

Papers by Giuseppe Salamanna

1. **“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”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1610.09978 [hep-ex]
CERN-EP-2016-218
2. **“Solar, supernova, atmospheric and geo neutrino studies using JUNO detector”**
W. l. Guo, R. Han, Y. Li and G. Salamanna.
arXiv:1610.09508 [hep-ex]
To appear in ICHEP 2016 proceedings, Proc of Science
3. **“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”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1610.09303 [hep-ex]
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4. **“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”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1610.07869 [hep-ex]
CERN-EP-2016-221
5. **“Measurement of the ZZ production cross section in pp 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”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1610.07585 [hep-ex]
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6. **“Search for triboson $W^\pm W^\pm W^\mp$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1610.05088 [hep-ex]
CERN-EP-2016-172
7. **“Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s} = 8$ TeV proton-proton collisions in the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1609.09324 [hep-ex]
CERN-EP-2016-134
8. **“Measurement of W boson angular distributions in events with high transverse momentum jets at $\sqrt{s} = 8$ TeV using the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1609.07045 [hep-ex]
CERN-EP-2016-182
9. **“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”**

- M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1609.06213 [nucl-ex]
CERN-EP-2016-200
10. **“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”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1609.05122 [hep-ex]
CERN-EP-2016-171
 11. **“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”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1609.04572 [hep-ex]
CERN-EP-2016-181
 12. **“A measurement of material in the ATLAS tracker using secondary hadronic interactions in 7 TeV pp collisions”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1609.04305 [hep-ex]
CERN-EP-2016-137
 13. **“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”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1609.03920 [hep-ex]
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M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1609.01599 [hep-ex]
CERN-EP-2016-185
 15. **“Luminosity determination in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector at the LHC”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1608.03953 [hep-ex]
CERN-EP-2016-117
 16. **“Measurement of W^+W^- production in association with one jet in proton–proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1608.03086 [hep-ex]
DOI:10.1016/j.physletb.2016.10.014
Phys. Lett. B **763**, 114 (2016)
CERN-EP-2016-186
 17. **“Search for dark matter produced in association with a hadronically decaying vector boson in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1608.02372 [hep-ex]
DOI:10.1016/j.physletb.2016.10.042
CERN-EP-2016-180
 18. **“Study of hard double-parton scattering in four-jet events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1608.01857 [hep-ex]
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19. **“Search for Minimal Supersymmetric Standard Model Higgs bosons H/A and for a Z' boson in the $\tau\tau$ final state produced in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1608.00890 [hep-ex]
CERN-EP-2016-164
20. **“Dark matter interpretations of ATLAS searches for the electroweak production of supersymmetric particles in $\sqrt{s} = 8$ TeV proton-proton collisions”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1608.00872 [hep-ex]
DOI:10.1007/JHEP09(2016)175
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CERN-EP-2016-165
21. **“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”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1607.08842 [hep-ex]
CERN-EP-2016-149
22. **“Measurement of the $b\bar{b}$ dijet cross section in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1607.08430 [hep-ex]
CERN-EP-2016-091
23. **“Search for new phenomena in different-flavour high-mass dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1607.08079 [hep-ex]
DOI:10.1140/epjc/s10052-016-4385-1
Eur. Phys. J. C **76**, no. 10, 541 (2016)
CERN-EP-2016-168
24. **“Measurement of top quark pair differential cross-sections in the dilepton channel in pp collisions at $\sqrt{s} = 7$ and 8 TeV with ATLAS”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1607.07281 [hep-ex]
CERN-EP-2016-144
25. **“Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1607.06605 [hep-ex]
DOI:10.1016/j.physletb.2016.08.020
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CERN-EP-2016-158
26. **“Search for heavy resonances decaying to a Z boson and a photon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1607.06363 [hep-ex]
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27. **“Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV recorded with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1607.05979 [hep-ex]
CERN-EP-2016-145

28. **“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”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1607.05621 [hep-ex]
CERN-EP-2016-148
29. **“Measurement of exclusive $\gamma\gamma \rightarrow W^+W^-$ production and search for exclusive Higgs boson production in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1607.03745 [hep-ex]
DOI:10.1103/PhysRevD.94.032011
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30. **“Search for high-mass new phenomena in the dilepton final state using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1607.03669 [hep-ex]
DOI:10.1016/j.physletb.2016.08.055
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CERN-EP-2016-116
31. **“Search for Higgs and Z Boson Decays to $\phi\gamma$ with the ATLAS Detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1607.03400 [hep-ex]
DOI:10.1103/PhysRevLett.117.111802
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CERN-EP-2016-130
32. **“Measurement of jet activity in top quark events using the $e\mu$ final state with two b -tagged jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.09490 [hep-ex]
DOI:10.1007/JHEP09(2016)074
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CERN-EP-2016-122
33. **“Search for supersymmetry in a final state containing two photons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions at the LHC using the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.09150 [hep-ex]
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Eur. Phys. J. C **76**, no. 9, 517 (2016)
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34. **“Search for bottom squark pair production in protonproton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.08772 [hep-ex]
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Eur. Phys. J. C **76**, no. 10, 547 (2016)
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35. **“Search for the Higgs boson produced in association with a W boson and decaying to four b -quarks via two spin-zero particles in pp collisions at 13 TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.08391 [hep-ex]
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36. **“Measurement of forward-backward multiplicity correlations in lead-lead, proton-lead and proton-proton collisions with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.08170 [hep-ex]
CERN-EP-2016-124
37. **“The performance of the jet trigger for the ATLAS detector during 2011 data taking”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1606.07759 [hep-ex]
DOI:10.1140/epjc/s10052-016-4325-0
Eur. Phys. J. C **76**, no. 10, 526 (2016)
CERN-EP-2016-031
38. **“Search for heavy long-lived charged R -hadrons with the ATLAS detector in 3.2 fb^{-1} of proton-proton collision data at $\sqrt{s} = 13 \text{ TeV}$ ”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.05129 [hep-ex]
DOI:10.1016/j.physletb.2016.07.042
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39. **“Searches for heavy diboson resonances in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.04833 [hep-ex]
DOI:10.1007/JHEP09(2016)173
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CERN-EP-2016-106
40. **“Search for pair production of Higgs bosons in the $b\bar{b}b\bar{b}$ final state using proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
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41. **“Measurement of the $W^{\pm}Z$ boson pair-production cross section in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS Detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.04017 [hep-ex]
DOI:10.1016/j.physletb.2016.08.052
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CERN-EP-2016-108
42. **“Search for new resonances in events with one lepton and missing transverse momentum in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
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DOI:10.1016/j.physletb.2016.09.040
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CERN-EP-2016-143, CERN-PH-2016-143
43. **“Search for top squarks in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.03903 [hep-ex]
DOI:10.1103/PhysRevD.94.052009
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44. **“Search for resonances in diphoton events at $\sqrt{s}=13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.03833 [hep-ex]
DOI:10.1007/JHEP09(2016)001
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45. **“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”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.02699 [hep-ex]
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46. **“Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s} = 13$ TeV with the ATLAS Detector at the LHC”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.02625 [hep-ex]
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47. **“Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at $\sqrt{s} = 7$ and 8 TeV”**
G. Aad *et al.* [ATLAS and CMS Collaborations].
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CERN-EP-2016-100, ATLAS-HIGG-2015-07, CMS-HIG-15-002
48. **“Search for TeV-scale gravity signatures in high-mass final states with leptons and jets with the ATLAS detector at $\sqrt{s} = 13$ TeV”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.02265 [hep-ex]
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CERN-EP-2016-109
49. **“Search for the Standard Model Higgs boson produced by vector-boson fusion in 8 TeV pp collisions and decaying to bottom quarks with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.02181 [hep-ex]
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50. **“Measurement of the top quark mass in the $t\bar{t} \rightarrow$ dilepton channel from $\sqrt{s} = 8$ TeV ATLAS data”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.02179 [hep-ex]
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CERN-EP-2016-114
51. **“Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.01813 [hep-ex]
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52. **“Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1606.01736 [hep-ex]
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53. **“Charged-particle distributions at low transverse momentum in $\sqrt{s} = 13$ TeV pp interactions measured with the ATLAS detector at the LHC”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1606.01133 [hep-ex]
DOI:10.1140/epjc/s10052-016-4335-y
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54. **“Measurement of the angular coefficients in Z-boson events using electron and muon pairs from data taken at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1606.00689 [hep-ex]
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55. **“Search for pair production of gluinos decaying via stop and sbottom in events with b-jets and large missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1605.09318 [hep-ex]
DOI:10.1103/PhysRevD.94.032003
Phys. Rev. D **94**, no. 3, 032003 (2016)
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56. **“Measurement of the relative width difference of the B^0 - \bar{B}^0 system with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1605.07485 [hep-ex]
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57. **“Transverse momentum, rapidity, and centrality dependence of inclusive charged-particle production in $\sqrt{s_{NN}} = 5.02$ TeV p+Pb collisions measured by the ATLAS experiment”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1605.06436 [hep-ex]
CERN-EP-2016-077
58. **“Search for scalar leptoquarks in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS experiment”**
M. Aaboud *et al.* [ATLAS Collaboration].
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59. **“Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
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60. **“Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
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61. **“Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1605.03495 [hep-ex]
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CERN-EP-2016-035
62. **“Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].
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63. **“Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1604.07730 [hep-ex]
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64. **“Measurements of the charge asymmetry in top-quark pair production in the dilepton final state at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1604.05538 [hep-ex]
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65. **“Measurements of $Z\gamma$ and $Z\gamma\gamma$ production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
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66. **“Search for metastable heavy charged particles with large ionization energy loss in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS experiment”**
M. Aaboud *et al.* [ATLAS Collaboration].
arXiv:1604.04520 [hep-ex]
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CERN-EP-2016-063
67. **“Study of the rare decays of B_s^0 and B^0 into muon pairs from data collected during the LHC Run 1 with the ATLAS detector”**
M. Aaboud *et al.* [ATLAS Collaboration].

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68. **“Search for the Standard Model Higgs boson decaying into $b\bar{b}$ produced in association with top quarks decaying hadronically in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector”**
 G. Aad *et al.* [ATLAS Collaboration].
 arXiv:1604.03812 [hep-ex]
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 CERN-EP-2016-058
 69. **“Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to WW with the ATLAS detector at $\sqrt{s} = 8$ TeV”**
 G. Aad *et al.* [ATLAS Collaboration].
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 70. **“Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
 M. Aaboud *et al.* [ATLAS Collaboration].
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 71. **“Measurement of W^\pm and Z-boson production cross sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector”**
 G. Aad *et al.* [ATLAS Collaboration].
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 72. **“Search for charged Higgs bosons produced in association with a top quark and decaying via $H^\pm \rightarrow \tau\nu$ using pp collision data recorded at $\sqrt{s} = 13$ TeV by the ATLAS detector”**
 M. Aaboud *et al.* [ATLAS Collaboration].
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 73. **“Beam-induced and cosmic-ray backgrounds observed in the ATLAS detector during the LHC 2012 proton-proton running period”**
 G. Aad *et al.* [ATLAS Collaboration].
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 DOI:10.1088/1748-0221/11/05/P05013
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 74. **“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”**
 M. Aaboud *et al.* [ATLAS Collaboration].
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75. **“Muon reconstruction performance of the ATLAS detector in protonproton collision data at $\sqrt{s} = 13\text{TeV}$ ”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1603.05598 [hep-ex]
DOI:10.1140/epjc/s10052-016-4120-y
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76. **“Identification of high transverse momentum top quarks in pp collisions at $\sqrt{s} = 8\text{ TeV}$ with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
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77. **“Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1603.02934 [hep-ex]
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78. **“Charged-particle distributions in pp interactions at $\sqrt{s} = 8\text{ TeV}$ measured with the ATLAS detector”**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1603.02439 [hep-ex]
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