, arXiv:1902.10229. doi:10.23731/CYRM-2019-007.Addendum.
- [465] **ATLAS** Collaboration, “Search for high-mass dilepton resonances using 139 fb^{-1} of pp collision data collected at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2019-001, 2019.
- [466] **ATLAS** Collaboration, M. Aaboud et al., “Search for heavy particles decaying into a top-quark pair in the fully hadronic final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev.* **D99** (2019), no. 9, 092004, arXiv:1902.10077. doi:10.1103/PhysRevD.99.092004.
- [467] **ATLAS** Collaboration, M. Aaboud et al., “Comparison of Fragmentation Functions for Jets Dominated by Light Quarks and Gluons from pp and Pb+Pb Collisions in ATLAS”, *Phys. Rev. Lett.* **123** (2019), no. 4, 042001, arXiv:1902.10007. doi:10.1103/PhysRevLett.123.042001.
- [468] **ATLAS** Collaboration, M. Clark, “Femtoscopy in $\sqrt{s} = 5.02$ TeV p-Pb collisions with ATLAS”, *J. Phys. Conf. Ser.* **832** (2017), no. 1, 012014. doi:10.1088/1742-6596/832/1/012014.
- [469] **ATLAS** Collaboration, M. E. Pozo Astigarraga, “ATLAS Trigger and Data Acquisition Upgrades for the High Luminosity LHC”, in *Proceedings, 14th*

International Conference on e-Science: Amsterdam, Netherlands, October 29-November 1, 2018, pp. 358–359. 2018.

- [470] **ATLAS** Collaboration, C. Leggett and I. Shapoval, “Simulating HEP Workflows on Heterogeneous Architectures”, in *Proceedings, 14th International Conference on e-Science: Amsterdam, Netherlands, October 29-November 1, 2018*, p. 343. 2018.
- [471] **ATLAS** Collaboration, D. Benjamin et al., “Fine-Grained Processing Towards HL-LHC Computing in ATLAS”, in *Proceedings, 14th International Conference on e-Science: Amsterdam, Netherlands, October 29-November 1, 2018*, p. 338. 2018.
- [472] **ATLAS** Collaboration, M. Aaboud et al., “Searches for third-generation scalar leptoquarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”, *JHEP* **06** (2019) 144, arXiv:1902.08103. doi:10.1007/JHEP06(2019)144.
- [473] **ATLAS, CMS** Collaboration, M. Aaboud et al., “Combinations of single-top-quark production cross-section measurements and $|f_{LV}V_{tb}|$ determinations at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS experimentsCombinations of single-top-quark production cross-section measurements and $|f_{LV}V_{tb}|$ determinations at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS experiments”, *JHEP* **05** (2019) 088, arXiv:1902.07158. doi:10.1007/JHEP05(2019)088.
- [474] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the four-lepton invariant mass spectrum in 13 TeV proton-proton collisions with the ATLAS detector”, *JHEP* **04** (2019) 048, arXiv:1902.05892. doi:10.1007/JHEP04(2019)048.
- [475] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of $W^{\pm}Z$ production cross sections and gauge boson polarisation in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C79** (2019), no. 6, 535, arXiv:1902.05759. doi:10.1140/epjc/s10052-019-7027-6.
- [476] **ATLAS** Collaboration, M. Aaboud et al., “Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $\sqrt{s} = 13$ TeV”, *Eur. Phys. J.* **C79** (2019), no. 8, 639, arXiv:1902.04655. doi:10.1140/epjc/s10052-019-7140-6.
- [477] **ATLAS, CMS** Collaboration, S. Sekmen, “Beyond the Standard Model Physics at the High Luminosity LHC”, *PoS ICHEP2018* (2019) 283, arXiv:1902.03942. doi:10.22323/1.340.0283.
- [478] **ATLAS** Collaboration, A. Marantis, “The ATLAS Fast TracKer—Architecture, Status and High-Level Data Quality Monitoring Framework”, *Universe* **5** (2019), no. 1, 32. doi:10.3390/universe5010032.

- [479] **ATLAS** Collaboration, M. Aaboud et al., “Search for long-lived neutral particles in pp collisions at $\sqrt{s} = 13$ TeV that decay into displaced hadronic jets in the ATLAS calorimeter”, *Eur. Phys. J.* **C79** (2019), no. 6, 481, arXiv:1902.03094. doi:10.1140/epjc/s10052-019-6962-6.
- [480] **ATLAS** Collaboration, W. Song, “Recent results of quarkonium and heavy flavour physics at ATLAS”, *EPJ Web Conf.* **199** (2019) 04004. doi:10.1051/epjconf/201919904004.
- [481] **ATLAS** Collaboration, M. Aaboud et al., “Search for heavy charged long-lived particles in the ATLAS detector in 36.1 fb^{-1} of proton-proton collision data at $\sqrt{s} = 13$ TeV”, *Phys. Rev.* **D99** (2019), no. 9, 092007, arXiv:1902.01636. doi:10.1103/PhysRevD.99.092007.
- [482] **ATLAS** Collaboration, M. Aaboud et al., “Searches for scalar leptoquarks and differential cross-section measurements in dilepton-dijet events in proton-proton collisions at a centre-of-mass energy of $\sqrt{s} = 13$ TeV with the ATLAS experiment”, *Eur. Phys. J.* **C79** (2019), no. 9, 733, arXiv:1902.00377. doi:10.1140/epjc/s10052-019-7181-x.
- [483] **ATLAS** Collaboration, C. Nellist, “ $t\bar{t} + Z / W / t\bar{t}$ at ATLAS”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2019. arXiv:1902.00118.
- [484] **ATLAS** Collaboration, M. Aaboud et al., “Search for low-mass resonances decaying into two jets and produced in association with a photon using pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett.* **B795** (2019) 56–75, arXiv:1901.10917. doi:10.1016/j.physletb.2019.03.067.
- [485] **ATLAS, CMS** Collaboration, M. M. Defranchis, “Measurements of the inclusive $t\bar{t}$ production cross section at the ATLAS and CMS experiments”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2019. arXiv:1901.10898.
- [486] **ATLAS, CMS** Collaboration, F. Fabbri, “Comparative overview of differential measurements at ATLAS and CMS”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2019. arXiv:1901.10827.
- [487] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the ratio of cross sections for inclusive isolated-photon production in pp collisions at $\sqrt{s} = 13$ and 8 TeV with the ATLAS detector”, *JHEP* **04** (2019) 093, arXiv:1901.10075. doi:10.1007/JHEP04(2019)093.
- [488] **ATLAS** Collaboration, M. Aaboud et al., “Dijet azimuthal correlations and conditional yields in pp and $p+\text{Pb}$ collisions at $\sqrt{s_{NN}}=5.02\text{TeV}$ with the ATLAS detector”, *Phys. Rev.* **C100** (2019), no. 3, 034903, arXiv:1901.10440. doi:10.1103/PhysRevC.100.034903.

- [489] **ATLAS** Collaboration, I. Grabowska-Bold, “Highlights from the ATLAS experiment”, *Nucl. Phys.* **A982** (2019) 8–14.
doi:10.1016/j.nuclphysa.2018.08.024.
- [490] **ATLAS** Collaboration, Q. Hu, “Measurement of heavy flavor production and azimuthal anisotropy in small and large systems with ATLAS”, *Nucl. Phys.* **A982** (2019) 687–690. doi:10.1016/j.nuclphysa.2018.09.028.
- [491] **ATLAS** Collaboration, M. Spousta, “Jet suppression and jet substructure in Pb+Pb and Xe+Xe collisions with the ATLAS detector”, *Nucl. Phys.* **A982** (2019) 611–614. doi:10.1016/j.nuclphysa.2018.08.031.
- [492] **ATLAS** Collaboration, Z. Citron, “Electroweak probes of small and large systems with the ATLAS detector”, *Nucl. Phys.* **A982** (2019) 603–606.
doi:10.1016/j.nuclphysa.2018.09.029.
- [493] **ATLAS** Collaboration, D. V. Perepelitsa, “Photon-tagged measurements of jet quenching with ATLAS”, *Nucl. Phys.* **A982** (2019) 595–598.
doi:10.1016/j.nuclphysa.2018.09.056.
- [494] **ATLAS** Collaboration, P. Balek, “Charged-hadron suppression in Pb+Pb and Xe+Xe collisions measured with the ATLAS detector”, *Nucl. Phys.* **A982** (2019) 571–574, arXiv:1908.11636. doi:10.1016/j.nuclphysa.2018.10.079.
- [495] **ATLAS** Collaboration, D. Derendarz, “Measurement of the flow harmonic correlations in pp , p +Pb and low multiplicity Pb+Pb collisions with the ATLAS detector at the LHC”, *Nucl. Phys.* **A982** (2019) 479–482.
doi:10.1016/j.nuclphysa.2018.09.076.
- [496] **ATLAS** Collaboration, T. Bold, “Measurement of the azimuthal anisotropy of charged particles in 5.02 TeV Pb+Pb and 5.44 TeV Xe+Xe collisions with ATLAS”, *Nucl. Phys.* **A982** (2019) 391–394.
doi:10.1016/j.nuclphysa.2018.09.045.
- [497] **ATLAS** Collaboration, M. Zhou, “Flow fluctuations in Pb+Pb collisions at $\sqrt{s_{NN}}=5.02\text{TeV}$ with the ATLAS detector”, *Nucl. Phys.* **A982** (2019) 323–326.
doi:10.1016/j.nuclphysa.2018.09.012.
- [498] **ATLAS** Collaboration, P. Steinberg, “Electromagnetic processes with quasireal photons in Pb+Pb collisions: QED, QCD, and the QGP”, *Nucl. Phys.* **A982** (2019) 259–262. doi:10.1016/j.nuclphysa.2018.10.087.
- [499] **ATLAS** Collaboration, A. Puri, “Measurement of angular and momentum distributions of charged particles within and around jets in Pb+Pb and pp collisions at $\sqrt{s_{NN}} = 5.02\text{TeV}$ with ATLAS at the LHC”, *Nucl. Phys.* **A982** (2019) 177–179. doi:10.1016/j.nuclphysa.2018.09.021.
- [500] **ATLAS** Collaboration, M. Aaboud et al., “Search for scalar resonances decaying into $\mu^+\mu^-$ in events with and without b -tagged jets produced in proton-proton

- collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **07** (2019) 117, arXiv:1901.08144. doi:10.1007/JHEP07(2019)117.
- [501] **ATLAS** Collaboration, W.-M. Yao, “Higgs(general) at ATLAS”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2019. arXiv:1901.05527.
- [502] **ATLAS** Collaboration, M. Melo, “Top-antitop charge asymmetry measurements in the lepton+jets channel with the ATLAS detector”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2019. arXiv:1901.05034.
- [503] **ATLAS** Collaboration, C. Sbarra, “The LUCID Detector for LHC Run-2”, *Universe* **5** (2019), no. 1, 11. doi:10.3390/universe5010011.
- [504] **ATLAS, CMS** Collaboration, S. Tokar, “Top-quark mass at ATLAS and CMS”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2019. arXiv:1901.04740.
- [505] **ATLAS** Collaboration, M. Negrini, “Differential measurements of $t\bar{t}$ production in ATLAS”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2019. arXiv:1901.04735.
- [506] **ATLAS** Collaboration, S. Heer, “Top-quark pair production in association with a Z boson in the 4ℓ channel with the ATLAS experiment”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2019. arXiv:1901.04408.
- [507] **ATLAS** Collaboration, S. Kido, “Top-antitop charge asymmetry measurements in the dilepton channel with the ATLAS detector”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2019. arXiv:1901.04242.
- [508] **ATLAS, CMS** Collaboration, S. Menke, “Measurements of the top quark mass using the CMS and ATLAS detectors at the LHC”, in *Proceedings, 53rd Rencontres de Moriond on Electroweak Interactions and Unified Theories (Moriond EW 2018): La Thuile, Italy, March 10-17, 2018*, pp. 91–96. 2018.
- [509] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the $t\bar{t}Z$ and $t\bar{t}W$ cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev.* **D99** (2019), no. 7, 072009, arXiv:1901.03584. doi:10.1103/PhysRevD.99.072009.
- [510] **ATLAS** Collaboration, M. M. Llácer, “Measurements of inclusive and differential fiducial cross-sections of $t\bar{t}\gamma$ production in leptonic final states at $\sqrt{s} = 13$ TeV”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2019. arXiv:1901.03359.
- [511] **ATLAS** Collaboration, Y. Okumura, “Search for new physics in final states with leptons with ATLAS”, *PoS LHCP2018* (2018) 273. doi:10.22323/1.321.0273.

- [512] **ATLAS** Collaboration, W. C. Kalderon, “Recursive engagement: the public as data analysts and outreach creators”, *PoS LHCP2018* (2018) 303. doi:10.22323/1.321.0303.
- [513] **ATLAS** Collaboration, O. Kivernyk, “Latest results on single electroweak boson production from ATLAS experiment”, *PoS LHCP2018* (2018) 295. doi:10.22323/1.321.0295.
- [514] **ATLAS** Collaboration, T. A. Kharlamova, “Latest results on diboson and multiboson production from ATLAS experiment”, *PoS LHCP2018* (2018) 287. doi:10.22323/1.321.0287.
- [515] **ATLAS** Collaboration, R. Kopeliansky, “Searches for unconventional signatures with the ATLAS detector at 13 TeV”, *PoS LHCP2018* (2018) 283. doi:10.22323/1.321.0283.
- [516] **CMS, ATLAS** Collaboration, K. Hoepfner, “Experimental BSM prospects at the HL-LHC”, *PoS LHCP2018* (2018) 261. doi:10.22323/1.321.0261.
- [517] **ATLAS** Collaboration, S. Mergelmeyer, “Measurements of Single Top-Quark Production Using the ATLAS Detector at the LHC”, *PoS LHCP2018* (2018) 249. doi:10.22323/1.321.0249.
- [518] **ATLAS, CMS** Collaboration, S. Valentinetti, “Luminosity Measurements in ATLAS and CMS during pp data taking at LHC”, *PoS LHCP2018* (2018) 234. doi:10.22323/1.321.0234.
- [519] **CMS, ATLAS** Collaboration, C. Galloni, “Hadronic tau reconstruction and identification performance in ATLAS and CMS”, *PoS LHCP2018* (2018) 228. doi:10.22323/1.321.0228.
- [520] **ATLAS** Collaboration, N. Styles, “Tracking, alignment, and b-tagging performance and prospects in the ATLAS experiment”, *PoS LHCP2018* (2018) 225. doi:10.22323/1.321.0225.
- [521] **ATLAS** Collaboration, A. Trzupek, “New results on soft particle production in heavy-ion collisions with ATLAS”, *PoS LHCP2018* (2018) 218. doi:10.22323/1.321.0218.
- [522] **ATLAS** Collaboration, M. Przybycien, “New results on collectivity in small systems with ATLAS”, *PoS LHCP2018* (2018) 213. doi:10.22323/1.321.0213.
- [523] **ATLAS** Collaboration, B. Giacobbe, “Jets plus γ/Z in ATLAS”, *PoS LHCP2018* (2018) 195. doi:10.22323/1.321.0195.
- [524] **ATLAS, CMS** Collaboration, A. Di Florio, “Heavy Flavour production at ATLAS and CMS”, *PoS LHCP2018* (2018) 178. doi:10.22323/1.321.0178.
- [525] **CMS, ATLAS** Collaboration, M. Meyer, “Experimental results using the decay of the Higgs boson to tau leptons and muons”, *PoS LHCP2018* (2018) 152. doi:10.22323/1.321.0152.

- [526] **ATLAS, CMS** Collaboration, J.-B. Sauvan, “Status of ATLAS and CMS upgrades on calorimetry and timing”, *PoS LHCP2018* (2018) 143. doi:10.22323/1.321.0143.
- [527] **ALICE, ATLAS, CMS, LHCb** Collaboration, J. Fernandez Menendez, “Top pair production measurements, inclusive and differential”, *PoS LHCP2018* (2018) 137. doi:10.22323/1.321.0137.
- [528] **ALICE, ATLAS, CMS, LHCb** Collaboration, M. Galanti, “Production, spectroscopy and properties of heavy hadrons”, *PoS LHCP2018* (2018) 132. doi:10.22323/1.321.0132.
- [529] **ATLAS, CDF, CMS, D0, LHCb** Collaboration, M. Pieri, “Precision Electroweak Measurements at the LHC and Tevatron”, *PoS LHCP2018* (2018) 112. doi:10.22323/1.321.0112.
- [530] **ALICE, ATLAS, CMS, LHCb** Collaboration, E. Kryshen, “QCD at forward rapidity, in ultra-peripheral collisions, and multi-parton interactions”, *PoS LHCP2018* (2018) 108. doi:10.22323/1.321.0108.
- [531] **ATLAS Muon** Collaboration, V. M. Walbrecht, “Phase I and II Upgrades of the ATLAS Muon Spectrometer with Integrated Small Diameter Drift Tube Chambers and Thin-Gap Resistive Plate Chambers”, *PoS LHCP2018* (2018) 083. doi:10.22323/1.321.0083.
- [532] **ATLAS Muon** Collaboration, D. Vannicola, “The Micromegas detector for the upgrade of the Muon Spectrometer of the ATLAS experiment”, *PoS LHCP2018* (2018) 081. doi:10.22323/1.321.0081.
- [533] **ATLAS** Collaboration, C. Sebastiani, “Long-Lived Particles at HL-LHC with the ATLAS detector”, *PoS LHCP2018* (2018) 080. doi:10.22323/1.321.0080.
- [534] **ATLAS** Collaboration, C. Doglioni, E. Lytken, and A. Sanchez Pineda, “The ATLAS Open Data project”, *PoS LHCP2018* (2018) 040. doi:10.22323/1.321.0040.
- [535] **ATLAS** Collaboration, A. Sidoti, “The social content strategy of the ATLAS Collaboration”, *PoS LHCP2018* (2018) 038. doi:10.22323/1.321.0038.
- [536] **ATLAS** Collaboration, L. Mijovic, “Track reconstruction in high-multiplicity environments with the ATLAS Detector at the LHC”, *PoS LHCP2018* (2018) 036. doi:10.22323/1.321.0036.
- [537] **ATLAS Muon** Collaboration, L. Massa, “The Phase-II upgrade of the ATLAS Muon Spectrometer”, *PoS LHCP2018* (2018) 034. doi:10.22323/1.321.0034.
- [538] **ATLAS Muon Group** Collaboration, F. Lasagni Manghi, “New Muon Trigger Chambers for ATLAS Phase I upgrade: DAQ system”, *PoS LHCP2018* (2018) 033. doi:10.22323/1.321.0033.

- [539] **ATLAS** Collaboration, L. Fabbri, “LUCID: The ATLAS Luminosity Detector”, *PoS LHCP2018* (2018) 032. doi:10.22323/1.321.0032.
- [540] **ATLAS** Collaboration, A. E. Ogrodnik, “Triggering on light-by-light scattering in the ATLAS experiment”, *PoS LHCP2018* (2018) 030. doi:10.22323/1.321.0030.
- [541] **ATLAS** Collaboration, M. Calvetti and N. V. Biesuz, “Integration and Commissioning of the ATLAS Fast Tracker system”, *PoS LHCP2018* (2018) 028. doi:10.22323/1.321.0028.
- [542] **ATLAS** Collaboration, J. Hoya, “ATLAS Electron and Photon Trigger”, *PoS LHCP2018* (2018) 027. doi:10.22323/1.321.0027.
- [543] **ATLAS** Collaboration, J. Little, “The ATLAS Tile Calorimeter Phase-II Upgrade Demonstrator Data Acquisition and Software”, *PoS LHCP2018* (2018) 026. doi:10.22323/1.321.0026.
- [544] **ATLAS** Collaboration, T. Van Daalen, “Performance of the ATLAS Hadronic Tile Calorimeter”, *PoS LHCP2018* (2018) 025. doi:10.22323/1.321.0025.
- [545] **ATLAS** Collaboration, M. Hübner, “Measurement of the tau lepton reconstruction and identification performance in the ATLAS experiment using pp collisions at $\sqrt{s} = 13$ TeV”, *PoS LHCP2018* (2018) 024. doi:10.22323/1.321.0024.
- [546] **ATLAS** Collaboration, P. A. Janus, “Measurement of W boson production in Pb+Pb collisions at 5.02 TeV with the ATLAS detector”, *PoS LHCP2018* (2018) 022. doi:10.22323/1.321.0022.
- [547] **ATLAS** Collaboration, C. Vittori, “Measurements of the production of W/Z boson in association with (heavy flavour) jets with the ATLAS detector”, *PoS LHCP2018* (2018) 021. doi:10.22323/1.321.0021.
- [548] **ATLAS** Collaboration, E. M. Freundlich, “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”, *PoS LHCP2018* (2018) 017. doi:10.22323/1.321.0017.
- [549] **ATLAS** Collaboration, P. P. Gadow, “Search for dark matter produced in association with a hadronically decaying Z’ vector boson with the ATLAS detector at the LHC”, *PoS LHCP2018* (2018) 016. doi:10.22323/1.321.0016.
- [550] **ATLAS** Collaboration, M. Marjanovic, “Search for a W’ decaying to $t\bar{b}$ in the lepton plus jets final state with the ATLAS detector using 36.1 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV”, *PoS LHCP2018* (2018) 015. doi:10.22323/1.321.0015.
- [551] **ATLAS** Collaboration, Y. Kano, “Search for pairs of highly collimated groupings of photons at 13 TeV with the ATLAS detector”, *PoS LHCP2018* (2018) 013. doi:10.22323/1.321.0013.

- [552] **ATLAS** Collaboration, T. Novak, “Search for type-III seesaw heavy leptons using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *PoS LHCP2018* (2018) 012. doi:10.22323/1.321.0012.
- [553] **ATLAS** Collaboration, G. Ucchielli, “Data-driven methods for estimation of misreconstructed object background in lepton final states with ATLAS at $\sqrt{s} = 13$ TeV”, *PoS LHCP2018* (2018) 011. doi:10.22323/1.321.0011.
- [554] **ATLAS** Collaboration, S. Biondi, “Search for $t\bar{t}H$ production in high- p_T regimes with the ATLAS detector”, *PoS LHCP2018* (2018) 005. doi:10.22323/1.321.0005.
- [555] **ATLAS, CMS** Collaboration, L. Serkin, “Top quarks and exotics at ATLAS and CMS”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2019. arXiv:1901.01765.
- [556] **ATLAS, LHeC, FCC** Collaboration, S. Sultansoy, “Energy frontier lepton-hadron colliders, vector-like quarks and leptons, preons and so on”, arXiv:1901.00309.
- [557] **ATLAS** Collaboration, M. Aaboud et al., “Search for top-quark decays $t \rightarrow Hq$ with 36 fb $^{-1}$ of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **05** (2019) 123, arXiv:1812.11568. doi:10.1007/JHEP05(2019)123.
- [558] **ATLAS** Collaboration, M. Aaboud et al., “Search for chargino and neutralino production in final states with a Higgs boson and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev.* **D100** (2019), no. 1, 012006, arXiv:1812.09432. doi:10.1103/PhysRevD.100.012006.
- [559] **ATLAS** Collaboration, M. Aaboud et al., “Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **05** (2019) 041, arXiv:1812.09743. doi:10.1007/JHEP05(2019)041.
- [560] **ATLAS** Collaboration, M. Aaboud et al., “Observation of electroweak $W^\pm Z$ boson pair production in association with two jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett.* **B793** (2019) 469–492, arXiv:1812.09740. doi:10.1016/j.physletb.2019.05.012.
- [561] **ATLAS** Collaboration, M. Aaboud et al., “Properties of $g \rightarrow b\bar{b}$ at small opening angles in pp collisions with the ATLAS detector at $\sqrt{s} = 13$ TeV”, *Phys. Rev.* **D99** (2019), no. 5, 052004, arXiv:1812.09283. doi:10.1103/PhysRevD.99.052004.
- [562] **ATLAS, CMS** Collaboration, N. Trevisani, “Collider Searches for Dark Matter (ATLAS + CMS)”, *Universe* **4** (2018), no. 11, 131. doi:10.3390/universe4110131.

- [563] **ATLAS, CMS** Collaboration, M. Gallinaro, “Searches for Higgs bosons with dark matter at the Large Hadron Collider”, *PoS CHARGED2018* (2019) 024, arXiv:1812.07964. doi:10.22323/1.339.0024.
- [564] **ATLAS** Collaboration, “Calibration of the b -tagging efficiency on charm jets using a sample of $W+c$ events with $\sqrt{s} = 13$ TeV ATLAS data”. ATLAS-CONF-2018-055, 2018.
- [565] **ATLAS** Collaboration, M. Aaboud et al., “Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **05** (2019) 164, arXiv:1812.07343. doi:10.1007/JHEP05(2019)164.
- [566] **ATLAS Tile Calorimeter System** Collaboration, H. Lazar, “The Atlas Tile Calorimeter experience with 10,000 readout photomultipliers operating since the start of the p-p collisions at LHC”, *Nucl. Instrum. Meth.* **A912** (2018) 248–251. doi:10.1016/j.nima.2017.11.068.
- [567] **ATLAS, CMS** Collaboration, P. Van Mulders, “Top quark properties”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2018. arXiv:1812.05819.
- [568] **ATLAS** Collaboration, A. Korn, “Charmonium Production and HF decay properties at ATLAS”, *PoS HQL2018* (2018) 040. doi:10.22323/1.332.0040.
- [569] **ATLAS** Collaboration, R. Novotny, “Spectroscopy and exotica of heavy flavor states in ATLAS”, *PoS HQL2018* (2018) 037. doi:10.22323/1.332.0037.
- [570] **ATLAS, CMS** Collaboration, S. Shimizu, “Highlights of top quark production measurements at LHC”, *PoS HQL2018* (2018) 022. doi:10.22323/1.332.0022.
- [571] **ATLAS** Collaboration, W. Wang, “ATLAS Search for Dark Matter Produced in Association with a Hadronically Decaying Vector Boson”, *PoS EDSU2018* (2018) 030. doi:10.22323/1.335.0030.
- [572] **ATLAS** Collaboration, M. Aaboud et al., “Electron and photon energy calibration with the ATLAS detector using 2015–2016 LHC proton-proton collision data”, *JINST* **14** (2019), no. 03, P03017, arXiv:1812.03848. doi:10.1088/1748-0221/14/03/P03017.
- [573] **ATLAS** Collaboration, M. Aaboud et al., “Search for heavy long-lived multicharged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector”, *Phys. Rev.* **D99** (2019), no. 5, 052003, arXiv:1812.03673. doi:10.1103/PhysRevD.99.052003.
- [574] **ATLAS** Collaboration, S. Heer, “Top-quark pair production in association with a W or Z boson with the ATLAS experiment”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2018. arXiv:1812.03679.

- [575] **ATLAS** Collaboration, M. Aaboud et al., “Study of the rare decays of B_s^0 and B^0 mesons into muon pairs using data collected during 2015 and 2016 with the ATLAS detector”, *JHEP* **04** (2019) 098, arXiv:1812.03017. doi:10.1007/JHEP04(2019)098.
- [576] **ATLAS** Collaboration, J. Kroll, “ATLAS ITk Strip Detector for High-Luminosity LHC”, *PoS Vertex 2017* (2018) 008. doi:10.22323/1.309.0008.
- [577] **ATLAS** Collaboration, L. Marchese, “Muon reconstruction performance of the ATLAS detector in 2016”, *EPJ Web Conf.* **182** (2018) 03008. doi:10.1051/epjconf/201818203008.
- [578] **ATLAS** Collaboration, M. Przybycien, “Heavy-ion Physics (ATLAS)”, *EPJ Web Conf.* **182** (2018) 02101. doi:10.1051/epjconf/201818202101.
- [579] **ATLAS** Collaboration, A. Hedef, “ $t\bar{t}H$ Coupling Measurement with the ATLAS Detector at the LHC”, *EPJ Web Conf.* **182** (2018) 02052. doi:10.1051/epjconf/201818202052.
- [580] **ATLAS** Collaboration, P. J. Bussey, “Measurements of low energy observables, elastic pp interactions and exclusive production in proton-proton collisions with the ATLAS Detector”, *EPJ Web Conf.* **182** (2018) 02024. doi:10.1051/epjconf/201818202024.
- [581] **ATLAS** Collaboration, M. Aaboud et al., “Measurements of inclusive and differential fiducial cross-sections of $t\bar{t}\gamma$ production in leptonic final states at $\sqrt{s} = 13$ TeV in ATLAS”, *Eur. Phys. J.* **C79** (2019), no. 5, 382, arXiv:1812.01697. doi:10.1140/epjc/s10052-019-6849-6.
- [582] **ATLAS** Collaboration, T. Vale, “Search for pair-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”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2018. arXiv:1812.02112.
- [583] **ATLAS** Collaboration, A. Peixoto, “Search for flavour-changing neutral currents tZ interactions in pp collisions at $\sqrt{s}=13$ TeV with ATLAS”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2018. arXiv:1812.01363.
- [584] **ATLAS, CMS** Collaboration, F. Lyu, “SUSY Searches with Taus at the LHC”, *SciPost Phys. Proc.* **1** (2019) 023. doi:10.21468/SciPostPhysProc.1.023.
- [585] **ATLAS** Collaboration, “Combination of searches for invisible Higgs boson decays with the ATLAS experiment”. ATLAS-CONF-2018-054, 2018.
- [586] **ATLAS** Collaboration, M. Aaboud et al., “Measurements of inclusive and differential fiducial cross-sections of $t\bar{t}$ production with additional heavy-flavour

- jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **04** (2019) 046, [arXiv:1811.12113](#). doi:10.1007/JHEP04(2019)046.
- [587] **ALICE, ATLAS, CMS, LHCb** Collaboration, D. Rohr, “Data processing and online reconstruction”, *PoS LHCP2018* (2018) 257, [arXiv:1811.11485](#). doi:10.22323/1.321.0257.
- [588] **ATLAS** Collaboration, J. Erdmann, “Overview of searches for single production of vector-like top and bottom quarks with the ATLAS experiment at 13 TeV”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2018. [arXiv:1811.11496](#).
- [589] **ATLAS** Collaboration, P. Seema, “Measurement of differential t -channel single top-quark production cross-sections with ATLAS”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2018. [arXiv:1811.11228](#).
- [590] **ATLAS** Collaboration, “Measurements of $VH, H \rightarrow b\bar{b}$ production as a function of the vector boson transverse momentum in 13 TeV pp collisions with the ATLAS detector”. ATLAS-CONF-2018-053, 2018.
- [591] **ATLAS** Collaboration, “Search for boosted resonances decaying to two b-quarks and produced in association with a jet at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2018-052, 2018.
- [592] **ATLAS, CMS, LHCb** Collaboration, V. Candelise, “Collider studies on jet and heavy flavour properties”, *PoS DIS2018* (2018) 237. doi:10.22323/1.316.0237.
- [593] **ATLAS** Collaboration, A. F. Campoverde Quezada, “Production and decay of HF in ATLAS”, *PoS DIS2018* (2018) 222. doi:10.22323/1.316.0222.
- [594] **ATLAS** Collaboration, S. Kluth, “Top quark pair property measurements using the ATLAS detector at the LHC”, *PoS DIS2018* (2018) 124. doi:10.22323/1.316.0124.
- [595] **ATLAS** Collaboration, P. Bartos, “Top quark pair-production cross-section measurements with the ATLAS detector”, *PoS DIS2018* (2018) 122. doi:10.22323/1.316.0122.
- [596] **ATLAS** Collaboration, J. Veatch, “Identification of boosted hadronically decaying particles with jet substructure in ATLAS Run-2”, *PoS DIS2018* (2018) 104. doi:10.22323/1.316.0104.
- [597] **ATLAS** Collaboration, P. Calfayan, “Measurements of Vector boson fusion with the ATLAS detector”, *PoS DIS2018* (2018) 102. doi:10.22323/1.316.0102.
- [598] **ATLAS** Collaboration, Z. P. Zhang, “Electroweak Precision Measurements with the ATLAS Detector”, *PoS DIS2018* (2018) 099. doi:10.22323/1.316.0099.
- [599] **ATLAS** Collaboration, S. Rettie, “Muon identification and performance in the ATLAS experiment”, *PoS DIS2018* (2018) 097. doi:10.22323/1.316.0097.

- [600] **ATLAS** Collaboration, Z. Hubacek, “Measurement of the inclusive jet and dijet production with the ATLAS detector”, *PoS DIS2018* (2018) 096. doi:10.22323/1.316.0096.
- [601] **ATLAS** Collaboration, W. C. Kalderon, “Dark Matter searches with the ATLAS Detector”, *PoS DIS2018* (2018) 085. doi:10.22323/1.316.0085.
- [602] **ATLAS** Collaboration, E. Gramstad, “Reconstruction techniques in supersymmetry searches in the ATLAS experiment”, *PoS DIS2018* (2018) 082. doi:10.22323/1.316.0082.
- [603] **ATLAS** Collaboration, C. Sandoval, “Searches for supersymmetry in resonance production, R-parity violating signatures and events with long-lived particles with the ATLAS detector”, *PoS DIS2018* (2018) 081. doi:10.22323/1.316.0081.
- [604] **ATLAS** Collaboration, J. M. Lorenz, “Searches for electroweak production of supersymmetric gauginos and sleptons with the ATLAS detector”, *PoS DIS2018* (2018) 080. doi:10.22323/1.316.0080.
- [605] **ATLAS** Collaboration, J. Mitrevski, “Searches for direct pair production of third generation squarks with the ATLAS detector”, *PoS DIS2018* (2018) 079. doi:10.22323/1.316.0079.
- [606] **ATLAS** Collaboration, M. LeBlanc, “Inclusive searches for squarks and gluinos with the ATLAS detector”, *PoS DIS2018* (2018) 078. doi:10.22323/1.316.0078.
- [607] **ATLAS** Collaboration, C. Schiavi, “Measurements and searches of Higgs boson decays to two fermions”, *PoS DIS2018* (2018) 073. doi:10.22323/1.316.0073.
- [608] **ATLAS** Collaboration, A. Foster, “Status and Prospects of measurements of exclusive and diffractive processes with the ATLAS detector”, *PoS DIS2018* (2018) 045. doi:10.22323/1.316.0045.
- [609] **ATLAS** Collaboration, M. Stockton, “Studies of photon production in association with jets at the ATLAS detector”, *PoS DIS2018* (2018) 004. doi:10.22323/1.316.0004.
- [610] **ATLAS, CMS, Top** Collaboration, P. M. Kumar, “Highlight of top quark properties measurements at ATLAS/CMS”, *PoS HQL2018* (2018) 023, arXiv:1811.10733. doi:10.22323/1.332.0023.
- [611] **ATLAS** Collaboration, M. Aaboud et al., “Search for Higgs boson pair production in the $WW^{(*)}WW^{(*)}$ decay channel using ATLAS data recorded at $\sqrt{s} = 13$ TeV”, *JHEP* **05** (2019) 124, arXiv:1811.11028. doi:10.1007/JHEP05(2019)124.
- [612] **ATLAS** Collaboration, M. Aaboud et al., “Study of the hard double-parton scattering contribution to inclusive four-lepton production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *Phys. Lett.* **B790** (2019) 595–614,

- arXiv:1811.11094. [Phys. Lett.790,595(2019)].
doi:10.1016/j.physletb.2019.01.062.
- [613] **ATLAS** Collaboration, F. Hubaut, “Observation of $t\bar{t}H$ production with ATLAS”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2018. arXiv:1811.10282.
- [614] **ATLAS, CMS** Collaboration, G. Unal, “Higgs boson measurements at the LHC”, in *38th International Symposium on Physics in Collision (PIC 2018) Bogotá, Colombia, September 11-15, 2018*. 2018. arXiv:1811.10215.
- [615] **ATLAS** Collaboration, F. Giuli, “Proton PDFs constraints from measurements using the ATLAS experiment”, *Nucl. Part. Phys. Proc.* **300-302** (2018) 18–23, arXiv:1811.09449. doi:10.1016/j.nuclphysbps.2018.12.005.
- [616] **ATLAS** Collaboration, M. Aaboud et al., “Cross-section measurements of the Higgs boson decaying into a pair of τ -leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev.* **D99** (2019) 072001, arXiv:1811.08856. doi:10.1103/PhysRevD.99.072001.
- [617] **ATLAS** Collaboration, M. Aaboud et al., “Search for long-lived particles produced in pp collisions at $\sqrt{s} = 13$ TeV that decay into displaced hadronic jets in the ATLAS muon spectrometer”, *Phys. Rev.* **D99** (2019), no. 5, 052005, arXiv:1811.07370. doi:10.1103/PhysRevD.99.052005.
- [618] **ATLAS Tile Calorimeter System** Collaboration, G. Di Gregorio, “Robustness studies of the photomultipliers reading out TileCal, the central hadron calorimeter of the ATLAS experiment”, *Nucl. Instrum. Meth.* **A936** (2019) 146–147. doi:10.1016/j.nima.2018.09.047.
- [619] **ATLAS** Collaboration, M. Aaboud et al., “Search for Higgs boson pair production in the $b\bar{b}WW^*$ decay mode at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **04** (2019) 092, arXiv:1811.04671. doi:10.1007/JHEP04(2019)092.
- [620] **ATLAS** Collaboration, “Constraints on mediator-based dark matter models using $\sqrt{s} = 13$ TeV pp collisions at the LHC with the ATLAS detector”. ATLAS-CONF-2018-051, 2018.
- [621] **ATLAS** Collaboration, M. Aaboud et al., “Search for four-top-quark production in the single-lepton and opposite-sign dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev.* **D99** (2019), no. 5, 052009, arXiv:1811.02305. doi:10.1103/PhysRevD.99.052009.
- [622] **ATLAS** Collaboration, M. Aaboud et al., “Search for the Production of a Long-Lived Neutral Particle Decaying within the ATLAS Hadronic Calorimeter in Association with a Z Boson from pp Collisions at $\sqrt{s} = 13$ TeV”, *Phys. Rev. Lett.* **122** (2019), no. 15, 151801, arXiv:1811.02542. doi:10.1103/PhysRevLett.122.151801.

- [623] **ATLAS** Collaboration, C. Di Donato, “Muon identification and performance in the ATLAS experiment”, *PoS BEAUTY2018* (2018) 068. doi:10.22323/1.326.0068.
- [624] **ATLAS** Collaboration, W. Walkowiak, “ATLAS Plans for the High-Luminosity LHC”, *PoS BEAUTY2018* (2018) 055. doi:10.22323/1.326.0055.
- [625] **ATLAS** Collaboration, S. Turchikhin, “Beyond Standard Model searches in B decays with ATLAS”, *PoS BEAUTY2018* (2018) 048. doi:10.22323/1.326.0048.
- [626] **ATLAS** Collaboration, P. Reznicek, “Recent ATLAS results in charmonium production”, *PoS BEAUTY2018* (2018) 015. doi:10.22323/1.326.0015.
- [627] **ATLAS** Collaboration, K. Kordas, “Measurements of the Vector boson production with the ATLAS Detector”, *EPJ Web Conf.* **182** (2018) 02067. doi:10.1051/epjconf/201818202067.
- [628] **ATLAS** Collaboration, V. A. Mitsou, “Hunting New Physics with ATLAS”, *EPJ Web Conf.* **182** (2018) 02089. doi:10.1051/epjconf/201818202089.
- [629] **ATLAS** Collaboration, A. Sbrizzi, “The LUCID-2 detector”, *EPJ Web Conf.* **182** (2018) 02112. doi:10.1051/epjconf/201818202112.
- [630] **ATLAS** Collaboration, L. Bellagamba, “Highlights from ATLAS”, *EPJ Web Conf.* **182** (2018) 02012. doi:10.1051/epjconf/201818202012.
- [631] **ATLAS** Collaboration, A. Ruiz-Martinez, “The ATLAS Run-2 Trigger Menu for higher luminosities: Design, Performance and Operational Aspects”, *EPJ Web Conf.* **182** (2018) 02083. doi:10.1051/epjconf/201818202083.
- [632] **ATLAS** Collaboration, N. M. Köhler, “Searches for direct pair production of third generation squarks with the ATLAS detector”, *EPJ Web Conf.* **182** (2018) 02065. doi:10.1051/epjconf/201818202065.
- [633] **ATLAS** Collaboration, P. Brückman de Renstrom, “Search for neutral and charged BSM Higgs Bosons with the ATLAS detector”, *EPJ Web Conf.* **182** (2018) 02020. doi:10.1051/epjconf/201818202020.
- [634] **ATLAS** Collaboration, S. Adachi, “Inclusive searches for squarks and gluinos with the ATLAS detector”, *EPJ Web Conf.* **182** (2018) 02001. doi:10.1051/epjconf/201818202001.
- [635] **ATLAS** Collaboration, G. Callea, “Probing QCD with Photons and Jets at the ATLAS detector”, *EPJ Web Conf.* **182** (2018) 02025. doi:10.1051/epjconf/201818202025.
- [636] **ATLAS** Collaboration, N. Belyaev, “Measurement of cross sections and couplings of the Higgs Boson in bosonic decay channels with the ATLAS detector.”, *EPJ Web Conf.* **182** (2018) 02013. doi:10.1051/epjconf/201818202013.

- [637] **ATLAS** Collaboration, L. Shi, “Measurement of cross sections and couplings of the Higgs boson in fermionic decay modes with the ATLAS detector”, *EPJ Web Conf.* **182** (2018) 02119. doi:10.1051/epjconf/201818202119.
- [638] **ATLAS** Collaboration, S. Schramm, “ATLAS Jet Reconstruction, Calibration, and Tagging of Lorentz-boosted Objects”, *EPJ Web Conf.* **182** (2018) 02113. doi:10.1051/epjconf/201818202113.
- [639] **ATLAS** Collaboration, T. Dado, “Top-quark properties and mass measurements with the ATLAS detector”, *EPJ Web Conf.* **182** (2018) 02033. doi:10.1051/epjconf/201818202033.
- [640] **ATLAS, CMS** Collaboration, A. Massironi, “Is Nature Standard like the Model? Experimental results on Standard Model and Higgs boson physics”, *Nuovo Cim.* **C41** (2018), no. 1-2, 19. doi:10.1393/ncc/i2018-18019-6.
- [641] **ATLAS** Collaboration, G. Callea, “Measurement of isolated-photons plus jet production in pp collisions with the ATLAS detector”, *Nuovo Cim.* **C41** (2018), no. 1-2, 6. doi:10.1393/ncc/i2018-18006-y.
- [642] **ATLAS** Collaboration, L. Rossini, “Operation and radiation damage studies of the ATLAS pixel detector”, *Nuovo Cim.* **C41** (2018), no. 1-2, 87. doi:10.1393/ncc/i2018-18087-6.
- [643] **Atlas** Collaboration, G. Introzzi, “Status of the art of the Italian micromegas for the upgrade of the ATLAS detector”, *Nuovo Cim.* **C41** (2018), no. 1-2, 77. doi:10.1393/ncc/i2018-18077-8.
- [644] **CMS, ATLAS** Collaboration, A. Boletti and U. De Sanctis, “Angular analysis of the $B_d^0 \rightarrow K^* \mu \mu$ at CMS and ATLAS”, *Nuovo Cim.* **C41** (2018), no. 1-2, 34. doi:10.1393/ncc/i2018-18034-7.
- [645] **ATLAS** Collaboration, T. Nitta, “Identification of hadronically decaying W bosons and top quarks using multivariate techniques at ATLAS”, *J. Phys. Conf. Ser.* **1085** (2018), no. 4, 042012. doi:10.1088/1742-6596/1085/4/042012.
- [646] **ATLAS** Collaboration, C. Bernius, G. Galster, A. Salnikov et al., “The ATLAS Trigger Simulation with Legacy Software”, *J. Phys. Conf. Ser.* **1085** (2018), no. 4, 042043. doi:10.1088/1742-6596/1085/4/042043.
- [647] **ATLAS** Collaboration, M. Titov, G. Záruba, K. De et al., “A study of the applicability of recommender systems for the Production and Distributed Analysis system PanDA of the ATLAS Experiment”, *J. Phys. Conf. Ser.* **1085** (2018), no. 4, 042028. doi:10.1088/1742-6596/1085/4/042028.
- [648] **ATLAS** Collaboration, D. Barberis, Z. Baranowski, A. Favareto et al., “The ATLAS Event Index: The Architecture of the Core Engine”, *J. Phys. Conf. Ser.* **1085** (2018), no. 4, 042024. doi:10.1088/1742-6596/1085/4/042024.

- [649] **ATLAS** Collaboration, K. Cranmer and L. Heinrich, “Analysis Preservation and Systematic Reinterpretation within the ATLAS experiment”, *J. Phys. Conf. Ser.* **1085** (2018), no. 4, 042011. doi:10.1088/1742-6596/1085/4/042011.
- [650] **ATLAS** Collaboration, S. D. Jones, “The ATLAS Electron and Photon Triggers”, *J. Phys. Conf. Ser.* **1085** (2018), no. 4, 042001. doi:10.1088/1742-6596/1085/4/042001.
- [651] **ATLAS** Collaboration, F. H. Barreiro Megino, M. Borodin, D. Golubkov et al., “Predictive analytics tools to adjust and monitor performance metrics for the ATLAS Production System”, *J. Phys. Conf. Ser.* **1085** (2018), no. 3, 032051. doi:10.1088/1742-6596/1085/3/032051.
- [652] **ATLAS** Collaboration, A. Washbrook, “Continuous software quality analysis for the ATLAS experiment”, *J. Phys. Conf. Ser.* **1085** (2018), no. 3, 032047. doi:10.1088/1742-6596/1085/3/032047.
- [653] **ATLAS** Collaboration, S. Padolski, A. Klimentov, T. Korchuganova et al., “ATLAS BigPanDA monitoring”, *J. Phys. Conf. Ser.* **1085** (2018), no. 3, 032043. doi:10.1088/1742-6596/1085/3/032043.
- [654] **ATLAS** Collaboration, J. Elmsheuser, L. Heinrich, G. Stewart et al., “Using containers with ATLAS offline software”, *J. Phys. Conf. Ser.* **1085** (2018), no. 3, 032042. doi:10.1088/1742-6596/1085/3/032042.
- [655] **ATLAS** Collaboration, A. J. Gamel, U. Schnoor, K. Meier et al., “Virtualization of the ATLAS software environment on a shared HPC system”, *J. Phys. Conf. Ser.* **1085** (2018), no. 3, 032036. doi:10.1088/1742-6596/1085/3/032036.
- [656] **ATLAS** Collaboration, R. M. Bianchi and I. Vukotic, “A scalable new mechanism to store, query and serve the ATLAS detector description through a REST web API”, *J. Phys. Conf. Ser.* **1085** (2018), no. 3, 032035. doi:10.1088/1742-6596/1085/3/032035.
- [657] **ATLAS** Collaboration, E. Ritsch et al., “Modernising ATLAS Software Build Infrastructure”, *J. Phys. Conf. Ser.* **1085** (2018), no. 3, 032033. doi:10.1088/1742-6596/1085/3/032033.
- [658] **ATLAS** Collaboration, A. Anisenkov, D. Drizhuk, W. Guan et al., “Global heterogeneous resource harvesting: the next-generation PanDA Pilot for ATLAS”, *J. Phys. Conf. Ser.* **1085** (2018), no. 3, 032031. doi:10.1088/1742-6596/1085/3/032031.
- [659] **ATLAS** Collaboration, M. Barisits, T. Beermann, V. Garonne et al., “The ATLAS Data Management System Rucio: Supporting LHC Run-2 and beyond”, *J. Phys. Conf. Ser.* **1085** (2018), no. 3, 032030. doi:10.1088/1742-6596/1085/3/032030.

- [660] **ATLAS** Collaboration, S. Campana and T. Wenaus, “An ATLAS distributed computing architecture for HL-LHC”, *J. Phys. Conf. Ser.* **1085** (2018), no. 3, 032029. doi:10.1088/1742-6596/1085/3/032029.
- [661] **ATLAS** Collaboration, D. Cameron, J. Elmsheuser, L. Heinrich et al., “Leveraging the checkpoint-restart technique for optimizing CPU efficiency of ATLAS production applications on opportunistic platforms”, *J. Phys. Conf. Ser.* **1085** (2018), no. 3, 032028. doi:10.1088/1742-6596/1085/3/032028.
- [662] **ATLAS** Collaboration, J. Schaarschmidt, “Upgrading the Fast Calorimeter Simulation in ATLAS”, *J. Phys. Conf. Ser.* **1085** (2018), no. 3, 032018. doi:10.1088/1742-6596/1085/3/032018.
- [663] **ATLAS** Collaboration, M. Aaboud et al., “Measurements of W and Z boson production in pp collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector”, *Eur. Phys. J. C* **79** (2019), no. 2, 128, arXiv:1810.08424. [Erratum: *Eur. Phys. J. C* **79**, no. 5, 374 (2019)]. doi:10.1140/epjc/s10052-019-6870-9, 10.1140/epjc/s10052-019-6622-x.
- [664] **ATLAS** Collaboration, M. Spusta, “Physics of Ridge and Hard Processes in Proton-Lead and Lead-Lead Collisions with ATLAS”, *Acta Phys. Polon. Supp.* **11** (2018) 595–600. doi:10.5506/APhysPolBSupp.11.595.
- [665] **ATLAS** Collaboration, N. C. Benekos, “Searches for Exotic Phenomena with the ATLAS Detector”, *Acta Phys. Polon. Supp.* **11** (2018) 419–427. doi:10.5506/APhysPolBSupp.11.419.
- [666] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016”, *Eur. Phys. J. C* **79** (2019), no. 3, 205, arXiv:1810.05087. doi:10.1140/epjc/s10052-019-6650-6.
- [667] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the $Z\gamma \rightarrow \nu\bar{\nu}\gamma$ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector and limits on anomalous triple gauge-boson couplings”, *JHEP* **12** (2018) 010, arXiv:1810.04995. doi:10.1007/JHEP12(2018)010.
- [668] **ATLAS** Collaboration, M. Aaboud et al., “Comparison between simulated and observed LHC beam backgrounds in the ATLAS experiment at $E_{\text{beam}} = 4$ TeV”, *JINST* **13** (2018), no. 12, P12006, arXiv:1810.04450. doi:10.1088/1748-0221/13/12/P12006.
- [669] **ATLAS** Collaboration, I. Hristova, “Future Plans of the ATLAS Collaboration for the HL-LHC”, *Few Body Syst.* **59** (2018), no. 6, 137. doi:10.1007/s00601-018-1459-7.
- [670] **ATLAS** Collaboration, “Dijet azimuthal correlations and conditional yields in pp and $p+\text{Pb}$ collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV with the ATLAS detector”. ATLAS-CONF-2018-050, 2018.

- [671] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the top quark mass in the $t\bar{t} \rightarrow \text{lepton} + \text{jets}$ channel from $\sqrt{s} = 8$ TeV ATLAS data and combination with previous results”, *Eur. Phys. J.* **C79** (2019), no. 4, 290, arXiv:1810.01772. doi:10.1140/epjc/s10052-019-6757-9.
- [672] **ATLAS Muon** Collaboration, B. Lefebvre, “Muon Spectrometer Phase-I Upgrade for the ATLAS Experiment: the New Small Wheel project”, in *13th Conference on the Intersections of Particle and Nuclear Physics (CIPANP 2018) Palm Springs, California, USA, May 29-June 3, 2018*. 2018. arXiv:1810.01394.
- [673] **ATLAS** Collaboration, E. Reynolds, “Searches for rare and non-Standard Model decays of the Higgs boson”, in *13th Conference on the Intersections of Particle and Nuclear Physics (CIPANP 2018) Palm Springs, California, USA, May 29-June 3, 2018*. 2018. arXiv:1810.00999.
- [674] **ATLAS** Collaboration, S. Rettie, “Searches for new phenomena in leptonic final states using the ATLAS detector”, in *13th Conference on the Intersections of Particle and Nuclear Physics (CIPANP 2018) Palm Springs, California, USA, May 29-June 3, 2018*. 2018. arXiv:1810.00030.
- [675] **ATLAS Pixel Detector** Collaboration, A. Gabrielli, “Commissioning of ROD boards for the entire ATLAS Pixel Detector”, *JINST* **13** (2018), no. 09, T09009. doi:10.1088/1748-0221/13/09/T09009.
- [676] **ATLAS** Collaboration, M. Aaboud et al., “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”, *JHEP* **01** (2019) 016, arXiv:1809.11105. doi:10.1007/JHEP01(2019)016.
- [677] **ATLAS** Collaboration, V. M. M. Cairo, “Latest Minimum Bias and Underlying Event measurements with the ATLAS Detector”, *J. Phys. Conf. Ser.* **1070** (2018), no. 1, 012022. doi:10.1088/1742-6596/1070/1/012022.
- [678] **ATLAS** Collaboration, L. Havener, “Recent results on hard processes in p+Pb, Pb+Pb, and pp collisions from the ATLAS Experiment at the LHC”, *J. Phys. Conf. Ser.* **1070** (2018), no. 1, 012018. doi:10.1088/1742-6596/1070/1/012018.
- [679] **ATLAS** Collaboration, L. Rossini, “Searches for supersymmetric higgsinos with the ATLAS detector”, *PoS ALPS2018* (2018) 053. doi:10.22323/1.330.0053.
- [680] **ATLAS** Collaboration, M. Mlynarikova, “Study of the $H \rightarrow \tau\tau$ channel with ATLAS”, *PoS ALPS2018* (2018) 051. doi:10.22323/1.330.0051.
- [681] **ATLAS** Collaboration, S. Heer, “Measurement of the cross-section for the associated production of a top quark pair and a W or Z boson with the ATLAS detector”, *PoS ALPS2018* (2018) 049. doi:10.22323/1.330.0049.
- [682] **ATLAS, CMS** Collaboration, T. J. Kim, “SM and Higgs at the HL-LHC”, *PoS ALPS2018* (2018) 040. doi:10.22323/1.330.0040.

- [683] **ATLAS** Collaboration, C.-E. Wulz, “Interpretation of non-MET+X ATLAS+CMS searches for dark matter scenarios”, *PoS ALPS2018* (2018) 039. doi:10.22323/1.330.0039.
- [684] **ATLAS, CMS, LHCb** Collaboration, J. M. Butler, “Searches for Dark Matter at the LHC”, *PoS ALPS2018* (2018) 030. doi:10.22323/1.330.0030.
- [685] **ATLAS, CMS** Collaboration, A. Spiezia, “Status and prospect of LHC BSM searches”, *PoS ALPS2018* (2018) 025. doi:10.22323/1.330.0025.
- [686] **ATLAS, CMS** Collaboration, D. Madaffari, “Higgs boson production in association with a top quark pair at the LHC”, *PoS ALPS2018* (2018) 019. doi:10.22323/1.330.0019.
- [687] **ATLAS, CMS** Collaboration, A.-M. Magnan, “The Higgs boson at the LHC: standard model Higgs properties and beyond standard model searches”, *PoS ALPS2018* (2018) 013. doi:10.22323/1.330.0013.
- [688] **ATLAS** Collaboration, A. Ferrari, “Searches for Higgs boson pair production with ATLAS”, in *13th Conference on the Intersections of Particle and Nuclear Physics (CIPANP 2018) Palm Springs, California, USA, May 29-June 3, 2018*. 2018. arXiv:1809.08870.
- [689] **ATLAS** Collaboration, C. A. Gottardo, “Search for charged lepton-flavour violation in top-quark decays at the LHC with the ATLAS detector”, in *11th International Workshop on Top Quark Physics (TOP2018) Bad Neuenahr, Germany, September 16-21, 2018*. 2018. arXiv:1809.09048.
- [690] **ATLAS** Collaboration, “Search for top quark decays $t \rightarrow Hq$ with 36 fb^{-1} of pp collision data at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”. ATLAS-CONF-2018-049, 2018.
- [691] **ATLAS** Collaboration, “Measurements of inclusive and differential cross-sections of $t\bar{t}\gamma$ production in leptonic final states in a fiducial volume at $\sqrt{s} = 13 \text{ TeV}$ in ATLAS”. ATLAS-CONF-2018-048, 2018.
- [692] **ATLAS** Collaboration, “Measurement of the $t\bar{t}W$ and $t\bar{t}Z$ cross sections in proton–proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”. ATLAS-CONF-2018-047, 2018.
- [693] **ATLAS** Collaboration, “Study of the rare decays of B_s^0 and B^0 into muon pairs from data collected during 2015 and 2016 with the ATLAS detector”. ATLAS-CONF-2018-046, 2018.
- [694] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of photon–jet transverse momentum correlations in 5.02 TeV Pb + Pb and pp collisions with ATLAS”, *Phys. Lett.* **B789** (2019) 167–190, arXiv:1809.07280. doi:10.1016/j.physletb.2018.12.023.

- [695] **ATLAS** Collaboration, M. Aaboud et al., “Search for invisible Higgs boson decays in vector boson fusion at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett.* **B793** (2019) 499–519, arXiv:1809.06682. doi:10.1016/j.physletb.2019.04.024.
- [696] **ATLAS** Collaboration, “Calibration of the ATLAS b -tagging algorithm in $t\bar{t}$ semi-leptonic events”. ATLAS-CONF-2018-045, 2018.
- [697] **ATLAS** Collaboration, “Search for charged lepton-flavour violation in top-quark decays at the LHC with the ATLAS detector”. ATLAS-CONF-2018-044, 2018.
- [698] **ATLAS** Collaboration, “Combination of searches for Higgs boson pairs in pp collisions at 13 TeV with the ATLAS experiment.”. ATLAS-CONF-2018-043, 2018.
- [699] **ATLAS, CMS, LHCb** Collaboration, T. G. McCarthy, “SM+Top at the LHC”, *PoS ALPS2018* (2018) 014, arXiv:1809.03982. doi:10.22323/1.330.0014.
- [700] **ATLAS** Collaboration, P. Liu, “Expected performance of the upgrade ATLAS experiment for HL-LHC”, in *13th Conference on the Intersections of Particle and Nuclear Physics (CIPANP 2018) Palm Springs, California, USA, May 29-June 3, 2018*. 2018. arXiv:1809.02181.
- [701] **ALICE, ATLAS, CMS, LHCb** Collaboration, J. Wilkinson, “Open heavy-flavour production in heavy-ion collisions at the LHC”, *J. Phys. Conf. Ser.* **1137** (2019), no. 1, 012032, arXiv:1809.01899. doi:10.1088/1742-6596/1137/1/012032.
- [702] **ATLAS** Collaboration, R. Zhang, “Measurement of tW differential cross-sections with ATLAS at 13 TeV”, in *Proceedings, 10th International Workshop on Top Quark Physics (TOP2017): Braga, Portugal, September 17-22, 2017*. 2018. arXiv:1809.01433.
- [703] **ATLAS** Collaboration, M. Aaboud et al., “A search for pairs of highly collimated photon-jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev.* **D99** (2019), no. 1, 012008, arXiv:1808.10515. doi:10.1103/PhysRevD.99.012008.
- [704] **ATLAS** Collaboration, M. Aaboud et al., “Measurements of gluon-gluon fusion and vector-boson fusion Higgs boson production cross-sections in the $H \rightarrow WW^* \rightarrow e\nu\mu\nu$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett.* **B789** (2019) 508–529, arXiv:1808.09054. doi:10.1016/j.physletb.2018.11.064.
- [705] **ATLAS** Collaboration, M. Aaboud et al., “Observation of $H \rightarrow b\bar{b}$ decays and VH production with the ATLAS detector”, *Phys. Lett.* **B786** (2018) 59–86, arXiv:1808.08238. doi:10.1016/j.physletb.2018.09.013.
- [706] **ATLAS** Collaboration, J. Mamuzic, “Recent SUSY results in ATLAS”, *PoS CORFU2017* (2018) 060. doi:10.22323/1.318.0060.

- [707] **ATLAS, CMS** Collaboration, C. Diez Pardos, “Top physics in ATLAS and CMS”, *PoS CORFU2017* (2018) 021. doi:10.22323/1.318.0021.
- [708] **ATLAS, CMS** Collaboration, P.-H. Beauchemin, “Recent Standard Model results in ATLAS and CMS”, *PoS CORFU2017* (2018) 013. doi:10.22323/1.318.0013.
- [709] **ATLAS** Collaboration, M. Aaboud et al., “Performance of top-quark and W -boson tagging with ATLAS in Run 2 of the LHC”, *Eur. Phys. J.* **C79** (2019), no. 5, 375, arXiv:1808.07858. doi:10.1140/epjc/s10052-019-6847-8.
- [710] **ATLAS Muon** Collaboration, P. Gkoutoumis, “Prototype board development for the validation of the VMM ASICs for the new small wheel ATLAS upgrade project”, in *Proceedings, 7th International Conference on Modern Circuits and Systems Technologies (MOCAS T 2018): Thessaloniki, Greece, May 7-9, 2018*, p. 8376599. 2018.
- [711] **ATLAS** Collaboration, M. Aaboud et al., “Search for squarks and gluinos in final states with hadronically decaying τ -leptons, jets, and missing transverse momentum using pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev.* **D99** (2019), no. 1, 012009, arXiv:1808.06358. doi:10.1103/PhysRevD.99.012009.
- [712] **ATLAS Muon** Collaboration, K. Maekawa, “Simulation of the ATLAS New Small Wheel (NSW) System”, *Springer Proc. Phys.* **213** (2018) 133–137.
- [713] **ATLAS Muon** Collaboration, T. Kawaguchi, “Upgrade of the ATLAS Thin Gap Chamber Electronics for HL-LHC”, *Springer Proc. Phys.* **213** (2018) 120–124.
- [714] **ATLAS** Collaboration, B. Ristic, “CMOS Pixel Development for the ATLAS Experiment at HL-LHC”, *Springer Proc. Phys.* **213** (2018) 426–430.
- [715] **ATLAS** Collaboration, K. Choi, “Tracking and Vertexing with the ATLAS Inner Detector in the LHC Run-2”, *Springer Proc. Phys.* **213** (2018) 400–403.
- [716] **ATLAS ITk** Collaboration, D. Rodríguez Rodríguez and C. García Argos, “Staves and Petals: Multi-module Local Support Structures of the ATLAS ITk Strips Upgrade”, *Springer Proc. Phys.* **213** (2018) 395–399.
- [717] **ATLAS ITk** Collaboration, C. García Argos, “Modules and Front-End Electronics Developments for the ATLAS ITk Strips Upgrade”, *Springer Proc. Phys.* **213** (2018) 356–360.
- [718] **ATLAS** Collaboration, O. Solovyanov, “Calibration and Performance of the ATLAS Tile Calorimeter During the Run 2 of the LHC”, *Springer Proc. Phys.* **213** (2018) 31–36.
- [719] **ATLAS Tile Calorimeter System** Collaboration, F. Tang, “Upgrade of the ATLAS Tile Calorimeter for the High Luminosity LHC”, *Springer Proc. Phys.* **213** (2018) 22–30.

- [720] **ATLAS Liquid Argon Calorimeter** Collaboration, M. Hils, “Development of ATLAS Liquid Argon Calorimeter Readout Electronics for the HL-LHC”, *Springer Proc. Phys.* **213** (2018) 17–21.
- [721] **ATLAS Muon** Collaboration, A. Duedder, “Resistive Micromegas for the Muon Spectrometer Upgrade of the ATLAS Experiment”, *Springer Proc. Phys.* **213** (2018) 125–128.
- [722] **ATLAS Liquid Argon Calorimeter Group** Collaboration, A. Camplani, “Phase-I Trigger Readout Electronics Upgrade for the ATLAS Liquid-Argon Calorimeters”, *Springer Proc. Phys.* **212** (2018) 50–53.
- [723] **ATLAS DBM** Collaboration, G. Sokhrannyi, “The Detector Control System Safety Interlocks of the Diamond Beam Monitor”, *Springer Proc. Phys.* **212** (2018) 41–45.
- [724] **ATLAS** Collaboration, F. Le Goff and W. Vandelli, “Automated Load Balancing in the ATLAS High-Performance Storage Software”, *Springer Proc. Phys.* **212** (2018) 366–370.
- [725] **ATLAS** Collaboration, V. Andrei, “The Phase-I Upgrade of the ATLAS First Level Calorimeter Trigger”, *Springer Proc. Phys.* **212** (2018) 350–354.
- [726] **ATLAS** Collaboration, L. Helary, “The ATLAS Level-1 Trigger System with 13TeV Nominal LHC Collisions”, *Springer Proc. Phys.* **212** (2018) 314–318.
- [727] **ATLAS** Collaboration, N. Nikiforou, “Searches for new heavy quarks in ATLAS”, in *Proceedings, 53rd Rencontres de Moriond on Electroweak Interactions and Unified Theories (Moriond EW 2018): La Thuile, Italy, March 10-17, 2018*, pp. 161–166. 2018. [arXiv:1808.04695](https://arxiv.org/abs/1808.04695).
- [728] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s_{NN}} = 5.02$ TeV Pb+Pb collisions with the ATLAS detector”, *Eur. Phys. J.* **C78** (2018), no. 12, 997, [arXiv:1808.03951](https://arxiv.org/abs/1808.03951). doi:10.1140/epjc/s10052-018-6468-7.
- [729] **ATLAS** Collaboration, M. Aaboud et al., “Search for heavy charged long-lived particles in proton-proton collisions at $\sqrt{s} = 13$ TeV using an ionisation measurement with the ATLAS detector”, *Phys. Lett.* **B788** (2019) 96–116, [arXiv:1808.04095](https://arxiv.org/abs/1808.04095). doi:10.1016/j.physletb.2018.10.055.
- [730] **ATLAS** Collaboration, M. Aaboud et al., “Search for charged Higgs bosons decaying into top and bottom quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **11** (2018) 085, [arXiv:1808.03599](https://arxiv.org/abs/1808.03599). doi:10.1007/JHEP11(2018)085.
- [731] **ATLAS** Collaboration, M. Aaboud et al., “Search for long-lived particles in final states with displaced dimuon vertices in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev.* **D99** (2019), no. 1, 012001, [arXiv:1808.03057](https://arxiv.org/abs/1808.03057). doi:10.1103/PhysRevD.99.012001.

- [732] **ATLAS** Collaboration, M. Aaboud et al., “Combination of the searches for pair-produced vector-like partners of the third-generation quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev. Lett.* **121** (2018), no. 21, 211801, arXiv:1808.02343. doi:10.1103/PhysRevLett.121.211801.
- [733] **ATLAS** Collaboration, M. Aaboud et al., “Combination of searches for heavy resonances decaying into bosonic and leptonic final states using 36 fb⁻¹ of proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev.* **D98** (2018), no. 5, 052008, arXiv:1808.02380. doi:10.1103/PhysRevD.98.052008.
- [734] **ATLAS** Collaboration, M. Aaboud et al., “Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector”, *Eur. Phys. J.* **C79** (2019), no. 1, 58, arXiv:1808.01899. doi:10.1140/epjc/s10052-018-6500-y.
- [735] **ATLAS** Collaboration, M. Aaboud et al., “Search for pair production of heavy vector-like quarks decaying into hadronic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev.* **D98** (2018), no. 9, 092005, arXiv:1808.01771. doi:10.1103/PhysRevD.98.092005.
- [736] **ATLAS** Collaboration, M. Aaboud et al., “Constraints on off-shell Higgs boson production and the Higgs boson total width in $ZZ \rightarrow 4\ell$ and $ZZ \rightarrow 2\ell 2\nu$ final states with the ATLAS detector”, *Phys. Lett.* **B786** (2018) 223–244, arXiv:1808.01191. doi:10.1016/j.physletb.2018.09.048.
- [737] **ATLAS** Collaboration, M. Aaboud et al., “Search for resonant and non-resonant Higgs boson pair production in the $b\bar{b}\tau^+\tau^-$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev. Lett.* **121** (2018), no. 19, 191801, arXiv:1808.00336. [Erratum: Phys. Rev. Lett.122,no.8,089901(2019)]. doi:10.1103/PhysRevLett.122.089901, 10.1103/PhysRevLett.121.191801.
- [738] **ATLAS** Collaboration, M. Aaboud et al., “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”, *JHEP* **12** (2018) 039, arXiv:1807.11883. doi:10.1007/JHEP12(2018)039.
- [739] **ATLAS** Collaboration, M. Aaboud et al., “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”, *JHEP* **10** (2018) 180, arXiv:1807.11471. doi:10.1007/JHEP10(2018)180.
- [740] **ATLAS, CMS, LHCb** Collaboration, E. Graverini, “Flavour anomalies: a review”, *J. Phys. Conf. Ser.* **1137** (2019), no. 1, 012025, arXiv:1807.11373. doi:10.1088/1742-6596/1137/1/012025.
- [741] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Lett.* **B788** (2019) 347–370, arXiv:1807.10473. doi:10.1016/j.physletb.2018.11.032.

- [742] **ATLAS** Collaboration, “Search for direct chargino pair production with W-boson mediated decays in events with two leptons and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2018-042, 2018.
- [743] **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”. ATLAS-CONF-2018-041, 2018.
- [744] **ATLAS** Collaboration, “Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b -jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV”. ATLAS-CONF-2018-040, 2018.
- [745] **ATLAS** Collaboration, “Search for Dark Matter Produced in Association with a Higgs Boson decaying to $b\bar{b}$ at $\sqrt{s} = 13$ TeV with the ATLAS Detector using 79.8 fb^{-1} of proton-proton collision data”. ATLAS-CONF-2018-039, 2018.
- [746] **ATLAS** Collaboration, M. Aaboud et al., “In situ calibration of large-radius jet energy and mass in 13 TeV proton–proton collisions with the ATLAS detector”, *Eur. Phys. J.* **C79** (2019), no. 2, 135, arXiv:1807.09477. doi:10.1140/epjc/s10052-019-6632-8.
- [747] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Rev.* **D98** (2018), no. 5, 052003, arXiv:1807.08639. doi:10.1103/PhysRevD.98.052003.
- [748] **ATLAS** Collaboration, M. Aaboud et al., “Search for Higgs boson pair production in the $\gamma\gamma WW^*$ channel using pp collision data recorded at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C78** (2018), no. 12, 1007, arXiv:1807.08567. doi:10.1140/epjc/s10052-018-6457-x.
- [749] **ATLAS** Collaboration, M. Aaboud et al., “Search for charged Higgs bosons decaying via $H^\pm \rightarrow \tau^\pm \nu_\tau$ in the τ +jets and τ +lepton final states with 36 fb^{-1} of pp collision data recorded at $\sqrt{s} = 13$ TeV with the ATLAS experiment”, *JHEP* **09** (2018) 139, arXiv:1807.07915. doi:10.1007/JHEP09(2018)139.
- [750] **ATLAS** Collaboration, M. Aaboud et al., “A strategy for a general search for new phenomena using data-derived signal regions and its application within the ATLAS experiment”, *Eur. Phys. J.* **C79** (2019), no. 2, 120, arXiv:1807.07447. doi:10.1140/epjc/s10052-019-6540-y.
- [751] **ATLAS** Collaboration, M. Aaboud et al., “Search for lepton-flavor violation in different-flavor, high-mass final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev.* **D98** (2018), no. 9, 092008, arXiv:1807.06573. doi:10.1103/PhysRevD.98.092008.
- [752] **ATLAS** Collaboration, “Object-based missing transverse momentum significance in the ATLAS detector”. ATLAS-CONF-2018-038, 2018.

- [753] **ATLAS** Collaboration, M. Aaboud et al., “Search for Higgs boson pair production in the $\gamma\gamma b\bar{b}$ final state with 13 TeV pp collision data collected by the ATLAS experiment”, *JHEP* **11** (2018) 040, arXiv:1807.04873. doi:10.1007/JHEP11(2018)040.
- [754] **ATLAS** Collaboration, M. Aaboud et al., “Prompt and non-prompt J/ψ elliptic flow in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C78** (2018), no. 9, 784, arXiv:1807.05198. doi:10.1140/epjc/s10052-018-6243-9.
- [755] **ATLAS** Collaboration, “Measurement of the effective leptonic weak mixing angle using electron and muon pairs from Z -boson decay in the ATLAS experiment at $\sqrt{s} = 8$ TeV”. ATLAS-CONF-2018-037, 2018.
- [756] **ATLAS** Collaboration, “Observation of $H \rightarrow b\bar{b}$ decays and VH production with the ATLAS detector”. ATLAS-CONF-2018-036, 2018.
- [757] **ATLAS** Collaboration, “Measurement of the $Z\gamma \rightarrow \nu\bar{\nu}\gamma$ Production Cross Section in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector and Limits on Anomalous Triple Gauge Couplings”. ATLAS-CONF-2018-035, 2018.
- [758] **ATLAS** Collaboration, “Measurement of $W^\pm Z$ production cross sections and gauge boson polarisation in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2018-034, 2018.
- [759] **ATLAS** Collaboration, “Observation of electroweak $W^\pm Z$ boson pair production in association with two jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector”. ATLAS-CONF-2018-033, 2018.
- [760] **ATLAS** Collaboration, “Combination of the searches for pair-produced vector-like partners of the third generation quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2018-032, 2018.
- [761] **ATLAS** Collaboration, S. Seidel, “Overview of ATLAS Heavy Flavor Measurements”, *Acta Phys. Polon.* **B49** (2018) 1359–1370. doi:10.5506/APhysPolB.49.1359.
- [762] **ATLAS** Collaboration, M. Scornajenghi, “Top-quark Differential Cross-section Measurements with the ATLAS Detector”, *Acta Phys. Polon.* **B49** (2018) 1353–1358. doi:10.5506/APhysPolB.49.1353.
- [763] **ATLAS** Collaboration, S. Ghasemi, “Measurement of the $t\bar{t}\gamma$ Production Cross Section in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector”, *Acta Phys. Polon.* **B49** (2018) 1127–1133. doi:10.5506/APhysPolB.49.1127.
- [764] **ATLAS** Collaboration, “Combined measurements of Higgs boson production and decay using up to 80 fb^{-1} of proton–proton collision data at $\sqrt{s} = 13$ TeV collected with the ATLAS experiment”. ATLAS-CONF-2018-031, 2018.

- [765] **ATLAS** Collaboration, “Observation of electroweak production of a same-sign W boson pair in association with two jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2018-030, 2018.
- [766] **ATLAS** Collaboration, “Measurements of Higgs boson properties in the diphoton decay channel using 80 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2018-028, 2018.
- [767] **ATLAS** Collaboration, “Measurements of fiducial and differential cross-sections of $t\bar{t}$ production with additional heavy-flavour jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2018-029, 2018.
- [768] **ATLAS** Collaboration, “Measurements of top-quark pair spin correlations in the $e\mu$ channel at $\sqrt{s} = 13$ TeV using pp collisions in the ATLAS detector”. ATLAS-CONF-2018-027, 2018.
- [769] **ATLAS** Collaboration, “A search for the rare decay of the Standard Model Higgs boson to dimuons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector”. ATLAS-CONF-2018-026, 2018.
- [770] **ATLAS** Collaboration, “Search for resonances in the 65 to 110 GeV diphoton invariant mass range using 80 fb^{-1} of pp collisions collected at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2018-025, 2018.
- [771] **ATLAS** Collaboration, “Search for single production of a vector-like B quark decaying into a bottom quark and a Higgs boson which decays into a pair of photons”. ATLAS-CONF-2018-024, 2018.
- [772] **ATLAS** Collaboration, M. Aaboud et al., “Correlated long-range mixed-harmonic fluctuations measured in pp , $p+\text{Pb}$ and low-multiplicity $\text{Pb}+\text{Pb}$ collisions with the ATLAS detector”, *Phys. Lett.* **B789** (2019) 444–471, [arXiv:1807.02012](https://arxiv.org/abs/1807.02012). doi:10.1016/j.physletb.2018.11.065.
- [773] **ATLAS** Collaboration, M. Aaboud et al., “Searches for exclusive Higgs and Z boson decays into $J/\psi\gamma$, $\psi(2S)\gamma$, and $\Upsilon(nS)\gamma$ at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett.* **B786** (2018) 134–155, [arXiv:1807.00802](https://arxiv.org/abs/1807.00802). doi:10.1016/j.physletb.2018.09.024.
- [774] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Lett.* **B790** (2019) 1–21, [arXiv:1807.00539](https://arxiv.org/abs/1807.00539). doi:10.1016/j.physletb.2018.10.073.
- [775] **ATLAS, ALICE, CMS, LHCb** Collaboration, A. Ohlson, “Ridges in p–A (and pp) collisions”, in *Proceedings, 3rd Large Hadron Collider Physics Conference (LHCP 2015): St. Petersburg, Russia, August 31-September 5, 2015*, pp. 489–493, Kurchatov Institute. Kurchatov Institute, Gatchina, 2016. [arXiv:1901.00747](https://arxiv.org/abs/1901.00747).

- [776] **ATLAS TDAQ** Collaboration, W. Wu, “FELIX: the New Detector Interface for the ATLAS Experiment”, *IEEE Trans. Nucl. Sci.* **66** (2019), no. 7, 986–992, arXiv:1806.10667. doi:10.1109/TNS.2019.2913617.
- [777] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Rev.* **D98** (2018), no. 11, 112010, arXiv:1806.10555. doi:10.1103/PhysRevD.98.112010.
- [778] **ATLAS** Collaboration, M. Marjanovic, “ATLAS Tile calorimeter calibration and monitoring systems”, *IEEE Trans. Nucl. Sci.* **66** (2019), no. 7, 1228–1235, arXiv:1806.09156. doi:10.1109/TNS.2019.2921941.
- [779] **ATLAS** Collaboration, S. Akatsuka, “The Phase-1 Upgrade of the ATLAS Level-1 Endcap Muon Trigger”, *Springer Proc. Phys.* **212** (2018) 341–345.
- [780] **ATLAS Tile Calorimeter System** Collaboration, F. Carrió and A. Valero, “Clock Distribution and Readout Architecture for the ATLAS Tile Calorimeter at the HL-LHC”, *IEEE Trans. Nucl. Sci.* **66** (2018), no. 7, 1014–1020, arXiv:1806.09210. doi:10.1109/TNS.2018.2885456.
- [781] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Rev. Lett.* **121** (2018), no. 21, 212301, arXiv:1806.08708. doi:10.1103/PhysRevLett.121.212301.
- [782] **ATLAS, CMS** Collaboration, J. Meyer, “Search for additional Higgs bosons”, *Nuovo Cim.* **C40** (2018), no. 6, 203. doi:10.1393/ncc/i2017-17203-6.
- [783] **ATLAS Tile Calorimeter System** Collaboration, K. Hildebrand, “Upgrade of the ATLAS Hadronic Tile Calorimeter for the High Luminosity LHC”, *Nuovo Cim.* **C40** (2018), no. 6, 197. doi:10.1393/ncc/i2017-17197-y.
- [784] **ATLAS** Collaboration, J. Faltova, “Calibration and Performance of the ATLAS Tile Calorimeter during the LHC Run 2”, *Nuovo Cim.* **C40** (2018), no. 6, 199. doi:10.1393/ncc/i2017-17199-9.
- [785] **ATLAS** Collaboration, “ E_T^{miss} performance in the ATLAS detector using 2015-2016 LHC p-p collisions”. ATLAS-CONF-2018-023, 2018.
- [786] **ATLAS** Collaboration, M. Aaboud et al., “Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow aa \rightarrow 4b$ channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **10** (2018) 031, arXiv:1806.07355. doi:10.1007/JHEP10(2018)031.
- [787] **ATLAS** Collaboration, M. Aaboud et al., “Probing the quantum interference between singly and doubly resonant top-quark production in pp collisions at

- $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev. Lett.* **121** (2018), no. 15, 152002, arXiv:1806.04667. doi:10.1103/PhysRevLett.121.152002.
- [788] **ATLAS** Collaboration, B. Stugu, “Measurements of Cross Sections and Couplings of the Higgs Boson Using the ATLAS Detector”, *Int. J. Mod. Phys. Conf. Ser.* **47** (2018) 1860098. doi:10.1142/S2010194518600984.
- [789] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Rev.* **D98** (2018), no. 9, 092002, arXiv:1806.04030. doi:10.1103/PhysRevD.98.092002.
- [790] **ATLAS** Collaboration, “Measurement of the Jet Vertex Charge algorithm performance for identified b -jets in $t\bar{t}$ events in pp collisions with the ATLAS detector”. ATLAS-CONF-2018-022, 2018.
- [791] **ATLAS** Collaboration, “Cross-section measurements of the Higgs boson decaying to a pair of tau leptons in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2018-021, 2018.
- [792] **ATLAS** Collaboration, M. Aaboud et al., “Operation and performance of the ATLAS Tile Calorimeter in Run 1”, *Eur. Phys. J.* **C78** (2018), no. 12, 987, arXiv:1806.02129. doi:10.1140/epjc/s10052-018-6374-z.
- [793] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Rev.* **D98** (2018), no. 9, 092012, arXiv:1806.02293. doi:10.1103/PhysRevD.98.092012.
- [794] **ATLAS** Collaboration, M. Aaboud et al., “Search for pair production of heavy vector-like quarks decaying into high- p_T W bosons and top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **08** (2018) 048, arXiv:1806.01762. doi:10.1007/JHEP08(2018)048.
- [795] **ATLAS** Collaboration, M. Aaboud et al., “Search for resonant WZ production in the fully leptonic final state in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett.* **B787** (2018) 68–88, arXiv:1806.01532. doi:10.1016/j.physletb.2018.10.021.
- [796] **ATLAS** Collaboration, “Search for type-III seesaw heavy leptons in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2018-020, 2018.
- [797] **ATLAS** Collaboration, “Search for exotic decays of the Higgs boson to at least one photon and missing transverse momentum using 79.8 fb^{-1} of proton–proton collisions collected at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2018-019, 2018.

- [798] **ATLAS** Collaboration, “Measurements of the Higgs boson production, fiducial and differential cross sections in the 4ℓ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2018-018, 2018.
- [799] **ATLAS** Collaboration, M. Aaboud et al., “Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector”, *Phys. Lett.* **B784** (2018) 173–191, arXiv:1806.00425. doi:10.1016/j.physletb.2018.07.035.
- [800] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the Higgs boson mass in the $H \rightarrow ZZ^* \rightarrow 4\ell$ and $H \rightarrow \gamma\gamma$ channels with $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector”, *Phys. Lett.* **B784** (2018) 345–366, arXiv:1806.00242. doi:10.1016/j.physletb.2018.07.050.
- [801] **ATLAS** Collaboration, “Search for a new heavy gauge boson resonance decaying into a lepton and missing transverse momentum in 79.8 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment”. ATLAS-CONF-2018-017, 2018.
- [802] **ATLAS** Collaboration, “Search for diboson resonances in hadronic final states in 79.8 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2018-016, 2018.
- [803] **ATLAS** Collaboration, “Search for dijet resonances in events with an isolated lepton using $\sqrt{s} = 13$ TeV proton–proton collision data collected by the ATLAS detector”. ATLAS-CONF-2018-015, 2018.
- [804] **ATLAS, CMS** Collaboration, G. Brandt, “Electroweak Physics at the LHC”, *Springer Proc. Phys.* **203** (2018) 21–25.
- [805] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Eur. Phys. J.* **C78** (2018), no. 8, 625, arXiv:1805.11381. doi:10.1140/epjc/s10052-018-6081-9.
- [806] **ATLAS** Collaboration, M. Aaboud et al., “Combined measurement of differential and total cross sections in the $H \rightarrow \gamma\gamma$ and the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channels at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett.* **B786** (2018) 114–133, arXiv:1805.10197. doi:10.1016/j.physletb.2018.09.019.
- [807] **ATLAS** Collaboration, “Measurement of $R = 0.4$ jet mass in Pb+Pb and pp collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV with the ATLAS detector”. ATLAS-CONF-2018-014, 2018.
- [808] **ATLAS** Collaboration, “Prompt and non-prompt J/ψ elliptic flow in Pb+Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV with the ATLAS detector”. ATLAS-CONF-2018-013, 2018.

- [809] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Rev.* **D98** (2018) 032016, [arXiv:1805.09299](#). doi:10.1103/PhysRevD.98.032016.
- [810] **ATLAS** Collaboration, P. Janus, “Measurement of W and Z Boson Production in 5 TeV pp , p +Pb and Pb+Pb Collisions with the ATLAS Detector”, *KnE Energ. Phys.* **3** (2018) 345–351. doi:10.18502/ken.v3i1.1765.
- [811] **ATLAS** Collaboration, “Correlated long-range mixed-harmonic fluctuations in pp , p +Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector”. ATLAS-CONF-2018-012, 2018.
- [812] **ATLAS** Collaboration, “Measurement of the azimuthal anisotropy of charged particle production in Xe+Xe collisions at $\sqrt{s_{NN}}=5.44$ TeV with the ATLAS detector”. ATLAS-CONF-2018-011, 2018.
- [813] **ATLAS** Collaboration, “Measurement of angular and momentum distributions of charged-particles within and around jets in Pb+Pb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ATLAS at the LHC”. ATLAS-CONF-2018-010, 2018.
- [814] **ATLAS** Collaboration, “Measurement of photon-jet p_T correlations in 5.02 TeV Pb+Pb and pp collisions with ATLAS”. ATLAS-CONF-2018-009, 2018.
- [815] **ATLAS** Collaboration, “Measurement of v_n - mean p_T correlations in lead-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector.”. ATLAS-CONF-2018-008, 2018.
- [816] **ATLAS** Collaboration, “Charged hadron spectra and dijet p_T correlations measured in Xe+Xe collisions at $\sqrt{s_{NN}} = 5.44$ TeV with the ATLAS detector”. ATLAS-CONF-2018-007, 2018.
- [817] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the nuclear modification factor for inclusive jets in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector”, *Phys. Lett.* **B790** (2019) 108–128, [arXiv:1805.05635](#). doi:10.1016/j.physletb.2018.10.076.
- [818] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector”, *Phys. Rev.* **C98** (2018), no. 2, 024908, [arXiv:1805.05424](#). doi:10.1103/PhysRevC.98.024908.
- [819] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of dijet azimuthal decorrelations in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector and determination of the strong coupling”, *Phys. Rev.* **D98** (2018), no. 9, 092004, [arXiv:1805.04691](#). doi:10.1103/PhysRevD.98.092004.
- [820] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the suppression and azimuthal anisotropy of muons from heavy-flavor decays in Pb+Pb collisions at

- $\sqrt{s_{\text{NN}}} = 2.76$ TeV with the ATLAS detector”, *Phys. Rev.* **C98** (2018), no. 4, 044905, arXiv:1805.05220. doi:10.1103/PhysRevC.98.044905.
- [821] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Rev.* **D98** (2018), no. 3, 032002, arXiv:1805.03483. doi:10.1103/PhysRevD.98.032002.
- [822] **ATLAS** Collaboration, M. Negrini, “Top quark properties and mass measurements with the ATLAS detector”, *Nucl. Part. Phys. Proc.* **294-296** (2018) 54–58. doi:10.1016/j.nuclphysbps.2018.03.014.
- [823] **ATLAS** Collaboration, S. Prince, “Measurement of photon production cross sections also in association with jets with the ATLAS detector”, *Nucl. Part. Phys. Proc.* **294-296** (2018) 1–6. doi:10.1016/j.nuclphysbps.2018.03.016.
- [824] **ATLAS** Collaboration, A. Foster, “Low energy observables with the ATLAS experiment”, *Nucl. Part. Phys. Proc.* **294-296** (2018) 37–41. doi:10.1016/j.nuclphysbps.2018.02.004.
- [825] **ATLAS** Collaboration, L. Massa, “Top Quark Production Cross Section Measurements”, *Nucl. Part. Phys. Proc.* **294-296** (2018) 42–47. doi:10.1016/j.nuclphysbps.2018.03.010.
- [826] **ATLAS** Collaboration, S. Honda, “Measurement of cross sections and couplings of the Higgs Boson using the ATLAS detector”, *Nucl. Part. Phys. Proc.* **294-296** (2018) 183–188. doi:10.1016/j.nuclphysbps.2018.03.006.
- [827] **ATLAS** Collaboration, M. Aaboud et al., “Angular analysis of $B_d^0 \rightarrow K^* \mu^+ \mu^-$ decays in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *JHEP* **10** (2018) 047, arXiv:1805.04000. doi:10.1007/JHEP10(2018)047.
- [828] **ATLAS** Collaboration, M. Aaboud et al., “Prompt and non-prompt J/ψ and $\psi(2S)$ suppression at high transverse momentum in 5.02 TeV Pb+Pb collisions with the ATLAS experiment”, *Eur. Phys. J.* **C78** (2018), no. 9, 762, arXiv:1805.04077. doi:10.1140/epjc/s10052-018-6219-9.
- [829] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of colour flow using jet-pull observables in $t\bar{t}$ events with the ATLAS experiment at $\sqrt{s} = 13$ TeV”, *Eur. Phys. J.* **C78** (2018), no. 10, 847, arXiv:1805.02935. doi:10.1140/epjc/s10052-018-6290-2.
- [830] **ATLAS** Collaboration, M. Aaboud et al., “Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector”, *JHEP* **09** (2018) 050, arXiv:1805.01649. doi:10.1007/JHEP09(2018)050.

- [831] **ATLAS, CMS** Collaboration, S. Sánchez Cruz, “Associated top production in ATLAS and CMS”, in *Proceedings, 53rd Rencontres de Moriond on Electroweak Interactions and Unified Theories (Moriond EW 2018): La Thuile, Italy, March 10-17, 2018*, pp. 85–90. 2018. arXiv:1805.02024.
- [832] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Rev.* **D98** (2018), no. 3, 032015, arXiv:1805.01908. doi:10.1103/PhysRevD.98.032015.
- [833] **ATLAS** Collaboration, J. Llorente, “Determination of the strong coupling constant α_s in multijet production with the ATLAS detector at the LHC.”, *Int. J. Mod. Phys. Conf. Ser.* **46** (2018) 1860085. doi:10.1142/S2010194518600856.
- [834] **ATLAS** Collaboration, V. S. Lang, “Precision Measurements with an Electroweak Boson in the Final State with the ATLAS Detector”, *Int. J. Mod. Phys. Conf. Ser.* **46** (2018) 1860054. doi:10.1142/S2010194518600546.
- [835] **ATLAS** Collaboration, J. Schaarschmidt, “Search for Heavy Higgs Bosons with the ATLAS Detector”, *Int. J. Mod. Phys. Conf. Ser.* **46** (2018) 1860056. doi:10.1142/S201019451860056X.
- [836] **ATLAS** Collaboration, M. Moreno Llácer, “Top Quark Mass and Properties Measurements with the ATLAS Detector”, *Int. J. Mod. Phys. Conf. Ser.* **46** (2018) 1860053. doi:10.1142/S2010194518600534.
- [837] **ATLAS** Collaboration, F. Meloni, “Searches for Direct Pair Production of Third Generation Squarks with the ATLAS Detector”, *Int. J. Mod. Phys. Conf. Ser.* **46** (2018) 1860057. doi:10.1142/S2010194518600571.
- [838] **ATLAS** Collaboration, H. Santos, “Jets in Heavy Ion Collisions with the ATLAS Detector”, *Int. J. Mod. Phys. Conf. Ser.* **46** (2018) 1860020. doi:10.1142/S2010194518600200.
- [839] **ATLAS-LUCID** Collaboration, V. Hedberg, “The LUCID-2 Luminometer”, *Int. J. Mod. Phys. Conf. Ser.* **46** (2018) 1860076. doi:10.1142/S2010194518600765.
- [840] **ATLAS** Collaboration, N. Brusino, “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”, *Int. J. Mod. Phys. Conf. Ser.* **46** (2018) 1860052. doi:10.1142/S2010194518600522.
- [841] **ATLAS** Collaboration, M. Aaboud et al., “Measurements of b-jet tagging efficiency with the ATLAS detector using $t\bar{t}$ events at $\sqrt{s} = 13$ TeV”, *JHEP* **08** (2018) 089, arXiv:1805.01845. doi:10.1007/JHEP08(2018)089.
- [842] **ATLAS, LHCb, CMS** Collaboration, G. G. Da Silveira, “QCD probes at LHC”, in *14th International Workshop on Hadron Physics (Hadron Physics 2018) Florianopolis, Santa Catarina, Brazil, March 18-23, 2018*. 2018. arXiv:1805.00772.

- [843] **ATLAS** Collaboration, Z. Liang, “Construction of the new silicon microstrips tracker for the Phase-II ATLAS detector”, *Nucl. Instrum. Meth.* **A924** (2019) 265–269, arXiv:1804.10771. doi:10.1016/j.nima.2018.09.014.
- [844] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Eur. Phys. J.* **C78** (2018), no. 7, 565, arXiv:1804.10823. doi:10.1140/epjc/s10052-018-5995-6.
- [845] **ATLAS, CMS** Collaboration, R. Moles-Valls, “Single top-quark production in the ATLAS and CMS Experiments”, in *Proceedings, 52nd Rencontres de Moriond on QCD and High Energy Interactions: La Thuile, Italy, March 25-April 1, 2017*, pp. 177–180, CERN. CERN, Geneva, 2017.
- [846] **ATLAS** Collaboration, R. Nicolaidou, “Higgs boson results from the ATLAS experiment at LHC”, in *Proceedings, 52nd Rencontres de Moriond on QCD and High Energy Interactions: La Thuile, Italy, March 25-April 1, 2017*, pp. 3–6, CERN. CERN, Geneva, 2017.
- [847] **ATLAS** Collaboration, G. Brooijmans, “Searches with boosted objects at ATLAS and CMS”, in *Proceedings, 52nd Rencontres de Moriond on QCD and High Energy Interactions: La Thuile, Italy, March 25-April 1, 2017*, pp. 137–140, CERN. CERN, Geneva, 2017.
- [848] **ATLAS** Collaboration, Z. Barnovska-Blenessy, “QCD with jets and photons at ATLAS and CMS”, in *Proceedings, 52nd Rencontres de Moriond on QCD and High Energy Interactions: La Thuile, Italy, March 25-April 1, 2017*, pp. 207–210, CERN. CERN, Geneva, 2017.
- [849] **ATLAS** Collaboration, M. W. Wolter, “Inclusive and differential W/Z cross-section measurements at ATLAS and CMS”, in *Proceedings, 52nd Rencontres de Moriond on QCD and High Energy Interactions: La Thuile, Italy, March 25-April 1, 2017*, pp. 215–218, CERN. CERN, Geneva, 2017.
- [850] **ATLAS** Collaboration, M. Testa, “Search for high mass resonances with ATLAS”, in *Proceedings, 52nd Rencontres de Moriond on QCD and High Energy Interactions: La Thuile, Italy, March 25-April 1, 2017*, pp. 149–152, CERN. CERN, Geneva, 2017.
- [851] **ATLAS** Collaboration, M. Saimpert, “Measurements of integrated and differential cross sections for isolated photon pair production in 8 TeV pp collisions at ATLAS”, in *Proceedings, 52nd Rencontres de Moriond on QCD and High Energy Interactions: La Thuile, Italy, March 25-April 1, 2017*, pp. 227–230, CERN. CERN, Geneva, 2017.
- [852] **ATLAS** Collaboration, A. Ruiz-Martinez, “Measurement of the W boson mass at ATLAS”, in *Proceedings, 52nd Rencontres de Moriond on QCD and High Energy Interactions: La Thuile, Italy, March 25-April 1, 2017*, pp. 39–42, CERN. CERN, Geneva, 2017.

- [853] **ATLAS** Collaboration, M. Aaboud et al., “A search for lepton-flavor-violating decays of the Z boson into a τ -lepton and a light lepton with the ATLAS detector”, *Phys. Rev.* **D98** (2018) 092010, arXiv:1804.09568. doi:10.1103/PhysRevD.98.092010.
- [854] **ATLAS** Collaboration, “Calibration of light-flavour jet b -tagging rates on ATLAS proton-proton collision data at $\sqrt{s} = 13$ TeV”. ATLAS-CONF-2018-006, 2018.
- [855] **ATLAS** Collaboration, M. Aaboud et al., “Search for pair production of Higgs bosons in the $b\bar{b}b\bar{b}$ final state using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **01** (2019) 030, arXiv:1804.06174. doi:10.1007/JHEP01(2019)030.
- [856] **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”. ATLAS-CONF-2018-005, 2018.
- [857] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Lett.* **B785** (2018) 136–158, arXiv:1804.03568. doi:10.1016/j.physletb.2018.08.021.
- [858] **ATLAS** Collaboration, M. Aaboud et al., “Search for supersymmetry in events with four or more leptons in $\sqrt{s} = 13$ TeV pp collisions with ATLAS”, *Phys. Rev.* **D98** (2018), no. 3, 032009, arXiv:1804.03602. doi:10.1103/PhysRevD.98.032009.
- [859] **ATLAS** Collaboration, M. Aaboud et al., “Search for low-mass dijet resonances using trigger-level jets with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV”, *Phys. Rev. Lett.* **121** (2018), no. 8, 081801, arXiv:1804.03496. doi:10.1103/PhysRevLett.121.081801.
- [860] **ATLAS** Collaboration, S. L. Jones, “Search for Exotic Phenomena using Events with Same Charge Dileptons + b-Jets at 13 TeV with ATLAS”, in *Proceedings, 52nd Rencontres de Moriond on Electroweak Interactions and Unified Theories: La Thuile, Italy, March 18-25, 2017*, pp. 433–436. 2017.
- [861] **CMS, ATLAS** Collaboration, A. Petridis, “Cornering natural SUSY with $\sqrt{s} = 13$ TeV data”, in *Proceedings, 52nd Rencontres de Moriond on Electroweak Interactions and Unified Theories: La Thuile, Italy, March 18-25, 2017*, pp. 125–132, CERN. CERN, Geneva, 2017.
- [862] **ATLAS** Collaboration, N. P. Readoff, “Search for $Z\gamma$ resonances in pp collisions with the ATLAS detector”, in *Proceedings, 52nd Rencontres de Moriond on Electroweak Interactions and Unified Theories: La Thuile, Italy, March 18-25, 2017*, pp. 429–432, CERN. CERN, Geneva, 2017.

- [863] **ATLAS, CMS** Collaboration, M.-H. Genest, “Searching For Exotic Physics Beyond the Standard Model: Extrapolation Until the End of Run-3”, in *Proceedings, 52nd Rencontres de Moriond on Electroweak Interactions and Unified Theories: La Thuile, Italy, March 18-25, 2017*, pp. 141–146, CERN. CERN, Geneva, 2017.
- [864] **ATLAS** Collaboration, A. Ducourthial, “Modeling radiation damage to pixel sensors in the ATLAS detector”, *JINST* **13** (2018), no. 03, C03046. doi:10.1088/1748-0221/13/03/C03046.
- [865] **ATLAS, ITk System** Collaboration, F. J. Muñoz, “Module and electronics developments for the ATLAS ITk pixel system”, *JINST* **13** (2018), no. 03, C03045. doi:10.1088/1748-0221/13/03/C03045.
- [866] **ATLAS** Collaboration, M. Aaboud et al., “Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $\ell b b$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett.* **B783** (2018) 392–414, arXiv:1804.01126. doi:10.1016/j.physletb.2018.07.006.
- [867] **ATLAS, CMS** Collaboration, N. Andari, “W boson mass measurement”, in *Proceedings, 52nd Rencontres de Moriond on Electroweak Interactions and Unified Theories: La Thuile, Italy, March 18-25, 2017*, pp. 71–77, CERN. CERN, Geneva, 2017.
- [868] **ATLAS, CMS** Collaboration, E. S. Kuwertz, “Pushing limits on generic squarks and gluinos with 13 TeV data”, in *Proceedings, 52nd Rencontres de Moriond on Electroweak Interactions and Unified Theories: La Thuile, Italy, March 18-25, 2017*, pp. 111–117, CERN. CERN, Geneva, 2017.
- [869] **ATLAS** Collaboration, M. Aaboud et al., “Search for Higgs boson decays into pairs of light (pseudo)scalar particles in the $\gamma\gamma jj$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett.* **B782** (2018) 750–767, arXiv:1803.11145. doi:10.1016/j.physletb.2018.06.011.
- [870] **ATLAS** Collaboration, T. Saito, “Simulation of the ATLAS New Small Wheel trigger”, *PoS TWEPP-17* (2018) 115. doi:10.22323/1.313.0115.
- [871] **ATLAS** Collaboration, T. Costa De Paiva, “Hardware trigger processor for the MDT System”, *PoS TWEPP-17* (2017) 148. doi:10.22323/1.313.0148.
- [872] **ATLAS** Collaboration, S. Tang, “The development of Global Feature eXtractor (gFEX) - the ATLAS calorimeter Level 1 trigger for ATLAS at High Luminosity LHC”, *PoS TWEPP-17* (2017) 146. doi:10.22323/1.313.0146.
- [873] **ATLAS** Collaboration, A. Mizukami, “Development of the new trigger processor board for the ATLAS Level-1 endcap muon trigger for Run-3”, *PoS TWEPP-17* (2017) 145. doi:10.22323/1.313.0145.
- [874] **ATLAS** Collaboration, T. Iizawa, “The ATLAS Fast Tracker System”, *PoS TWEPP-17* (2017) 139. doi:10.22323/1.313.0139.

- [875] **ATLAS ITk project** Collaboration, J. Nielsen, “ATLAS Phase-II upgrade pixel data transmission development”, *PoS TWEPP-17* (2017) 103. doi:10.22323/1.313.0103.
- [876] **ATLAS ITk** Collaboration, P. W. Phillips, J. Dopke, and C. Sawyer, “ATLAS ITk short-strip stave prototypes with 130 nm chipset”, *PoS TWEPP-17* (2017) 070. doi:10.22323/1.313.0070.
- [877] **ATLAS** Collaboration, A. Greenall, “ATLAS ITk short-strip stave prototype module with integrated DCDC powering and control”, *PoS TWEPP-17* (2017) 056. doi:10.22323/1.313.0056.
- [878] **ATLAS** Collaboration, B. Li, “Vector boson scattering, triple gauge-boson final states and limits on anomalous quartic gauge couplings with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 448. doi:10.22323/1.314.0448.
- [879] **ATLAS** Collaboration, D. R. Zaripovas, “Hadronic triggers and trigger object-level analysis at ATLAS”, *PoS EPS-HEP2017* (2017) 808. doi:10.22323/1.314.0808.
- [880] **ATLAS** Collaboration, S. M. M. Weber, “Operation and Performance of the ATLAS Level-1 Calorimeter and Level-1 Topological Triggers in Run 2 at the LHC”, *PoS EPS-HEP2017* (2017) 806. doi:10.22323/1.314.0806.
- [881] **ATLAS** Collaboration, M. Sessa, “Performance of the ATLAS Level-1 muon barrel trigger during the Run 2 data taking”, *PoS EPS-HEP2017* (2017) 803. doi:10.22323/1.314.0803.
- [882] **ATLAS** Collaboration, M. P. Heath, “The new ATLAS Fast Calorimeter Simulation”, *PoS EPS-HEP2017* (2018) 792. doi:10.22323/1.314.0792.
- [883] **ATLAS** Collaboration, N. Giangiacomi, “Readout board upgrade for the Pixel Detectors: reasons, status and results in ATLAS”, *PoS EPS-HEP2017* (2018) 790. doi:10.22323/1.314.0790.
- [884] **ATLAS Tile calorimeter System** Collaboration, G. Di Gregorio, “Laser calibration of the Atlas Tile calorimeter”, *PoS EPS-HEP2017* (2017) 783. doi:10.22323/1.314.0783.
- [885] **ATLAS** Collaboration, M. Calvetti, “Tracking and flavour tagging selection in the ATLAS High Level Trigger”, *PoS EPS-HEP2017* (2017) 779. doi:10.22323/1.314.0779.
- [886] **ATLAS** Collaboration, B. T. Winter, “Measurement of the τ Polarisation in $Z/\gamma^* \rightarrow \tau\tau$ Decays with the ATLAS Detector”, *PoS EPS-HEP2017* (2017) 771. doi:10.22323/1.314.0771.
- [887] **ATLAS** Collaboration, G. Tarna, “Electron identification with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 769. doi:10.22323/1.314.0769.

- [888] **ATLAS** Collaboration, A. Sciandra, “Development of a new Soft Muon Tagger for the identification of b -jets in ATLAS”, *PoS EPS-HEP2017* (2017) 768. doi:10.22323/1.314.0768.
- [889] **ATLAS** Collaboration, M. Lanfermann, “Deep Learning in Flavour Tagging at the ATLAS experiment”, *PoS EPS-HEP2017* (2018) 764. doi:10.22323/1.314.0764.
- [890] **ATLAS** Collaboration, S. Heer, “The secondary vertex finding algorithm with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 762. doi:10.22323/1.314.0762.
- [891] **ATLAS** Collaboration, S. Ghasemi, “Cross-section measurement of $t\bar{t}\gamma$ production in pp collision at $\sqrt{s} = 8$ TeV with the ATLAS experiment”, *PoS EPS-HEP2017* (2017) 761. doi:10.22323/1.314.0761.
- [892] **ATLAS** Collaboration, G. Geßner, “Photon identification with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 760. doi:10.22323/1.314.0760.
- [893] **ATLAS** Collaboration, J. I. Djuvsland, “Studying $WW\gamma$ and $WZ\gamma$ production in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS experiment”, *PoS EPS-HEP2017* (2017) 755. doi:10.22323/1.314.0755.
- [894] **ATLAS** Collaboration, A. D’Onofrio, “CP violation in b -hadron decays using top-pair events in 8 TeV ATLAS data”, *PoS EPS-HEP2017* (2018) 754. doi:10.22323/1.314.0754.
- [895] **ATLAS** Collaboration, A. Bannoura, “Measurement of the inclusive $t\bar{t}$ cross-section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 750. doi:10.22323/1.314.0750.
- [896] **ATLAS** Collaboration, C. Vittori, “W/Z+jets and W/Z+HF-jets production at ATLAS”, *PoS EPS-HEP2017* (2017) 748. doi:10.22323/1.314.0748.
- [897] **ATLAS** Collaboration, M. Verducci, “Measurement of the $b\bar{b}$ dijet cross section in pp collisions at $\sqrt{s} = 7$ TeV with the 2011 dataset collected by the ATLAS detector”, *PoS EPS-HEP2017* (2017) 747. doi:10.22323/1.314.0747.
- [898] **ATLAS** Collaboration, M. Saimpert, “Calibration of light-flavour jet b -tagging rates on ATLAS data at $\sqrt{s} = 13$ TeV”, *PoS EPS-HEP2017* (2017) 745. doi:10.22323/1.314.0745.
- [899] **ATLAS** Collaboration, F. La Ruffa, “Calibration of the ATLAS b -tagging algorithm in $t\bar{t}$ events with high multiplicity of jets”, *PoS EPS-HEP2017* (2017) 739. doi:10.22323/1.314.0739.
- [900] **ATLAS** Collaboration, F. A. Di Bello, “Optimisation of the ATLAS b -tagging algorithms for the 2017-2018 LHC data-taking”, *PoS EPS-HEP2017* (2017) 733. doi:10.22323/1.314.0733.

- [901] **ATLAS** Collaboration, G. Callea, “First measurement of isolated-photon plus jet production in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 732. doi:10.22323/1.314.0732.
- [902] **ATLAS** Collaboration, V. Vecchio, “Identification of the Higgs boson produced in association with top quark pairs in proton-proton collisions: an analysis of the final state containing three leptons with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 723. doi:10.22323/1.314.0723.
- [903] **ATLAS** Collaboration, G. Ucchielli, “Search for doubly-charged Higgs boson in multi-lepton final states at $\sqrt{s}=13$ TeV with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 722. doi:10.22323/1.314.0722.
- [904] **ATLAS** Collaboration, H. Otono, “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”, *PoS EPS-HEP2017* (2017) 713. doi:10.22323/1.314.0713.
- [905] **ATLAS** Collaboration, M. S. Lutz, “Large Radius Tracking at the ATLAS Experiment”, *PoS EPS-HEP2017* (2018) 708. doi:10.22323/1.314.0708.
- [906] **ATLAS** Collaboration, M. Reale and L. Longo, “Search for top squark pair production and decay in four bodies, with two leptons in the final state, at the ATLAS Experiment with LHC Run2 data”, *PoS EPS-HEP2017* (2018) 707. doi:10.22323/1.314.0707.
- [907] **ATLAS** Collaboration, L. Longo, “Search for top squark pair production in final states with two leptons at LHC Run 2 with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 706. doi:10.22323/1.314.0706.
- [908] **ATLAS** Collaboration, N. Hartmann, “Search for gluinos and squarks in events with one isolated lepton, at least 2-9 jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 700. doi:10.22323/1.314.0700.
- [909] **ATLAS** Collaboration, D. M. Handl, “Search for top squarks in final states with one lepton targeting pure bino LSP scenarios with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 699. doi:10.22323/1.314.0699.
- [910] **ATLAS** Collaboration, E. Feng, “Measurements of the Higgs Boson Mass and Couplings with ATLAS 13 TeV Data”, *PoS EPS-HEP2017* (2017) 697. doi:10.22323/1.314.0697.
- [911] **ATLAS** Collaboration, A. E. E. Dumitriu, “Search for the associated production of a Higgs boson and a top quark pair in multilepton (2 leptons, no hadronically-decaying τ lepton candidates and 4 leptons) final states with the ATLAS detector.”, *PoS EPS-HEP2017* (2017) 694. doi:10.22323/1.314.0694.

- [912] **ATLAS** Collaboration, M. Del Gaudio, “Search for long-lived neutral particles decaying into lepton-jets with the ATLAS detector in proton-proton collision data at $\sqrt{s} = 13$ TeV”, *PoS EPS-HEP2017* (2018) 690. doi:10.22323/1.314.0690.
- [913] **ATLAS** Collaboration, L. Cerda Alberich, “Search for resonant and enhanced non-resonant di-Higgs production in the $\gamma\gamma b\bar{b}$ channel with data at 13 TeV with the ATLAS detector”, *PoS EPS-HEP2017* (2018) 687. doi:10.22323/1.314.0687.
- [914] **ATLAS** Collaboration, S. Carra, “Search for electroweak production of supersymmetric particles at LHC Run 2 with the ATLAS detector”, *PoS EPS-HEP2017* (2018) 686. doi:10.22323/1.314.0686.
- [915] **ATLAS** Collaboration, S. Biondi, “Search for $t\bar{t}H$ production in high- p_T regimes with the ATLAS detector”, *PoS EPS-HEP2017* (2018) 684. doi:10.22323/1.314.0684.
- [916] **ATLAS** Collaboration, N. V. Biesuz, “Exotic diboson searches in the $\ell\nu\nu q\bar{q}$ final state using data at $\sqrt{s} = 13$ TeV collected with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 683. doi:10.22323/1.314.0683.
- [917] **ATLAS** Collaboration, J. K. Behr, “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”, *PoS EPS-HEP2017* (2017) 679. doi:10.22323/1.314.0679, 10.22323/1.314.0259.
- [918] **ATLAS** Collaboration, G. Chiodini, “Searches for Dark Matter with in Events with Hadronic Activity”, *PoS EPS-HEP2017* (2017) 631. doi:10.22323/1.314.0631.
- [919] **ATLAS** Collaboration, R. Röhrig, “Search for Dark Matter Produced in Association with the Standard Model Higgs Boson Decaying to $b\bar{b}$ at $\sqrt{s} = 13$ TeV with the ATLAS Detector”, *PoS EPS-HEP2017* (2017) 629. doi:10.22323/1.314.0629.
- [920] **ATLAS** Collaboration, D. R. Tovey, “Highlights from the ATLAS Experiment”, *PoS EPS-HEP2017* (2017) 606. doi:10.22323/1.314.0606.
- [921] **ATLAS, CEVALE2VE** Collaboration, R. Camacho Toro, “Outreaching particle physics to Latin America: CEVALE2VE and the use of ATLAS open data”, *PoS EPS-HEP2017* (2017) 554. doi:10.22323/1.314.0554.
- [922] **ATLAS** Collaboration, S. Biondi, “Picturing diversity in the ATLAS collaboration”, *PoS EPS-HEP2017* (2017) 553. doi:10.22323/1.314.0553.
- [923] **ATLAS** Collaboration, T. Vazquez Schroeder, “The ATLAS Trigger in Run 2: Design, Menu, and Performance”, *PoS EPS-HEP2017* (2017) 525. doi:10.22323/1.314.0525.

- [924] **ATLAS** Collaboration, F. Pastore, “Upgrades of the ATLAS trigger system”, *PoS EPS-HEP2017* (2017) 510. doi:10.22323/1.314.0510.
- [925] **ATLAS ITk** Collaboration, H. Hayward and O. B. O. T. A. I. Project, “Overview and developments for the Phase-II upgrade of the inner tracker of the ATLAS experiment”, *PoS EPS-HEP2017* (2017) 499. doi:10.22323/1.314.0499.
- [926] **ATLAS** Collaboration, D. E. Boumediene, “ATLAS Calorimeter: Run 2 performance and Phase-II upgrades”, *PoS EPS-HEP2017* (2017) 485. doi:10.22323/1.314.0485.
- [927] **ATLAS** Collaboration, M. Battaglia and A. Calandri, “Algorithmic improvements and calibration measurements for flavour tagging at the ATLAS experiment”, *PoS EPS-HEP2017* (2017) 480. doi:10.22323/1.314.0480.
- [928] **ATLAS** Collaboration, F. Spano, “Top quark properties measurements with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 469. doi:10.22323/1.314.0469.
- [929] **ATLAS** Collaboration, K. Kawade, “Measurements of $t\bar{t}+X$ using the ATLAS detector”, *PoS EPS-HEP2017* (2017) 445. doi:10.22323/1.314.0445.
- [930] **ATLAS** Collaboration, S. Cabrera Urban, “Anomalous couplings in single top and searches for rare top quark couplings with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 433. doi:10.22323/1.314.0433.
- [931] **ATLAS** Collaboration, M. Alhroob, “Single Top quark production cross section measurements using the ATLAS detector”, *PoS EPS-HEP2017* (2017) 424. doi:10.22323/1.314.0424.
- [932] **ATLAS** Collaboration, R. Turra, “Measurement of photon production cross sections with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 414. doi:10.22323/1.314.0414.
- [933] **ATLAS** Collaboration, L. Sawyer, “The ATLAS Measurements of Jet Production and the Strong Coupling Constant”, *PoS EPS-HEP2017* (2017) 397. doi:10.22323/1.314.0397.
- [934] **ATLAS** Collaboration, Z. Zinonos, “Searches for electroweak production of supersymmetric gauginos and sleptons with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 357. doi:10.22323/1.314.0357.
- [935] **ATLAS** Collaboration, S.-M. Wang, “Measurement of fermionic couplings of the Standard Model Higgs boson using the $b\bar{b}$, $\tau^+\tau^-$ and $\mu^+\mu^-$ decay channels with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 353. doi:10.22323/1.314.0353.
- [936] **ATLAS** Collaboration, N. Venturi, “ATLAS Higgs and supersymmetry physics prospects at the high luminosity LHC”, *PoS EPS-HEP2017* (2017) 348. doi:10.22323/1.314.0348.

- [937] **ATLAS** Collaboration, T. Vazquez Schroeder, “Determination of the Higgs properties with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 347. doi:10.22323/1.314.0347.
- [938] **ATLAS** Collaboration, P. Thompson, “Search for non-standard, rare or invisible decays of the Higgs boson with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 345. doi:10.22323/1.314.0345.
- [939] **ATLAS** Collaboration, X. Poveda, “Inclusive searches for squarks and gluinos in final states with leptons with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 330. doi:10.22323/1.314.0330.
- [940] **ATLAS** Collaboration, A. Picazio, “Search for New Phenomena in Dijet Events with the ATLAS Detector at $\sqrt{s} = 13$ TeV”, *PoS EPS-HEP2017* (2017) 326. doi:10.22323/1.314.0326.
- [941] **ATLAS** Collaboration, P. Pani, “Searches for direct pair production of third generation squarks in 13 TeV pp collision data in final states with leptons with ATLAS”, *PoS EPS-HEP2017* (2018) 323. doi:10.22323/1.314.0323.
- [942] **ATLAS** Collaboration, O. Nackenhorst, “Searches for Vector-Like Quarks at 13 TeV at the ATLAS Experiment”, *PoS EPS-HEP2017* (2018) 320. doi:10.22323/1.314.0320.
- [943] **ATLAS** Collaboration, S. Mehlhase, “Search for R -parity violating supersymmetry with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 314. doi:10.22323/1.314.0314.
- [944] **ATLAS** Collaboration, J. Maurer, “Search for compressed SUSY scenarios with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 313. doi:10.22323/1.314.0313.
- [945] **ATLAS** Collaboration, T. Lari, “Searches for direct pair production of third generation squarks in final states with no leptons with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 305. doi:10.22323/1.314.0305.
- [946] **ATLAS** Collaboration, M. Janus, “Search for the decay of the Higgs boson into two nMSSM pseudo-scalar particles.”, *PoS EPS-HEP2017* (2017) 293. doi:10.22323/1.314.0293.
- [947] **ATLAS** Collaboration, K. Iordanidou, “ATLAS Searches for $VV/V\gamma$ Resonances”, *PoS EPS-HEP2017* (2017) 291. doi:10.22323/1.314.0291.
- [948] **ATLAS** Collaboration, R. Gupta, “Measurement of the Higgs boson coupling properties in the diphoton and ZZ decay channels using the ATLAS detector”, *PoS EPS-HEP2017* (2017) 288. doi:10.22323/1.314.0288.
- [949] **ATLAS** Collaboration, O. A. Ducu, “Inclusive searches for squarks and gluinos in final states with no leptons with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 280. doi:10.22323/1.314.0280.

- [950] **ATLAS** Collaboration, W. Davey, “Search for di-Higgs production with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 272. doi:10.22323/1.314.0272.
- [951] **ATLAS** Collaboration, E. Bergeaas Kuutmann, “Charged Higgs boson searches with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 260. doi:10.22323/1.314.0260.
- [952] **ATLAS** Collaboration, G. Artoni, “Searches for new phenomena in leptonic final states using the ATLAS detector”, *PoS EPS-HEP2017* (2018) 253. doi:10.22323/1.314.0253.
- [953] **ATLAS** Collaboration, T. Yamazaki, “Search for top squarks in final states with one isolated lepton in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 727. doi:10.22323/1.314.0727.
- [954] **ATLAS** Collaboration, M. Saito, “Search for Long-lived particles with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 717. doi:10.22323/1.314.0717.
- [955] **ATLAS** Collaboration, M. Aaboud et al., “Search for top squarks decaying to tau sleptons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev. D* **D98** (2018), no. 3, 032008, arXiv:1803.10178. doi:10.1103/PhysRevD.98.032008.
- [956] **ATLAS** Collaboration, M. Aaboud et al., “Search for flavour-changing neutral current top-quark decays $t \rightarrow qZ$ in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **07** (2018) 176, arXiv:1803.09923. doi:10.1007/JHEP07(2018)176.
- [957] **ATLAS** Collaboration, M. Aaboud et al., “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”, *JHEP* **07** (2018) 089, arXiv:1803.09678. doi:10.1007/JHEP07(2018)089.
- [958] **ATLAS** Collaboration, U. De Sanctis, “New physics searches with heavy flavour observables at ATLAS”, *PoS EPS-HEP2017* (2017) 211. doi:10.22323/1.314.0211.
- [959] **ATLAS** Collaboration, J. A. A. Kremer, “Measurement of quarkonia production in heavy-ion collisions with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 170. doi:10.22323/1.314.0170.
- [960] **ATLAS** Collaboration, T. Bold, “Measurements of multi-particle correlations and collective flow with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 156. doi:10.22323/1.314.0156.
- [961] **ATLAS** Collaboration, V. Ippolito, “Dark Matter searches with the ATLAS Detector”, *PoS EPS-HEP2017* (2018) 066. doi:10.22323/1.314.0066.
- [962] **ATLAS** Collaboration, D. Yamaguchi, “Search for new phenomena in $t\bar{t}$ + heavy-flavour jets at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *PoS EPS-HEP2017* (2018) 726. doi:10.22323/1.314.0726.

- [963] **ATLAS** Collaboration, P. Tornambe, “SUSY searches at $\sqrt{s} = 13$ TeV with two same-sign leptons or three leptons, jets and E_T^{miss} at the ATLAS detector - Background estimation and latest analysis results.”, *PoS EPS-HEP2017* (2018) 721. doi:10.22323/1.314.0721.
- [964] **ATLAS** Collaboration, M. Testa, “Physics potential of ATLAS upgrades at HL-LHC”, *PoS EPS-HEP2017* (2018) 720. doi:10.22323/1.314.0720.
- [965] **ATLAS** Collaboration, T. Meideck, “Search for new phenomena in high-mass diphoton final states with ATLAS at $\sqrt{s} = 13$ TeV”, *PoS EPS-HEP2017* (2018) 710. doi:10.22323/1.314.0710.
- [966] **ATLAS** Collaboration, S. D. Jones, “Searches for direct top squark pair production in compressed Supersymmetry scenarios with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 704. doi:10.22323/1.314.0704.
- [967] **ATLAS** Collaboration, P. Glaysher, “BDTs in the Search for $t\bar{t}H$ Production with Higgs Decays to $b\bar{b}$ at ATLAS”, *PoS EPS-HEP2017* (2018) 698. doi:10.22323/1.314.0698.
- [968] **ATLAS** Collaboration, M. R. Sutton, “Constraints on the Parton Density Functions of the Proton by Measurements with the ATLAS Detector”, *PoS EPS-HEP2017* (2018) 411. doi:10.22323/1.314.0411.
- [969] **ATLAS** Collaboration, K. Potamianos, “Measurement of the SM Higgs boson mass in the diphoton and 4ℓ decay channels using the ATLAS detector”, *PoS EPS-HEP2017* (2018) 329. doi:10.22323/1.314.0329.
- [970] **ATLAS** Collaboration, S. D’Auria, “Search for heavy resonances decaying to top quarks”, *PoS EPS-HEP2017* (2018) 271. doi:10.22323/1.314.0271.
- [971] **ATLAS Liquid Argon Calorimeter Group** Collaboration, B. Vachon, “The Phase-2 electronics upgrade of the ATLAS liquid argon calorimeter system”, *JINST* **13** (2018), no. 03, C03017. doi:10.1088/1748-0221/13/03/C03017.
- [972] **ATLAS** Collaboration, “Measurement of gluon fusion and vector boson fusion Higgs boson production cross-sections in the $H \rightarrow WW^* \rightarrow e\nu\mu\nu$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2018-004, 2018.
- [973] **ATLAS** Collaboration, “Reinterpretation of searches for supersymmetry in models with variable R -parity-violating coupling strength and long-lived R -hadrons”. ATLAS-CONF-2018-003, 2018.
- [974] **ATLAS** Collaboration, “Combined measurement of differential and inclusive total cross sections in the $H \rightarrow \gamma\gamma$ and the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channels at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2018-002, 2018.
- [975] **ATLAS Muon** Collaboration, E. Farina et al., “Construction and performance studies of large resistive Micromegas quadruplets”, *EPJ Web Conf.* **174** (2018) 01005. doi:10.1051/epjconf/201817401005.

- [976] **ATLAS, CMS** Collaboration, R. Covarelli, “Multiboson production at Atlas and CMS”, in *Proceedings, 52nd Rencontres de Moriond on QCD and High Energy Interactions: La Thuile, Italy, March 25-April 1, 2017*, pp. 219–222, CERN. CERN, Geneva, 2017.
- [977] **ATLAS, CMS** Collaboration, M. Galanti, “Heavy flavour production and properties at ATLAS and CMS”, in *Proceedings, 52nd Rencontres de Moriond on QCD and High Energy Interactions: La Thuile, Italy, March 25-April 1, 2017*, pp. 75–78, CERN. CERN, Geneva, 2017.
- [978] **ATLAS, CMS** Collaboration, L. M. G. Beck, “ $t\bar{t}(+x)$ pair production at CMS and ATLAS”, in *Proceedings, 52nd Rencontres de Moriond on QCD and High Energy Interactions: La Thuile, Italy, March 25-April 1, 2017*, pp. 167–170, CERN. CERN, Geneva, 2017.
- [979] **ATLAS, CMS** Collaboration, L. Soffi, “Searches for dark matter and new physics with unconventional signatures at CMS and ATLAS”, in *Proceedings, 52nd Rencontres de Moriond on QCD and High Energy Interactions: La Thuile, Italy, March 25-April 1, 2017*, pp. 131–136, CERN. CERN, Geneva, 2017.
- [980] **ATLAS, CMS** Collaboration, M. H. F. Van De Klundert, “Soft QCD at CMS and ATLAS”, in *Proceedings, 52nd Rencontres de Moriond on QCD and High Energy Interactions: La Thuile, Italy, March 25-April 1, 2017*, pp. 231–234, CERN. CERN, Geneva, 2017.
- [981] **ATLAS, CMS, Top Working Group** Collaboration, M. Senghi Soares, “Top quark properties at CMS and Atlas”, in *Proceedings, 52nd Rencontres de Moriond on QCD and High Energy Interactions: La Thuile, Italy, March 25-April 1, 2017*, pp. 185–188, CERN. CERN, Geneva, 2017.
- [982] **ATLAS, CMS** Collaboration, L. Cadamuro, “Search and prospects for HH production”, in *Proceedings, 52nd Rencontres de Moriond on Electroweak Interactions and Unified Theories: La Thuile, Italy, March 18-25, 2017*, pp. 17–24, CERN. CERN, Geneva, 2017.
- [983] **ATLAS, CMS, LHCb** Collaboration, A. Apyan, “Electroweak Precision Measurements with Z Bosons at the LHC”, in *Proceedings, 52nd Rencontres de Moriond on Electroweak Interactions and Unified Theories: La Thuile, Italy, March 18-25, 2017*, pp. 49–55, CERN. CERN, Geneva, 2017.
- [984] **ATLAS, CMS** Collaboration, S. Duric, “Studies of diboson production”, in *Proceedings, 52nd Rencontres de Moriond on Electroweak Interactions and Unified Theories: La Thuile, Italy, March 18-25, 2017*, pp. 57–61, CERN. CERN, Geneva, 2017.
- [985] **ATLAS, CMS** Collaboration, R. Radogna, “Searches for dilepton resonances at high mass (Z, W) and other nonhadronic final states with 13 TeV data”, in *Proceedings, 52nd Rencontres de Moriond on Electroweak Interactions and Unified Theories: La Thuile, Italy, March 18-25, 2017*, pp. 133–140, CERN. CERN, Geneva, 2017.

- [986] **ATLAS, CMS** Collaboration, G. Petrucciani, “Evidence for ttH production at \sqrt{s} 13 TeV?”, in *Proceedings, 52nd Rencontres de Moriond on Electroweak Interactions and Unified Theories: La Thuile, Italy, March 18-25, 2017*, pp. 3–8, CERN. CERN, Geneva, 2017.
- [987] **ATLAS, CMS** Collaboration, R. A. Gerosa, “Search for the dark matter mediator with 13 TeV data”, in *Proceedings, 52nd Rencontres de Moriond on Electroweak Interactions and Unified Theories: La Thuile, Italy, March 18-25, 2017*, pp. 271–276, CERN. CERN, Geneva, 2017.
- [988] **ATLAS, CMS** Collaboration, M. Marionneau, “Progress with electroweakino searches with 13 TeV data”, in *Proceedings, 52nd Rencontres de Moriond on Electroweak Interactions and Unified Theories: La Thuile, Italy, March 18-25, 2017*, pp. 119–124, CERN. CERN, Geneva, 2017.
- [989] **ATLAS, CMS** Collaboration, A. Spiezia, “Search for unconventional final states at ATLAS and CMS”, in *Proceedings, 52nd Rencontres de Moriond on Electroweak Interactions and Unified Theories: La Thuile, Italy, March 18-25, 2017*, pp. 163–170, CERN. CERN, Geneva, 2017.
- [990] **ATLAS** Collaboration, M. Aaboud et al., “Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C78** (2018), no. 12, 995, arXiv:1803.02762. doi:10.1140/epjc/s10052-018-6423-7.
- [991] **ATLAS IBL** Collaboration, B. Abbott et al., “Production and Integration of the ATLAS Insertable B-Layer”, *JINST* **13** (2018), no. 05, T05008, arXiv:1803.00844. doi:10.1088/1748-0221/13/05/T05008.
- [992] **ATLAS** Collaboration, “Measurement of b -tagging Efficiency of c -jets in $t\bar{t}$ Events Using a Likelihood Approach with the ATLAS Detector”. ATLAS-CONF-2018-001, 2018.
- [993] **ATLAS, CMS** Collaboration, M. Aleksa, “Calibration techniques and strategies for the present and future LHC electromagnetic calorimeters”, *JINST* **13** (2018), no. 02, C02032. doi:10.1088/1748-0221/13/02/C02032.
- [994] **ATLAS** Collaboration, L. Cerda Alberich, “Calibration and performance of the ATLAS Tile Calorimeter during the LHC Run 2”, *JINST* **13** (2018), no. 02, C02031. doi:10.1088/1748-0221/13/02/C02031.
- [995] **ATLAS Muon** Collaboration, A. Ochi, “Development of large area resistive electrodes for ATLAS NSW Micromegas”, *EPJ Web Conf.* **174** (2018) 03001. doi:10.1051/epjconf/201817403001.
- [996] **ATLAS Muon** Collaboration, G. Iakovidis, “VMM - An ASIC for micropattern detectors”, *EPJ Web Conf.* **174** (2018) 07001. doi:10.1051/epjconf/201817407001.

- [997] **ATLAS Muon** Collaboration, D. Sampsonidis, “Study of the performance of Micromegas detectors in magnetic field”, *EPJ Web Conf.* **174** (2018) 05003. doi:10.1051/epjconf/201817405003.
- [998] **ATLAS Muon** Collaboration, K. Ntekas, “Performance studies of resistive Micromegas chambers for the upgrade of the ATLAS Muon Spectrometer”, *EPJ Web Conf.* **174** (2018) 01014. doi:10.1051/epjconf/201817401014.
- [999] **ATLAS Muon Group** Collaboration, F. Kuger and P. Iengo, “Design, construction and quality control of resistive-Micromegas anode boards for the ATLAS experiment”, *EPJ Web Conf.* **174** (2018) 01013. doi:10.1051/epjconf/201817401013.
- [1000] **ATLAS Muon** Collaboration, J. Bortfeldt, “Construction and test of full-size Micromegas modules for the ATLAS New Small Wheel Upgrade”, *EPJ Web Conf.* **174** (2018) 01003. doi:10.1051/epjconf/201817401003.
- [1001] **ATLAS** Collaboration, M. Aaboud et al., “Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV”, *Eur. Phys. J.* **C78** (2018), no. 11, 903, arXiv:1802.08168. doi:10.1140/epjc/s10052-018-6288-9.
- [1002] **ATLAS** Collaboration, M. Aaboud et al., “Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector”, *JHEP* **10** (2018) 159, arXiv:1802.06572. doi:10.1007/JHEP10(2018)159.
- [1003] **ATLAS** Collaboration, A. Milov, “Electroweak probes with ATLAS”, *PoS High-pT2017* (2019) 016, arXiv:1802.06541. doi:10.22323/1.320.0016.
- [1004] **ATLAS** Collaboration, P. Moschovakos and A. Koulouris, “Design of the front-end detector control system of the ATLAS New Small Wheels”, in *Proceedings, 16th International Conference on Accelerator and Large Experimental Physics Control Systems (ICALPCS 2017): Barcelona, Spain, October 8-13, 2017*, p. THPHA141. 2018.
- [1005] **ATLAS** Collaboration, A. Aukerman and T. M. Hong, “Commissioning and validation of the ATLAS Level-1 topological trigger”, in *Proceedings, 16th International Conference on Accelerator and Large Experimental Physics Control Systems (ICALPCS 2017): Barcelona, Spain, October 8-13, 2017*, p. TUPHA070. 2018.
- [1006] **ATLAS** Collaboration, M. Aaboud et al., “Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment”, *Phys. Rev. Lett.* **120** (2018), no. 21, 211802, arXiv:1802.04329. doi:10.1103/PhysRevLett.120.211802.
- [1007] **ATLAS** Collaboration, M. Aaboud et al., “Measurements of Higgs boson properties in the diphoton decay channel with 36 fb^{-1} of pp collision data at

- $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev.* **D98** (2018) 052005, arXiv:1802.04146. doi:10.1103/PhysRevD.98.052005.
- [1008] **ATLAS** Collaboration, M. Aaboud et al., “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”, *JHEP* **06** (2018) 166, arXiv:1802.03388. doi:10.1007/JHEP06(2018)166.
- [1009] **ATLAS** Collaboration, M. Aaboud et al., “Search for photonic signatures of gauge-mediated supersymmetry in 13 TeV pp collisions with the ATLAS detector”, *Phys. Rev.* **D97** (2018), no. 9, 092006, arXiv:1802.03158. doi:10.1103/PhysRevD.97.092006.
- [1010] **ALICE, ATLAS, CMS, LHCb, LHCf, TOTEM** Collaboration, M. Tasevsky, “Soft QCD measurements at LHC”, in *28th International Symposium on Lepton Photon Interactions at High Energies (LP17) Guangzhou, Guangdong, China, August 7-12, 2017*. 2018. arXiv:1802.02818.
- [1011] **ATLAS** Collaboration, M. Aaboud et al., “Search for a Structure in the $B_s^0\pi^\pm$ Invariant Mass Spectrum with the ATLAS Experiment”, *Phys. Rev. Lett.* **120** (2018), no. 20, 202007, arXiv:1802.01840. doi:10.1103/PhysRevLett.120.202007.
- [1012] **ATLAS** Collaboration, L. Xu, “Production of quarkonia states with the ATLAS detector”, *Nuovo Cim.* **C40** (2017), no. 5, 168. doi:10.1393/ncc/i2017-17168-4.
- [1013] **ATLAS** Collaboration, A. Cueto, “Inclusive isolated-photon production in pp collisions at $\sqrt{s} = 13$ TeV”, *Nuovo Cim.* **C40** (2017), no. 5, 185. doi:10.1393/ncc/i2017-17185-3.
- [1014] **ATLAS** Collaboration, V. Kouskouraon, “Standard-Model precision measurements with W - and Z -bosons using the ATLAS detector”, *Nuovo Cim.* **C40** (2017), no. 5, 180. doi:10.1393/ncc/i2017-17180-8.
- [1015] **ATLAS** Collaboration, J. Schumacher, “Utilizing HPC Network Technologies in High Energy Physics Experiments”, in *Proceedings, IEEE 25th Annual Symposium on High-Performance Interconnects (HOTI 2017): Santa Clara, CA, USA, August 29-30, 2017*, pp. 57–64. 2017.
- [1016] **ATLAS, CMS, LHCb, TOTEM** Collaboration, C. Royon, “Exclusive diffractive results from ATLAS, CMS, LHCb, TOTEM at the LHC”, *EPJ Web Conf.* **172** (2018) 06007. doi:10.1051/epjconf/201817206007.
- [1017] **ATLAS** Collaboration, A. Trzupek, “Recent ATLAS measurements of azimuthal anisotropies in pp and p +Pb collisions”, *EPJ Web Conf.* **172** (2018) 05003. doi:10.1051/epjconf/201817205003.

- [1018] **ATLAS** Collaboration, S. Palazzo, “Highlights of top quark measurements in hadronic final states at ATLAS”, *EPJ Web Conf.* **172** (2018) 04001. doi:10.1051/epjconf/201817204001.
- [1019] **ATLAS** Collaboration, A. Lapertosa, “Measurements of the vector boson production with the ATLAS detector”, *EPJ Web Conf.* **172** (2018) 03001. doi:10.1051/epjconf/201817203001.
- [1020] **ATLAS** Collaboration, M. V. Pérez, “Cross-section measurements of final states with photons and jets with the ATLAS experiment”, *EPJ Web Conf.* **172** (2018) 02002. doi:10.1051/epjconf/201817202002.
- [1021] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Lett. B* **788** (2019) 316–335, arXiv:1801.08769. doi:10.1016/j.physletb.2018.09.062.
- [1022] **ATLAS** Collaboration, M. Aaboud et al., “Search for $W' \rightarrow tb$ decays in the hadronic final state using pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett. B* **781** (2018) 327–348, arXiv:1801.07893. doi:10.1016/j.physletb.2018.03.036.
- [1023] **ATLAS, CMS** Collaboration, J. Brandstetter, “Higgs boson results on couplings to fermions, CP parameters and perspectives for HL-LHC (ATLAS AND CMS)”, in *International Workshop on Future Linear Collider (LCWS2017) Strasbourg, France, October 23-27, 2017*. 2018. arXiv:1801.07926.
- [1024] **ATLAS** Collaboration, M. Aaboud et al., “Search for High-Mass Resonances Decaying to $\tau\nu$ in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector”, *Phys. Rev. Lett.* **120** (2018), no. 16, 161802, arXiv:1801.06992. doi:10.1103/PhysRevLett.120.161802.
- [1025] **ATLAS** Collaboration, A. Bannoura, “Measurement of the inclusive $t\bar{t}$ cross-section in the lepton+jets channel in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, in *Proceedings, 10th International Workshop on Top Quark Physics (TOP2017): Braga, Portugal, September 17-22, 2017*. 2018. arXiv:1801.05190.
- [1026] **ATLAS** Collaboration, I. A. Cioară, “Measurement of the production cross-section of a single top-quark in association with a Z boson at 13 TeV with the ATLAS detector”, in *Proceedings, 10th International Workshop on Top Quark Physics (TOP2017): Braga, Portugal, September 17-22, 2017*. 2018. arXiv:1801.05250.
- [1027] **ATLAS Tile Calorimeter System** Collaboration, S. Senkin, “A Complete Readout Chain of the ATLAS Tile Calorimeter for the HL-LHC: from FATALIC Front-End Electronics to Signal Reconstruction”, *EPJ Web Conf.* **170** (2018) 01015. doi:10.1051/epjconf/201817001015.

- [1028] **ATLAS** Collaboration, A. Cortés-González, “ATLAS Tile Calorimeter calibration and monitoring systems”, *EPJ Web Conf.* **170** (2018) 01003. doi:10.1051/epjconf/201817001003.
- [1029] **ATLAS Tile Calorimeter System** Collaboration, I. Asensi Tortajada, “Upgrade of the ATLAS Hadronic Tile Calorimeter for the High Luminosity LHC”, *EPJ Web Conf.* **170** (2018) 01001. doi:10.1051/epjconf/201817001001.
- [1030] **ATLAS, CMS** Collaboration, G. Van Onsem, “Searches for vector-like quarks and resonances decaying to top quarks with the ATLAS and CMS detectors”, in *Proceedings, 10th International Workshop on Top Quark Physics (TOP2017): Braga, Portugal, September 17-22, 2017*. 2018. arXiv:1801.04417.
- [1031] **ATLAS** Collaboration, Y. Liu, “Searches for new phenomena in final states involving ‘leptons and jets’ or involving leptons using the ATLAS detector”, *PoS DIS2017* (2018) 263. doi:10.22323/1.297.0263.
- [1032] **ATLAS** Collaboration, E. Nagy, “Search for the 125 GeV Higgs boson in the ttH production mode with the ATLAS detector”, *PoS DIS2017* (2018) 273. doi:10.22323/1.297.0273.
- [1033] **ATLAS** Collaboration, D. B. Ta, “Coupling measurements for the 125 GeV Higgs Boson in the fermion decay channels with the ATLAS detector”, *PoS DIS2017* (2018) 272. doi:10.22323/1.297.0272.
- [1034] **ATLAS** Collaboration, W. A. Leight, “Cross-section and coupling measurements with the ATLAS detector for the 125 GeV Higgs Boson in the diboson decay channels”, *PoS DIS2017* (2018) 271. doi:10.22323/1.297.0271.
- [1035] **ATLAS** Collaboration, D. Bogavac, “Search for squarks and gluinos in final states with leptons or no leptons, with the ATLAS detector”, *PoS DIS2017* (2018) 265. doi:10.22323/1.297.0265.
- [1036] **ATLAS** Collaboration, N. V. Biesuz, “ATLAS searches for VH, HH, VV, V+ γ and $\gamma\gamma$ resonances”, *PoS DIS2017* (2018) 264. doi:10.22323/1.297.0264.
- [1037] **ATLAS** Collaboration, C. Camincher, “Search for vector-like quarks and heavy resonances decaying to top quarks in ATLAS”, *PoS DIS2017* (2018) 262. doi:10.22323/1.297.0262.
- [1038] **ATLAS** Collaboration, P. A. Janus, “Measurement of angular correlations in proton-proton and proton-lead collisions with the ATLAS detector at the LHC”, *PoS DIS2017* (2018) 162. doi:10.22323/1.297.0162.
- [1039] **ATLAS** Collaboration, P. Gallus, “Vector boson and quarkonia production in lead-lead collisions with ATLAS detector”, *PoS DIS2017* (2018) 161. doi:10.22323/1.297.0161.
- [1040] **ATLAS** Collaboration, H. De la Torre Perez, “High- E_T isolated-photon plus jets production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *PoS DIS2017* (2018) 160. doi:10.22323/1.297.0160.

- [1041] **ATLAS** Collaboration, N. Kondrashova, “Measurements of the production of jets in association with a W or Z boson with the ATLAS detector”, *PoS DIS2017* (2018) 159. doi:10.22323/1.297.0159.
- [1042] **ATLAS** Collaboration, F. Balli, “Measurement of the W boson mass with the ATLAS detector”, *PoS DIS2017* (2018) 158. doi:10.22323/1.297.0158.
- [1043] **ATLAS** Collaboration, C. P. Hays, “Measurements of vector boson fusion with the ATLAS detector”, *PoS DIS2017* (2018) 157. doi:10.22323/1.297.0157.
- [1044] **ATLAS** Collaboration, A. M. Burger, “Measurement of the diboson production cross section at 8TeV and 13TeV and limits on anomalous triple gauge couplings with the ATLAS detector”, *PoS DIS2017* (2018) 155. doi:10.22323/1.297.0155.
- [1045] **ATLAS** Collaboration, J. Broughton, “Production of the hidden charm state $X(3872)$ and of $\psi(2S)$ with the ATLAS detector”, *PoS DIS2017* (2018) 125. doi:10.22323/1.297.0125.
- [1046] **ATLAS** Collaboration, M. Watson, “Associated production of J/ψ pairs with the ATLAS detector”, *PoS DIS2017* (2018) 124. doi:10.22323/1.297.0124.
- [1047] **ATLAS** Collaboration, I. A. Cioara, “Single top-quark production cross-section using the ATLAS detector at the LHC”, *PoS DIS2017* (2018) 123. doi:10.22323/1.297.0123.
- [1048] **ATLAS** Collaboration, D. Melini, “Measurements of the top quark mass using the ATLAS detector at the LHC”, *PoS DIS2017* (2018) 122. doi:10.22323/1.297.0122.
- [1049] **ATLAS** Collaboration, N.-A. Rosien, “Top quark pair property measurements and $t\bar{t} + X$, using the ATLAS detector at the LHC”, *PoS DIS2017* (2018) 121. doi:10.22323/1.297.0121.
- [1050] **ATLAS** Collaboration, G. Gach, “AFP: First experience with data and future plans”, *PoS DIS2017* (2018) 044. doi:10.22323/1.297.0044.
- [1051] **ATLAS** Collaboration, M. Guzik, “Electromagnetic processes in ultra-peripheral lead-lead collisions with ATLAS”, *PoS DIS2017* (2018) 039. doi:10.22323/1.297.0039.
- [1052] **ATLAS** Collaboration, T. Zenis, “Measurements on hadron production in proton-proton collisions with the ATLAS detector”, *PoS DIS2017* (2018) 037. doi:10.22323/1.297.0037.
- [1053] **ATLAS** Collaboration, O. Kuprash, “Studies of the underlying-event properties and of hard double parton scattering with the ATLAS detector”, *PoS DIS2017* (2018) 035. doi:10.22323/1.297.0035.
- [1054] **CMS, ATLAS** Collaboration, C. Mariotti, “Higgs physics at the LHC”, *PoS DIS2017* (2018) 015. doi:10.22323/1.297.0015.

- [1055] **ATLAS** Collaboration, P. Sommer, “High precision measurement of the differential W and Z boson production cross sections with the ATLAS experiment”, *PoS DIS2017* (2018) 005. doi:10.22323/1.297.0005.
- [1056] **ATLAS** Collaboration, C. David, “A new strips tracker for the upgraded ATLAS ITk detector”, *JINST* **13** (2018), no. 01, C01003. doi:10.1088/1748-0221/13/01/C01003.
- [1057] **ATLAS, CMS** Collaboration, A. Castro, “Top mass measurements in ATLAS and CMS”, in *29th Rencontres de Blois on Particle Physics and Cosmology Blois, France, May 28-June 2, 2017*. 2018. arXiv:1801.02390.
- [1058] **ATLAS** Collaboration, M. Aaboud et al., “Measurements of $t\bar{t}$ differential cross-sections of highly boosted top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector”, *Phys. Rev.* **D98** (2018), no. 1, 012003, arXiv:1801.02052. doi:10.1103/PhysRevD.98.012003.
- [1059] **Herschel ATLAS** Collaboration, V. H. Mahatma et al., “Remnant radio-loud AGN in the Herschel-ATLAS field”, *Mon. Not. Roy. Astron. Soc.* **475** (2018), no. 4, 4557–4578, arXiv:1801.01067. doi:10.1093/mnras/sty025.
- [1060] **ATLAS** Collaboration, A. Basalaeu, “Search for dark matter particle candidates produced in association with a Z boson in pp collisions at a center-of-mass energy of 13 TeV with the ATLAS detector”, *J. Phys. Conf. Ser.* **934** (2017), no. 1, 012024. doi:10.1088/1742-6596/934/1/012024.
- [1061] **ATLAS, CMS** Collaboration, E. Gallo, “Standard Model and Heavy Ion Physics from ATLAS and CMS”, *PoS BORMIO2017* (2017) 042. doi:10.22323/1.302.0042.
- [1062] **ATLAS, CMS** Collaboration, S. Giagu, “Higgs and New Physics at ATLAS and CMS”, *PoS BORMIO2017* (2017) 033. doi:10.22323/1.302.0033.
- [1063] **ATLAS** Collaboration, A. Minaenko, “Recent results on soft QCD topics from ATLAS”, *PoS BORMIO2017* (2017) 020. doi:10.22323/1.302.0020.
- [1064] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the cross section for isolated-photon plus jet production in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector”, *Phys. Lett.* **B780** (2018) 578–602, arXiv:1801.00112. doi:10.1016/j.physletb.2018.03.035.
- [1065] **ATLAS** Collaboration, A. Sopczak, “SUSY (ATLAS)”, *EPJ Web Conf.* **182** (2018) 02121, arXiv:1712.10165. doi:10.1051/epjconf/201818202121.
- [1066] **ATLAS** Collaboration, A. Durglishvili, “Search for tZ Flavour Changing Neutral Currents in top-quark decays with the ATLAS detector”, arXiv:1712.09802.
- [1067] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Rev.* **D97** (2018), no. 7, 072016, arXiv:1712.08895. doi:10.1103/PhysRevD.97.072016.

- [1068] **ATLAS** Collaboration, M. Aaboud et al., “Evidence for the associated production of the Higgs boson and a top quark pair with the ATLAS detector”, *Phys. Rev.* **D97** (2018), no. 7, 072003, arXiv:1712.08891. doi:10.1103/PhysRevD.97.072003.
- [1069] **ATLAS** Collaboration, M. Aaboud et al., “Search for electroweak production of supersymmetric states in scenarios with compressed mass spectra at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev.* **D97** (2018), no. 5, 052010, arXiv:1712.08119. doi:10.1103/PhysRevD.97.052010.
- [1070] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the production cross section of three isolated photons in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector”, *Phys. Lett.* **B781** (2018) 55–76, arXiv:1712.07291. doi:10.1016/j.physletb.2018.03.057.
- [1071] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Eur. Phys. J.* **C78** (2018) 487, arXiv:1712.06857. doi:10.1140/epjc/s10052-018-5904-z.
- [1072] **ATLAS** Collaboration, M. Aaboud et al., “Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b -jets in 36 fb^{-1} of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”, *JHEP* **03** (2018) 174, arXiv:1712.06518. [Erratum: JHEP11,051(2018)]. doi:10.1007/JHEP11(2018)051, 10.1007/JHEP03(2018)174.
- [1073] **ATLAS** Collaboration, M. Aaboud et al., “Search for heavy ZZ resonances in the $\ell^+\ell^-\ell^+\ell^-$ and $\ell^+\ell^-\nu\bar{\nu}$ final states using proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C78** (2018), no. 4, 293, arXiv:1712.06386. doi:10.1140/epjc/s10052-018-5686-3.
- [1074] **CMS, ATLAS** Collaboration, T. J. Kim, “Differential cross sections of global event variables of $t\bar{t}$ ”, in *Proceedings, 10th International Workshop on Top Quark Physics (TOP2017): Braga, Portugal, September 17-22, 2017*. 2017. arXiv:1712.05921.
- [1075] **ATLAS** Collaboration, “Search for $W' \rightarrow tb$ in the hadronic final state with the ATLAS Detector in $\sqrt{s} = 13$ TeV pp collisions”. ATLAS-CONF-2017-082, 2017.
- [1076] **ATLAS** Collaboration, “Search for pair production of higgsinos in final states with at least 3 b -tagged jets using the ATLAS detector in $\sqrt{s} = 13$ TeV pp collisions”. ATLAS-CONF-2017-081, 2017.
- [1077] **ATLAS** Collaboration, “Search for photonic signatures of gauge-mediated supersymmetry in 13 TeV pp collisions with the ATLAS detector”. ATLAS-CONF-2017-080, 2017.
- [1078] **ATLAS** Collaboration, “Search for top squarks decaying to tau sleptons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2017-079, 2017.

- [1079] **ATLAS** Collaboration, “Search for the decay of the Higgs boson to charm quarks with the ATLAS experiment”. ATLAS-CONF-2017-078, 2017.
- [1080] **ATLAS** Collaboration, H. Santos, “Jets and charged hadrons in heavy-ion collisions with the ATLAS detector”, *Acta Phys. Polon. Supp.* **10** (2017), no. 4, 1191–1196. doi:10.5506/APhysPolBSupp.10.1191.
- [1081] **ATLAS ITk** Collaboration, M. Rimoldi, “CMOS pixel sensor development for the ATLAS experiment at the High Luminosity-LHC”, *JINST* **12** (2017) C12014. doi:10.1088/1748-0221/12/12/C12014.
- [1082] **ATLAS** Collaboration, A. Basalaeu, “Search for WIMP dark matter produced in association with a Z boson with the ATLAS detector”, *EPJ Web Conf.* **164** (2017) 08008. doi:10.1051/epjconf/201716408008.
- [1083] **ATLAS** Collaboration, D. Sampsonidou, “Precise determination of the muon reconstruction efficiency in ATLAS at Run-II”, *EPJ Web Conf.* **164** (2017) 08006. doi:10.1051/epjconf/201716408006.
- [1084] **ATLAS** Collaboration, M. J. Costa, “Top quark properties using the ATLAS detector at the LHC”, *EPJ Web Conf.* **164** (2017) 07053. doi:10.1051/epjconf/201716407053.
- [1085] **ATLAS** Collaboration, N. B. Atlay, “Top quark production measurements using the ATLAS detector at the LHC”, *EPJ Web Conf.* **164** (2017) 07052. doi:10.1051/epjconf/201716407052.
- [1086] **ATLAS** Collaboration, E. Stanecka, “Recent results on soft QCD topics, and jet, V+jet and photon production from ATLAS”, *EPJ Web Conf.* **164** (2017) 07035. doi:10.1051/epjconf/201716407035.
- [1087] **ATLAS** Collaboration, I. Connelly, “Performance and calibration of b-tagging with the ATLAS experiment at LHC Run-2”, *EPJ Web Conf.* **164** (2017) 07025. doi:10.1051/epjconf/201716407025.
- [1088] **ATLAS** Collaboration, M. Aaboud et al., “Search for exclusive Higgs and Z boson decays to $\phi\gamma$ and $\rho\gamma$ with the ATLAS detector”, *JHEP* **07** (2018) 127, arXiv:1712.02758. doi:10.1007/JHEP07(2018)127.
- [1089] **ATLAS** Collaboration, M. Ishino, “ATLAS Trigger and DAQ upgrades for High-Luminosity LHC”, *EPJ Web Conf.* **164** (2017) 07003. doi:10.1051/epjconf/201716407003.
- [1090] **ATLAS, CMS** Collaboration, S. Snyder, “High-mass Higgs searches at ATLAS and CMS”, *EPJ Web Conf.* **164** (2017) 05001. doi:10.1051/epjconf/201716405001.
- [1091] **ATLAS** Collaboration, R. M. Bianchi, “SUSY searches with the ATLAS detector”, *EPJ Web Conf.* **164** (2017) 01030. doi:10.1051/epjconf/201716401030.

- [1092] **ATLAS, CMS** Collaboration, C. Autermann, “Search for supersymmetry at the LHC”, *EPJ Web Conf.* **164** (2017) 01028. doi:10.1051/epjconf/201716401028.
- [1093] **ATLAS** Collaboration, E. Yu. Soldatov, “Precision measurements and searches with single and multiple gauge bosons with the ATLAS detector”, *EPJ Web Conf.* **164** (2017) 01022. doi:10.1051/epjconf/201716401022.
- [1094] **ATLAS** Collaboration, M. Aaboud et al., “Search for squarks and gluinos in final states with jets and missing transverse momentum using 36 fb^{-1} of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector”, *Phys. Rev.* **D97** (2018), no. 11, 112001, arXiv:1712.02332. doi:10.1103/PhysRevD.97.112001.
- [1095] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **03** (2018) 095, arXiv:1712.02304. doi:10.1007/JHEP03(2018)095.
- [1096] **ATLAS** Collaboration, M. Aaboud et al., “Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **06** (2018) 022, arXiv:1712.02118. doi:10.1007/JHEP06(2018)022.
- [1097] **ATLAS** Collaboration, F. Malek, “Search for a high mass diphoton resonance using the ATLAS detector”, *EPJ Web Conf.* **164** (2017) 01027. doi:10.1051/epjconf/201716401027.
- [1098] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of differential cross-sections of a single top quark produced in association with a W boson at $\sqrt{s} = 13$ TeV with ATLAS”, *Eur. Phys. J.* **C78** (2018), no. 3, 186, arXiv:1712.01602. doi:10.1140/epjc/s10052-018-5649-8.
- [1099] **ATLAS Tile Calorimeter System** Collaboration, E. Valdes Santurio, “Upgrade of Tile Calorimeter of the ATLAS detector for the High Luminosity LHC.”, *J. Phys. Conf. Ser.* **928** (2017), no. 1, 012024. doi:10.1088/1742-6596/928/1/012024.
- [1100] **ATLAS** Collaboration, C. Fischer, “Study of TileCal scintillator irradiation using the minimum bias integrators”, *J. Phys. Conf. Ser.* **928** (2017), no. 1, 012006. doi:10.1088/1742-6596/928/1/012006.
- [1101] **ATLAS** Collaboration, T. Davidek, “ATLAS Tile Calorimeter time calibration, monitoring and performance”, *J. Phys. Conf. Ser.* **928** (2017), no. 1, 012003. doi:10.1088/1742-6596/928/1/012003.
- [1102] **ATLAS** Collaboration, A. Chomont, “ATLAS Tile calorimeter calibration and monitoring systems”, *J. Phys. Conf. Ser.* **928** (2017), no. 1, 012002. doi:10.1088/1742-6596/928/1/012002.

- [1103] **ATLAS** Collaboration, M. Aaboud et al., “Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb^{-1} of $\sqrt{s} = 13 \text{ TeV}$ pp collision data with the ATLAS detector”, *JHEP* **06** (2018) 108, arXiv:1711.11520. doi:10.1007/JHEP06(2018)108.
- [1104] **ATLAS Muon** Collaboration, P. Moschovakos, “Trigger and readout electronics for the phase-I upgrade of the ATLAS forward muon spectrometer”, in *Proceedings, 6th International Conference on Modern Circuits and Systems Technologies (MOCASST 2017): Thessaloniki, Greece, May 4-6, 2017*, p. 7937658. 2017.
- [1105] **ATLAS** Collaboration, B. Pearson, “Top quark mass in ATLAS”, in *Proceedings, 10th International Workshop on Top Quark Physics (TOP2017): Braga, Portugal, September 17-22, 2017*. 2017. arXiv:1711.09763.
- [1106] **ATLAS** Collaboration, M. Ghneimat, “Measurement of the $t\bar{t}\gamma$ production cross section in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector”, in *Proceedings, 10th International Workshop on Top Quark Physics (TOP2017): Braga, Portugal, September 17-22, 2017*. 2017. arXiv:1711.09378.
- [1107] **Herschel ATLAS** Collaboration, I. K. Baldry et al., “Galaxy And Mass Assembly: the G02 field, Herschel–ATLAS target selection and data release 3”, *Mon. Not. Roy. Astron. Soc.* **474** (2018), no. 3, 3875–3888, arXiv:1711.09139. doi:10.1093/mnras/stx3042.
- [1108] **ATLAS** Collaboration, G. Sabato, M. Elsing, C. Gumpert et al., “ATLAS fast physics monitoring: TADA”, *J. Phys. Conf. Ser.* **898** (2017), no. 9, 092015. doi:10.1088/1742-6596/898/9/092015.
- [1109] **ATLAS** Collaboration, B. Burghgrave, “Processing and Quality Monitoring for the ATLAS Tile Hadronic Calorimeter Data”, *J. Phys. Conf. Ser.* **898** (2017), no. 9, 092025. doi:10.1088/1742-6596/898/9/092025.
- [1110] **ATLAS** Collaboration, A. Limosani, “Monitoring of computing resource use of active software releases at ATLAS”, *J. Phys. Conf. Ser.* **898** (2017), no. 9, 092011. doi:10.1088/1742-6596/898/9/092011.
- [1111] **ATLAS** Collaboration, X. Hoad, “Trigger Menu-aware Monitoring for the ATLAS experiment”, *J. Phys. Conf. Ser.* **898** (2017), no. 9, 092007. doi:10.1088/1742-6596/898/9/092007.
- [1112] **ATLAS** Collaboration, F. Barreiro Megino et al., “Integration of Titan supercomputer at OLCF with ATLAS Production System”, *J. Phys. Conf. Ser.* **898** (2017), no. 9, 092002. doi:10.1088/1742-6596/898/9/092002.
- [1113] **ATLAS** Collaboration, F. G. Sciacca and S. Haug, “ATLAS and LHC computing on CRAY”, *J. Phys. Conf. Ser.* **898** (2017), no. 8, 082004. doi:10.1088/1742-6596/898/8/082004.

- [1114] **ATLAS** Collaboration, C. Adam-Bourdarios, R. Bianchi, D. Cameron et al., “Volunteer computing experience with ATLAS@Home”, *J. Phys. Conf. Ser.* **898** (2017), no. 5, 052009. doi:10.1088/1742-6596/898/5/052009.
- [1115] **ATLAS** Collaboration, S. Boutle et al., “Primary vertex reconstruction at the ATLAS experiment”, *J. Phys. Conf. Ser.* **898** (2017), no. 4, 042056. doi:10.1088/1742-6596/898/4/042056.
- [1116] **ATLAS** Collaboration, R. M. Bianchi, J. Boudreau, N. Konstantinidis et al., “Event visualization in ATLAS”, *J. Phys. Conf. Ser.* **898** (2017), no. 7, 072014. doi:10.1088/1742-6596/898/7/072014.
- [1117] **ATLAS** Collaboration, G. A. Stewart and W. Lampl, “How to review 4 million lines of ATLAS code”, *J. Phys. Conf. Ser.* **898** (2017), no. 7, 072013. doi:10.1088/1742-6596/898/7/072013.
- [1118] **ATLAS** Collaboration, J. Elmsheuser, A. Krasznahorkay, E. Obreshkov et al., “Large scale software building with CMake in ATLAS”, *J. Phys. Conf. Ser.* **898** (2017), no. 7, 072010. doi:10.1088/1742-6596/898/7/072010.
- [1119] **ATLAS** Collaboration, J. Elmsheuser, A. Krasznahorkay, E. Obreshkov et al., “A roadmap to continuous integration for ATLAS software development”, *J. Phys. Conf. Ser.* **898** (2017), no. 7, 072009. doi:10.1088/1742-6596/898/7/072009.
- [1120] **ATLAS** Collaboration, J. W. Smith, G. A. Stewart, R. Seuster et al., “ATLAS software stack on ARM64”, *J. Phys. Conf. Ser.* **898** (2017), no. 7, 072001. doi:10.1088/1742-6596/898/7/072001.
- [1121] **ATLAS** Collaboration, V. Garonne, M. Barisits, T. Beermann et al., “Experiences with the new ATLAS Distributed Data Management System”, *J. Phys. Conf. Ser.* **898** (2017), no. 6, 062019. doi:10.1088/1742-6596/898/6/062019.
- [1122] **ATLAS** Collaboration, T. Beermann, M. Lassnig, M. Barisits et al., “C3PO - A dynamic data placement agent for ATLAS distributed data management”, *J. Phys. Conf. Ser.* **898** (2017), no. 6, 062012. doi:10.1088/1742-6596/898/6/062012.
- [1123] **ATLAS** Collaboration, A. Fernandez Casani et al., “ATLAS EventIndex general dataflow and monitoring infrastructure”, *J. Phys. Conf. Ser.* **898** (2017), no. 6, 062010. doi:10.1088/1742-6596/898/6/062010.
- [1124] **ATLAS** Collaboration, M. Lassnig, W. Toler, R. Vamosi et al., “Machine learning of network metrics in ATLAS Distributed Data Management”, *J. Phys. Conf. Ser.* **898** (2017), no. 6, 062009. doi:10.1088/1742-6596/898/6/062009.
- [1125] **ATLAS** Collaboration, G. F. Rzehorz, G. Kawamura, O. Keeble et al., “Data intensive ATLAS workflows in the Cloud”, *J. Phys. Conf. Ser.* **898** (2017), no. 6, 062008. doi:10.1088/1742-6596/898/6/062008.

- [1126] **ATLAS** Collaboration, J. Fulachier, J. Odier, and F. Lambert, “ATLAS Metadata Interface (AMI), a generic metadata framework”, *J. Phys. Conf. Ser.* **898** (2017), no. 6, 062001. doi:10.1088/1742-6596/898/6/062001.
- [1127] **ATLAS** Collaboration, S. Haug and F. G. Sciacca, “ATLAS computing on Swiss Cloud SWITCHengines”, *J. Phys. Conf. Ser.* **898** (2017), no. 5, 052017. doi:10.1088/1742-6596/898/5/052017.
- [1128] **ATLAS** Collaboration, F. H. Barreiro, M. Borodin, K. De et al., “The ATLAS Production System Evolution: New Data Processing and Analysis Paradigm for the LHC Run2 and High-Luminosity”, *J. Phys. Conf. Ser.* **898** (2017), no. 5, 052016. doi:10.1088/1742-6596/898/5/052016.
- [1129] **ATLAS** Collaboration, F. Barreiro Megino, K. De, A. Di Girolamo et al., “ATLAS WORLD-cloud and networking in PanDA”, *J. Phys. Conf. Ser.* **898** (2017), no. 5, 052011. doi:10.1088/1742-6596/898/5/052011.
- [1130] **ATLAS** Collaboration, D. Cameron, A. Filipčič, W. Guan et al., “Exploiting opportunistic resources for ATLAS with ARC CE and the Event Service”, *J. Phys. Conf. Ser.* **898** (2017), no. 5, 052010. doi:10.1088/1742-6596/898/5/052010.
- [1131] **ATLAS** Collaboration, R. P. Taylor, C. J. D. Cordeiro, D. Giordano et al., “Consolidation of cloud computing in ATLAS”, *J. Phys. Conf. Ser.* **898** (2017), no. 5, 052008. doi:10.1088/1742-6596/898/5/052008.
- [1132] **ATLAS** Collaboration, S. McKee, “Networks in ATLAS”, *J. Phys. Conf. Ser.* **898** (2017), no. 5, 052006. doi:10.1088/1742-6596/898/5/052006.
- [1133] **ATLAS** Collaboration, A. Dewhurst and F. Legger, “Evolution of user analysis on the grid in ATLAS”, *J. Phys. Conf. Ser.* **898** (2017), no. 5, 052005. doi:10.1088/1742-6596/898/5/052005.
- [1134] **ATLAS** Collaboration, F. H. Barreiro Megino, K. De, A. Klimentov et al., “PanDA for ATLAS distributed computing in the next decade”, *J. Phys. Conf. Ser.* **898** (2017), no. 5, 052002. doi:10.1088/1742-6596/898/5/052002.
- [1135] **ATLAS** Collaboration, P. J. Laycock, M. A. Chelstowska, T. C. Donszelmann et al., “ATLAS data preparation in run 2”, *J. Phys. Conf. Ser.* **898** (2017), no. 4, 042050. doi:10.1088/1742-6596/898/4/042050.
- [1136] **ATLAS** Collaboration, M. Paganini, “Machine Learning Algorithms for b -Jet Tagging at the ATLAS Experiment”, *J. Phys. Conf. Ser.* **1085** (2018), no. 4, 042031, arXiv:1711.08811. doi:10.1088/1742-6596/1085/4/042031.
- [1137] **ATLAS** Collaboration, A. Di Simone, “Modernizing the ATLAS simulation infrastructure”, *J. Phys. Conf. Ser.* **898** (2017), no. 4, 042010. doi:10.1088/1742-6596/898/4/042010.

- [1138] **ATLAS** Collaboration, E. J. Gallas, G. Dimitrov, P. Vasileva et al., “An Oracle-based event index for ATLAS”, *J. Phys. Conf. Ser.* **898** (2017), no. 4, 042033. doi:10.1088/1742-6596/898/4/042033.
- [1139] **ATLAS** Collaboration, A. Basalaev and Z. Marshall, “The Fast Simulation Chain for ATLAS”, *J. Phys. Conf. Ser.* **898** (2017), no. 4, 042016. doi:10.1088/1742-6596/898/4/042016.
- [1140] **ATLAS** Collaboration, S. Farrell, P. Calafiura, C. Leggett et al., “Multi-threaded ATLAS simulation on Intel Knights Landing processors”, *J. Phys. Conf. Ser.* **898** (2017), no. 4, 042012. doi:10.1088/1742-6596/898/4/042012.
- [1141] **ATLAS** Collaboration, C. Gumpert, A. Salzburger, M. Kiehn et al., “ACTS: from ATLAS software towards a common track reconstruction software”, *J. Phys. Conf. Ser.* **898** (2017), no. 4, 042011. doi:10.1088/1742-6596/898/4/042011.
- [1142] **ATLAS** Collaboration, L.-G. Gagnon, “Development and performance of track reconstruction algorithms at the energy frontier with the ATLAS detector”, *J. Phys. Conf. Ser.* **898** (2017), no. 4, 042007. doi:10.1088/1742-6596/898/4/042007.
- [1143] **ATLAS** Collaboration, A. Haas, “ATLAS simulation using real data: Embedding and overlay”, *J. Phys. Conf. Ser.* **898** (2017), no. 4, 042004. doi:10.1088/1742-6596/898/4/042004.
- [1144] **ATLAS** Collaboration, L. Aperio Bella, D. Barberis, W. Buttinger et al., “First use of LHC Run 3 Conditions Database infrastructure for auxiliary data files in ATLAS”, *J. Phys. Conf. Ser.* **898** (2017), no. 4, 042002. doi:10.1088/1742-6596/898/4/042002.
- [1145] **ATLAS** Collaboration, I. Riu, “The ATLAS Level-1 Topological Trigger performance in Run 2”, *J. Phys. Conf. Ser.* **898** (2017), no. 3, 032037. doi:10.1088/1742-6596/898/3/032037.
- [1146] **ATLAS** Collaboration, W. Panduro Vazquez, “The ATLAS Data Acquisition system in LHC Run 2”, *J. Phys. Conf. Ser.* **898** (2017), no. 3, 032017. doi:10.1088/1742-6596/898/3/032017.
- [1147] **ATLAS Tile Calorimeter System** Collaboration, A. Valero, “Data acquisition and processing in the ATLAS tile calorimeter phase-II upgrade demonstrator”, *J. Phys. Conf. Ser.* **898** (2017), no. 3, 032012. doi:10.1088/1742-6596/898/3/032012.
- [1148] **ATLAS** Collaboration, R. Keyes, “Development, validation and integration of the ATLAS Trigger System software in Run 2”, *J. Phys. Conf. Ser.* **898** (2017), no. 3, 032008. doi:10.1088/1742-6596/898/3/032008.
- [1149] **ATLAS** Collaboration, T. Martin, “Frameworks to monitor and predict rates and resource usage in the ATLAS High Level Trigger”, *J. Phys. Conf. Ser.* **898** (2017), no. 3, 032007. doi:10.1088/1742-6596/898/3/032007.

- [1150] **ATLAS** Collaboration, B. M. Miller Allbrooke, “The design of a fast Level 1 Track trigger for the ATLAS High Luminosity Upgrade”, *J. Phys. Conf. Ser.* **898** (2017), no. 3, 032005. doi:10.1088/1742-6596/898/3/032005.
- [1151] **ATLAS** Collaboration, P. Conde Muño, “Multi-threaded algorithms for GPGPU in the ATLAS High Level Trigger”, *J. Phys. Conf. Ser.* **898** (2017), no. 3, 032003. doi:10.1088/1742-6596/898/3/032003.
- [1152] **ATLAS** Collaboration, B. Wynne, “Implementation of the ATLAS trigger within the multi-threaded software framework AthenaMT”, *J. Phys. Conf. Ser.* **898** (2017), no. 3, 032002. doi:10.1088/1742-6596/898/3/032002.
- [1153] **ATLAS** Collaboration, A. Haas, “HiggsHunters - a citizen science project for ATLAS”, *J. Phys. Conf. Ser.* **898** (2017), no. 10, 102002. doi:10.1088/1742-6596/898/10/102002.
- [1154] **ATLAS** Collaboration, A. Filipčič, “Integration of the Chinese HPC Grid in ATLAS Distributed Computing”, *J. Phys. Conf. Ser.* **898** (2017), no. 8, 082008. doi:10.1088/1742-6596/898/8/082008.
- [1155] **ATLAS** Collaboration, P. A. Love, M. Alef, S. Dal Pra et al., “Analysis of empty ATLAS pilot jobs”, *J. Phys. Conf. Ser.* **898** (2017), no. 9, 092005. doi:10.1088/1742-6596/898/9/092005.
- [1156] **ATLAS** Collaboration, F. Lambert, J. Odier, and J. Fulachier, “Deploying the ATLAS Metadata Interface (AMI) on the cloud with Jenkins”, *J. Phys. Conf. Ser.* **898** (2017), no. 9, 092001. doi:10.1088/1742-6596/898/9/092001.
- [1157] **ATLAS** Collaboration, M. Barisits, C. Serfon, V. Garonne et al., “Automatic rebalancing of data in ATLAS distributed data management”, *J. Phys. Conf. Ser.* **898** (2017), no. 6, 062006. doi:10.1088/1742-6596/898/6/062006.
- [1158] **ATLAS** Collaboration, D. Benjamin, P. Calafiura, T. Childers et al., “Production experience with the ATLAS Event Service”, *J. Phys. Conf. Ser.* **898** (2017), no. 6, 062002. doi:10.1088/1742-6596/898/6/062002.
- [1159] **ATLAS** Collaboration, A. Filipčič, “ATLAS Distributed Computing experience and performance during the LHC Run-2”, *J. Phys. Conf. Ser.* **898** (2017), no. 5, 052015. doi:10.1088/1742-6596/898/5/052015.
- [1160] **ATLAS** Collaboration, A. Pacheco Pagés et al., “How to keep the Grid full and working with ATLAS production and physics jobs”, *J. Phys. Conf. Ser.* **898** (2017), no. 5, 052001. doi:10.1088/1742-6596/898/5/052001.
- [1161] **ATLAS** Collaboration, C. Leggett et al., “AthenaMT: upgrading the ATLAS software framework for the many-core world with multi-threading”, *J. Phys. Conf. Ser.* **898** (2017), no. 4, 042009. doi:10.1088/1742-6596/898/4/042009.
- [1162] **ATLAS** Collaboration, J. Schaarschmidt, “The new ATLAS Fast Calorimeter Simulation”, *J. Phys. Conf. Ser.* **898** (2017), no. 4, 042006. doi:10.1088/1742-6596/898/4/042006.

- [1163] **ATLAS TDAQ** Collaboration, S. Ryu, “FELIX: The new detector readout system for the ATLAS experiment”, *J. Phys. Conf. Ser.* **898** (2017), no. 3, 032057. doi:10.1088/1742-6596/898/3/032057.
- [1164] **ATLAS** Collaboration, L. Rinaldi, D. Barberis, A. Formica et al., “Collecting conditions usage metadata to optimize current and future ATLAS software and processing”, *J. Phys. Conf. Ser.* **898** (2017), no. 4, 042028. doi:10.1088/1742-6596/898/4/042028.
- [1165] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the Soft-Drop Jet Mass in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector”, *Phys. Rev. Lett.* **121** (2018), no. 9, 092001, arXiv:1711.08341. doi:10.1103/PhysRevLett.121.092001.
- [1166] **ATLAS** Collaboration, I. Nitsche, “Search for $t\bar{t}H$ and tH production with $H \rightarrow \gamma\gamma$ at $\sqrt{s} = 13$ TeV with the ATLAS experiment”, in *Proceedings, 10th International Workshop on Top Quark Physics (TOP2017): Braga, Portugal, September 17-22, 2017*. 2017. arXiv:1711.08211.
- [1167] **ATLAS** Collaboration, T. Jakoubek, “B-physics studies for HL-LHC ATLAS upgrade”, *PoS FPCP2017* (2017) 045. doi:10.22323/1.304.0045.
- [1168] **ATLAS** Collaboration, I. Carli, “Angular analysis of $B_d^0 \rightarrow K^*\mu^+\mu^-$ decay with the ATLAS detector”, *PoS FPCP2017* (2017) 043. doi:10.22323/1.304.0043.
- [1169] **ATLAS, CMS** Collaboration, A. Massironi, “Overview of SM and Higgs results at ATLAS and CMS”, *PoS FPCP2017* (2017) 032. doi:10.22323/1.304.0032.
- [1170] **ATLAS, CMS, LHCb** Collaboration, E. Bouhova-Thacker, “Associated production with onia, double onia production at the LHC”, *PoS FPCP2017* (2017) 012. doi:10.22323/1.304.0012.
- [1171] **ATLAS, CMS** Collaboration, G. Conti, “Beyond the Standard Model Searches at ATLAS and CMS”, in *Centennial of General Relativity: A Celebration*, C. A. Z. Vasconcellos, ed., pp. 215–239. 2017.
- [1172] **ATLAS, CMS** Collaboration, C. Biino, “Highlights of Standard Model Results from ATLAS and CMS”, in *Centennial of General Relativity: A Celebration*, C. A. Z. Vasconcellos, ed., pp. 191–213. 2017.
- [1173] **ATLAS** Collaboration, M. Aaboud et al., “Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector”, *JHEP* **01** (2018) 126, arXiv:1711.03301. doi:10.1007/JHEP01(2018)126.
- [1174] **ATLAS** Collaboration, M. Aaboud et al., “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”, *JHEP* **05** (2018) 077, arXiv:1711.03296. doi:10.1007/JHEP05(2018)077.

- [1175] **ATLAS, CMS** Collaboration, T. R. F. P. Tomei, “Evolution of online algorithms in ATLAS and CMS in Run 2”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1711.02946.
- [1176] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **05** (2018) 195, arXiv:1711.02692.
doi:10.1007/JHEP05(2018)195.
- [1177] **ATLAS** Collaboration, L. Alberich, “Photon and electron identification with the ATLAS detector”, *PoS ICHEP2016* (2017) 1235. doi:10.22323/1.282.1235.
- [1178] **ATLAS** Collaboration, S. Schramm, “Performance of boosted object and jet substructure techniques in Run 1 and 2 ATLAS data”, *PoS ICHEP2016* (2017) 1155. doi:10.22323/1.282.1155.
- [1179] **ATLAS** Collaboration, A. Policicchio, “Search for long-lived neutral particles decaying into lepton-jets with the ATLAS detector in proton-proton collision data at $\sqrt{s} = 13$ TeV”, *PoS ICHEP2016* (2017) 1149. doi:10.22323/1.282.1149.
- [1180] **ATLAS** Collaboration, L. Serkin, “Search for four-top-quark production in final states with one charged lepton and multiple jets using 3.2 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector at the LHC”, *PoS ICHEP2016* (2017) 1148. doi:10.22323/1.282.1148.
- [1181] **ATLAS** Collaboration, A. Lapertosa, “Measurement of c-jet tagging efficiency in ATLAS with $W+c$ -jet events”, *PoS ICHEP2016* (2017) 1140.
doi:10.22323/1.282.1140.
- [1182] **ATLAS** Collaboration, B. Ali, “Associated Higgs Boson Top-Quark Production $ttH \rightarrow 2\ell + 1\tau_{\text{had}}$ at $\sqrt{s} = 13$ TeV with ATLAS”, *PoS ICHEP2016* (2017) 1137.
doi:10.22323/1.282.1137.
- [1183] **ATLAS** Collaboration, P. Saha, “Search for Higgs pair-production in the $bb\tau\tau$ final state with the ATLAS detector”, *PoS ICHEP2016* (2017) 1136.
doi:10.22323/1.282.1136.
- [1184] **ATLAS** Collaboration, R. Nayyar, “Measurement of the Jet Mass Scale and Resolution for Large Radius Jets at $\sqrt{s} = 8$ TeV using the ATLAS Detector”, *PoS ICHEP2016* (2017) 1130. doi:10.22323/1.282.1130.
- [1185] **ATLAS** Collaboration, W. McCormack, “Pixel-cluster counting luminosity measurement in ATLAS”, *PoS ICHEP2016* (2017) 1064.
doi:10.22323/1.282.1064.
- [1186] **ATLAS** Collaboration, G. Stark, R. Camacho Toro, and D. W. Miller, “The Level-1 Calorimeter Global Feature Extractor (gFEX) Boosted Object Trigger for the Phase-I Upgrade of the ATLAS Experiment”, *PoS ICHEP2016* (2017) 1055. doi:10.22323/1.282.1055.

- [1187] **ATLAS** Collaboration, A. Sánchez, “Integration of ROOT NoteBook as an ATLAS analysis web-based tool in outreach and public data release projects”, *PoS ICHEP2016* (2017) 1054. doi:10.22323/1.282.1054.
- [1188] **ATLAS** Collaboration, M. Aaboud et al., “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”, *JHEP* **06** (2018) 107, arXiv:1711.01901. doi:10.1007/JHEP06(2018)107.
- [1189] **ATLAS, CMS** Collaboration, K. Skovpen, “Search for flavour-changing neutral currents with top quarks”, in *Proceedings, 10th International Workshop on Top Quark Physics (TOP2017): Braga, Portugal, September 17-22, 2017*. 2017. arXiv:1711.01852.
- [1190] **ATLAS** Collaboration, “Evidence for the associated production of the Higgs boson and a top quark pair with the ATLAS detector”. ATLAS-CONF-2017-077, 2017.
- [1191] **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”. ATLAS-CONF-2017-076, 2017.
- [1192] **ATLAS** Collaboration, “Measurement of contributions of diffractive processes to forward photon spectra in pp collisions at $\sqrt{s} = 13$ TeV”. ATLAS-CONF-2017-075, 2017.
- [1193] **ATLAS** Collaboration, I. Grabowska-Bold, “Overview of ATLAS results”, *Nucl. Part. Phys. Proc.* **289-290** (2017) 7–12. doi:10.1016/j.nuclphysbps.2017.05.003.
- [1194] **ATLAS** Collaboration, P. Janus, “Light-by-light scattering in ultra-peripheral Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector”, *Nucl. Part. Phys. Proc.* **289-290** (2017) 479–482. doi:10.1016/j.nuclphysbps.2017.05.112.
- [1195] **ATLAS** Collaboration, K. Burka, “Measurement of azimuthal flow of soft and high- p_T charged particles in 5.02 TeV Pb+Pb collisions with the ATLAS detector”, *Nucl. Part. Phys. Proc.* **289-290** (2017) 441–444. doi:10.1016/j.nuclphysbps.2017.05.103.
- [1196] **ATLAS** Collaboration, S. Tapia Araya, “ J/ψ and $\psi(2S)$ production in pp and PbPb collisions at 5.02 TeV with ATLAS”, *Nucl. Part. Phys. Proc.* **289-290** (2017) 393–396. doi:10.1016/j.nuclphysbps.2017.05.091.
- [1197] **ATLAS** Collaboration, P. Balek, “Measurement of the nuclear modification factor for high- p_T charged hadrons in p +Pb collisions with the ATLAS detector”, *Nucl. Part. Phys. Proc.* **289-290** (2017) 281–284, arXiv:1802.02071. doi:10.1016/j.nuclphysbps.2017.05.064.

- [1198] **ATLAS, CMS** Collaboration, A. Ventura, “Searches for supersymmetry”, *Int. J. Mod. Phys. Conf. Ser.* **46** (2018) 1860006, [arXiv:1711.00152](#).
doi:10.1142/S2010194518600066.
- [1199] **ATLAS** Collaboration, M. Aaboud et al., “Search for dark matter produced in association with bottom or top quarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”, *Eur. Phys. J.* **C78** (2018), no. 1, 18, [arXiv:1710.11412](#).
doi:10.1140/epjc/s10052-017-5486-1.
- [1200] **ATLAS** Collaboration, M. Bona, “Study of $b \rightarrow s\ell\ell$ decays at ATLAS”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. [arXiv:1710.11000](#).
- [1201] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Eur. Phys. J.* **C78** (2018), no. 3, 199, [arXiv:1710.09748](#). doi:10.1140/EPJC/S10052-018-5661-Z,
10.1140/epjc/s10052-018-5661-z.
- [1202] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Lett.* **B776** (2018) 295–317, [arXiv:1710.09560](#). doi:10.1016/j.physletb.2017.11.054.
- [1203] **ATLAS** Collaboration, O. Solovyanov, “Performance of the ATLAS hadronic Tile Calorimeter in Run-2 and its upgrade for the High Luminosity LHC”, *EPJ Web Conf.* **158** (2017) 06002. doi:10.1051/epjconf/201715806002.
- [1204] **ATLAS** Collaboration, P. Berta, “Highlights of top quark cross-section measurements at ATLAS”, *EPJ Web Conf.* **158** (2017) 04001.
doi:10.1051/epjconf/201715804001.
- [1205] **ATLAS** Collaboration, A. Maevskiy, “Production and spectroscopy in heavy flavour”, *EPJ Web Conf.* **158** (2017) 03006.
doi:10.1051/epjconf/201715803006.
- [1206] **ATLAS** Collaboration, A. Ryzhov, “ATLAS searches for resonances decaying to boson pairs”, *EPJ Web Conf.* **158** (2017) 02003.
doi:10.1051/epjconf/201715802003.
- [1207] **ATLAS** Collaboration, O. Ricken, “Searches for squarks and gluinos with ATLAS”, *EPJ Web Conf.* **158** (2017) 02002.
doi:10.1051/epjconf/201715802002.
- [1208] **ATLAS** Collaboration, S. Turchikhin, “Searches for new physics with heavy flavour at ATLAS”, *EPJ Web Conf.* **158** (2017) 02001.
doi:10.1051/epjconf/201715802001.

- [1209] **ATLAS** Collaboration, A. Elliot, “Dark matter searches with the ATLAS detector”, *EPJ Web Conf.* **158** (2017) 01007.
doi:10.1051/epjconf/201715801007.
- [1210] **ATLAS, CMS** Collaboration, R. Tenchini, “Top physics at the LHC”, *EPJ Web Conf.* **158** (2017) 01002. doi:10.1051/epjconf/201715801002.
- [1211] **ATLAS** Collaboration, S. Spagnolo, “Production of electroweak bosons in association with jets with the ATLAS detector”, in *25th Low-x Meeting (Low-x 2017) Bari, Italy, June 13-17, 2017*. 2017. arXiv:1710.08857.
- [1212] **ATLAS** Collaboration, M. Aaboud et al., “Search for WW/WZ resonance production in $lvqq$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **03** (2018) 042, arXiv:1710.07235.
doi:10.1007/JHEP03(2018)042.
- [1213] **ATLAS** Collaboration, M. Aaboud et al., “A search for pair-produced resonances in four-jet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C78** (2018), no. 3, 250, arXiv:1710.07171.
doi:10.1140/epjc/s10052-018-5693-4.
- [1214] **ATLAS, CMS** Collaboration, J. Piedra, “New results on Higgs boson properties”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1710.07081.
- [1215] **ATLAS** Collaboration, T. Barillari, “Top-quark mass and top-quark pole mass measurements with the ATLAS detector”, 2017. arXiv:1710.06019.
- [1216] **ALICE, ATLAS, CMS, LHCb, TOTEM** Collaboration, S. Todorova-Nova, “Soft QCD”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1710.05681.
- [1217] **ATLAS** Collaboration, J. Sjölin, “Top pair production in association with a vector gauge boson in ATLAS”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1710.05618.
- [1218] **ATLAS** Collaboration, M. Aaboud et al., “Search for B-L R -parity-violating top squarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS experiment”, *Phys. Rev.* **D97** (2018), no. 3, 032003, arXiv:1710.05544.
doi:10.1103/PhysRevD.97.032003.
- [1219] **ATLAS, CMS, LHCb** Collaboration, K.-F. Chen, “Rare Decays”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1710.05418.
- [1220] **ATLAS** Collaboration, K. Becker, “Higgs boson measurements in the WW^* , $\tau\tau$, and $\mu\mu$ channels with the ATLAS Experiment”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1710.05343.

- [1221] **ATLAS, CMS** Collaboration, C. Seitz, “Searches for strong production of supersymmetry at ATLAS and CMS”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1710.05327.
- [1222] **ATLAS** Collaboration, Z. Liang, “Search for the Standard Model Higgs boson decaying to b-quark pairs with the ATLAS detector at the LHC”, 2017. arXiv:1710.05186.
- [1223] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the Drell-Yan triple-differential cross section in pp collisions at $\sqrt{s} = 8$ TeV”, *JHEP* **12** (2017) 059, arXiv:1710.05167. doi:10.1007/JHEP12(2017)059.
- [1224] **LIGO Scientific, Virgo, Fermi GBM, INTEGRAL, IceCube, AstroSat Cadmium Zinc Telluride Imager Team, IPN, Insight-Hxmt, ANTARES, Swift, AGILE Team, 1M2H Team, Dark Energy Camera GW-EM, DES, DLT40, GRAWITA, Fermi-LAT, ATCA, ASKAP, Las Cumbres Observatory Group, OzGrav, DWF (Deeper Wider Faster Program), AST3, CAASTRO, VINROUGE, MASTER, J-GEM, GROWTH, JAGWAR, CaltechNRAO, TTU-NRAO, NuSTAR, Pan-STARRS, MAXI Team, TZAC Consortium, KU, Nordic Optical Telescope, ePESSTO, GROND, Texas Tech University, SALT Group, TOROS, BOOTES, MWA, CALET, IKI-GW Follow-up, H.E.S.S., LOFAR, LWA, HAWC, Pierre Auger, ALMA, Euro VLBI Team, Pi of Sky, Chandra Team at McGill University, DFN, ATLAS Telescopes, High Time Resolution Universe Survey, RIMAS, RATIR, SKA South Africa/MeerKAT** Collaboration, B. P. Abbott et al., “Multi-messenger Observations of a Binary Neutron Star Merger”, *Astrophys. J.* **848** (2017), no. 2, L12, arXiv:1710.05833. doi:10.3847/2041-8213/aa91c9.
- [1225] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Rev.* **D97** (2018), no. 5, 052012, arXiv:1710.04901. doi:10.1103/PhysRevD.97.052012.
- [1226] **ATLAS** Collaboration, “Measurement of the fragmentation function for photon-tagged jets in $\sqrt{s_{NN}} = 5.02$ TeV Pb+Pb and pp collisions with the ATLAS detector”. ATLAS-CONF-2017-074, 2017.
- [1227] **ATLAS** Collaboration, “ D meson production and long-range azimuthal correlation in 8.16 TeV p +Pb collisions with ATLAS”. ATLAS-CONF-2017-073, 2017.
- [1228] **ATLAS** Collaboration, “Prompt photon production in $\sqrt{s_{NN}} = 8.16$ TeV p +Pb collisions with ATLAS”. ATLAS-CONF-2017-072, 2017.
- [1229] **ATLAS** Collaboration, “Measurement of the top quark mass in the $t\bar{t} \rightarrow$ lepton+jets channel from $\sqrt{s}=8$ TeV ATLAS data”. ATLAS-CONF-2017-071, 2017.

- [1230] **ATLAS** Collaboration, “Search for flavour-changing neutral current top quark decays $t \rightarrow qZ$ in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector”. ATLAS-CONF-2017-070, 2017.
- [1231] **ATLAS** Collaboration, “Measurement of colour flow using jet-pull observables in $t\bar{t}$ events with the ATLAS experiment at $\sqrt{s} = 13$ TeV”. ATLAS-CONF-2017-069, 2017.
- [1232] **ATLAS** Collaboration, “Measurement of long-range azimuthal correlations in Z-boson tagged pp collisions at $\sqrt{s} = 8$ TeV”. ATLAS-CONF-2017-068, 2017.
- [1233] **ATLAS, CMS** Collaboration, P. K. Mal, “Top Quark Decay Properties”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1710.04277.
- [1234] **ATLAS** Collaboration, B. Nachman, “Modeling Radiation Damage to Pixel Sensors in the ATLAS Detector”, in *Proceedings, Meeting of the APS Division of Particles and Fields (DPF 2017): Fermilab, Batavia, Illinois, USA, July 31 - August 4, 2017*. 2017. arXiv:1710.03916.
- [1235] **ATLAS Trigger** Collaboration, G. Jerezek, G. Lehmann Miotto, D. Malone et al., “A Lossless Network for Data Acquisition”, *IEEE Trans. Nucl. Sci.* **64** (2017), no. 6, 1238–1247. doi:10.1109/TNS.2017.2682182.
- [1236] **ATLAS Muon** Collaboration, M. Vanadia, “Study of the performance of the Micromegas chambers for the ATLAS Muon Spectrometer upgrade”, *IEEE Trans. Nucl. Sci.* **64** (2017), no. 2, 867–873. doi:10.1109/TNS.2017.2649880.
- [1237] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Lett.* **B780** (2018) 557–577, arXiv:1710.03659. doi:10.1016/j.physletb.2018.03.023.
- [1238] **ATLAS** Collaboration, N. De Groot, “Latest Higgs Physics results from the ATLAS experiment”, *PoS CORFU2016* (2017) 046. doi:10.22323/1.292.0046.
- [1239] **ATLAS** Collaboration, P. Huo, “Measurement of longitudinal flow correlations in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV with the ATLAS detector”, *Nucl. Phys.* **A967** (2017) 908–911. doi:10.1016/j.nuclphysa.2017.05.102.
- [1240] **ATLAS** Collaboration, M. Aaboud et al., “Search for heavy resonances decaying into WW in the $e\nu\mu\nu$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C78** (2018), no. 1, 24, arXiv:1710.01123. doi:10.1140/epjc/s10052-017-5491-4.
- [1241] **ATLAS** Collaboration, J. Jia, “Heavy ion results from ATLAS”, *Nucl. Phys.* **A967** (2017) 51–58. doi:10.1016/j.nuclphysa.2017.05.076.

- [1242] **ATLAS** Collaboration, M. Zhou, “Measurement of multi-particle azimuthal correlations with the subevent cumulant method in pp and p + Pb collisions with the ATLAS detector”, *Nucl. Phys.* **A967** (2017) 472–475. doi:10.1016/j.nuclphysa.2017.04.019.
- [1243] **ATLAS** Collaboration, A. Angerami, “Measurements of photo-nuclear jet production in Pb + Pb collisions with ATLAS”, *Nucl. Phys.* **A967** (2017) 277–280. doi:10.1016/j.nuclphysa.2017.06.041.
- [1244] **ATLAS** Collaboration, A. Trzupek, “Two- and multi-particle azimuthal correlations in small collision systems with the ATLAS detector”, *Nucl. Phys.* **A967** (2017) 349–352. doi:10.1016/j.nuclphysa.2017.05.019.
- [1245] **ATLAS** Collaboration, J. A. López López, “Measurement of charmonium production in heavy-ion collisions with the ATLAS detector”, *Nucl. Phys.* **A967** (2017) 584–587. doi:10.1016/j.nuclphysa.2017.05.085.
- [1246] **ATLAS** Collaboration, P. Steinberg, “Photon-jet correlations in $\sqrt{SN\bar{N}}=5.02$ TeV *pp* and Pb + Pb collisions with ATLAS at the LHC”, *Nucl. Phys.* **A967** (2017) 532–535. doi:10.1016/j.nuclphysa.2017.06.012.
- [1247] **ATLAS** Collaboration, Z. Citron, “Z boson production in 5.02 TeV *pp*, p + Pb and Pb + Pb collisions with ATLAS”, *Nucl. Phys.* **A967** (2017) 305–308. doi:10.1016/j.nuclphysa.2017.05.070.
- [1248] **ATLAS** Collaboration, M. Clark, “Femtoscopy in $\sqrt{s_{NN}}=5.02$ TeV p+Pb collisions with ATLAS”, *Nucl. Phys.* **A967** (2017) 365–368. doi:10.1016/j.nuclphysa.2017.06.020.
- [1249] **ATLAS** Collaboration, M. Dyndal, “Electromagnetic processes in ultra-peripheral Pb+Pb collisions with ATLAS”, *Nucl. Phys.* **A967** (2017) 281–284. doi:10.1016/j.nuclphysa.2017.04.043.
- [1250] **ATLAS** Collaboration, M. Spousta, “Inclusive jets and jet substructure in 2.76 TeV and 5.02 TeV *pp* and Pb+Pb collisions with the ATLAS detector”, *Nucl. Phys.* **A967** (2017) 524–527. doi:10.1016/j.nuclphysa.2017.04.004.
- [1251] **ATLAS** Collaboration, R. Slovak, “Jet fragmentation in *pp*, p+Pb and Pb+Pb collisions in the ATLAS detector”, *Nucl. Phys.* **A967** (2017) 504–507. doi:10.1016/j.nuclphysa.2017.06.027.
- [1252] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Eur. Phys. J.* **C78** (2018), no. 2, 102, arXiv:1709.10440. doi:10.1140/epjc/s10052-018-5553-2.
- [1253] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Lett.* **B775** (2017) 206–228, arXiv:1709.10264. doi:10.1016/j.physletb.2017.10.040.

- [1254] **ATLAS** Collaboration, R. Nisius, “Measurements of the top quark mass with the ATLAS detector”, *PoS EPS-HEP2017* (2017) 453, arXiv:1709.09845. doi:10.22323/1.314.0453.
- [1255] **ATLAS** Collaboration, C. Bernius, “The ATLAS Trigger Algorithms Upgrade and Performance in Run-2”, in *Proceedings, Meeting of the APS Division of Particles and Fields (DPF 2017): Fermilab, Batavia, Illinois, USA, July 31 - August 4, 2017*. 2017. arXiv:1709.09427.
- [1256] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Eur. Phys. J. C* **77** (2017), no. 11, 804, arXiv:1709.09407. doi:10.1140/epjc/s10052-017-5349-9.
- [1257] **ATLAS, CMS** Collaboration, L. Morvaj, “Searches for new resonances decaying to W, Z and H bosons with the ATLAS and CMS detectors in 13 TeV proton-proton collisions at the LHC”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1709.08905.
- [1258] **ATLAS** Collaboration, “Measurement of W boson production in the muon channel in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”. ATLAS-CONF-2017-067, 2017.
- [1259] **ATLAS** Collaboration, “Measurement of four-particle azimuthal cumulants in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector”. ATLAS-CONF-2017-066, 2017.
- [1260] **ATLAS** Collaboration, M. Aaboud et al., “ $ZZ \rightarrow \ell^+ \ell^- \ell'^+ \ell'^-$ cross-section measurements and search for anomalous triple gauge couplings in 13 TeV pp collisions with the ATLAS detector”, *Phys. Rev. D* **97** (2018), no. 3, 032005, arXiv:1709.07703. doi:10.1103/PhysRevD.97.032005.
- [1261] **ATLAS** Collaboration, M. Aaboud et al., “Study of ordered hadron chains with the ATLAS detector”, *Phys. Rev. D* **96** (2017), no. 9, 092008, arXiv:1709.07384. doi:10.1103/PhysRevD.96.092008.
- [1262] **ATLAS** Collaboration, M. Aaboud et al., “Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **01** (2018) 055, arXiv:1709.07242. doi:10.1007/JHEP01(2018)055.
- [1263] **ATLAS** Collaboration, M. Aaboud et al., “A search for resonances decaying into a Higgs boson and a new particle X in the $XH \rightarrow qqbb$ final state with the ATLAS detector”, *Phys. Lett. B* **779** (2018) 24–45, arXiv:1709.06783. doi:10.1016/j.physletb.2018.01.042.
- [1264] **ATLAS, CMS** Collaboration, F. Pandolfi, “Searches for New Heavy Resonances in Final States with Leptons and Photons in ATLAS and CMS”, 2017. arXiv:1709.06119.

- [1265] **ATLAS, CMS** Collaboration, M. Aaboud et al., “Combination of inclusive and differential $t\bar{t}$ charge asymmetry measurements using ATLAS and CMS data at $\sqrt{s} = 7$ and 8 TeV”, *JHEP* **04** (2018) 033, arXiv:1709.05327. doi:10.1007/JHEP04(2018)033.
- [1266] **ATLAS, CMS** Collaboration, M. Bauce, “Search for new physics in dijet final states in ATLAS and CMS”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1709.04754.
- [1267] **ATLAS Liquid Argon Calorimeter Group** Collaboration, B. Dinkespiler, “Trigger readout electronics upgrade for the ATLAS Liquid Argon Calorimeters”, *JINST* **12** (2017), no. 09, C09011. doi:10.1088/1748-0221/12/09/C09011.
- [1268] **ATLAS** Collaboration, L. Serkin, “Search for the SM Higgs boson produced in association with top quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector at the LHC”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1709.04381.
- [1269] **ATLAS** Collaboration, M. Aaboud et al., “Direct top-quark decay width measurement in the $t\bar{t}$ lepton+jets channel at $\sqrt{s}=8$ TeV with the ATLAS experiment”, *Eur. Phys. J.* **C78** (2018), no. 2, 129, arXiv:1709.04207. doi:10.1140/epjc/s10052-018-5595-5.
- [1270] **ATLAS** Collaboration, M. Aaboud et al., “Search for a scalar partner of the top quark in the jets plus missing transverse momentum final state at $\sqrt{s}=13$ TeV with the ATLAS detector”, *JHEP* **12** (2017) 085, arXiv:1709.04183. doi:10.1007/JHEP12(2017)085.
- [1271] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of τ polarisation in $Z/\gamma^* \rightarrow \tau\tau$ decays in proton–proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C78** (2018), no. 2, 163, arXiv:1709.03490. doi:10.1140/epjc/s10052-018-5619-1.
- [1272] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of quarkonium production in proton–lead and proton–proton collisions at 5.02 TeV with the ATLAS detector”, *Eur. Phys. J.* **C78** (2018), no. 3, 171, arXiv:1709.03089. doi:10.1140/epjc/s10052-018-5624-4.
- [1273] **ATLAS** Collaboration, B. Nachman, “Jet and photon measurements with ATLAS”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1709.02889.
- [1274] **ATLAS, CMS** Collaboration, C. Escobar, “SM and BSM physics in single top quark at the LHC”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1709.02749.
- [1275] **ATLAS, CMS** Collaboration, A. A. J. Lesage, “Lepton and photon performance at ATLAS and CMS”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1709.02598.

- [1276] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV with the ATLAS detector”, *Eur. Phys. J.* **C78** (2018), no. 2, 142, arXiv:1709.02301. doi:10.1140/epjc/s10052-018-5605-7.
- [1277] **ATLAS** Collaboration, A. A. Solodkov, “Electroweak diboson production at ATLAS”, *Phys. Part. Nucl.* **48** (2017), no. 5, 804–806. doi:10.1134/S1063779617050379.
- [1278] **ATLAS, CMS** Collaboration, M. Flechl, “Identification and energy calibration of hadronic tau lepton decays at the LHC”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1709.01351.
- [1279] **ATLAS, CMS** Collaboration, L. Scodellaro, “b tagging in ATLAS and CMS”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1709.01290.
- [1280] **ATLAS** Collaboration, K. Yoshihara, “Search for supersymmetric partners of third generation quarks in leptonic channels with the ATLAS detector”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1709.01053.
- [1281] **ATLAS, CMS** Collaboration, N. Faltermann, “Single top t-channel in ATLAS and CMS”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1709.00841.
- [1282] **ATLAS** Collaboration, F. Giuli, “Performance of Monte Carlo Event Generators for the Production of Boson and Multi-Boson States ATLAS Analysis”, *PoS EPS-HEP2017* (2017) 737, arXiv:1709.00492. doi:10.22323/1.314.0737.
- [1283] **ATLAS, CMS, LHCb** Collaboration, F. Dordei, “CP violation in beauty and charm”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1709.00383.
- [1284] **ATLAS** Collaboration, S. Li, “Monte Carlo modeling of Standard Model multi-boson production processes for $\sqrt{s} = 13$ TeV ATLAS analyses”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1709.00315.
- [1285] **CMS, ATLAS** Collaboration, F. Romeo, “Searches for new physics in lepton plus jet final states in ATLAS and CMS”, in *2017 International Workshop on Baryon and Lepton Number Violation: From the Cosmos to the LHC (BLV 2017) Cleveland, Ohio, USA, May 15-18, 2017*. 2017. arXiv:1709.00229.
- [1286] **ATLAS** Collaboration, S. Li, “Studies of $Z\gamma$ electroweak production in association with a high-mass di-jet system in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1709.00089.

- [1287] **ATLAS, LHCb, CMS** Collaboration, A. Savin, “Electroweak measurements at the LHC”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. [arXiv:1708.09806](#).
- [1288] **ATLAS** Collaboration, C. Debenedetti, “Single boson production and differential cross section measurements in ATLAS”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. [arXiv:1708.09792](#).
- [1289] **ATLAS** Collaboration, C. Alpigiani, “Searches for Dark Matter in ATLAS”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. [arXiv:1708.09674](#).
- [1290] **ATLAS** Collaboration, M. Aaboud et al., “Searches for heavy ZZ and ZW resonances in the $llqq$ and $\nu\nu qq$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **03** (2018) 009, [arXiv:1708.09638](#).
[doi:10.1007/JHEP03\(2018\)009](#).
- [1291] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Lett.* **B776** (2018) 318–337, [arXiv:1708.09624](#). [doi:10.1016/j.physletb.2017.11.049](#).
- [1292] **ATLAS** Collaboration, M. Aaboud et al., “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”, *JHEP* **11** (2017) 195, [arXiv:1708.09266](#).
[doi:10.1007/JHEP11\(2017\)195](#).
- [1293] **ATLAS, CMS** Collaboration, M. Romano, “Boosted top production in ATLAS and CMS”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. [arXiv:1708.08264](#).
- [1294] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Rev.* **D96** (2017), no. 11, 112010, [arXiv:1708.08232](#). [doi:10.1103/PhysRevD.96.112010](#).
- [1295] **ATLAS** Collaboration, M. Aaboud et al., “Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”, *Eur. Phys. J.* **C78** (2018), no. 2, 154, [arXiv:1708.07875](#). [doi:10.1140/epjc/s10052-018-5583-9](#).
- [1296] **ATLAS** Collaboration, “Constituent-level pile-up mitigation techniques in ATLAS”. ATLAS-CONF-2017-065, 2017.
- [1297] **ATLAS** Collaboration, “Performance of Top Quark and W Boson Tagging in Run 2 with ATLAS”. ATLAS-CONF-2017-064, 2017.

- [1298] **ATLAS** Collaboration, J. I. Djuvsland, “Studying $WW\gamma$ and $WZ\gamma$ production in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS experiment”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1708.07667.
- [1299] **ATLAS** Collaboration, D. Salvatore, “Search for long-lived neutral particles decaying into Lepton-Jets with the ATLAS detector in proton-proton collision data at 13 TeV”, arXiv:1708.07625.
- [1300] **ATLAS, CMS** Collaboration, S. Mukherjee, “High mass searches in CMS and ATLAS”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1708.07318.
- [1301] **ATLAS, CMS** Collaboration, K. Finelli, “Single top-quark production via tW , tZq , and s -channel with ATLAS and CMS”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*. 2017. arXiv:1708.06610.
- [1302] **ATLAS** Collaboration, E. Yatsenko, “Di- and multiboson measurements in ATLAS”, arXiv:1708.06534.
- [1303] **ATLAS** Collaboration, M. Aaboud et al., “Search for diboson resonances with boson-tagged jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett.* **B777** (2018) 91–113, arXiv:1708.04445. doi:10.1016/j.physletb.2017.12.011.
- [1304] **ATLAS** Collaboration, M. Mårtensson, “The design and simulated performance of a fast Level 1 track trigger for the ATLAS High Luminosity Upgrade”, *EPJ Web Conf.* **150** (2017) 00008. doi:10.1051/epjconf/201715000008.
- [1305] **ATLAS** Collaboration, L. M. Mir Martinez, “Search for a charged Higgs boson decaying to a top and a bottom quarks in ATLAS”, *PoS CHARGED2016* (2017) 009. doi:10.22323/1.286.0009.
- [1306] **ATLAS** Collaboration, L. Zhang, “Neutral BSM Higgs searches in ATLAS”, *PoS CHARGED2016* (2017) 004. doi:10.22323/1.286.0004.
- [1307] **ATLAS, CMS** Collaboration, J. Elmsheuser, “Standard Model Higgs Results from ATLAS and CMS”, *PoS CHARGED2016* (2017) 002. doi:10.22323/1.286.0002.
- [1308] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the exclusive $\gamma\gamma \rightarrow \mu^+\mu^-$ process in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett.* **B777** (2018) 303–323, arXiv:1708.04053. doi:10.1016/j.physletb.2017.12.043.
- [1309] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of long-range multiparticle azimuthal correlations with the subevent cumulant method in pp and $p + Pb$ collisions with the ATLAS detector at the CERN Large Hadron

- Collider”, *Phys. Rev.* **C97** (2018), no. 2, 024904, arXiv:1708.03559.
doi:10.1103/PhysRevC.97.024904.
- [1310] **ATLAS** Collaboration, M. Aaboud et al., “Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector”, *JHEP* **12** (2017) 024, arXiv:1708.03299.
doi:10.1007/JHEP12(2017)024.
- [1311] **ATLAS** Collaboration, M. Aaboud et al., “Search for direct top squark pair production in final states with two leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”, *Eur. Phys. J.* **C77** (2017), no. 12, 898, arXiv:1708.03247.
doi:10.1140/epjc/s10052-017-5445-x.
- [1312] **ATLAS** Collaboration, M. Martensson, “Fast pattern recognition of ATLAS L1 track trigger for HL-LHC”, *PoS Vertex2016* (2017) 069.
doi:10.22323/1.287.0069.
- [1313] **ATLAS** Collaboration, K. J. R. Cormier, “The ATLAS tracker strip detector for HL-LHC”, *PoS Vertex2016* (2017) 020. doi:10.22323/1.287.0020.
- [1314] **ATLAS** Collaboration, C. Gemme, “The ATLAS tracker pixel detector for HL-LHC”, *PoS Vertex2016* (2017) 019. doi:10.22323/1.287.0019.
- [1315] **ATLAS** Collaboration, D. Robinson, “ATLAS Tracker and Pixel Operational Experience”, *PoS Vertex2016* (2017) 005. doi:10.22323/1.287.0005.
- [1316] **ATLAS** Collaboration, Y. Takubo, “ATLAS IBL operational experience”, *PoS Vertex2016* (2017) 004. doi:10.22323/1.287.0004.
- [1317] **ATLAS** Collaboration, J. K. Behr, “Searches for Exotic Physics in ATLAS using Substructure Techniques”, *J. Phys. Conf. Ser.* **878** (2017), no. 1, 012007.
doi:10.1088/1742-6596/878/1/012007.
- [1318] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **10** (2017) 132,
arXiv:1708.02810. doi:10.1007/JHEP10(2017)132.
- [1319] **ATLAS** Collaboration, M. Aaboud et al., “Search for new phenomena with large jet multiplicities and missing transverse momentum using large-radius jets and flavour-tagging at ATLAS in 13 TeV pp collisions”, *JHEP* **12** (2017) 034,
arXiv:1708.02794. doi:10.1007/JHEP12(2017)034.
- [1320] **ATLAS Tile Calorimeter System** Collaboration, A. Solodkov, “Upgrade of the ATLAS hadronic Tile Calorimeter for the High luminosity LHC”, *JINST* **12** (2017), no. 08, C08004. doi:10.1088/1748-0221/12/08/C08004.
- [1321] **ATLAS** Collaboration, M. Aaboud et al., “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”, *JHEP* **11** (2017) 191, arXiv:1708.00727.
doi:10.1007/JHEP11(2017)191.

- [1322] **ATLAS** Collaboration, “Technical Design Report for the ATLAS Inner Tracker Strip Detector”,.
- [1323] **ATLAS** Collaboration, M. Aaboud et al., “Searches for the $Z\gamma$ decay mode of the Higgs boson and for new high-mass resonances in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **10** (2017) 112, [arXiv:1708.00212](#).
doi:10.1007/JHEP10(2017)112.
- [1324] **ATLAS** Collaboration, A. Calandri, “Review of Standard Model Higgs results at the ATLAS experiment”, *J. Phys. Conf. Ser.* **873** (2017), no. 1, 012003.
doi:10.1088/1742-6596/873/1/012003.
- [1325] **ATLAS** Collaboration, “In-situ measurements of the ATLAS large-radius jet response in 13 TeV pp collisions”. ATLAS-CONF-2017-063, 2017.
- [1326] **ATLAS** Collaboration, “Jet reclustering and close-by effects in ATLAS run II”. ATLAS-CONF-2017-062, 2017.
- [1327] **ATLAS** Collaboration, M. Aaboud et al., “Search for heavy resonances decaying to a W or Z boson and a Higgs boson in the $q\bar{q}^{(\prime)}b\bar{b}$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett.* **B774** (2017) 494–515, [arXiv:1707.06958](#). doi:10.1016/j.physletb.2017.09.066.
- [1328] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Rev. Lett.* **119** (2017), no. 19, 191803, [arXiv:1707.06025](#).
doi:10.1103/PhysRevLett.119.191803.
- [1329] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Eur. Phys. J.* **C77** (2017), no. 9, 646, [arXiv:1707.05597](#). doi:10.1140/epjc/s10052-017-5180-3.
- [1330] **ATLAS** Collaboration, M. Aaboud et al., “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”, *JHEP* **12** (2017) 017, [arXiv:1707.05393](#). doi:10.1007/JHEP12(2017)017.
- [1331] **ATLAS** Collaboration, S. Terzo, “The Phase-II ATLAS ITk pixel upgrade”, *JINST* **12** (2017), no. 07, C07023. doi:10.1088/1748-0221/12/07/C07023.
- [1332] **ATLAS** Collaboration, G. Brooijmans, “Development of ATLAS Liquid Argon Calorimeter readout electronics for the HL-LHC”, *JINST* **12** (2017), no. 07, C07018. doi:10.1088/1748-0221/12/07/C07018.
- [1333] **ATLAS** Collaboration, R. Bielski, “Differential $t\bar{t}$ cross-section measurements in the lepton+jets channel at $\sqrt{s} = 13$ TeV using the ATLAS detector”, *Acta Phys. Polon.* **B48** (2017) 921–926. doi:10.5506/APhysPo1B.48.921.

- [1334] **ATLAS** Collaboration, “The ATLAS Tau Trigger in Run 2”. ATLAS-CONF-2017-061, 2017.
- [1335] **ATLAS** Collaboration, M. Aaboud et al., “Search for new phenomena in high-mass diphoton final states using 37 fb^{-1} of proton–proton collisions collected at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, *Phys. Lett.* **B775** (2017) 105–125, arXiv:1707.04147. doi:10.1016/j.physletb.2017.10.039.
- [1336] **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”. ATLAS-CONF-2017-060, 2017.
- [1337] **ATLAS** Collaboration, “Measurement of the cross section for isolated-photon plus jet production in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ using the ATLAS detector”. ATLAS-CONF-2017-059, 2017.
- [1338] **ATLAS** Collaboration, “Search for heavy ZZ resonances in the $\ell^+\ell^-\ell^+\ell^-$ and $\ell^+\ell^-\nu\bar{\nu}$ final states using proton–proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”. ATLAS-CONF-2017-058, 2017.
- [1339] **ATLAS** Collaboration, “Search for exclusive Higgs and Z boson decays to $\phi\gamma$ and $\rho\gamma$ with the ATLAS Detector”. ATLAS-CONF-2017-057, 2017.
- [1340] **ATLAS** Collaboration, “Direct top-quark decay width measurement in the $t\bar{t}$ lepton+jets channel at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS experiment”. ATLAS-CONF-2017-056, 2017.
- [1341] **ATLAS** Collaboration, “Search for heavy resonances decaying to a W or Z boson and a Higgs boson in final states with leptons and b -jets in 36.1 fb^{-1} of pp collision data at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”. ATLAS-CONF-2017-055, 2017.
- [1342] **ATLAS** Collaboration, “Measurement of the inclusive $t\bar{t}$ cross-section in the lepton+jets channel in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector”. ATLAS-CONF-2017-054, 2017.
- [1343] **ATLAS** Collaboration, “Search for doubly-charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ ”. ATLAS-CONF-2017-053, 2017.
- [1344] **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”. ATLAS-CONF-2017-052, 2017.
- [1345] **ATLAS** Collaboration, “Search for WW/WZ resonance production in $\ell\nu qq$ final states in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”. ATLAS-CONF-2017-051, 2017.
- [1346] **ATLAS** Collaboration, “Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36.1 fb^{-1} of pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”. ATLAS-CONF-2017-050, 2017.

- [1347] **ATLAS** Collaboration, “Measurement of Tau Polarisation in $Z/\gamma^* \rightarrow \tau\tau$ Decays in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector”. ATLAS-CONF-2017-049, 2017.
- [1348] **ATLAS** Collaboration, “Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2017-048, 2017.
- [1349] **ATLAS** Collaboration, “Combined measurements of Higgs boson production and decay in the $H \rightarrow ZZ^* \rightarrow 4\ell$ and $H \rightarrow \gamma\gamma$ channels using $\sqrt{s} = 13$ TeV pp collision data collected with the ATLAS experiment”. ATLAS-CONF-2017-047, 2017.
- [1350] **ATLAS** Collaboration, “Measurement of the Higgs boson mass in the $H \rightarrow ZZ^* \rightarrow 4\ell$ and $H \rightarrow \gamma\gamma$ channels with $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector”. ATLAS-CONF-2017-046, 2017.
- [1351] **ATLAS** Collaboration, “Measurements of Higgs boson properties in the diphoton decay channel with 36.1 fb^{-1} pp collision data at the center-of-mass energy of 13 TeV with the ATLAS detector”. ATLAS-CONF-2017-045, 2017.
- [1352] **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”. ATLAS-CONF-2017-044, 2017.
- [1353] **ATLAS** Collaboration, “Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2017-043, 2017.
- [1354] **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”. ATLAS-CONF-2017-042, 2017.
- [1355] **ATLAS** Collaboration, “Evidence for the $H \rightarrow b\bar{b}$ decay with the ATLAS detector”. ATLAS-CONF-2017-041, 2017.
- [1356] **ATLAS** Collaboration, M. Aaboud et al., “Search for pair production of heavy vector-like quarks decaying to high- p_T W bosons and b quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **10** (2017) 141, [arXiv:1707.03347](https://arxiv.org/abs/1707.03347).
doi:10.1007/JHEP10(2017)141.
- [1357] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Eur. Phys. J.* **C77** (2017), no. 11, 765, [arXiv:1707.03263](https://arxiv.org/abs/1707.03263).
doi:10.1140/epjc/s10052-017-5315-6.

- [1358] **ATLAS** Collaboration, M. Aaboud et al., “Study of the material of the ATLAS inner detector for Run 2 of the LHC”, *JINST* **12** (2017), no. 12, P12009, arXiv:1707.02826. doi:10.1088/1748-0221/12/12/P12009.
- [1359] **ATLAS** Collaboration, M. Aaboud et al., “Determination of the strong coupling constant α_s from transverse energy–energy correlations in multijet events at $\sqrt{s} = 8$ TeV using the ATLAS detector”, *Eur. Phys. J.* **C77** (2017), no. 12, 872, arXiv:1707.02562. doi:10.1140/epjc/s10052-017-5442-0.
- [1360] **ATLAS** Collaboration, M. Aaboud et al., “Search for new high-mass phenomena in the dilepton final state using 36 fb^{-1} of proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **10** (2017) 182, arXiv:1707.02424. doi:10.1007/JHEP10(2017)182.
- [1361] **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”. ATLAS-CONF-2017-040, 2017.
- [1362] **ATLAS** Collaboration, M. Aaboud et al., “Search for top quark decays $t \rightarrow qH$, with $H \rightarrow \gamma\gamma$, in $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector”, *JHEP* **10** (2017) 129, arXiv:1707.01404. doi:10.1007/JHEP10(2017)129.
- [1363] **ATLAS** Collaboration, M. Aaboud et al., “Search for Dark Matter Produced in Association with a Higgs Boson Decaying to $b\bar{b}$ using 36 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector”, *Phys. Rev. Lett.* **119** (2017), no. 18, 181804, arXiv:1707.01302. doi:10.1103/PhysRevLett.119.181804.
- [1364] **ATLAS** Collaboration, A. Hrynevich, “ATLAS jet and missing energy reconstruction, calibration and performance in LHC Run-2”, *JINST* **12** (2017), no. 06, C06038. doi:10.1088/1748-0221/12/06/C06038.
- [1365] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of jet p_T correlations in Pb+Pb and pp collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV with the ATLAS detector”, *Phys. Lett.* **B774** (2017) 379–402, arXiv:1706.09363. doi:10.1016/j.physletb.2017.09.078.
- [1366] **ATLAS** Collaboration, J. Pinfold, “ATLAS and ultra high energy cosmic ray physics”, *EPJ Web Conf.* **145** (2017) 10001. doi:10.1051/epjconf/201614510001.
- [1367] **ATLAS** Collaboration, C. F. Galea, “Tau Lepton Reconstruction in ATLAS”, *Nucl. Part. Phys. Proc.* **287-288** (2017) 111–114. doi:10.1016/j.nuclphysbps.2017.03.056.
- [1368] **ATLAS, CMS, LHCb** Collaboration, K. De Bruyn, “Lepton Flavour Violation in Tau Decays: Results and Prospects at the LHC”, *Nucl. Part. Phys. Proc.* **287-288** (2017) 164–167. doi:10.1016/j.nuclphysbps.2017.03.068.

- [1369] **ATLAS** Collaboration, A. Hrynevich, “Performance of the ATLAS Tile Calorimeter”, *JINST* **12** (2017), no. 06, C06021. doi:10.1088/1748-0221/12/06/C06021.
- [1370] **ATLAS, CMS, CDF** Collaboration, P. Das, “New physics searches in the top quark sector in hadron colliders”, *PoS CKM2016* (2017) 129. doi:10.22323/1.291.0129.
- [1371] **ATLAS, CMS** Collaboration, S. Bhowmik, “Flavor Changing Neutral Current searches in the top quark sector”, *PoS CKM2016* (2017) 126. doi:10.22323/1.291.0126.
- [1372] **ATLAS, CMS** Collaboration, S. Mitra, “Single top and V_{tb} measurements”, *PoS CKM2016* (2017) 119. doi:10.22323/1.291.0119.
- [1373] **ATLAS, CMS** Collaboration, A. K. Nayak, “Recent inclusive $t\bar{t}$ cross section measurements”, *PoS CKM2016* (2017) 117. doi:10.22323/1.291.0117.
- [1374] **ATLAS** Collaboration, P. Reznicek, “Latest ATLAS results on ϕ_s ”, *PoS CKM2016* (2017) 083. doi:10.22323/1.291.0083.
- [1375] **ATLAS, CMS** Collaboration, J. Komaragiri, “CKM physics with top”, *PoS CKM2016* (2017) 007. doi:10.22323/1.291.0007.
- [1376] **ATLAS** Collaboration, M. Aaboud et al., “Search for a new heavy gauge boson resonance decaying into a lepton and missing transverse momentum in 36 fb⁻¹ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment”, *Eur. Phys. J.* **C78** (2018), no. 5, 401, arXiv:1706.04786. doi:10.1140/epjc/s10052-018-5877-y.
- [1377] **ATLAS** Collaboration, Y. Smirnov, “Search for Exotic Physics Beyond the Standard Model With the ATLAS Detector”, in *Proceedings, 17th Lomonosov Conference on Elementary Particle Physics: Moscow, Russia, August 20-26, 2015*, pp. 235–238. 2017.
- [1378] **ATLAS** Collaboration, E. Romero Adam, “Supersymmetry Searches in ATLAS”, in *Proceedings, 17th Lomonosov Conference on Elementary Particle Physics: Moscow, Russia, August 20-26, 2015*, pp. 227–234. 2017.
- [1379] **ATLAS** Collaboration, D. Krasnopevtsev, “Electroweak Measurements with the ATLAS Detector”, in *Proceedings, 17th Lomonosov Conference on Elementary Particle Physics: Moscow, Russia, August 20-26, 2015*, pp. 220–222. 2017.
- [1380] **ATLAS** Collaboration, M. Filipuzzi, “Measurements of the Properties of the Higgs Boson Using the ATLAS Detector”, in *Proceedings, 17th Lomonosov Conference on Elementary Particle Physics: Moscow, Russia, August 20-26, 2015*, pp. 199–202. 2017.
- [1381] **ATLAS** Collaboration, P. Glaysher, “Search for new Phenomena at the High Luminosity LHC With ATLAS”, in *Proceedings, 17th Lomonosov Conference on Elementary Particle Physics: Moscow, Russia, August 20-26, 2015*, pp. 167–173. 2017.

- [1382] **ATLAS** Collaboration, N. Kondrashova, “QCD Measurements of Vector-boson Production With the ATLAS Detector”, in *Proceedings, 17th Lomonosov Conference on Elementary Particle Physics: Moscow, Russia, August 20-26, 2015*, pp. 416–419. 2017.
- [1383] **ATLAS** Collaboration, K. W. Wozniak, “New results on collectivity with ATLAS”, 2017. [arXiv:1706.04025](#).
- [1384] **ATLAS** Collaboration, M. Aaboud et al., “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 collisions with the ATLAS detector”, *JHEP* **08** (2017) 006, [arXiv:1706.03986](#). doi:10.1007/JHEP08(2017)006.
- [1385] **ATLAS** Collaboration, M. Aaboud et al., “Search for dark matter in association with a Higgs boson decaying to two photons at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev.* **D96** (2017), no. 11, 112004, [arXiv:1706.03948](#). doi:10.1103/PhysRevD.96.112004.
- [1386] **ATLAS** Collaboration, M. Aaboud et al., “Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb^{-1} of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector”, *JHEP* **09** (2017) 084, [arXiv:1706.03731](#). [Erratum: *JHEP*08,121(2019)]. doi:10.1007/JHEP09(2017)084, 10.1007/JHEP08(2019)121.
- [1387] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the inclusive jet cross-sections in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *JHEP* **09** (2017) 020, [arXiv:1706.03192](#). doi:10.1007/JHEP09(2017)020.
- [1388] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the $t\bar{t}\gamma$ production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *JHEP* **11** (2017) 086, [arXiv:1706.03046](#). doi:10.1007/JHEP11(2017)086.
- [1389] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of jet fragmentation in 5.02 TeV proton-lead and proton-proton collisions with the ATLAS detector”, *Nucl. Phys.* **A978** (2018) 65, [arXiv:1706.02859](#). doi:10.1016/j.nuclphysa.2018.07.006.
- [1390] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of $WW/WZ \rightarrow \ell\nu qq'$ 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”, *Eur. Phys. J.* **C77** (2017), no. 8, 563, [arXiv:1706.01702](#). doi:10.1140/epjc/s10052-017-5084-2.
- [1391] **ATLAS** Collaboration, “Search for electroweak production of supersymmetric particles in the two and three lepton final state at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2017-039, 2017.

- [1392] **ATLAS** Collaboration, S. Carrà, “Search for top squark with two leptons in the final state at LHC Run 2 with the ATLAS detector”, *Nuovo Cim.* **C40** (2017), no. 1, 26. doi:10.1393/ncc/i2017-17026-5.
- [1393] **ATLAS** Collaboration, F. Cirotto, “Beyond Standard Model searches in monojet events with the ATLAS experiment at LHC”, *Nuovo Cim.* **C40** (2017), no. 1, 25. doi:10.1393/ncc/i2017-17025-6.
- [1394] **ATLAS, CMS** Collaboration, A. Mengarelli, “Top physics at LHC: From cross-section measurements to new physics searches”, *Nuovo Cim.* **C40** (2017), no. 1, 5. doi:10.1393/ncc/i2017-17005-x.
- [1395] **ATLAS, CMS** Collaboration, R. Covarelli, “Recent results on the Higgs boson from the LHC”, *Nuovo Cim.* **C40** (2017), no. 1, 4. doi:10.1393/ncc/i2017-17004-y.
- [1396] **ATLAS, CMS** Collaboration, P. J., “Dark Matter search at LHC”, *Nuovo Cim.* **C40** (2017), no. 1, 3. doi:10.1393/ncc/i2017-17003-0.
- [1397] **ATLAS, CMS** Collaboration, F. Giordano, “SUSY searches at the LHC Run2”, *Nuovo Cim.* **C40** (2017), no. 1, 2. doi:10.1393/ncc/i2017-17002-1.
- [1398] **ATLAS Muon** Collaboration, A. Betti, “Performance study of MicroMegas chambers for the ATLAS muon spectrometer upgrade”, *Nuovo Cim.* **C40** (2017), no. 1, 75. doi:10.1393/ncc/i2017-17075-8.
- [1399] **ATLAS** Collaboration, “Search for Supersymmetry in events with b -tagged jets and missing transverse energy in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2017-038, 2017.
- [1400] **ATLAS** Collaboration, M. Aaboud et al., “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”, *JHEP* **08** (2017) 052, arXiv:1705.10751. doi:10.1007/JHEP08(2017)052.
- [1401] **ATLAS** Collaboration, “Search for top squarks in final states with one isolated lepton, jets, and missing transverse momentum using 36.1fb^{-1} of $\sqrt{13}$ TeV pp collision data with the ATLAS detector”. ATLAS-CONF-2017-037, 2017.
- [1402] **ATLAS** Collaboration, “A search for B-L R-parity-violating scalar tops in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS experiment”. ATLAS-CONF-2017-036, 2017.
- [1403] **ATLAS** Collaboration, “Search for the direct production of charginos and neutralinos in final states with tau leptons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector”. ATLAS-CONF-2017-035, 2017.
- [1404] **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”. ATLAS-CONF-2017-034, 2017.

- [1405] **ATLAS** Collaboration, “Search for new phenomena with large jet multiplicities and missing transverse momentum using large-radius jets and flavour-tagging at ATLAS in 13 TeV pp collisions”. ATLAS-CONF-2017-033, 2017.
- [1406] **ATLAS** Collaboration, “Measurement of inclusive and differential cross sections in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel at 13 TeV with the ATLAS detector”, in *5th Large Hadron Collider Physics Conference (LHCP 2017) Shanghai, China, May 15-20, 2017*, CERN. CERN, Geneva, 2017.
- [1407] **ATLAS, CMS** Collaboration, M. Owen, “Top quark properties measurements at the LHC”, in *Proceedings, 52nd Rencontres de Moriond on Electroweak Interactions and Unified Theories: La Thuile, Italy, March 18-25, 2017*, pp. 25–32. 2017. [arXiv:1705.09089](#).
- [1408] **ATLAS analysis team** Collaboration, F. Giuli, “The photon PDF from high-mass Drell Yan data at the LHC”, *PoS DIS2017* (2018) 196, [arXiv:1705.08201](#). [doi:10.22323/1.297.0196](#).
- [1409] **ATLAS, CMS** Collaboration, W. J. Murray, “Higgs with Hadronic Signatures”, in *Proceedings, 52nd Rencontres de Moriond on QCD and High Energy Interactions: La Thuile, Italy, March 25-April 1, 2017*, pp. 11–14. 2017. [arXiv:1705.06915](#).
- [1410] **ATLAS** Collaboration, M. Aaboud et al., “Search for the dimuon decay of the Higgs boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev. Lett.* **119** (2017), no. 5, 051802, [arXiv:1705.04582](#). [doi:10.1103/PhysRevLett.119.051802](#).
- [1411] **ATLAS** Collaboration, “ $ZZ \rightarrow \ell^+\ell^-\ell'^+\ell'^-$ cross-section measurements and aTGC search in 13 TeV pp collisions with the ATLAS detector”. ATLAS-CONF-2017-031, 2017.
- [1412] **ATLAS** Collaboration, “Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb^{-1} of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector”. ATLAS-CONF-2017-030, 2017.
- [1413] **ATLAS** Collaboration, A. Olszewski, “Recent Heavy Ion Results from the ATLAS Experiment”, *PoS INPC2016* (2017) 338. [doi:10.22323/1.281.0338](#).
- [1414] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of multi-particle azimuthal correlations in pp , $p+\text{Pb}$ and low-multiplicity $\text{Pb}+\text{Pb}$ collisions with the ATLAS detector”, *Eur. Phys. J.* **C77** (2017), no. 6, 428, [arXiv:1705.04176](#). [doi:10.1140/epjc/s10052-017-4988-1](#).
- [1415] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of b -hadron pair production with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV”, *JHEP* **11** (2017) 062, [arXiv:1705.03374](#). [doi:10.1007/JHEP11\(2017\)062](#).

- [1416] **ATLAS** Collaboration, A. Koutoulaki, “The ITk Strip Tracker for the phase-II upgrade of the ATLAS detector of the HL-LHC”, *JINST* **12** (2017), no. 04, C04022. doi:10.1088/1748-0221/12/04/C04022.
- [1417] **ATLAS** Collaboration, M. Aaboud et al., “Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector”, *Eur. Phys. J.* **C77** (2017), no. 9, 580, arXiv:1705.02211. [Erratum: *Eur. Phys. J.*C77,no.10,712(2017)]. doi:10.1140/epjc/s10052-017-5081-5, 10.1140/epjc/s10052-017-5245-3.
- [1418] **ATLAS** Collaboration, M. Aaboud et al., “Studies of $Z\gamma$ production in association with a high-mass dijet system in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *JHEP* **07** (2017) 107, arXiv:1705.01966. doi:10.1007/JHEP07(2017)107.
- [1419] **ATLAS** Collaboration, M. Moreno Llacer, “Modelling of top quark pair production in association with a Standard Model boson or a heavy quark pair”, *PoS ICHEP2016* (2017) 1246. doi:10.22323/1.282.1246.
- [1420] **ATLAS** Collaboration, S. Viel, “Expected performance of the ATLAS Inner Tracker upgrade”, *PoS ICHEP2016* (2017) 1179. doi:10.22323/1.282.1179.
- [1421] **ATLAS** Collaboration, M. Sahinsoy, “Boosted $H \rightarrow b\bar{b}$ Tagger in Run II”, *PoS ICHEP2016* (2017) 1129. doi:10.22323/1.282.1129.
- [1422] **ATLAS** Collaboration, M. Myska, “Inelastic proton cross section at 13 TeV with ATLAS”, *PoS ICHEP2016* (2017) 1127. doi:10.22323/1.282.1127.
- [1423] **ATLAS** Collaboration, O. Rifki, “Search for supersymmetry at 13 TeV in final states with two same-sign leptons or at least three leptons and jets using pp collisions recorded with the ATLAS detector”, *PoS ICHEP2016* (2017) 1126. doi:10.22323/1.282.1126.
- [1424] **ATLAS** Collaboration, S. Mehlhase, “Search for Stable Massive Particles with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 13$ TeV”, *PoS ICHEP2016* (2017) 1119. doi:10.22323/1.282.1119.
- [1425] **ATLAS** Collaboration, B. Burghgrave, “Reconstruction of hadronically decaying tau leptons with ATLAS”, *PoS ICHEP2016* (2017) 1118. doi:10.22323/1.282.1118.
- [1426] **ATLAS** Collaboration, M. Zhang, “Performance of the ATLAS primary vertex reconstruction algorithms”, *PoS ICHEP2016* (2017) 1115. doi:10.22323/1.282.1115.
- [1427] **ATLAS** Collaboration, “Measurement of the tau lepton reconstruction and identification performance in the ATLAS experiment using pp collisions at $\sqrt{s} = 13$ TeV”. ATLAS-CONF-2017-029, 2017.
- [1428] **ATLAS** Collaboration, L. Havener, “Dijet asymmetries in Pb+Pb and pp collisions with the ATLAS detector”, *J. Phys. Conf. Ser.* **832** (2017), no. 1, 012007. doi:10.1088/1742-6596/832/1/012007.

- [1429] **ATLAS** Collaboration, R. Slovak, “Jet suppression measurement with the ATLAS detector”, *J. Phys. Conf. Ser.* **832** (2017), no. 1, 012005. doi:10.1088/1742-6596/832/1/012005.
- [1430] **ATLAS** Collaboration, M. Aaboud et al., “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”, *JHEP* **09** (2017) 088, arXiv:1704.08493. doi:10.1007/JHEP09(2017)088.
- [1431] **ATLAS** Collaboration, M. Aaboud et al., “Performance of the ATLAS Track Reconstruction Algorithms in Dense Environments in LHC Run 2”, *Eur. Phys. J. C* **77** (2017), no. 10, 673, arXiv:1704.07983. doi:10.1140/epjc/s10052-017-5225-7.
- [1432] **ATLAS** Collaboration, A. Limosani, “Top Quark Properties Measurements with the ATLAS Detector”, *PoS ICHEP2016* (2017) 660. doi:10.22323/1.282.0660.
- [1433] **ATLAS, CMS** Collaboration, H. Van Haevermaet, “Multi-jets at the LHC”, *PoS ICHEP2016* (2017) 615. doi:10.22323/1.282.0615.
- [1434] **ATLAS, CDF** Collaboration, A. Lucà, “Prompt photons at hadron colliders”, *PoS ICHEP2016* (2017) 597. doi:10.22323/1.282.0597.
- [1435] **ATLAS** Collaboration, T. Koffas, “ATLAS Higgs physics prospects at the high luminosity LHC”, *PoS ICHEP2016* (2017) 426. doi:10.22323/1.282.0426.
- [1436] **ATLAS** Collaboration, P. Conde Muño, “Search for the Standard Model Higgs boson decaying to b-quark pairs with the ATLAS detector at the LHC”, *PoS ICHEP2016* (2017) 392. doi:10.22323/1.282.0392.
- [1437] **ATLAS** Collaboration, A. Sanchez, “The Cevale2ve case”, *PoS ICHEP2016* (2017) 322. doi:10.22323/1.282.0322.
- [1438] **ATLAS, LHCb** Collaboration, D. G. Charlton, “Highlights of LHC experiments - part I”, *PoS ICHEP2016* (2017) 004. doi:10.22323/1.282.0004.
- [1439] **ATLAS ITk Strips** Collaboration, W. Lu, F. Anghinolfi, L. Cheng et al., “Development of the ABCStar front-end chip for the ATLAS silicon strip upgrade”, *JINST* **12** (2017), no. 04, C04017. doi:10.1088/1748-0221/12/04/C04017.
- [1440] **ATLAS, CMS** Collaboration, S. Casasso, “Supersymmetry searches with the ATLAS and CMS detectors”, *PoS CHARGED2016* (2017) 003. doi:10.22323/1.286.0003.
- [1441] **ATLAS, CMS** Collaboration, G. Brona, “Recent results on forward physics and jets at LHC”, *EPJ Web Conf.* **141** (2017) 03001. doi:10.1051/epjconf/201714103001.

- [1442] **ATLAS** Collaboration, M. Donadelli, “Measurements of the production of prompt photons, jets and vector bosons+jets in pp collisions with the ATLAS detector”, *EPJ Web Conf.* **141** (2017) 02001.
doi:10.1051/epjconf/201714102001.
- [1443] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Eur. Phys. J.* **C77** (2017), no. 6, 393,
arXiv:1704.03848. doi:10.1140/epjc/s10052-017-4965-8.
- [1444] **ATLAS** Collaboration, M. Aaboud et al., “Measurements of integrated and differential cross sections for isolated photon pair production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *Phys. Rev.* **D95** (2017), no. 11, 112005,
arXiv:1704.03839. doi:10.1103/PhysRevD.95.112005.
- [1445] **ATLAS** Collaboration, “Search for Dark Matter Produced in Association with a Higgs Boson Decaying to $b\bar{b}$ at $\sqrt{s} = 13$ TeV with the ATLAS Detector”.
ATLAS-CONF-2017-028, 2017.
- [1446] **ATLAS** Collaboration, “Search for new high-mass phenomena in the dilepton final state using 36.1 fb^{-1} of proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2017-027, 2017.
- [1447] **ATLAS** Collaboration, M. Aaboud et al., “Femtoscopia with identified charged pions in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ATLAS”, *Phys. Rev.* **C96** (2017), no. 6, 064908, arXiv:1704.01621. doi:10.1103/PhysRevC.96.064908.
- [1448] **ATLAS** Collaboration, “Search for long-lived, massive particles in events with displaced vertices and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector”. ATLAS-CONF-2017-026, 2017.
- [1449] **ATLAS** Collaboration, “A search for pair-produced resonances in four-jet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2017-025, 2017.
- [1450] **ATLAS** Collaboration, “Search for new phenomena in events with missing transverse momentum and a Higgs boson decaying into two photons at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2017-024, 2017.
- [1451] **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”. ATLAS-CONF-2017-023, 2017.
- [1452] **ATLAS** Collaboration, “Search for squarks and gluinos in final states with jets and missing transverse momentum using 36 fb^{-1} of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector”. ATLAS-CONF-2017-022, 2017.
- [1453] **ATLAS** Collaboration, “Search for production of supersymmetric particles in final states with missing transverse momentum and multiple b-jets at $\sqrt{s} = 13$ TeV proton-proton collisions with the ATLAS detector”.
ATLAS-CONF-2017-021, 2017.

- [1454] **ATLAS** Collaboration, “Search for a Scalar Partner of the Top Quark in the Jets+ETmiss Final State at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2017-020, 2017.
- [1455] **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 collisions with the ATLAS detector”. ATLAS-CONF-2017-019, 2017.
- [1456] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the k_t splitting scales in $Z \rightarrow \ell\ell$ events in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *JHEP* **08** (2017) 026, arXiv:1704.01530. doi:10.1007/JHEP08(2017)026.
- [1457] **ATLAS** Collaboration, A. Basalaeu, “Study of the di-lepton final state with missing transverse momentum with the ATLAS detector”, *PoS LHCP2016* (2017) 191. doi:10.22323/1.276.0191.
- [1458] **ATLAS, CDF, CMS, D0** Collaboration, J. Fernández Menéndez, “Top-quark properties at hadron colliders”, *PoS LHCP2016* (2017) 038. doi:10.22323/1.276.0038.
- [1459] **ATLAS, CDF, CMS, D0, LHCb** Collaboration, A. H. Knue, “Top-quark production at hadron colliders”, *PoS LHCP2016* (2017) 037. doi:10.22323/1.276.0037.
- [1460] **ATLAS, CDF, CMS, D0** Collaboration, S. Tokar, “Top-quark mass at Tevatron and LHC”, *PoS LHCP2016* (2017) 157. doi:10.22323/1.276.0157.
- [1461] **ATLAS** Collaboration, D. Krasnopevtsev, “Measurements of $Z\gamma$ and $Z\gamma\gamma$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *PoS LHCP2016* (2017) 229. doi:10.22323/1.276.0229.
- [1462] **ATLAS** Collaboration, “Search for Heavy Resonances Decaying to a W or Z Boson and a Higgs Boson in the $q\bar{q}^{(\prime)}b\bar{b}$ Final State in pp Collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector”. ATLAS-CONF-2017-018, 2017.
- [1463] **ATLAS** Collaboration, “Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2017-017, 2017.
- [1464] **ATLAS** Collaboration, “Search for a new heavy gauge boson resonance decaying into a lepton and missing transverse momentum in 36 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment”. ATLAS-CONF-2017-016, 2017.
- [1465] **ATLAS** Collaboration, M. Dumančić, “ W and Z boson production in 5.02 TeV pp and $p+\text{Pb}$ collisions with the ATLAS detector”, *Nucl. Part. Phys. Proc.* **289-290** (2017) 193–196, arXiv:1704.00298. doi:10.1016/j.nuclphysbps.2017.05.042.

- [1466] **ATLAS** Collaboration, E. M. Lobodzinska, “Studies of double parton scattering in ATLAS”, in *8th International Workshop on Multiple Partonic Interactions at the LHC (MPI@LHC 2016) San Cristobal de las Casas, Chiapas, Mexico, November 28-December 2, 2016*. 2017. arXiv:1704.00059.
- [1467] **ATLAS** Collaboration, “Search for pair production of vector-like top quarks in events with one lepton and an invisibly decaying Z boson in $\sqrt{s} = 13$ TeV pp collisions at the ATLAS detector”. ATLAS-CONF-2017-015, 2017.
- [1468] **ATLAS** Collaboration, “Search for the dimuon decay of the Higgs boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”. ATLAS-CONF-2017-014, 2017.
- [1469] **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”. ATLAS-CONF-2017-013, 2017.
- [1470] **ATLAS** Collaboration, M. Aaboud et al., “Jet reconstruction and performance using particle flow with the ATLAS Detector”, *Eur. Phys. J.* **C77** (2017), no. 7, 466, arXiv:1703.10485. doi:10.1140/epjc/s10052-017-5031-2.
- [1471] **ATLAS** Collaboration, M. Tasevsky, “ATLAS results on diffraction and exclusive production”, in *8th International Workshop on Multiple Partonic Interactions at the LHC (MPI@LHC 2016) San Cristobal de las Casas, Chiapas, Mexico, November 28-December 2, 2016*. 2017. arXiv:1703.10472.
- [1472] **ATLAS, CMS** Collaboration, D. Zanzi, “Measurement of the Higgs Boson Couplings and CP Structure Using Tau Leptons at the LHC”, *Nucl. Part. Phys. Proc.* **287-288** (2017) 115–118, arXiv:1703.10259. doi:10.1016/j.nuclphysbps.2017.03.057.
- [1473] **ATLAS LAr Calorimeter Group** Collaboration, H. Xu, “The trigger readout electronics for the Phase-I upgrade of the ATLAS Liquid Argon calorimeters”, *JINST* **12** (2017), no. 03, C03073. doi:10.1088/1748-0221/12/03/C03073.
- [1474] **ATLAS** Collaboration, M. Aaboud et al., “Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Rev.* **D96** (2017), no. 7, 072002, arXiv:1703.09665. doi:10.1103/PhysRevD.96.072002.
- [1475] **ATLAS** Collaboration, M. Przybycien, “Recent heavy ion results from the ATLAS experiment”, *EPJ Web Conf.* **138** (2017) 01002. doi:10.1051/epjconf/201713801002.
- [1476] **ATLAS** Collaboration, I. Maznas, “FTK: The hardware Fast TrackEr of the ATLAS experiment at CERN”, *EPJ Web Conf.* **137** (2017) 12001. doi:10.1051/epjconf/201713712001.

- [1477] **ATLAS** Collaboration, D. Börner, “A method for the construction of strongly reduced representations of ATLAS experimental uncertainties and the application thereof to the jet energy scale”, *EPJ Web Conf.* **137** (2017) 11003. doi:10.1051/epjconf/201713711003.
- [1478] **ATLAS** Collaboration, S. Biondi, “Experience with using unfolding procedures in ATLAS”, *EPJ Web Conf.* **137** (2017) 11002. doi:10.1051/epjconf/201713711002.
- [1479] **ATLAS** Collaboration, P. Stolte, “Precision Measurements of Top Quark Production with the ATLAS Detector”, *EPJ Web Conf.* **137** (2017) 08015. doi:10.1051/epjconf/201713708015.
- [1480] **ATLAS** Collaboration, D. Iliadis, “Measurement of the WZ boson pair production cross section at 13 TeV and confidence intervals on anomalous triple gauge couplings with the ATLAS detector”, *EPJ Web Conf.* **137** (2017) 08009. doi:10.1051/epjconf/201713708009.
- [1481] **ATLAS** Collaboration, M. Aaboud et al., “Search for new phenomena in dijet events using 37 fb^{-1} of pp collision data collected at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”, *Phys. Rev.* **D96** (2017), no. 5, 052004, arXiv:1703.09127. doi:10.1103/PhysRevD.96.052004.
- [1482] **ATLAS TRT** Collaboration, D. V. Krasnopevtsev, “Tracking properties of the ATLAS Transition Radiation Tracker (TRT)”, *J. Phys. Conf. Ser.* **798** (2017), no. 1, 012150. doi:10.1088/1742-6596/798/1/012150.
- [1483] **ATLAS** Collaboration, A. S. Maevskiy, “Measurement of CP-violation parameters in decays of $B_s^0 \rightarrow J/\psi\phi$ with the ATLAS detector”, *J. Phys. Conf. Ser.* **798** (2017), no. 1, 012095. doi:10.1088/1742-6596/798/1/012095.
- [1484] **ATLAS** Collaboration, E. Shulga, “Charged particle production in $p+\text{Pb}$ collisions measured by the ATLAS detector”, *J. Phys. Conf. Ser.* **798** (2017), no. 1, 012066. doi:10.1088/1742-6596/798/1/012066.
- [1485] **ATLAS, CMS** Collaboration, X. Chen, “Prospects of LHC Higgs Physics at the end of Run III”, in *Proceedings, International Workshop on Future Linear Colliders 2016 (LCWS2016): Morioka, Iwate, Japan, December 05-09, 2016*. 2017. arXiv:1703.07689.
- [1486] **ATLAS, CMS** Collaboration, X. Chen, “Prospects for Higgs CP property measurements at the LHC”, in *Proceedings, International Workshop on Future Linear Colliders 2016 (LCWS2016): Morioka, Iwate, Japan, December 05-09, 2016*. 2017. arXiv:1703.07675.
- [1487] **ATLAS** Collaboration, G. Gach, “Prospects and Results from the AFP Detector in ATLAS”, in *8th International Workshop on Multiple Partonic Interactions at the LHC (MPI@LHC 2016) San Cristobal de las Casas, Chiapas, Mexico, November 28-December 2, 2016*. 2017. arXiv:1703.06961.

- [1488] **ATLAS** Collaboration, M. Dobre, “ATLAS detector upgrade prospects”, *J. Phys. Conf. Ser.* **798** (2017), no. 1, 012205. doi:10.1088/1742-6596/798/1/012205.
- [1489] **ATLAS** Collaboration, F. Fabbri, “Top pair production measurements at ATLAS”, *Nucl. Part. Phys. Proc.* **282-284** (2017) 63–67. doi:10.1016/j.nuclphysbps.2016.12.012.
- [1490] **ATLAS** Collaboration, C. Vittori, “ATLAS measurement of Electroweak Vector Boson production”, *Nucl. Part. Phys. Proc.* **282-284** (2017) 5–9. doi:10.1016/j.nuclphysbps.2016.12.003.
- [1491] **ATLAS** Collaboration, S. Angelidakis, “Searches for high mass Higgs bosons with the ATLAS detector”, *Nucl. Part. Phys. Proc.* **282-284** (2017) 199–204. doi:10.1016/j.nuclphysbps.2016.12.038.
- [1492] **ATLAS** Collaboration, S. Schmitz, “Recent electroweak results from ATLAS”, *Nucl. Part. Phys. Proc.* **282-284** (2017) 177–181. doi:10.1016/j.nuclphysbps.2016.12.034.
- [1493] **ATLAS** Collaboration, B. Álvarez González, “Measurements of $t\bar{t} + X$ using the ATLAS detector”, *Nucl. Part. Phys. Proc.* **282-284** (2017) 57–62. doi:10.1016/j.nuclphysbps.2016.12.041.
- [1494] **ATLAS** Collaboration, A. Shcherbakova, “Search for dark matter with the ATLAS detector at the LHC”, *J. Phys. Conf. Ser.* **798** (2017), no. 1, 012100. doi:10.1088/1742-6596/798/1/012100.
- [1495] **ATLAS** Collaboration, M. Aaboud et al., “Measurements of electroweak Wjj production and constraints on anomalous gauge couplings with the ATLAS detector”, *Eur. Phys. J.* **C77** (2017), no. 7, 474, arXiv:1703.04362. doi:10.1140/epjc/s10052-017-5007-2.
- [1496] **ATLAS** Collaboration, A. A. Maier, “Measurement of the top quark mass in dileptonic top quark pair decays with $\sqrt{s} = 7$ TeV ATLAS data”, *Yad. Fiz.* **6** (2016), no. 7-8, 401–404. doi:10.1134/S1063778816100082.
- [1497] **ATLAS, CMS** Collaboration, M. Naseri, “Charge asymmetry measurements in $t\bar{t}$ events at the LHC”, in *Proceedings, 9th International Workshop on Top Quark Physics (TOP 2016): Olomouc, Czech Republic, September 19-23, 2016*. 2016. arXiv:1703.03558.
- [1498] **ATLAS** Collaboration, M. Spousta, “Jet fragmentation and multijet studies in heavy ion collisions at ATLAS”, *J. Phys. Conf. Ser.* **805** (2017), no. 1, 012007. doi:10.1088/1742-6596/805/1/012007.
- [1499] **ATLAS** Collaboration, D. Hirschbuehl, “Single-top quark cross-section measurements in ATLAS”, in *Proceedings, 9th International Workshop on Top Quark Physics (TOP 2016): Olomouc, Czech Republic, September 19-23, 2016*. 2017. arXiv:1703.02360.

- [1500] **ATLAS** Collaboration, D. Caforio, “Recent results and highlights from the ATLAS experiment”, *AIP Conf. Proc.* **1819** (2017), no. 1, 020001. doi:10.1063/1.4977117.
- [1501] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the $t\bar{t}$ production cross section in the $\tau + \text{jets}$ final state in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector”, *Phys. Rev.* **D95** (2017), no. 7, 072003, arXiv:1702.08839. doi:10.1103/PhysRevD.95.072003.
- [1502] **ATLAS** Collaboration, M. Aaboud et al., “Probing the W tb vertex structure in t-channel single-top-quark production and decay in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *JHEP* **04** (2017) 124, arXiv:1702.08309. doi:10.1007/JHEP04(2017)124.
- [1503] **ATLAS** Collaboration, M. Aaboud et al., “Top-quark mass measurement in the all-hadronic $t\bar{t}$ decay channel at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *JHEP* **09** (2017) 118, arXiv:1702.07546. doi:10.1007/JHEP09(2017)118.
- [1504] **ATLAS** Collaboration, M. Aaboud et al., “Performance of the ATLAS Transition Radiation Tracker in Run 1 of the LHC: tracker properties”, *JINST* **12** (2017), no. 05, P05002, arXiv:1702.06473. doi:10.1088/1748-0221/12/05/P05002.
- [1505] **ATLAS** Collaboration, D. López Mateos, “Searches for new physics with boosted objects and substructure with the ATLAS detector”, *Nuovo Cim.* **C39** (2017), no. 4, 348. doi:10.1393/ncc/i2016-16348-0.
- [1506] **ATLAS** Collaboration, A. Solodkov, “Electroweak diboson production at ATLAS”, *Nuovo Cim.* **C39** (2017), no. 4, 338. doi:10.1393/ncc/i2016-16338-2.
- [1507] **ATLAS** Collaboration, S. Sacerdoti, “Measurements of four-jet differential cross sections in $\sqrt{s} = 8$ TeV proton-proton collisions using the ATLAS detector”, *Nuovo Cim.* **C39** (2017), no. 4, 334. doi:10.1393/ncc/i2016-16334-6.
- [1508] **ATLAS** Collaboration, Z. Hubacek, “QCD Measurements at ATLAS”, *Nuovo Cim.* **C39** (2017), no. 4, 330. doi:10.1393/ncc/i2016-16330-x.
- [1509] **ATLAS** Collaboration, M. Aaboud et al., “Measurements of the production cross section of a Z boson in association with jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C77** (2017), no. 6, 361, arXiv:1702.05725. doi:10.1140/epjc/s10052-017-4900-z.
- [1510] **ATLAS** Collaboration, N. Ilic, “The ATLAS Fast Tracker and Tracking at the High-Luminosity LHC”, *JINST* **12** (2017), no. 02, C02052. doi:10.1088/1748-0221/12/02/C02052.
- [1511] **ATLAS** Collaboration, W. Qian, “Design and test performance of the ATLAS Feature Extractor trigger boards for the Phase-1 Upgrade”, *JINST* **12** (2017), no. 01, C01079. doi:10.1088/1748-0221/12/01/C01079.

- [1512] **ATLAS** Collaboration, M. Kocian, “Readout and trigger for the AFP detector at ATLAS experiment”, *JINST* **12** (2017), no. 01, C01077.
doi:10.1088/1748-0221/12/01/C01077.
- [1513] **ATLAS** Collaboration, O. Kortner, “Upgrade of the ATLAS muon spectrometer for operation at the HL-LHC”, *Nucl. Instrum. Meth.* **A845** (2017) 241–243.
doi:10.1016/j.nima.2016.06.065.
- [1514] **ATLAS LAr Calorimeter** Collaboration, W. Hopkins, “Electronics development for the ATLAS liquid argon calorimeter trigger and readout for future LHC running”, *Nucl. Instrum. Meth.* **A845** (2017) 599–602.
doi:10.1016/j.nima.2016.04.037.
- [1515] **ATLAS** Collaboration, M. Spoor, “Upgrade of the ATLAS Tile hadronic calorimeter for high-luminosity LHC run”, *Nucl. Instrum. Meth.* **A845** (2017) 537–541. doi:10.1016/j.nima.2016.05.116.
- [1516] **ATLAS** Collaboration, B. Mindur, “ATLAS Transition Radiation Tracker (TRT): Straw tubes for tracking and particle identification at the Large Hadron Collider”, *Nucl. Instrum. Meth.* **A845** (2017) 257–261.
doi:10.1016/j.nima.2016.04.026.
- [1517] **ATLAS** Collaboration, F. Kuger, “Performance studies of resistive Micromegas detectors for the upgrade of the ATLAS Muon spectrometer”, *Nucl. Instrum. Meth.* **A845** (2017) 248–252. doi:10.1016/j.nima.2016.06.006.
- [1518] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the W^+W^- production cross section in pp collisions at a centre-of-mass energy of $\sqrt{s} = 13$ TeV with the ATLAS experiment”, *Phys. Lett.* **B773** (2017) 354–374,
arXiv:1702.04519. doi:10.1016/j.physletb.2017.08.047.
- [1519] **ATLAS** Collaboration, K. W. Wozniak, “Study of the long-range azimuthal correlations in pp and $p+\text{Pb}$ collisions with the ATLAS detector at the LHC”, *J. Phys. Conf. Ser.* **779** (2017), no. 1, 012057.
doi:10.1088/1742-6596/779/1/012057.
- [1520] **ATLAS** Collaboration, K. Damlund, “Measurements of properties of strong and electroweak forces with the ATLAS detector at the LHC”, *Hyperfine Interact.* **238** (2017), no. 1, 27. doi:10.1007/s10751-016-1374-6.
- [1521] **ATLAS, CMS** Collaboration, S. Tokar, “Jet charge determination at the LHC”, in *Proceedings, Parton Radiation and Fragmentation from LHC to FCC-ee: CERN, Geneva, Switzerland, November 22-23, 2016*, pp. 79–84. 2017.
- [1522] **ATLAS, CMS** Collaboration, G. Rauco, “Distinguishing quark and gluon jets at the LHC”, in *Proceedings, Parton Radiation and Fragmentation from LHC to FCC-ee: CERN, Geneva, Switzerland, November 22-23, 2016*, pp. 73–78. 2017.

- [1523] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Eur. Phys. J. C* **77** (2017), no. 8, 531, [arXiv:1702.02859](#).
doi:10.1140/epjc/s10052-017-5061-9.
- [1524] **ATLAS** Collaboration, “Measurement of nuclear modification factor R_{AA} in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector at the LHC”. ATLAS-CONF-2017-012, 2017.
- [1525] **ATLAS** Collaboration, “Photo-nuclear dijet production in ultra-peripheral Pb+Pb collisions”. ATLAS-CONF-2017-011, 2017.
- [1526] **ATLAS** Collaboration, “ Z boson production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector at the LHC”. ATLAS-CONF-2017-010, 2017.
- [1527] **ATLAS** Collaboration, “Study of inclusive jet yields in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”. ATLAS-CONF-2017-009, 2017.
- [1528] **ATLAS** Collaboration, “Azimuthal femtoscopy in central p +Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ATLAS”. ATLAS-CONF-2017-008, 2017.
- [1529] **ATLAS** Collaboration, “Measurement of multi-particle azimuthal correlations in pp , p +Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector”. ATLAS-CONF-2017-007, 2017.
- [1530] **ATLAS** Collaboration, “Measurement of the long-range pseudorapidity correlations between muons and charged-particles in $\sqrt{s_{NN}} = 8.16$ TeV proton-lead collisions with the ATLAS detector”. ATLAS-CONF-2017-006, 2017.
- [1531] **ATLAS** Collaboration, “Measurement of jet fragmentation in 5.02 TeV lead-lead and proton-proton collisions with the ATLAS detector”. ATLAS-CONF-2017-005, 2017.
- [1532] **ATLAS** Collaboration, “Measurement of jet fragmentation in 5.02 TeV proton-lead and proton-proton collisions with the ATLAS detector”. ATLAS-CONF-2017-004, 2017.
- [1533] **ATLAS** Collaboration, “Measurement of longitudinal flow correlations in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV with the ATLAS detector”. ATLAS-CONF-2017-003, 2017.
- [1534] **ATLAS** Collaboration, “Measurement of multi-particle azimuthal correlations in pp and p +Pb collisions with the ATLAS detector”. ATLAS-CONF-2017-002, 2017.
- [1535] **ATLAS** Collaboration, I. Cioară, “Recent measurements of associated single top-quark production cross-section with the ATLAS detector”, in *Proceedings, 9th International Workshop on Top Quark Physics (TOP 2016): Olomouc, Czech Republic, September 19-23, 2016*. 2017. [arXiv:1702.01912](#).

- [1536] **ATLAS** Collaboration, M. Aaboud et al., “Evidence for light-by-light scattering in heavy-ion collisions with the ATLAS detector at the LHC”, *Nature Phys.* **13** (2017), no. 9, 852–858, arXiv:1702.01625. doi:10.1038/nphys4208.
- [1537] **ATLAS** Collaboration, T. Flick, “The phase II ATLAS Pixel upgrade: the Inner Tracker (ITk)”, *JINST* **12** (2017), no. 01, C01098. doi:10.1088/1748-0221/12/01/C01098.
- [1538] **ATLAS** Collaboration, M. Wensing, “ATLAS Phase-II-Upgrade Pixel data transmission development”, *JINST* **12** (2017), no. 01, C01093. doi:10.1088/1748-0221/12/01/C01093.
- [1539] **ATLAS Liquid Argon Group** Collaboration, T. Liu, “Development of ATLAS Liquid Argon Calorimeter front-end electronics for the HL-LHC”, *JINST* **12** (2017), no. 01, C01092. doi:10.1088/1748-0221/12/01/C01092.
- [1540] **ATLAS Muon** Collaboration, P. Gkoutoumis, “Electronics design and system integration of the ATLAS New Small Wheels”, *JINST* **12** (2017), no. 01, C01088. doi:10.1088/1748-0221/12/01/C01088.
- [1541] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector at the LHC”, *Eur. Phys. J.* **C77** (2017), no. 6, 379, arXiv:1702.00674. doi:10.1140/epjc/s10052-017-4915-5.
- [1542] **ATLAS** Collaboration, “A model independent general search for new phenomena with the ATLAS detector at $\sqrt{s} = 13$ TeV”. ATLAS-CONF-2017-001, 2017.
- [1543] **ATLAS** Collaboration, J. Guenther, “ $B_{d/s} \rightarrow \mu^+ \mu^-$ in ATLAS”, *PoS HQL2016* (2017) 057. doi:10.22323/1.274.0057.
- [1544] **ATLAS** Collaboration, E. Bouhova-Thacker, “Mixing and CPV in the B_d and B_s systems at ATLAS”, *PoS HQL2016* (2017) 045. doi:10.22323/1.274.0045.
- [1545] **ATLAS, CMS, CDF, D0** Collaboration, J. Cuevas Maestro, “Top Quark Properties”, *PoS HQL2016* (2017) 039. doi:10.22323/1.274.0039.
- [1546] **ATLAS, CDF, CMS, D0, LHCb** Collaboration, K. Kawade, “Review of top quark production at LHC and Tevatron”, *PoS HQL2016* (2017) 038. doi:10.22323/1.274.0038.
- [1547] **ATLAS** Collaboration, M. Sioli, “Production of quarkonium and heavy flavour in ATLAS”, *PoS HQL2016* (2017) 023. doi:10.22323/1.274.0023.
- [1548] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the W -boson mass in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C78** (2018), no. 2, 110, arXiv:1701.07240. [Erratum: *Eur. Phys. J.* **C78**, no. 11, 898 (2018)]. doi:10.1140/epjc/s10052-018-6354-3, 10.1140/epjc/s10052-017-5475-4.

- [1549] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the cross section for inclusive isolated-photon production in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector”, *Phys. Lett.* **B770** (2017) 473–493, arXiv:1701.06882. doi:10.1016/j.physletb.2017.04.072.
- [1550] **ATLAS, CDF, CMS, D0** Collaboration, O. Brandt, “Measurements of the top quark mass from the LHC and the Tevatron”, *PoS CKM2016* (2017) 122, arXiv:1701.05486. doi:10.22323/1.291.0122.
- [1551] **ATLAS** Collaboration, M. Aaboud et al., “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”, *JHEP* **03** (2017) 157, arXiv:1701.05390. doi:10.1007/JHEP03(2017)157.
- [1552] **ATLAS, CMS** Collaboration, Y. Horii, “ATLAS/CMS upgrades”, *PoS FPCP2016* (2017) 040. doi:10.22323/1.280.0040.
- [1553] **ATLAS, CMS** Collaboration, J. Brandstetter, “Higgs properties”, *PoS FPCP2016* (2017) 025. doi:10.22323/1.280.0025.
- [1554] **ATLAS, CMS** Collaboration, J. Andrea, “Search for Dark Matter with top quarks”, in *Proceedings, 9th International Workshop on Top Quark Physics (TOP 2016): Olomouc, Czech Republic, September 19-23, 2016*. 2017. arXiv:1701.03046.
- [1555] **ATLAS** Collaboration, P. Seema, “Measurement of the t -channel single top-quark and top-antiquark differential cross-sections in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, in *Proceedings, 9th International Workshop on Top Quark Physics (TOP 2016): Olomouc, Czech Republic, September 19-23, 2016*. 2017. arXiv:1701.02306.
- [1556] **ATLAS** Collaboration, R. Naranjo, “Measurements of the charge asymmetry in top-quark pair production in the dilepton final state at $\sqrt{s} = 8$ TeV with the ATLAS detector”, in *Proceedings, 9th International Workshop on Top Quark Physics (TOP 2016): Olomouc, Czech Republic, September 19-23, 2016*. 2017. arXiv:1701.01275.
- [1557] **ATLAS** Collaboration, A. Milov, “Measurement of long-range particle correlations in small systems with the ATLAS detector”, *Nucl. Part. Phys. Proc.* **289-290** (2017) 470–473, arXiv:1612.08164. doi:10.1016/j.nuclphysbps.2017.05.110.
- [1558] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the cross-section for producing a W boson in association with a single top quark in pp collisions at $\sqrt{s} = 13$ TeV with ATLAS”, *JHEP* **01** (2018) 063, arXiv:1612.07231. doi:10.1007/JHEP01(2018)063.
- [1559] **ATLAS** Collaboration, M. Aaboud et al., “Measurements of top quark spin observables in $t\bar{t}$ events using dilepton final states in $\sqrt{s} = 8$ TeV pp collisions

- with the ATLAS detector”, *JHEP* **03** (2017) 113, arXiv:1612.07004.
doi:10.1007/JHEP03(2017)113.
- [1560] **ATLAS** Collaboration, M. Aaboud et al., “Measurements of top-quark pair differential cross-sections in the $e\mu$ channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector”, *Eur. Phys. J.* **C77** (2017), no. 5, 292, arXiv:1612.05220.
doi:10.1140/epjc/s10052-017-4821-x.
- [1561] **ATLAS** Collaboration, M. Aaboud et al., “Measurements of top-quark pair to Z -boson cross-section ratios at $\sqrt{s} = 13, 8, 7$ TeV with the ATLAS detector”, *JHEP* **02** (2017) 117, arXiv:1612.03636. doi:10.1007/JHEP02(2017)117.
- [1562] **ATLAS** Collaboration, M. Aaboud et al., “Precision measurement and interpretation of inclusive W^+ , W^- and Z/γ^* production cross sections with the ATLAS detector”, *Eur. Phys. J.* **C77** (2017), no. 6, 367, arXiv:1612.03016.
doi:10.1140/epjc/s10052-017-4911-9.
- [1563] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the prompt J/ψ pair production cross-section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C77** (2017), no. 2, 76, arXiv:1612.02950.
doi:10.1140/epjc/s10052-017-4644-9.
- [1564] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the W boson polarisation in $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV in the lepton + jets channel with ATLAS”, *Eur. Phys. J.* **C77** (2017), no. 4, 264, arXiv:1612.02577. [Erratum: *Eur. Phys. J.* **C79**, no. 1, 19(2019)].
doi:10.1140/epjc/s10052-018-6520-7, 10.1140/epjc/s10052-017-4819-4.
- [1565] **ATLAS** Collaboration, M. Aaboud et al., “Electron efficiency measurements with the ATLAS detector using 2012 LHC proton–proton collision data”, *Eur. Phys. J.* **C77** (2017), no. 3, 195, arXiv:1612.01456.
doi:10.1140/epjc/s10052-017-4756-2.
- [1566] **ATLAS** Collaboration, M. Aaboud et al., “Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton–proton collisions at the LHC”, *Eur. Phys. J.* **C77** (2017), no. 5, 332, arXiv:1611.10235.
doi:10.1140/epjc/s10052-017-4887-5.
- [1567] **ATLAS** Collaboration, M. Aaboud et al., “Performance of the ATLAS Trigger System in 2015”, *Eur. Phys. J.* **C77** (2017), no. 5, 317, arXiv:1611.09661.
doi:10.1140/epjc/s10052-017-4852-3.
- [1568] **ATLAS** Collaboration, M. Aaboud et al., “High- E_T isolated-photon plus jets production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *Nucl. Phys.* **B918** (2017) 257–316, arXiv:1611.06586.
doi:10.1016/j.nuclphysb.2017.03.006.
- [1569] **ATLAS** Collaboration, M. Aaboud et al., “Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing

- transverse momentum in $\sqrt{s} = 13$ pp collisions with the ATLAS detector”, *Eur. Phys. J.* **C77** (2017), no. 3, 144, arXiv:1611.05791.
doi:10.1140/epjc/s10052-017-4700-5.
- [1570] **ATLAS** Collaboration, M. Arratia, “Ultra-peripheral Collisions with the ATLAS Detector”, *AIP Conf. Proc.* **1819** (2017), no. 1, 070001, arXiv:1611.05145.
doi:10.1063/1.4977168.
- [1571] **ATLAS** Collaboration, H. Stenzel, “Measurement of the total cross section at 8 TeV and the inelastic cross section at 13 TeV at the LHC with the ATLAS detector”, *AIP Conf. Proc.* **1819** (2017), no. 1, 040005, arXiv:1611.02454.
doi:10.1063/1.4977135.
- [1572] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of $W^\pm W^\pm$ vector-boson scattering and limits on anomalous quartic gauge couplings with the ATLAS detector”, *Phys. Rev.* **D96** (2017), no. 1, 012007, arXiv:1611.02428.
doi:10.1103/PhysRevD.96.012007.
- [1573] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of jet activity produced in top-quark events with an electron, a muon and two b -tagged jets in the final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C77** (2017), no. 4, 220, arXiv:1610.09978.
doi:10.1140/epjc/s10052-017-4766-0.
- [1574] **ATLAS** Collaboration, M. Aaboud et al., “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”, *JHEP* **01** (2017) 117, arXiv:1610.09303.
doi:10.1007/JHEP01(2017)117.
- [1575] **ATLAS** Collaboration, M. Aaboud et al., “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”, *JHEP* **02** (2017) 071, arXiv:1610.07869. doi:10.1007/JHEP02(2017)071.
- [1576] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the ZZ production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV using the $ZZ \rightarrow \ell^-\ell^+\ell^-\ell^+$ and $ZZ \rightarrow \ell^-\ell^+\nu\bar{\nu}$ channels with the ATLAS detector”, *JHEP* **01** (2017) 099, arXiv:1610.07585. doi:10.1007/JHEP01(2017)099.
- [1577] **ATLAS** Collaboration, M. Aaboud et al., “Search for triboson $W^\pm W^\pm W^\mp$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C77** (2017), no. 3, 141, arXiv:1610.05088.
doi:10.1140/epjc/s10052-017-4692-1.
- [1578] **ATLAS** Collaboration, G. Aad et al., “Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s} = 8$ TeV proton-proton collisions in the ATLAS detector”, *Eur. Phys. J.* **C77** (2017), no. 4, 241, arXiv:1609.09324. doi:10.1140/epjc/s10052-017-4780-2.

- [1579] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of W boson angular distributions in events with high transverse momentum jets at $\sqrt{s} = 8$ TeV using the ATLAS detector”, *Phys. Lett.* **B765** (2017) 132–153, arXiv:1609.07045. doi:10.1016/j.physletb.2016.12.005.
- [1580] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Rev.* **C96** (2017), no. 2, 024908, arXiv:1609.06213. doi:10.1103/PhysRevC.96.024908.
- [1581] **ATLAS** Collaboration, M. Aaboud et al., “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”, *Phys. Rev.* **D95** (2017), no. 3, 032001, arXiv:1609.05122. doi:10.1103/PhysRevD.95.032001.
- [1582] **ATLAS** Collaboration, M. Aaboud et al., “Search for dark matter in association with a Higgs boson decaying to b -quarks in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett.* **B765** (2017) 11–31, arXiv:1609.04572. doi:10.1016/j.physletb.2016.11.035.
- [1583] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the inclusive cross-sections of single top-quark and top-antiquark t -channel production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *JHEP* **04** (2017) 086, arXiv:1609.03920. doi:10.1007/JHEP04(2017)086.
- [1584] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the $t\bar{t}Z$ and $t\bar{t}W$ production cross sections in multilepton final states using 3.2 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Eur. Phys. J.* **C77** (2017), no. 1, 40, arXiv:1609.01599. doi:10.1140/epjc/s10052-016-4574-y.
- [1585] **ATLAS ITk Strip** Collaboration, C. García Argos, “The ATLAS ITk strip detector. Status of R&D”, *Nucl. Instrum. Meth.* **A845** (2017) 80–83. doi:10.1016/j.nima.2016.04.058.
- [1586] **ATLAS** Collaboration, M. Aaboud et al., “A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 pp -collision data with the ATLAS detector”, *Eur. Phys. J.* **C77** (2017), no. 1, 26, arXiv:1607.08842. doi:10.1140/epjc/s10052-016-4580-0.
- [1587] **ATLAS** Collaboration, M. Aaboud et al., “Search for heavy resonances decaying to a Z boson and a photon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett.* **B764** (2017) 11–30, arXiv:1607.06363. doi:10.1016/j.physletb.2016.11.005.
- [1588] **ATLAS** Collaboration, M. Aaboud et al., “Search for new resonances decaying to a W or Z boson and a Higgs boson in the $\ell^+\ell^-b\bar{b}$, $\ell\nu b\bar{b}$, and $\nu\bar{\nu}b\bar{b}$ channels with pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”, *Phys. Lett.* **B765** (2017) 32–52, arXiv:1607.05621. doi:10.1016/j.physletb.2016.11.045.

- [1589] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of forward-backward multiplicity correlations in lead-lead, proton-lead, and proton-proton collisions with the ATLAS detector”, *Phys. Rev.* **C95** (2017), no. 6, 064914, arXiv:1606.08170. doi:10.1103/PhysRevC.95.064914.
- [1590] **ATLAS** Collaboration, P. Balek, “Measurement of the charged-hadron spectra and nuclear modification factor in lead–lead collisions with the ATLAS detector”, *Nucl. Part. Phys. Proc.* **276-278** (2016) 317–320, arXiv:1802.02022. doi:10.1016/j.nuclphysbps.2016.05.073.
- [1591] **ATLAS** Collaboration, M. Aaboud et al., “Measurement of the $t\bar{t}$ production cross-section using $e\mu$ events with b-tagged jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector”, *Phys. Lett.* **B761** (2016) 136–157, arXiv:1606.02699. [Erratum: Phys. Lett.B772,879(2017)]. doi:10.1016/j.physletb.2016.08.019, 10.1016/j.physletb.2017.09.027.
- [1592] **ATLAS** Collaboration, G. Aad et al., “Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector”, *Eur. Phys. J.* **C77** (2017), no. 2, 70, arXiv:1604.07730. doi:10.1140/epjc/s10052-017-4624-0.
- [1593] **ATLAS** Collaboration, G. Aad et al., “Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1”, *Eur. Phys. J.* **C77** (2017) 490, arXiv:1603.02934. doi:10.1140/epjc/s10052-017-5004-5.
- [1594] **ATLAS** Collaboration, G. Aad et al., “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 J. Phys.* **18** (2016), no. 7, 073021, arXiv:1601.05627. [Erratum: New J. Phys.21,no.10,109501(2019)]. doi:10.1088/1367-2630/ab46ed, 10.1088/1367-2630/18/7/073021.
- [1595] **ATLAS** Collaboration, G. Aad et al., “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”, *Eur. Phys. J.* **C76** (2016), no. 2, 87, arXiv:1509.02358. [Erratum: Eur. Phys. J.C77,564(2017)]. doi:10.1140/epjc/s10052-016-3910-6, 10.1140/epjc/s10052-017-5089-x.
- [1596] **ATLAS** Collaboration, L. Sargsyan, J. Andreeva, M. Jha et al., “Dashboard Task Monitor for Managing ATLAS User Analysis on the Grid”, *J. Phys. Conf. Ser.* **513** (2014) 032083, arXiv:1906.05646. doi:10.1088/1742-6596/513/3/032083.
- [1597] M. Davier, A. Hoecker, B. Malaescu et al., “A new evaluation of the hadronic vacuum polarisation contributions to the muon anomalous magnetic moment and to $\alpha(m_Z^2)$ ”, arXiv:1908.00921.
- [1598] M. Davier, A. Hoecker, B. Malaescu et al., “Reevaluation of the hadronic vacuum polarisation contributions to the Standard Model predictions of the muon $g - 2$ and $\alpha(m_Z^2)$ using newest hadronic cross-section data”, *Eur. Phys. J.* **C77** (2017), no. 12, 827, arXiv:1706.09436. doi:10.1140/epjc/s10052-017-5161-6.

- [1599] ATLAS Collaboration, “Prospects for measurement of the top quark mass using $t\bar{t}$ events with $J/\psi \rightarrow \mu^+\mu^-$ decays with the upgraded ATLAS detector at the High Luminosity LHC”, 2018.
- [1600] G.Choudalakis, “Physics of the HL-LHC, and perspectives at the HE-LHC”, arXiv:1902.04070. doi:10.23731/CYRM-2019-007.
- [1601] **ATLAS** Collaboration, “Search for Dark Matter Produced in Association with a Higgs Boson decaying to $b\bar{b}$ at $\sqrt{s} = 13$ TeV with the ATLAS Detector using 79.8 fb^{-1} of proton-proton collision data”, Jul, 2018.
- [1602] **ATLAS** Collaboration, “Object-based missing transverse momentum significance in the ATLAS detector”, Jul, 2018.
- [1603] **ATLAS** Collaboration, “Search for resonances in the 65 to 110 GeV diphoton invariant mass range using 80 fb^{-1} of pp collisions collected at $\sqrt{s} = 13$ TeV with the ATLAS detector”, Jul, 2018.
- [1604] J. Charles, S. Descotes-Genon, J. Ocariz et al., “Disentangling weak and strong interactions in $B \rightarrow K^*(\rightarrow K\pi)\pi$ Dalitz-plot analyses”, *Eur. Phys. J.* **C77** (2017), no. 8, 561, arXiv:1704.01596. doi:10.1140/epjc/s10052-017-5133-x.
- [1605] M. Caicedo et al., “VIRTUAL RESEARCH AND LEARNING COMMUNITIES IN LATIN AMERICA: THE CEVALE2VE CASE”, *Interciencia* **42** (2017), no. 11, 733–738.
- [1606] C. Allaire et al., “Beam test measurements of Low Gain Avalanche Detector single pads and arrays for the ATLAS High Granularity Timing Detector”, *JINST* **13** (2018), no. 06, P06017, arXiv:1804.00622. doi:10.1088/1748-0221/13/06/P06017.
- [1607] A. Collaboration, “A High-Granularity Timing Detector for ATLAS phase 2 upgrade: Initial Design Review document”, Technical Report ATL-COM-LARG-2017-029, CERN, Geneva, Jul, 2017.
- [1608] A. Collaboration, “Technical Proposal: A High-Granularity Timing Detector for the ATLAS Phase-II Upgrade”, Technical Report ATL-COM-LARG-2018-008, CERN, Geneva, Mar, 2018. Draft of Technical Proposal for circulation to ATLAS.
- [1609] A. Collaboration, “Expression of Interest: A High-Granularity Timing Detector for ATLAS Phase-2 Upgrade”, Technical Report ATL-COM-LARG-2017-049, CERN, Geneva, Oct, 2017.
- [1610] G. Calderini et al., “Performance of the FBK/INFN/LPNHE thin active edge pixel detectors for the upgrade of the ATLAS Inner Tracker”, *JINST* **14** (2019), no. 07, C07001. doi:10.1088/1748-0221/14/07/C07001.
- [1611] **RD53** Collaboration, L. Gaioni et al., “Test results and prospects for RD53A, a large scale 65 nm CMOS chip for pixel readout at the HL-LHC”, *Nucl. Instrum. Meth.* **A936** (2019) 282–285. doi:10.1016/j.nima.2018.11.107.

- [1612] G. Calderini et al., “Active-edge FBK-INFN-LPNHE thin n-on-p pixel sensors for the upgrade of the ATLAS Inner Tracker”, *Nucl. Instrum. Meth.* **A936** (2019) 638–639. doi:10.1016/j.nima.2018.10.035.
- [1613] **RD53** Collaboration, E. Monteil et al., “RD53A: a large scale prototype for HL-LHC silicon pixel detector phase 2 upgrades”, *PoS TWEPP2018* (2019) 157. doi:10.22323/1.343.0157.
- [1614] A. Ducourthial et al., “Performance of thin planar $n - on - p$ silicon pixels after HL-LHC radiation fluences”, *Nucl. Instrum. Meth.* **A927** (2019) 219–229, arXiv:1810.07279. doi:10.1016/j.nima.2019.02.033.
- [1615] S. Marconi et al., “Design implementation and test results of the RD53A, a 65 nm large scale chip for next generation pixel detectors at the HL-LHC”, in *Proceedings, 2018 IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC 2018): Sydney, Australia, November 10-17, 2018*, p. 8824486. 2019.
- [1616] **RD53** Collaboration, E. Conti et al., “Development of a Large Pixel Chip Demonstrator in RD53 for ATLAS and CMS Upgrades”, *PoS TWEPP-17* (2017) 005. doi:10.22323/1.313.0005.
- [1617] A. Ducourthial et al., “Thin and edgeless sensors for ATLAS pixel detector upgrade”, *JINST* **12** (2017), no. 12, C12038, arXiv:1710.03557. doi:10.1088/1748-0221/12/12/C12038.
- [1618] M. Bomben et al., “Performance of active edge pixel sensors”, *JINST* **12** (2017), no. 05, P05006, arXiv:1702.01709. doi:10.1088/1748-0221/12/05/P05006.
- [1619] A. Annovi, G. Calderini, S. Capra et al., “Characterization of an Associative Memory Chip in 28 nm CMOS Technology”, in *2018 IEEE International Symposium on Circuits and Systems (ISCAS)*, pp. 1–5. May, 2018.
- [1620] S. Capra, F. Crescioli, L. Frontini et al., “A Digitally-Controlled Ring Oscillator in 28 nm CMOS technology”, in *2018 IEEE International Symposium on Circuits and Systems (ISCAS)*, pp. 1–5. May, 2018.
- [1621] F. Crescioli, L. Frontini, V. Liberali et al., “Design of Non-Metastable SRAM Cells in 28 nm CMOS Technology”, in *2019 IEEE 31st International Conference on Microelectronics (MIEL)*, pp. 243–246. Sep., 2019.