

Papers by TSU Node 2019

1. **“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”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1812.11568 [hep-ex]
CERN-EP-2018-295
2. **“Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1812.09743 [hep-ex]

CERN-EP-2018-301
3. **“Observation of electroweak $W^\pm Z$ boson pair production in association with two jets in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1812.09740 [hep-ex]

CERN-EP-2018-286
4. **“Search for chargino and neutralino production in final states with a Higgs boson and missing transverse momentum at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1812.09432 [hep-ex]

CERN-EP-2018-306
5. **“Properties of $g \rightarrow b\bar{b}$ at small opening angles in pp collisions with the ATLAS detector at $\sqrt{s} = 13 \text{ TeV}$ ”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1812.09283 [hep-ex]
CERN-EP-2018-323
6. **“Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1812.07343 [hep-ex]

CERN-EP-2018-226
7. **“Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1812.03848 [hep-ex]

CERN-EP-2018-296
8. **“Search for heavy long-lived multi-charged particles in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ using the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1812.03673 [hep-ex]

CERN-EP-2018-284

9. **“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”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1812.03017 [hep-ex]

CERN-EP-2018-291

10. **“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”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1812.01697 [hep-ex]

CERN-EP-2018-302

11. **“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”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1811.12113 [hep-ex]
CERN-EP-2018-276

12. **“Search for Higgs boson pair production in the $WW^{(*)}WW^{(*)}$ decay channel using ATLAS data recorded at $\sqrt{s} = 13$ TeV”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1811.11028 [hep-ex]

CERN-EP-2018-227

13. **“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”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1811.11094 [hep-ex]

CERN-EP-2018-274

14. **“Cross-section measurements of the Higgs boson decaying into a pair of τ -leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1811.08856 [hep-ex]

CERN-EP-2018-232

15. **“Search for long-lived particles produced in pp collisions at $\sqrt{s} = 13$ TeV that decay into displaced hadronic jets in the ATLAS muon spectrometer”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1811.07370 [hep-ex]

CERN-EP-2018-241

16. **“Search for Higgs boson pair production in the $b\bar{b}WW^*$ decay mode at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1811.04671 [hep-ex]
CERN-EP-2018-237

17. **“Search for four-top-quark production in the single-lepton and opposite-sign dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].

arXiv:1811.02305 [hep-ex]

CERN-EP-2018-174

18. **“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”**

M. Aaboud *et al.* [ATLAS Collaboration].

arXiv:1811.02542 [hep-ex]

CERN-EP-2018-275

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

M. Aaboud *et al.* [ATLAS Collaboration].

arXiv:1810.08424 [hep-ex]

CERN-EP-2018-259

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

M. Aaboud *et al.* [ATLAS Collaboration].

arXiv:1810.05087 [hep-ex]

CERN-EP-2018-216

21. **“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”**

M. Aaboud *et al.* [ATLAS Collaboration].

arXiv:1810.04995 [hep-ex]

DOI:10.1007/JHEP12(2018)010

JHEP **1812**, 010 (2018)

CERN-EP-2018-220

22. **“Comparison between simulated and observed LHC beam backgrounds in the ATLAS experiment at $E_{\text{beam}} = 4$ TeV”**

M. Aaboud *et al.* [ATLAS Collaboration].

arXiv:1810.04450 [hep-ex]

DOI:10.1088/1748-0221/13/12/P12006

JINST **13**, no. 12, P12006 (2018)

CERN-EP-2018-240

23. **“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”**

M. Aaboud *et al.* [ATLAS Collaboration].

arXiv:1810.01772 [hep-ex]

CERN-EP-2018-238

24. **“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”**

M. Aaboud *et al.* [ATLAS Collaboration].

arXiv:1809.11105 [hep-ex]

DOI:10.1007/JHEP01(2019)016

JHEP **1901**, 016 (2019)

CERN-EP-2018-199

25. **“Measurement of photonjet transverse momentum correlations in 5.02 TeV Pb + Pb and pp collisions with ATLAS”**

M. Aaboud *et al.* [ATLAS Collaboration].

arXiv:1809.07280 [nucl-ex]

DOI:10.1016/j.physletb.2018.12.023
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