

# Giacomo Artoni

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

1,007  
papers

41,411  
citations

89  
h-index

156  
g-index

1,054  
ext. papers

47,538  
ext. citations

4.8  
avg, IF

4.39  
L-index

| #    | Paper   | IF  | Citations |
|------|---|-----|-----------|
| 1007 | Emulating the impact of additional proton-proton interactions in the ATLAS simulation by presampling sets of inelastic Monte Carlo events. <i>Computing and Software for Big Science</i> , <b>2022</b> , 6, 1   | 6   | 0         |
| 1006 | Search for heavy particles in the b-tagged dijet mass distribution with additional b-tagged jets in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS experiment. <i>Physical Review D</i> , <b>2022</b> , 105,  | 4.9 | 1         |
| 1005 | Performance of the ATLAS Level-1 topological trigger in Run2. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1  | 4.2 | 0         |
| 1004 | Operation and performance of the ATLAS semiconductor tracker in LHC Run2. <i>Journal of Instrumentation</i> , <b>2022</b> , 17, P01013  | 1   | 1         |
| 1003 | Search for Higgs boson decays into a pair of pseudoscalar particles in the $b\bar{b}$ final state with the ATLAS detector in pp collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2022</b> , 105,  | 4.9 | 1         |
| 1002 | Search for exotic decays of the Higgs boson into $b\bar{b}$ and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1  | 5.4 | 0         |
| 1001 | Observation of electroweak production of two jets in association with an isolated photon and missing transverse momentum, and search for a Higgs boson decaying into invisible particles at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1 | 4.2 | 0         |
| 1000 | Search for new phenomena in three- or four-lepton events in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2022</b> , 824, 136832   | 4.2 | 0         |
| 999  | Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fb <sup>-1</sup> of pp collision data at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1                                   | 5.4 | 0         |
| 998  | AtlFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , <b>2022</b> , 6, 1   | 6   | 0         |
| 997  | Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow \tau^{\pm} \rightarrow \pi^{\pm} \nu_{\tau} \nu_{\tau}$ events in Run2 data. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1  | 4.2 | 0         |
| 996  | The ATLAS inner detector trigger performance in pp collisions at $\sqrt{s}=13$ TeV during LHC Run 2. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1   | 4.2 |           |
| 995  | Search for associated production of a Z boson with an invisibly decaying Higgs boson or dark matter candidates at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2022</b> , 137066                     | 4.2 | 0         |
| 994  | Measurement of the nuclear modification factor for muons from charm and bottom hadrons in Pb+Pb collisions at 5.02 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2022</b> , 137077                                  | 4.2 | 0         |
| 993  | A search for an unexpected asymmetry in the production of $e^+e^-$ pairs in proton-proton collisions recorded by the ATLAS detector at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2022</b> , 137106                        | 4.2 |           |
| 992  | Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7, 8$ and $13$ TeV. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1  | 4.2 | 1         |
| 991  | Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using ( $\sqrt{s} = 13$ TeV) proton-proton collision data. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2 | 2         |

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| 990 | Measurement of the $t(\overline{t})t(\overline{t})$ production cross section in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4 | 0 |
| 989 | Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 2 |
| 988 | Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1  | 4.2 | 7 |
| 987 | Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb of Pb+Pb data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4 | 5 |
| 986 | Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4 | 1 |
| 985 | Search for Dark Matter Produced in Association with a Dark Higgs Boson Decaying into $W^{\pm}W^{\pm}$ or ZZ in Fully Hadronic Final States from $\sqrt{s}=13$ TeV pp Collisions Recorded with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2021</b> , 126, 121802   | 7.4 | 2 |
| 984 | Longitudinal Flow Decorrelations in Xe+Xe Collisions at $\sqrt{s_{NN}}=5.44$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2021</b> , 126, 122301   | 7.4 | 2 |
| 983 | Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4 | 6 |
| 982 | Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 8 |
| 981 | Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2 | 5 |
| 980 | Measurement of the CP-violating phase $\phi_{s\bar{s}}$ in $B_{s}^{0} \rightarrow J/\psi \phi$ decays in ATLAS at 13 TeV. <i>European Physical Journal C</i> , <b>2021</b> , 81,   | 4.2 | 1 |
| 979 | Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1  | 4.2 | 2 |
| 978 | Search for heavy resonances decaying into a pair of Z bosons in the $(\ell\ell^+\ell\ell^-)$ and $(\ell\ell^+\ell\ell^-\nu\bar{\nu})$ final states using 139 fb <sup>-1</sup> of proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1 | 4.2 | 8 |
| 977 | Search for new phenomena in final states with b-jets and missing transverse momentum in ( $\sqrt{s}$ ) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 6 |
| 976 | Measurement of the associated production of a Higgs boson decaying into b-quarks with a vector boson at high transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 816, 136204    | 4.2 | 5 |
| 975 | Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $(\ell\ell b\bar{b})$ and $(\ell\ell WW)$ final states in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1                                       | 4.2 | 7 |
| 974 | Observation of photon-induced $W+W$ production in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 816, 136190   | 4.2 | 0 |
| 973 | Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4 | 3 |

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| 972 | Search for new phenomena in events with an energetic jet and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2021</b> , 103,  | 4.9  | 10 |
| 971 | Measurements of $W+W\bar{W}$ $\pm$ jet production cross-sections in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4  | 0  |
| 970 | Search for charged Higgs bosons decaying into a top quark and a bottom quark at $(\sqrt{\text{mathrm}\{s\}}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4  | 8  |
| 969 | Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $(\sqrt{s}=13,\text{text}\{\text{TeV}\})$ . <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2  | 0  |
| 968 | Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a lepton in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                                  | 5.4  | 6  |
| 967 | Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector. <i>Nature Physics</i> , <b>2021</b> , 17, 819-825   | 16.2 | 4  |
| 966 | Search for Displaced Leptons in $\sqrt{s}=13$ TeV pp Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2021</b> , 127, 051802  | 7.4  | 2  |
| 965 | Test of the universality of $\tau$ and lepton couplings in W-boson decays with the ATLAS detector. <i>Nature Physics</i> , <b>2021</b> , 17, 813-818   | 16.2 | 1  |
| 964 | Two-particle azimuthal correlations in photonuclear ultraperipheral Pb+Pb collisions at 5.02 TeV with ATLAS. <i>Physical Review C</i> , <b>2021</b> , 104,   | 2.7  | 2  |
| 963 | Search for supersymmetry in events with four or more charged leptons in 139 fb $^{-1}$ of $(\sqrt{s}) = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4  | 2  |
| 962 | Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W\bar{W}$ and Z boson production in association with jets. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4  | 1  |
| 961 | Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4  | 0  |
| 960 | A search for the decays of stopped long-lived particles at $(\sqrt{\text{mathrm}\{s\}}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4  | 1  |
| 959 | Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $(\sqrt{s}=13)$ TeV. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2  | 13 |
| 958 | Performance of the ATLAS RPC detector and Level-1 muon barrel trigger at $(\sqrt{s})=13$ TeV. <i>Journal of Instrumentation</i> , <b>2021</b> , 16, P07029   | 1    | 1  |
| 957 | Measurement of hadronic event shapes in high-pT multijet final states at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4  | 3  |
| 956 | A search for the dimuon decay of the Standard Model Higgs boson with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 812, 135980   | 4.2  | 21 |
| 955 | Measurement of the jet mass in high transverse momentum $Z(\rightarrow b\bar{b})\rightarrow$ production at $\sqrt{s}=13$ TeV using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 812, 135991 | 4.2  |    |

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| 954 | Medium-Induced Modification of Z-Tagged Charged Particle Yields in Pb+Pb Collisions at 5.02 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2021</b> , 126, 072301   | 7.4 | 3  |
| 953 | Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb <sup>-1</sup> of ( $\sqrt{s}$ ) = 13 TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1         | 5.4 | 8  |
| 952 | Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2 | 5  |
| 951 | Measurements of WH and ZH production in the (H $\rightarrow$ $\bar{b}b$ ) decay channel in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2 | 7  |
| 950 | Search for dark matter in association with an energetic photon in pp collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 5  |
| 949 | Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1                                     | 4.2 | 0  |
| 948 | The ATLAS Fast Tracker system. <i>Journal of Instrumentation</i> , <b>2021</b> , 16, P07006   | 1   | 0  |
| 947 | Measurement of single top-quark production in association with a W boson in the single-lepton channel at ( $\sqrt{s}$ ) = 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2 | 1  |
| 946 | Jet energy scale and resolution measured in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2 | 11 |
| 945 | Evidence for Higgs boson decays to a low-mass dilepton system and a photon in pp collisions at $\sqrt{s}$ = 13 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 819, 136412 | 4.2 | 2  |
| 944 | Measurements of sensor radiation damage in the ATLAS inner detector using leakage currents. <i>Journal of Instrumentation</i> , <b>2021</b> , 16, P08025  | 1   | 1  |
| 943 | Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a Z boson at ( $\sqrt{s}$ ) = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1               | 4.2 | 1  |
| 942 | Exclusive dimuon production in ultraperipheral Pb+Pb collisions at $\sqrt{s_{NN}}$ = 5.02 TeV with ATLAS. <i>Physical Review C</i> , <b>2021</b> , 104,   | 2.7 | 2  |
| 941 | Search for New Phenomena in Final States with Two Leptons and One or No b-Tagged Jets at $\sqrt{s}$ = 13 TeV Using the ATLAS Detector. <i>Physical Review Letters</i> , <b>2021</b> , 127, 141801   | 7.4 | 1  |
| 940 | Search for dark matter produced in association with a single top quark in ( $\sqrt{s}$ ) = 13 TeV (pp) collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2 | 4  |
| 939 | Search for resonances decaying into photon pairs in 139 fb <sup>-1</sup> of pp collisions at $\sqrt{s}$ = 13 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 822, 136651   | 4.2 | 3  |
| 938 | Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at ( $\sqrt{s}$ ) = 13 TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                   | 5.4 | 2  |
| 937 | Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1  | 4.2 | 1  |

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| 936 | Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                                      | 5.4 | 0  |
| 935 | Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 0  |
| 934 | Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV using displaced vertices in the ATLAS inner detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                                | 5.4 | 0  |
| 933 | Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1                         | 4.2 | 1  |
| 932 | Configuration and performance of the ATLAS b-jet triggers in Run 2. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2 | 1  |
| 931 | Search for Lepton-Flavor Violation in Z-Boson Decays with $n$ Leptons with the ATLAS Detector.. <i>Physical Review Letters</i> , <b>2021</b> , 127, 271801   | 7.4 | 0  |
| 930 | Search for new phenomena in pp collisions in final states with tau leptons, b-jets, and missing transverse momentum with the ATLAS detector. <i>Physical Review D</i> , <b>2021</b> , 104,   | 4.9 | 1  |
| 929 | Measurement of b-quark fragmentation properties in jets using the decay $B \rightarrow \tau \nu$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                                  | 5.4 | 0  |
| 928 | Performance of the upgraded PreProcessor of the ATLAS Level-1 Calorimeter Trigger. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P11016-P11016   | 1   | 2  |
| 927 | Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $(\sqrt{s}) = 13$ TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1 | 5.4 | 7  |
| 926 | Search for Higgs boson decays into two new low-mass spin-0 particles in the 4b channel with the ATLAS detector using pp collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2020</b> , 102,  | 4.9 | 9  |
| 925 | Search for Higgs Boson Decays into a Z Boson and a Light Hadronically Decaying Resonance Using 13 TeV pp Collision Data from the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 125, 221802  | 7.4 | 6  |
| 924 | Higgs boson production cross-section measurements and their EFT interpretation in the (4ell) decay channel at $(\sqrt{s})=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 12 |
| 923 | Search for heavy neutral Higgs bosons produced in association with b-quarks and decaying into b-quarks at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2020</b> , 102,  | 4.9 | 10 |
| 922 | Search for long-lived, massive particles in events with a displaced vertex and a muon with large impact parameter in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2020</b> , 102,  | 4.9 | 12 |
| 921 | Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $(\sqrt{s}) = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 8  |
| 920 | Search for chargino-neutralino production with mass splittings near the electroweak scale in three-lepton final states in $s=13$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , <b>2020</b> , 101,  | 4.9 | 17 |
| 919 | ATLAS data quality operations and performance for 2015-2018 data-taking. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P04003-P04003   | 1   | 16 |

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| 918 | Measurement of the Lund Jet Plane Using Charged Particles in 13 TeV Proton-Proton Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 124, 222002  | 7.4 | 4  |
| 917 | Test of CP invariance in vector-boson fusion production of the Higgs boson in the H-channel in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 805, 135426 | 4.2 | 5  |
| 916 | Measurement of Azimuthal Anisotropy of Muons from Charm and Bottom Hadrons in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 124, 082301  | 7.4 | 8  |
| 915 | Measurement of the $t\bar{t}$ production cross-section and lepton differential distributions in $\mu\mu$ dilepton events from pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80,  | 4.2 | 9  |
| 914 | Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb of data collected with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 8  |
| 913 | Search for dijet resonances in events with an isolated charged lepton using $(\sqrt{s}) = 13$ TeV proton-proton collision data collected by the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 3  |
| 912 | Z boson production in Pb+Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV measured by the ATLAS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 802, 135262  | 4.2 | 5  |
| 911 | Search for Magnetic Monopoles and Stable High-Electric-Charge Objects in 13 TeV Proton-Proton Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 124, 031802  | 7.4 | 15 |
| 910 | Measurement of the $Z(\rightarrow\mu\mu)$ production cross-section in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 2  |
| 909 | Measurement of long-range two-particle azimuthal correlations in Z-boson tagged pp collisions at $(\sqrt{s}=8)$ and 13 TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 3  |
| 908 | Transverse momentum and process dependent azimuthal anisotropies in $(\sqrt{s_{\text{NN}}}=8.16)$ TeV p+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1   | 4.2 | 7  |
| 907 | Search for resonances decaying into a weak vector boson and a Higgs boson in the fully hadronic final state produced in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2020</b> , 102,  | 4.9 | 6  |
| 906 | Search for Heavy Resonances Decaying into a Photon and a Hadronically Decaying Higgs Boson in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 125, 251802  | 7.4 | 3  |
| 905 | Observation and Measurement of Forward Proton Scattering in Association with Lepton Pairs Produced via the Photon Fusion Mechanism at ATLAS. <i>Physical Review Letters</i> , <b>2020</b> , 125, 261801   | 7.4 | 5  |
| 904 | Performance of electron and photon triggers in ATLAS during LHC Run 2. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1   | 4.2 | 30 |
| 903 | Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in $(\sqrt{s}=13)$ TeV pp collisions using the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1                           | 4.2 | 50 |
| 902 | Search for top squarks in events with a Higgs or Z boson using 139 fb of pp collision data at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1   | 4.2 | 1  |
| 901 | Evidence for $(t\bar{t})$ production in the multilepton final state in proton-proton collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 8  |

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| 900 | Search for heavy diboson resonances in semileptonic final states in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 4   |
| 899 | 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. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1   | 4.2 | 8   |
| 898 | Search for a scalar partner of the top quark in the all-hadronic ( $t\bar{t}$ ) plus missing transverse momentum final state at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1   | 4.2 | 17  |
| 897 | Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 4   |
| 896 | Determination of jet calibration and energy resolution in proton-proton collisions at ( $\sqrt{s} = 8$ TeV) using the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 3   |
| 895 | Measurement of $J/\psi$ production in association with a $W$ boson with pp data at 8 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 4   |
| 894 | Search for new resonances in mass distributions of jet pairs using 139 fb <sup>-1</sup> of pp collisions at ( $\sqrt{s} = 13$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 20  |
| 893 | Search for ( $\overline{t}$ ) resonances in fully hadronic final states in pp collisions at ( $\sqrt{s} = 13$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 6   |
| 892 | Reconstruction and identification of boosted di- $\tau$ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 3   |
| 891 | Evidence for electroweak production of two jets in association with a $Z$ pair in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 803, 135341  | 4.2 | 5   |
| 890 | Combined measurements of Higgs boson production and decay using up to 80 fb <sup>-1</sup> of proton-proton collision data at $s=13$ TeV collected with the ATLAS experiment. <i>Physical Review D</i> , <b>2020</b> , 101,  | 4.9 | 121 |
| 889 | Search for displaced vertices of oppositely charged leptons from decays of long-lived particles in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 801, 135114                       | 4.2 | 10  |
| 888 | Search for non-resonant Higgs boson pair production in the $b\bar{b}$ final state with the ATLAS detector in pp collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 801, 135145                                     | 4.2 | 4   |
| 887 | Search for the Higgs boson decays $H \rightarrow e\bar{e}$ and $H \rightarrow \mu\bar{\mu}$ in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 801, 135143                           | 4.2 | 9   |
| 886 | Searches for lepton-flavour-violating decays of the Higgs boson in $s=13$ TeV pp collisions with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 800, 135069  | 4.2 | 13  |
| 885 | Search for flavour-changing neutral currents in processes with one top quark and a photon using 81 fb <sup>-1</sup> of pp collisions at $s=13$ TeV with the ATLAS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 800, 135082 | 4.2 | 6   |
| 884 | Combination of searches for Higgs boson pairs in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 800, 135103   | 4.2 | 24  |
| 883 | A search for the $Z$ decay mode of the Higgs boson in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 809, 135734  | 4.2 | 9   |



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| 882 | Dijet Resonance Search with Weak Supervision Using $\sqrt{s}=13$ TeV pp Collisions in the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 125, 131801  | 7.4 | 15 |
| 881 | Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in Pb+Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 807, 135595             | 4.2 | 2  |
| 880 | Measurements of inclusive and differential cross-sections of combined ( $\overline{t}\gamma$ ) and $tW$ production in the $e\ell$ channel at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 2  |
| 879 | Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 8  |
| 878 | Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 9  |
| 877 | Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $4(\ell\ell)$ decay channel at $(\sqrt{s}) = 13$ TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 9  |
| 876 | Measurement of the $t\bar{t}$ production cross-section in the lepton+jets channel at $s=13$ TeV with the ATLAS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 810, 135797                                      | 4.2 | 4  |
| 875 | Fluctuations of anisotropic flow in Pb+Pb collisions at $(\sqrt{\{s\}}_{\{NN\}}) = 5.02$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 13 |
| 874 | Performance of the ATLAS muon triggers in Run 2. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P09015-P09015  | 1   | 13 |
| 873 | 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. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1 | 4.2 | 13 |
| 872 | Measurement of differential cross sections for single diffractive dissociation in $(\sqrt{s}) = 8$ TeV pp collisions using the ATLAS ALFA spectrometer. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 1  |
| 871 | Measurement of isolated-photon plus two-jet production in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 2  |
| 870 | CP Properties of Higgs Boson Interactions with Top Quarks in the $t\bar{t}\overline{H}$ and $tH$ Processes Using H $\rightarrow b\bar{b}$ with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2020</b> , 125, 061802   | 7.4 | 15 |
| 869 | Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 5  |
| 868 | Search for the $HH \rightarrow \overline{b}b$ process via vector-boson fusion production using proton-proton collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 5  |
| 867 | 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. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 5  |
| 866 | Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 7  |
| 865 | Search for Heavy Higgs Bosons Decaying into Two Tau Leptons with the ATLAS Detector Using pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2020</b> , 125, 051801  | 7.4 | 30 |

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| 864 | Searches for electroweak production of supersymmetric particles with compressed mass spectra in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , <b>2020</b> , 101,  | 4.9 | 31 |
| 863 | Measurement of the azimuthal anisotropy of charged-particle production in Xe+Xe collisions at $\sqrt{s_{NN}}=5.44$ TeV with the ATLAS detector. <i>Physical Review C</i> , <b>2020</b> , 101,   | 2.7 | 12 |
| 862 | Search for direct stau production in events with two hadronic leptons in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , <b>2020</b> , 101,   | 4.9 | 13 |
| 861 | 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. <i>Physical Review D</i> , <b>2020</b> , 101,   | 4.9 | 11 |
| 860 | Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1                           | 5.4 | 1  |
| 859 | Measurement of soft-drop jet observables in pp collisions with the ATLAS detector at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2020</b> , 101,   | 4.9 | 11 |
| 858 | Measurements of top-quark pair spin correlations in the $(e\mu)$ channel at $(\sqrt{s} = 13)$ TeV using pp collisions in the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1   | 4.2 | 8  |
| 857 | Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at $(\sqrt{s}=8\text{--}13\text{ TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 11 |
| 856 | Properties of jet fragmentation using charged particles measured with the ATLAS detector in pp collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 100,   | 4.9 | 2  |
| 855 | 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. <i>Physical Review Letters</i> , <b>2019</b> , 123, 161801  | 7.4 | 26 |
| 854 | Measurement of jet-substructure observables in top quark, W boson and light jet production in proton-proton collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 8  |
| 853 | Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $(\sqrt{s} = 13)$ (text {TeV}). <i>European Physical Journal C</i> , <b>2019</b> , 79, 1   | 4.2 | 37 |
| 852 | 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. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 2  |
| 851 | Evidence for the production of three massive vector bosons with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 798, 134913   | 4.2 | 5  |
| 850 | 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. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 788, 347-370 | 4.2 | 7  |
| 849 | Search for long-lived particles in final states with displaced dimuon vertices in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2019</b> , 99,  | 4.9 | 13 |
| 848 | Correlated long-range mixed-harmonic fluctuations measured in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 789, 444-471  | 4.2 | 14 |
| 847 | Observation of electroweak $W\Xi Z$ boson pair production in association with two jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 793, 469-492                          | 4.2 | 22 |

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| 846 | Search for invisible Higgs boson decays in vector boson fusion at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 793, 499-519                          | 4.2 | 21 |
| 845 | Search for single production of vector-like quarks decaying into $Wb$ in pp collisions at $(\sqrt{s}) = 13\text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 14 |
| 844 | Combinations of single-top-quark production cross-section measurements and $ \text{fLVVtb} $ determinations at $(\sqrt{s}) = 7$ and $8\text{ TeV}$ with the ATLAS and CMS experiments. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1             | 5.4 | 5  |
| 843 | Search for top-quark decays $t \rightarrow Hq$ with $36\text{ fb}^{-1}$ of pp collision data at $(\sqrt{s}) = 13\text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 13 |
| 842 | Measurement of $VH, (\text{H}) \rightarrow \text{b}\overline{\text{b}}$ production as a function of the vector-boson transverse momentum in $13\text{ TeV}$ pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1 | 5.4 | 8  |
| 841 | . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 9  |
| 840 | . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 10 |
| 839 | Search for heavy long-lived multicharged particles in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ using the ATLAS detector. <i>Physical Review D</i> , <b>2019</b> , 99,  | 4.9 | 7  |
| 838 | Properties of $g\text{-bb}$ at small opening angles in pp collisions with the ATLAS detector at $\sqrt{s}=13\text{ TeV}$ . <i>Physical Review D</i> , <b>2019</b> , 99,  | 4.9 | 2  |
| 837 | Cross-section measurements of the Higgs boson decaying into a pair of leptons in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. <i>Physical Review D</i> , <b>2019</b> , 99,  | 4.9 | 29 |
| 836 | Measurements of W and Z boson production in pp collisions at $(\sqrt{s})=5.02\text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 12 |
| 835 | 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. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019,  | 5.4 | 25 |
| 834 | Performance of top-quark and $(\text{W})$ -boson tagging with ATLAS in Run 2 of the LHC. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 19 |
| 833 | Measurements of inclusive and differential fiducial cross-sections of $(\text{t}\overline{\text{t}}\gamma)$ production in leptonic final states at $(\sqrt{s})=13\text{ TeV}$ in ATLAS. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1                 | 4.2 | 7  |
| 832 | Search for long-lived particles produced in pp collisions at $\sqrt{s}=13\text{ TeV}$ that decay into displaced hadronic jets in the ATLAS muon spectrometer. <i>Physical Review D</i> , <b>2019</b> , 99,   | 4.9 | 24 |
| 831 | 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 $\sqrt{s}=13\text{ TeV}$ . <i>Physical Review Letters</i> , <b>2019</b> , 122, 151801              | 7.4 | 5  |
| 830 | Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P03017-P03017   | 1   | 25 |
| 829 | Search for four-top-quark production in the single-lepton and opposite-sign dilepton final states in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. <i>Physical Review D</i> , <b>2019</b> , 99,   | 4.9 | 4  |

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| 828 | Study of the hard double-parton scattering contribution to inclusive four-lepton production in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 790, 595-614 | 4.2 | 7  |
| 827 | Search for doubly charged scalar bosons decaying into same-sign boson pairs with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 58  | 4.2 | 20 |
| 826 | 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. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1                      | 5.4 | 21 |
| 825 | In situ calibration of large-radius jet energy and mass in 13 TeV proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 16 |
| 824 | Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1   | 4.2 | 26 |
| 823 | 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. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 5  |
| 822 | Measurement of the top quark mass in the ( $\bar{t} \rightarrow$ ) lepton+jets channel from ( $\sqrt{s}=8$ ) TeV ATLAS data and combination with previous results. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1   | 4.2 | 24 |
| 821 | Measurement of the nuclear modification factor for inclusive jets in Pb+Pb collisions at $s_{NN}=5.02$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 790, 108-128                | 4.2 | 44 |
| 820 | Search for pair production of Higgs bosons in the ( $\bar{b}b$ ) final state using proton-proton collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1   | 5.4 | 31 |
| 819 | Constraints on mediator-based dark matter and scalar dark energy models using ( $\sqrt{s}$ ) = 13 TeV pp collision data collected by the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 31 |
| 818 | Comparison of Fragmentation Functions for Jets Dominated by Light Quarks and Gluons from pp and Pb+Pb Collisions in ATLAS. <i>Physical Review Letters</i> , <b>2019</b> , 123, 042001   | 7.4 | 12 |
| 817 | Search for high-mass dilepton resonances using 139 fb <sup>-1</sup> of pp collision data collected at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 796, 68-87            | 4.2 | 82 |
| 816 | Search for chargino and neutralino production in final states with a Higgs boson and missing transverse momentum at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2019</b> , 100,   | 4.9 | 10 |
| 815 | Search for long-lived neutral particles in pp collisions at ( $\sqrt{s}$ ) = 13 TeV that decay into displaced hadronic jets in the ATLAS calorimeter. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 18 |
| 814 | Search for heavy particles decaying into a top-quark pair in the fully hadronic final state in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2019</b> , 99,  | 4.9 | 12 |
| 813 | Search for heavy charged long-lived particles in the ATLAS detector in 36.1 fb <sup>-1</sup> of proton-proton collision data at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 99,  | 4.9 | 35 |
| 812 | Search for Higgs boson pair production in the $WW^{(*)}WW^{(*)}$ decay channel using ATLAS data recorded at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 12 |
| 811 | Observation of Light-by-Light Scattering in Ultraperipheral Pb+Pb Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2019</b> , 123, 052001  | 7.4 | 41 |

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| 810 | Measurement of prompt photon production in $\sqrt{s}=8.16$ TeV p + Pb collisions with ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 796, 230-252  | 4.2 | 5  |
| 809 | 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. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1   | 5.4 | 7  |
| 808 | Measurement of $(W^{\pm}Z)$ production cross sections and gauge boson polarisation in pp collisions at $(\sqrt{s} = 13 \text{ TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1   | 4.2 | 20 |
| 807 | Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. <i>Physical Review Letters</i> , <b>2019</b> , 122, 231801   | 7.4 | 45 |
| 806 | Measurement of the $tt\bar{Z}$ and $ttW$ cross sections in proton-proton collisions at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2019</b> , 99,  | 4.9 | 14 |
| 805 | Searches for third-generation scalar leptoquarks in $(\sqrt{s}) = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1   | 5.4 | 18 |
| 804 | Search for scalar resonances decaying into $\mu\bar{\mu}$ events with and without b-tagged jets produced in proton-proton collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1   | 5.4 | 8  |
| 803 | Search for low-mass resonances decaying into two jets and produced in association with a photon using pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 795, 56-75  | 4.2 | 12 |
| 802 | Measurement of the production cross section for a Higgs boson in association with a vector boson in the $H \rightarrow WW^* \rightarrow \mu\bar{\mu}$ channel in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 798, 134949        | 4.2 | 7  |
| 801 | 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 $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 798, 134942  | 4.2 | 14 |
| 800 | Search for diboson resonances in hadronic final states in 139 fb <sup>-1</sup> of pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 10 |
| 799 | Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} \sim 13 \text{ TeV}$ with the ATLAS experiment at the LHC. <i>European Physical Journal C</i> , <b>2019</b> , 79,  | 4.2 | 3  |
| 798 | Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at $13 \text{ TeV}$ . <i>European Physical Journal C</i> , <b>2019</b> , 79,  | 4.2 | 11 |
| 797 | Measurement of $K_S^0$ and $\Lambda^0$ production in $t\bar{t}$ dileptonic events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1   | 4.2 | 3  |
| 796 | Measurement of the inclusive isolated-photon cross section in pp collisions at $(\sqrt{s}) = 13$ TeV using 36 fb <sup>-1</sup> of ATLAS data. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 2  |
| 795 | Measurements of gluon-gluon fusion and vector-boson fusion Higgs boson production cross-sections in the $H \rightarrow WW^* \rightarrow \mu\bar{\mu}$ decay channel in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 789, 508-529 | 4.2 | 27 |
| 794 | A strategy for a general search for new phenomena using data-derived signal regions and its application within the ATLAS experiment. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 14 |
| 793 | Search for pairs of highly collimated photon-jets in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2019</b> , 99,   | 4.9 | 5  |

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| 792 | Search for squarks and gluinos in final states with hadronically decaying leptons, jets, and missing transverse momentum using pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2019</b> , 99,  | 4.9 | 9  |
| 791 | Measurement of the top-quark mass in $(\overline{t}) + 1$ -jet events collected with the ATLAS detector in pp collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 12 |
| 790 | Measurement of fiducial and differential $(W^+W^-)$ production cross-sections at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1   | 4.2 | 16 |
| 789 | Measurement of ZZ production in the final state with the ATLAS detector in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1   | 5.4 | 2  |
| 788 | Measurement of $(W^{\pm})$ -boson and Z-boson production cross-sections in pp collisions at $(\sqrt{s}=2.76)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 2  |
| 787 | 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. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 4  |
| 786 | Electron and photon performance measurements with the ATLAS detector using the 2015-2017 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P12006-P12006   | 1   | 51 |
| 785 | 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. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1   | 5.4 | 21 |
| 784 | Measurement of $(W^{\pm})$ boson production in Pb+Pb collisions at $(\sqrt{s_{\mathrm{NN}}}) = 5.02\text{-}7\text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1   | 4.2 | 7  |
| 783 | ATLAS b-jet identification performance and efficiency measurement with $(\bar{t})$ events in pp collisions at $(\sqrt{s}=13)$ TeV. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 43 |
| 782 | Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at $(\sqrt{s_{\mathrm{NN}}}) = 5.02\text{-}7\text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 16 |
| 781 | Measurement of angular and momentum distributions of charged particles within and around jets in Pb+Pb and pp collisions at $s_{\mathrm{NN}}=5.02$ TeV with the ATLAS detector. <i>Physical Review C</i> , <b>2019</b> , 100,  | 2.7 | 5  |
| 780 | Dijet azimuthal correlations and conditional yields in pp and p+Pb collisions at $s_{\mathrm{NN}}=5.02\text{ TeV}$ with the ATLAS detector. <i>Physical Review C</i> , <b>2019</b> , 100,  | 2.7 | 7  |
| 779 | Search for 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. <i>Physical Review D</i> , <b>2019</b> , 100,   | 4.9 | 7  |
| 778 | Search for a heavy charged boson in events with a charged lepton and missing transverse momentum from pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2019</b> , 100,  | 4.9 | 12 |
| 777 | Measurements of top-quark pair differential and double-differential cross-sections in the $(\ell\ell)+\text{jets}$ channel with pp collisions at $(\sqrt{s}=13)$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 13 |
| 776 | Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons, b-jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 7  |
| 775 | Search for light resonances decaying to boosted quark pairs and produced in association with a photon or a jet in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 788, 316-335 | 4.2 | 23 |

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| 774 | Search for heavy charged long-lived particles in proton-proton collisions at $\sqrt{s}=13$ TeV using an ionisation measurement with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 788, 96-116         | 4.2 | 17 |
| 773 | Search for Higgs boson decays into a pair of light bosons in the $b\bar{b}$ final state in pp collision at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 790, 1-21             | 4.2 | 20 |
| 772 | Measurement of photon-jet transverse momentum correlations in 5.02 TeV Pb + Pb and pp collisions with ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 789, 167-190   | 4.2 | 15 |
| 771 | 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. <i>Physical Review C</i> , <b>2018</b> , 97,  | 2.7 | 25 |
| 770 | Search for High-Mass Resonances Decaying to $\mu\mu$ in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 120, 161802  | 7.4 | 18 |
| 769 | Evidence for the associated production of the Higgs boson and a top quark pair with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 97,  | 4.9 | 29 |
| 768 | A search for resonances decaying into a Higgs boson and a new particle X in the $XH\rightarrow q\bar{q}bb$ final state with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 779, 24-45                  | 4.2 | 6  |
| 767 | Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb <sup>-1</sup> of pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                                | 5.4 | 81 |
| 766 | 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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 10 |
| 765 | Measurement of the $Z$ -boson mass in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 110  | 4.2 | 59 |
| 764 | 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. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 776, 295-317 | 4.2 | 10 |
| 763 | Measurement of the exclusive $\mu\bar{\mu}\mu$ process in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 777, 303-323                               | 4.2 | 27 |
| 762 | Search for diboson resonances with boson-tagged jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 777, 91-113   | 4.2 | 27 |
| 761 | Search for new phenomena in high-mass final states with a photon and a jet from collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 102   | 4.2 | 7  |
| 760 | Search for the direct production of charginos and neutralinos in final states with tau leptons in collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 154  | 4.2 | 23 |
| 759 | Measurement of longitudinal flow decorrelations in Pb+Pb collisions at and 5.02 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 142   | 4.2 | 35 |
| 758 | Measurement of quarkonium production in proton-lead and proton-proton collisions at $\sqrt{s}=2.76$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 171   | 4.2 | 35 |
| 757 | Measurement of differential cross-sections of a single top quark produced in association with a boson at $\sqrt{s}=13$ TeV with ATLAS. <i>European Physical Journal C</i> , <b>2018</b> , 78, 186   | 4.2 | 5  |

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| 756 | Search for heavy resonances in the and final states using proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 293  | 4.2 | 41 |
| 755 | A search for pair-produced resonances in four-jet final states at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 250  | 4.2 | 28 |
| 754 | 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 <sup>-1</sup> of ( $\sqrt{s}=13$ ) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                                | 5.4 | 26 |
| 753 | Search for heavy resonances decaying into $WZ$ in the final state in collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 24  | 4.2 | 47 |
| 752 | Direct top-quark decay width measurement in the lepton+jets channel at $\sqrt{s}=13$ TeV with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2018</b> , 78, 129   | 4.2 | 11 |
| 751 | Search for $W$ $W/Z$ resonance production in $b\bar{q}$ final states in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 22 |
| 750 | 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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 36 |
| 749 | 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. <i>Physical Review D</i> , <b>2018</b> , 97,  | 4.9 | 44 |
| 748 | 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. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 780, 557-577                    | 4.2 | 14 |
| 747 | Measurement of the cross section for isolated-photon plus jet production in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 780, 578-602  | 4.2 | 10 |
| 746 | Measurement of the production cross section of three isolated photons in pp collisions at $\sqrt{s}=8$ TeV using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 781, 55-76  | 4.2 | 7  |
| 745 | Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 12 |
| 744 | Search for dark matter produced in association with bottom or top quarks in $\sqrt{s}=13$ TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 18  | 4.2 | 32 |
| 743 | 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. <i>European Physical Journal C</i> , <b>2018</b> , 78, 199  | 4.2 | 55 |
| 742 | Measurement of polarisation in decays in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 163   | 4.2 | 3  |
| 741 | Searches for heavy ZZ and ZW resonances in the $b\bar{q}$ and $\bar{b}q$ final states in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 17 |
| 740 | 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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 23 |
| 739 | Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $b\bar{b}$ final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 783, 392-414 | 4.2 | 33 |



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| 738 | Measurement of jet fragmentation in 5.02 TeV proton-lead and proton-proton collisions with the ATLAS detector. <i>Nuclear Physics A</i> , <b>2018</b> , 978, 65-106   | 1.3 | 14  |
| 737 | Search for $W \rightarrow b\bar{b}$ decays in the hadronic final state using pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 781, 327-348                                     | 4.2 | 15  |
| 736 | Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 784, 173-191   | 4.2 | 118 |
| 735 | 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. <i>Physical Review D</i> , <b>2018</b> , 98,  | 4.9 | 12  |
| 734 | Measurement of differential cross sections and $W^+/W^0$ cross-section ratios for W boson production in association with jets at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 7   |
| 733 | Combination of inclusive and differential ( $\overline{\text{t}}$ ) charge asymmetry measurements using ATLAS and CMS data at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 4   |
| 732 | Measurement of the W-boson mass in pp collisions at ( $\sqrt{s}=7$ , $\sqrt{s}$ {TeV}) with the ATLAS detector <b>2018</b> , 78, 1  |     | 1   |
| 731 | Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at ( $\sqrt{s}=13$ , $\sqrt{s}$ {TeV}) <b>2018</b> , 78, 1   |     | 1   |
| 730 | 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 <sup>-1</sup> of ( $\sqrt{s}=13$ ) TeV pp collisions with the ATLAS detector <b>2018</b> , 2018, 1  |     | 1   |
| 729 | 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. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 776, 318-337 | 4.2 | 38  |
| 728 | Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow a\bar{a}$ channel in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1         | 5.4 | 14  |
| 727 | Measurement of the ( $Z \rightarrow \nu \overline{\nu}$ ) production cross section in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector and limits on anomalous triple gauge-boson couplings. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                          | 5.4 | 6   |
| 726 | Prompt and non-prompt elliptic flow in Pb+Pb collisions at TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 784  | 4.2 | 8   |
| 725 | Search for Higgs boson pair production in the channel using collision data recorded at TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1007   | 4.2 | 21  |
| 724 | Measurement of colour flow using jet-pull observables in events with the ATLAS experiment at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 847  | 4.2 | 5   |
| 723 | Measurement of the suppression and azimuthal anisotropy of muons from heavy-flavor decays in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>Physical Review C</i> , <b>2018</b> , 98,   | 2.7 | 10  |
| 722 | Search for resonant WZ production in the fully leptonic final state in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 787, 68-88                                  | 4.2 | 14  |
| 721 | Angular analysis of $B^0 \rightarrow \mu^+ \mu^-$ decays in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 44  |

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| 720 | Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 121, 211801   | 7.4 | 48 |
| 719 | 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. <i>Physical Review Letters</i> , <b>2018</b> , 121, 212301                              | 7.4 | 18 |
| 718 | Search for a new heavy gauge-boson resonance decaying into a lepton and missing transverse momentum in 36 fb of collisions at $\sqrt{s}=13$ TeV with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2018</b> , 78, 401                               | 4.2 | 23 |
| 717 | Search for lepton-flavor-violating decays of the Z boson into a $\tau$ lepton and a light lepton with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 98,  | 4.9 | 5  |
| 716 | Search for Resonant and Nonresonant Higgs Boson Pair Production in the $b\bar{b}[\text{over } \tau\tau\{\pm\}\tau\tau\{-}]$ Decay Channel in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 121, 191801 | 7.4 | 23 |
| 715 | 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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                         | 5.4 | 15 |
| 714 | 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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                                 | 5.4 | 4  |
| 713 | Search for Higgs boson pair production in the ( $\text{upgamma upgamma boverline{b}}$ ) final state with 13 TeV pp collision data collected by the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                                  | 5.4 | 23 |
| 712 | 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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 21 |
| 711 | Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s}=5.02$ TeV Pb+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 997   | 4.2 | 21 |
| 710 | Search for pair and single production of vectorlike quarks in final states with at least one Z boson decaying into a pair of electrons or muons in pp collision data collected with the ATLAS detector at $s=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 98,  | 4.9 | 22 |
| 709 | Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 903   | 4.2 | 66 |
| 708 | Measurement of dijet azimuthal decorrelations in pp collisions at $s=8$ TeV with the ATLAS detector and determination of the strong coupling. <i>Physical Review D</i> , <b>2018</b> , 98,  | 4.9 | 4  |
| 707 | Search for pair production of heavy vectorlike quarks decaying into hadronic final states in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 98,  | 4.9 | 19 |
| 706 | Search for lepton-flavor violation in different-flavor, high-mass final states in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 98,   | 4.9 | 7  |
| 705 | Search for chargino-neutralino production using recursive jigsaw reconstruction in final states with two or three charged leptons in proton-proton collisions at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 98,                   | 4.9 | 34 |
| 704 | Comparison between simulated and observed LHC beam backgrounds in the ATLAS experiment at $E_{\text{beam}}=4$ TeV. <i>Journal of Instrumentation</i> , <b>2018</b> , 13, P12006-P12006  | 1   | 2  |
| 703 | Search for electroweak production of supersymmetric particles in final states with two or three leptons at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 995  | 4.2 | 49 |

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| 702 | 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. <i>Physical Review D</i> , <b>2018</b> , 98,   | 4.9 | 14 |
| 701 | Search for charged Higgs bosons decaying into top and bottom quarks at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 39 |
| 700 | Measurements of Higgs boson properties in the diphoton decay channel with 36 fb <sup>-1</sup> of pp collision data at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 98,   | 4.9 | 74 |
| 699 | Operation and performance of the ATLAS Tile Calorimeter in Run 1. <i>European Physical Journal C</i> , <b>2018</b> , 78, 987  | 4.2 | 13 |
| 698 | 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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 28 |
| 697 | 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. <i>Physical Review D</i> , <b>2018</b> , 98,  | 4.9 | 8  |
| 696 | 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. <i>Physical Review D</i> , <b>2018</b> , 98,  | 4.9 | 10 |
| 695 | Search for pair production of heavy vector-like quarks decaying into high-pT W bosons and top quarks in the lepton-plus-jets final state in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 16 |
| 694 | Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb <sup>-1</sup> of ( $\sqrt{s}=13$ ) TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 33 |
| 693 | Combined measurement of differential and total cross sections in the H $\rightarrow$ ZZ and the H $\rightarrow$ ZZ $\gamma\gamma$ decay channels at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 786, 114-133 | 4.2 | 14 |
| 692 | Searches for exclusive Higgs and Z boson decays into $J/\psi(2S)$ and $\psi(nS)$ at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 786, 134-155   | 4.2 | 14 |
| 691 | Search for long-lived charginos based on a disappearing-track signature in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 48 |
| 690 | Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 9  |
| 689 | Observation of H $\rightarrow$ bb decays and VH production with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 786, 59-86  | 4.2 | 87 |
| 688 | Combination of searches for heavy resonances decaying into bosonic and leptonic final states using 36 fb <sup>-1</sup> of proton-proton collision data at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 98,   | 4.9 | 23 |
| 687 | Constraints on off-shell Higgs boson production and the Higgs boson total width in ZZ $\rightarrow$ 4 $\ell$ and ZZ $\rightarrow$ 2 $\ell$ final states with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 786, 223-244               | 4.2 | 28 |
| 686 | Search for charged Higgs bosons decaying via H $\rightarrow$ tb in the ttj jets and tlepton final states with 36 fb <sup>-1</sup> of pp collision data recorded at ( $\sqrt{s}=13$ ) TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                                   | 5.4 | 33 |
| 685 | Prompt and non-prompt and suppression at high transverse momentum in Pb+Pb collisions with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2018</b> , 78, 762   | 4.2 | 23 |

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| 684 | Probing the Quantum Interference between Singly and Doubly Resonant Top-Quark Production in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 121, 152002  | 7.4 | 9  |
| 683 | Search for photonic signatures of gauge-mediated supersymmetry in 13 TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 97,  | 4.9 | 11 |
| 682 | 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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 22 |
| 681 | Search for flavor-changing neutral currents in top quark decays $t \rightarrow c$ and $t \rightarrow u$ in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 98,  | 4.9 | 12 |
| 680 | Measurement of the Higgs boson mass in the $H \rightarrow ZZ$ and $H \rightarrow \tau\tau$ channels with $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 784, 345-366           | 4.2 | 41 |
| 679 | Search for exclusive Higgs and Z boson decays to $\tau\tau$ and $\tau\nu$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 6  |
| 678 | Measurements of b-jet tagging efficiency with the ATLAS detector using ( $\overline{t}$ ) events at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 31 |
| 677 | 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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 8  |
| 676 | Search for squarks and gluinos in final states with jets and missing transverse momentum using 36 fb <sup>-1</sup> of $\sqrt{s}=13$ TeV pp collision data with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 97,   | 4.9 | 80 |
| 675 | Measurement of the inclusive and fiducial production cross-sections in the lepton+jets channel in collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 487   | 4.2 | 5  |
| 674 | Search for R-parity-violating supersymmetric particles in multi-jet final states produced in $p\bar{p}$ collisions at $\sqrt{s}=13$ TeV using the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 785, 136-158 | 4.2 | 10 |
| 673 | 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. <i>Physical Review D</i> , <b>2018</b> , 98,  | 4.9 | 14 |
| 672 | Search for Low-Mass Dijet Resonances Using Trigger-Level Jets with the ATLAS Detector in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 121, 081801   | 7.4 | 29 |
| 671 | 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. <i>European Physical Journal C</i> , <b>2018</b> , 78, 565   | 4.2 | 34 |
| 670 | Search for top squarks decaying to tau sleptons in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 98,   | 4.9 | 6  |
| 669 | Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector. <i>Physical Review C</i> , <b>2018</b> , 98,   | 2.7 | 12 |
| 668 | Measurement of the Soft-Drop Jet Mass in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2018</b> , 121, 092001   | 7.4 | 24 |
| 667 | Search for supersymmetry in events with four or more leptons in $\sqrt{s}=13$ TeV pp collisions with ATLAS. <i>Physical Review D</i> , <b>2018</b> , 98,  | 4.9 | 16 |

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| 666 | 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 collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 625  | 4.2 | 15  |
| 665 | ZZ- $\mu\mu$ - $\tau\tau$ cross-section measurements and search for anomalous triple gauge couplings in 13 TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 97,  | 4.9 | 21  |
| 664 | Search for electroweak production of supersymmetric states in scenarios with compressed mass spectra at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2018</b> , 97,   | 4.9 | 47  |
| 663 | Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment. <i>Physical Review Letters</i> , <b>2018</b> , 120, 211802   | 7.4 | 27  |
| 662 | Search for $B\bar{B}$ R-parity-violating top squarks in $\sqrt{s}=13$ TeV pp collisions with the ATLAS experiment. <i>Physical Review D</i> , <b>2018</b> , 97,   | 4.9 | 8   |
| 661 | 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. <i>Physical Review D</i> , <b>2018</b> , 97,   | 4.9 | 31  |
| 660 | Search for a Structure in the $B_{s^0}$ Invariant Mass Spectrum with the ATLAS Experiment. <i>Physical Review Letters</i> , <b>2018</b> , 120, 202007   | 7.4 | 28  |
| 659 | Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 101 |
| 658 | Search for Higgs boson decays into pairs of light (pseudo)scalar particles in the $\mu\mu$ final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 782, 750-767  | 4.2 | 15  |
| 657 | 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. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 765, 11-31   | 4.2 | 23  |
| 656 | Search for new resonances decaying to a W or Z boson and a Higgs boson in the $\mu\mu b\bar{b}$ , $b\bar{b}\mu\mu$ , and $\mu\mu b\bar{b}$ channels with pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 765, 32-52 | 4.2 | 17  |
| 655 | Measurement of W boson angular distributions in events with high transverse momentum jets at $\sqrt{s}=8$ TeV using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 765, 132-153  | 4.2 | 8   |
| 654 | Measurement of the $[Formula: see text]$ and $[Formula: see text]$ production cross sections in multilepton final states using 3.2 fb $[Formula: see text]$ of $[Formula: see text]$ collisions at $[Formula: see text] = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 40                    | 4.2 | 14  |
| 653 | A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 collision data with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 26   | 4.2 | 22  |
| 652 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 22  |
| 651 | Search for heavy resonances decaying to a Z boson and a photon in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 764, 11-30  | 4.2 | 16  |
| 650 | Measurement of jet activity produced in top-quark events with an electron, a muon and two -tagged jets in the final state in collisions at $[Formula: see text]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 220  | 4.2 | 5   |
| 649 | Measurement of the boson polarisation in $[Formula: see text]$ events from collisions at $[Formula: see text] = 8$ TeV in the lepton+ $\mu$ jets channel with ATLAS. <i>European Physical Journal C</i> , <b>2017</b> , 77, 264   | 4.2 | 19  |

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| 648 | Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , <b>2017</b> , 77, 195  | 4.2 | 61  |
| 647 | Measurements of top-quark pair differential cross-sections in the $[Formula: see text]$ channel in collisions at $[Formula: see text]$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 292   | 4.2 | 13  |
| 646 | Performance of algorithms that reconstruct missing transverse momentum in $[Formula: see text]$ =8 TeV proton-proton collisions in the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 241   | 4.2 | 38  |
| 645 | High-ET isolated-photon plus jets production in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Nuclear Physics B</i> , <b>2017</b> , 918, 257-316   | 2.8 | 13  |
| 644 | Measurement of the prompt $[Formula: see text]$ pair production cross-section in collisions at $[Formula: see text]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 76   | 4.2 | 47  |
| 643 | Search for triboson $[Formula: see text]$ production in collisions at $[Formula: see text]$ $[Formula: see text]$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 141   | 4.2 | 13  |
| 642 | Measurement of the $W+W$ production cross section in pp collisions at a centre-of-mass energy of $s=13$ TeV with the ATLAS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 773, 354-374               | 4.2 | 7   |
| 641 | Search for new phenomena in high-mass diphoton final states using 37 fb of proton-proton collisions collected at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 775, 105-125 | 4.2 | 52  |
| 640 | Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. <i>European Physical Journal C</i> , <b>2017</b> , 77, 490  | 4.2 | 177 |
| 639 | Fiducial, total and differential cross-section measurements of $\gamma$ -channel single top-quark production in collisions at 8 TeV using data collected by the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 531                                | 4.2 | 27  |
| 638 | Measurements of electroweak $[Formula: see text]$ production and constraints on anomalous gauge couplings with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 474   | 4.2 | 14  |
| 637 | Measurements of long-range azimuthal anisotropies and associated Fourier coefficients for pp collisions at $s=5.02$ and 13 TeV and p+Pb collisions at $s_{NN}=5.02$ TeV with the ATLAS detector. <i>Physical Review C</i> , <b>2017</b> , 96,                             | 2.7 | 34  |
| 636 | Search for anomalous electroweak production of $WW/WZ$ in association with a high-mass dijet system in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2017</b> , 95,   | 4.9 | 17  |
| 635 | Jet reconstruction and performance using particle flow with the ATLAS Detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 466  | 4.2 | 42  |
| 634 | Measurements of integrated and differential cross sections for isolated photon pair production in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2017</b> , 95,  | 4.9 | 10  |
| 633 | Measurement of $W$ $\rightarrow$ $W$ vector-boson scattering and limits on anomalous quartic gauge couplings with the ATLAS detector. <i>Physical Review D</i> , <b>2017</b> , 96,  | 4.9 | 13  |
| 632 | Measurement of the $t\bar{t}$ production cross section in the $n$ -jets final state in pp collisions at $s=8$ TeV using the ATLAS detector. <i>Physical Review D</i> , <b>2017</b> , 95,  | 4.9 | 1   |
| 631 | Measurement of the cross section for inclusive isolated-photon production in pp collisions at $s=13$ TeV using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 770, 473-493                   | 4.2 | 25  |

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| 630 | Measurement of multi-particle azimuthal correlations in pp, p-Pb and low-multiplicity Pb-Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 428   | 4.2 | 48 |
| 629 | Measurement of forward-backward multiplicity correlations in lead-lead, proton-lead, and proton-proton collisions with the ATLAS detector. <i>Physical Review C</i> , <b>2017</b> , 95,  | 2.7 | 13 |
| 628 | Search for the Dimuon Decay of the Higgs Boson in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2017</b> , 119, 051802   | 7.4 | 29 |
| 627 | Search for Dark Matter Produced in Association with a Higgs Boson Decaying to $b\bar{b}$ Using $36 \text{ fb}^{-1}$ of pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2017</b> , 119, 181804  | 7.4 | 25 |
| 626 | 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. <i>Physical Review Letters</i> , <b>2017</b> , 119, 191803  | 7.4 | 30 |
| 625 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 25 |
| 624 | 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. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 775, 206-228                          | 4.2 | 12 |
| 623 | Measurement of lepton differential distributions and the top quark mass in production in collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 804   | 4.2 | 11 |
| 622 | Measurement of the ( $\overline{t}\gamma$ ) production cross section in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 7  |
| 621 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 6  |
| 620 | Search for heavy resonances decaying to a W or Z boson and a Higgs boson in the $q\bar{q} \rightarrow \text{bb}$ final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 774, 494-515 | 4.2 | 20 |
| 619 | Measurement of jet $p_T$ correlations in Pb + Pb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 774, 379-402   | 4.2 | 15 |
| 618 | Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. <i>European Physical Journal C</i> , <b>2017</b> , 77, 673  | 4.2 | 33 |
| 617 | Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $pp$ collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 144   | 4.2 | 8  |
| 616 | Measurement of the ZZ production cross section in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV using the $ZZ \rightarrow 4\ell$ and ( $ZZ \rightarrow \ell\ell^+ \ell\ell^+ \nu \overline{\nu}$ ) decay channels with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1      | 5.4 | 9  |
| 615 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 11 |
| 614 | Measurements of $\chi(3512)$ and $\chi(3872) \rightarrow J/\psi \eta'$ production in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 15 |
| 613 | Measurements of top-quark pair to Z-boson cross-section ratios at ( $\sqrt{s}=13$ ), 8, 7 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 7  |

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| 612 | Search for lepton-flavour-violating decays of the Higgs and bosons with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 70   | 4.2 | 52  |
| 611 | Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , <b>2017</b> , 77, 317   | 4.2 | 272 |
| 610 | Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. <i>European Physical Journal C</i> , <b>2017</b> , 77, 332   | 4.2 | 29  |
| 609 | Measurements of the production cross section of a [Formula: see text] boson in association with jets in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 361                       | 4.2 | 26  |
| 608 | Precision measurement and interpretation of inclusive , and production cross sections with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 367   | 4.2 | 56  |
| 607 | Measurement of jet fragmentation in Pb+Pb and collisions at TeV with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2017</b> , 77, 379  | 4.2 | 35  |
| 606 | Search for dark matter at [Formula: see text] in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 393                                  | 4.2 | 52  |
| 605 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                     | 5.4 | 9   |
| 604 | Search for direct top squark pair production in final states with two leptons in TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 898   | 4.2 | 19  |
| 603 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1           | 5.4 | 7   |
| 602 | Measurement of detector-corrected observables sensitive to the anomalous production of events with jets and large missing transverse momentum in collisions at TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 765 | 4.2 | 10  |
| 601 | Measurement of b-hadron pair production with the ATLAS detector in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 5   |
| 600 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                                  | 5.4 | 13  |
| 599 | Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2017</b> , 96,  | 4.9 | 116 |
| 598 | Search for dark matter in association with a Higgs boson decaying to two photons at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2017</b> , 96,  | 4.9 | 11  |
| 597 | Measurement of the inclusive jet cross-sections in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 12  |
| 596 | Femtoscopy with identified charged pions in proton-lead collisions at $s_{NN}=5.02$ TeV with ATLAS. <i>Physical Review C</i> , <b>2017</b> , 96,  | 2.7 | 1   |
| 595 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1     | 5.4 | 27  |



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| 594 | Identification and rejection of pile-up jets at high pseudorapidity with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 580  | 4.2 | 16 |
| 593 | Measurement of production with the hadronically decaying boson reconstructed as one or two jets in collisions at with ATLAS, and constraints on anomalous gauge couplings. <i>European Physical Journal C</i> , <b>2017</b> , 77, 563                                  | 4.2 | 15 |
| 592 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 7  |
| 591 | Searches for the $Z\bar{\nu}$ decay mode of the Higgs boson and for new high-mass resonances in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 20 |
| 590 | Studies of $Z\bar{\nu}$ production in association with a high-mass dijet system in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 7  |
| 589 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 12 |
| 588 | Search for new phenomena in dijet events using 37 fb of pp collision data collected at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2017</b> , 96,  | 4.9 | 89 |
| 587 | Search for top quark decays $t \rightarrow qH$ , with $H \rightarrow \bar{\nu}\nu$ in ( $\sqrt{s}=13$ ) TeV pp collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 12 |
| 586 | Study of and production in collisions at and search for anomalous quartic gauge couplings with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2017</b> , 77, 646  | 4.2 | 11 |
| 585 | Measurements of top quark spin observables in ( $\bar{t}t$ ) events using dilepton final states in ( $\sqrt{s}=8$ ) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 12 |
| 584 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                                     | 5.4 | 8  |
| 583 | Top-quark mass measurement in the all-hadronic ( $\bar{t}t$ ) decay channel at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 6  |
| 582 | Measurement of the Drell-Yan triple-differential cross section in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 16 |
| 581 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 30 |
| 580 | Search for supersymmetry in final states with two same-sign or three leptons and jets using 36 fb of ( $\sqrt{s}=13$ ) TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                                    | 5.4 | 22 |
| 579 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1 | 5.4 | 29 |
| 578 | Study of the material of the ATLAS inner detector for Run 2 of the LHC. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P12009-P12009  | 1   | 19 |
| 577 | Measurement of the $k_t$ splitting scales in $Z \rightarrow \bar{\nu}\nu$ events in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 3  |

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| 576 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1 | 5.4 | 7   |
| 575 | Evidence for the $(H \rightarrow \overline{b}b)$ decay with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 50  |
| 574 | Search for new high-mass phenomena in the dilepton final state using 36 fb <sup>-1</sup> of proton-proton collision data at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                   | 5.4 | 126 |
| 573 | Determination of the strong coupling constant from transverse energy-energy correlations in multijet events at using the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 872  | 4.2 | 19  |
| 572 | Search for squarks and gluinos in events with an isolated lepton, jets, and missing transverse momentum at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2017</b> , 96,  | 4.9 | 17  |
| 571 | Performance of the ATLAS Transition Radiation Tracker in Run 1 of the LHC: tracker properties. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P05002-P05002   | 1   | 7   |
| 570 | A measurement of material in the ATLAS tracker using secondary hadronic interactions in 7 TeVppcollisions. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, P11020-P11020   | 1   | 7   |
| 569 | Search for scalar leptoquarks inppcollisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment. <i>New Journal of Physics</i> , <b>2016</b> , 18, 093016  | 2.9 | 51  |
| 568 | Search for Higgs and Z Boson Decays to $\tau\tau$ with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2016</b> , 117, 111802  | 7.4 | 5   |
| 567 | Measurement of the differential cross-section of highly boosted top quarks as a function of their transverse momentum in $s=8$ TeV proton-proton collisions using the ATLAS detector. <i>Physical Review D</i> , <b>2016</b> , 93,                       | 4.9 | 30  |
| 566 | Search for the electroweak production of supersymmetric particles in $s=8$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , <b>2016</b> , 93,   | 4.9 | 46  |
| 565 | Measurement of jet charge in dijet events from $s=8$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , <b>2016</b> , 93,   | 4.9 | 18  |
| 564 | Centrality, rapidity, and transverse momentum dependence of isolated prompt photon production in lead-lead collisions at $s_{NN}=2.76$ TeV measured with the ATLAS detector. <i>Physical Review C</i> , <b>2016</b> , 93,                                | 2.7 | 26  |
| 563 | Measurement of the correlation between the polar angles of leptons from top quark decays in the helicity basis at $s=7$ TeV using the ATLAS detector. <i>Physical Review D</i> , <b>2016</b> , 93,   | 4.9 | 10  |
| 562 | Search for magnetic monopoles and stable particles with high electric charges in 8 TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , <b>2016</b> , 93,   | 4.9 | 34  |
| 561 | Search for dark matter produced in association with a Higgs boson decaying to two bottom quarks in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2016</b> , 93,  | 4.9 | 16  |
| 560 | Measurements of $W\Xi Z$ production cross sections in pp collisions at $s=8$ TeV with the ATLAS detector and limits on anomalous gauge boson self-couplings. <i>Physical Review D</i> , <b>2016</b> , 93,  | 4.9 | 47  |
| 559 | Search for the standard model Higgs boson produced in association with a vector boson and decaying into a tau pair in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2016</b> , 93,                                   | 4.9 | 3   |

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| 558 | Measurements of $Z$ and $Z\gamma$ production in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2016</b> , 93,   | 4.9 | 29  |
| 557 | Search for metastable heavy charged particles with large ionization energy loss in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS experiment. <i>Physical Review D</i> , <b>2016</b> , 93,  | 4.9 | 31  |
| 556 | Measurement of the ZZ Production Cross Section in pp Collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2016</b> , 116, 101801  | 7.4 | 25  |
| 555 | Observation of Long-Range Elliptic Azimuthal Anisotropies in $\sqrt{s}=13$ and 2.76 TeV pp Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2016</b> , 116, 172301   | 7.4 | 140 |
| 554 | Measurement of the $t\bar{t}$ production cross-section using $e\bar{e}$ events with b-tagged jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 761, 136-157 | 4.2 | 47  |
| 553 | Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2016</b> , 76, 295  | 4.2 | 28  |
| 552 | Performance of pile-up mitigation techniques for jets in $[Formula: see text]$ collisions at $[Formula: see text]$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 581   | 4.2 | 148 |
| 551 | Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s}=13$ TeV with the ATLAS Detector at the LHC. <i>Physical Review Letters</i> , <b>2016</b> , 117, 182002  | 7.4 | 92  |
| 550 | 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. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1                          | 5.4 | 364 |
| 549 | Measurement of the charged-particle multiplicity inside jets from $[Formula: see text]$ collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 322  | 4.2 | 35  |
| 548 | Measurement of jet activity in top quark events using the $e\bar{e}$ final state with two b-tagged jets in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 4   |
| 547 | Measurement of the transverse momentum and $[Formula: see text]$ distributions of Drell-Yan lepton pairs in proton-proton collisions at $[Formula: see text]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 291                                 | 4.2 | 63  |
| 546 | Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $WW^* \rightarrow e\bar{e}$ with the ATLAS detector at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1                                 | 5.4 | 13  |
| 545 | Measurements of the charge asymmetry in top-quark pair production in the dilepton final state at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2016</b> , 94,   | 4.9 | 4   |
| 544 | 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. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 13  |
| 543 | A search for top squarks with R-parity-violating decays to all-hadronic final states with the ATLAS detector in ( $\sqrt{s}=8$ ) TeV proton-proton collisions. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 10  |
| 542 | Identification of high transverse momentum top quarks in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 13  |
| 541 | 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. <i>New Journal of Physics</i> , <b>2016</b> , 18, 073021   | 2.9 | 1   |

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| 540 | Beam-induced and cosmic-ray backgrounds observed in the ATLAS detector during the LHC 2012 proton-proton running period. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, P05013-P05013  | 1   | 8   |
| 539 | Measurement of top quark pair differential cross sections in the dilepton channel in pp collisions at $s=7$ and 8 TeV with ATLAS. <i>Physical Review D</i> , <b>2016</b> , 94,  | 4.9 | 13  |
| 538 | Measurements of top-quark pair differential cross-sections in the lepton+jets channel in collisions at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 538   | 4.2 | 48  |
| 537 | 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 $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2016</b> , 94,                                      | 4.9 | 24  |
| 536 | Search for pair production of Higgs bosons in the $b\bar{b}$ final state using proton-proton collisions at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2016</b> , 94,   | 4.9 | 35  |
| 535 | Measurement of exclusive $BW$ production and search for exclusive Higgs boson production in pp collisions at $s=8$ TeV using the ATLAS detector. <i>Physical Review D</i> , <b>2016</b> , 94,   | 4.9 | 23  |
| 534 | Measurement of the differential cross-sections of prompt and non-prompt production of [Formula: see text] and [Formula: see text] in collisions at [Formula: see text] and 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 283      | 4.2 | 42  |
| 533 | Luminosity determination in collisions at [Formula: see text] = 8 TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2016</b> , 76, 653   | 4.2 | 188 |
| 532 | Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton-proton collisions at [Formula: see text] TeV recorded with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 683 | 4.2 | 7   |
| 531 | Addendum to Measurement of the $(t\bar{t})$ production cross-section using $(e\mu)$ events with b-tagged jets in pp collisions at $(\sqrt{s}) = 7$ and 8 (TeV) with the ATLAS detector <i>European Physical Journal C</i> , <b>2016</b> , 76, 1                           | 4.2 | 13  |
| 530 | 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. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 20  |
| 529 | Searches for heavy diboson resonances in pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 20  |
| 528 | Dark matter interpretations of ATLAS searches for the electroweak production of supersymmetric particles in $(\sqrt{s}=8)$ TeV proton-proton collisions. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 16  |
| 527 | Search for the Standard Model Higgs boson decaying into $(\overline{b}b)$ produced in association with top quarks decaying hadronically in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1     | 5.4 | 16  |
| 526 | Measurement of the CP-violating phase $\phi_s$ and the $B^0_s$ meson decay width difference with $B^0_s \rightarrow J/\psi$ decays in ATLAS. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 10  |
| 525 | Search for squarks and gluinos in final states with jets and missing transverse momentum at [Formula: see text] =13 [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 392   | 4.2 | 53  |
| 524 | Measurement of the double-differential high-mass Drell-Yan cross section in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 24  |
| 523 | A search for prompt lepton-jets in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 22  |

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| 522 | Search for new phenomena with photon+jet events in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 12  |
| 521 | Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-lead collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 199  | 4.2 | 39  |
| 520 | Measurement of the production cross-section of a single top quark in association with a W boson at 8 TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 12  |
| 519 | Search for the production of single vector-like and excited quarks in the $Wt$ final state in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 14  |
| 518 | Search for strong gravity in multijet final states produced in pp collisions at ( $\sqrt{s}=13$ ) TeV using the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 12  |
| 517 | Measurements of four-lepton production in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 753, 552-572   | 4.2 | 15  |
| 516 | Measurement of the charge asymmetry in highly boosted top-quark pair production in $s=8$ TeV pp collision data collected by the ATLAS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 756, 52-71                               | 4.2 | 11  |
| 515 | Measurement of the dependence of transverse energy production at large pseudorapidity on the hard-scattering kinematics of proton-proton collisions at $s=2.76$ TeV with ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 756, 10-28 | 4.2 | 9   |
| 514 | Search for new phenomena in final states with large jet multiplicities and missing transverse momentum with ATLAS using $s=13$ TeV proton-proton collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 757, 334-355                  | 4.2 | 21  |
| 513 | Search for single production of a vector-like quark via a heavy gluon in the $4b$ final state with the ATLAS detector in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 758, 249-268                          | 4.2 | 13  |
| 512 | Search for new phenomena in dijet mass and angular distributions from pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 754, 302-322  | 4.2 | 104 |
| 511 | Evidence for single top-quark production in the $s$ -channel in proton-proton collisions at $s=8$ TeV with the ATLAS detector using the Matrix Element Method. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 756, 228-246                | 4.2 | 25  |
| 510 | Charged-particle distributions in $s=13$ TeV pp interactions measured with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 758, 67-88   | 4.2 | 44  |
| 509 | Combination of searches for $WW$ , $WZ$ , and $ZZ$ resonances in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 755, 285-305  | 4.2 | 27  |
| 508 | Identification of boosted, hadronically decaying bosons and comparisons with ATLAS data taken at [Formula: see text] TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 154   | 4.2 | 44  |
| 507 | Search for new phenomena in events with at least three photons collected in collisions at [Formula: see text] = 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 210  | 4.2 | 53  |
| 506 | Probing lepton flavour violation via neutrinoless [Formula: see text] decays with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 232   | 4.2 | 12  |
| 505 | A new method to distinguish hadronically decaying boosted bosons from bosons using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 238  | 4.2 | 6   |

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| 504 | Search for supersymmetry at [Formula: see text] TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 259   | 4.2 | 48  |
| 503 | Search for invisible decays of a Higgs boson using vector-boson fusion in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 45  |
| 502 | Search for anomalous couplings in the W tb vertex from the measurement of double differential angular decay rates of single top quarks produced in the t-channel with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1-46                                 | 5.4 | 12  |
| 501 | Searches for scalar leptoquarks in collisions at [Formula: see text] = 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 5   | 4.2 | 68  |
| 500 | Measurements of the Higgs boson production and decay rates and coupling strengths using collision data at [Formula: see text] and 8 TeV in the ATLAS experiment. <i>European Physical Journal C</i> , <b>2016</b> , 76, 6  | 4.2 | 185 |
| 499 | Measurements of fiducial cross-sections for [Formula: see text] production with one or two additional -jets in collisions at [Formula: see text]=8 TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 11   | 4.2 | 21  |
| 498 | Study of the [Formula: see text] and [Formula: see text] decays with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 4  | 4.2 | 13  |
| 497 | Search for an additional, heavy Higgs boson in the [Formula: see text] decay channel at [Formula: see text] in [Formula: see text] collision data with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 45   | 4.2 | 152 |
| 496 | Search for single top-quark production via flavour-changing neutral currents at 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 55   | 4.2 | 28  |
| 495 | Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at ( $\sqrt{s}=8, \text{mathrm TeV}$ ) with the ATLAS detector <b>2016</b> , 76, 1   |     | 1   |
| 494 | Study of hard double-parton scattering in four-jet events in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 21  |
| 493 | Search for the Standard Model Higgs boson produced by vector-boson fusion and decaying to bottom quarks in ( $\sqrt{s}=8$ ) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 8   |
| 492 | Measurement of event-shape observables in [Formula: see text] events in collisions at [Formula: see text] [Formula: see text] with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2016</b> , 76, 375   | 4.2 | 5   |
| 491 | Charged-particle distributions in interactions at [Formula: see text] measured with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 403   | 4.2 | 19  |
| 490 | Charged-particle distributions at low transverse momentum in [Formula: see text] TeV interactions measured with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2016</b> , 76, 502  | 4.2 | 37  |
| 489 | Search for bottom squark pair production in proton-proton collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 547  | 4.2 | 25  |
| 488 | Search for minimal supersymmetric standard model Higgs Bosons $\tilde{H}$ and for a [Formula: see text] boson in the [Formula: see text] final state produced in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 585 | 4.2 | 28  |
| 487 | Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. <i>European Physical Journal C</i> , <b>2016</b> , 76, 666   | 4.2 | 53  |

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| 486 | Measurement of the [Formula: see text] dijet cross section in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 670   | 4.2 | 7   |
| 485 | The performance of the jet trigger for the ATLAS detector during 2011 data taking. <i>European Physical Journal C</i> , <b>2016</b> , 76, 526   | 4.2 | 16  |
| 484 | Search for new phenomena in different-flavour high-mass dilepton final states in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 541  | 4.2 | 7   |
| 483 | Search for the Higgs boson produced in association with a boson and decaying to four -quarks via two spin-zero particles in collisions at 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 605  | 4.2 | 16  |
| 482 | Muon reconstruction performance of the ATLAS detector in proton-proton collision data at [Formula: see text]=13 TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 292   | 4.2 | 263 |
| 481 | Test of CP invariance in vector-boson fusion production of the Higgs boson using the method in the ditau decay channel with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 658  | 4.2 | 26  |
| 480 | Measurement of total and differential $W + W$ production cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector and limits on anomalous triple-gauge-boson couplings. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016,   | 5.4 | 30  |
| 479 | Search for gluinos in events with an isolated lepton, jets and missing transverse momentum at [Formula: see text] = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 565  | 4.2 | 20  |
| 478 | Measurement of $W+W$ production in association with one jet in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 763, 114-133   | 4.2 | 3   |
| 477 | 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. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 763, 251-268  | 4.2 | 23  |
| 476 | Transverse momentum, rapidity, and centrality dependence of inclusive charged-particle production in $\sqrt{s}=5.02$ TeV p+Pb collisions measured by the ATLAS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 763, 313-336                                     | 4.2 | 29  |
| 475 | 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. <i>Physical Review D</i> , <b>2016</b> , 94,   | 4.9 | 126 |
| 474 | Measurement of the inclusive isolated prompt photon cross section in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 25  |
| 473 | Dijet production in $\sqrt{s}=7$ TeV pp collisions with large rapidity gaps at the ATLAS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 754, 214-234   | 4.2 | 23  |
| 472 | Search for a high-mass Higgs boson decaying to a W boson pair in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 59  |
| 471 | Constraints on non-Standard Model Higgs boson interactions in an effective Lagrangian using differential cross sections measured in the H- $\tau\tau$ decay channel at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 753, 69-85 | 4.2 | 29  |
| 470 | Measurement of $D^*_{s1}$ , $D^*_s$ and $D_s^*$ meson production cross sections in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Nuclear Physics B</i> , <b>2016</b> , 907, 717-763   | 2.8 | 32  |
| 469 | Search for flavour-changing neutral current top-quark decays to [Formula: see text] in [Formula: see text] collision data collected with the ATLAS detector at [Formula: see text] TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 12   | 4.2 | 16  |

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| 468 | Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in collision data at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 87  | 4.2 | 18 |
| 467 | Search for direct top squark pair production in final states with two tau leptons in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 81   | 4.2 | 7  |
| 466 | Search for charged Higgs bosons in the $H \rightarrow \tau b$ decay channel in pp collisions at ( $\sqrt{s}=8$ ) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 33 |
| 465 | Search for heavy long-lived charged R-hadrons with the ATLAS detector in 3.2 fb <sup>-1</sup> of proton-proton collision data at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 760, 647-665                             | 4.2 | 34 |
| 464 | Muon momentum scale and resolution in pp collisions at $s=8$ TeV in ATLAS. <i>Nuclear and Particle Physics Proceedings</i> , <b>2016</b> , 273-275, 2542-2544   | 0.4 |    |
| 463 | Measurement of $W \rightarrow \tau \nu$ and Z-boson production cross sections in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 601-621                                    | 4.2 | 64 |
| 462 | Search for TeV-scale gravity signatures in high-mass final states with leptons and jets with the ATLAS detector at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 760, 520-537   | 4.2 | 11 |
| 461 | Search for high-mass new phenomena in the dilepton final state using proton-proton collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 761, 372-392                                     | 4.2 | 48 |
| 460 | Search for new resonances in events with one lepton and missing transverse momentum in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 762, 334-352                              | 4.2 | 12 |
| 459 | Study of the rare decays of [Formula: see text] and [Formula: see text] into muon pairs from data collected during the LHC Run 1 with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 513  | 4.2 | 27 |
| 458 | Search for supersymmetry in a final state containing two photons and missing transverse momentum in [Formula: see text] TeV [Formula: see text] collisions at the LHC using the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 517                                    | 4.2 | 17 |
| 457 | Search for resonances in diphoton events at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 49 |
| 456 | Search for resonances in the mass distribution of jet pairs with one or two jets identified as b-jets in proton-proton collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 229-246 | 4.2 | 17 |
| 455 | Measurement of the total cross section from elastic scattering in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 761, 158-178  | 4.2 | 72 |
| 454 | Measurement of the $W \rightarrow Z$ boson pair-production cross section in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 762, 1-22  | 4.2 | 17 |
| 453 | Search for top squarks in final states with one isolated lepton, jets, and missing transverse momentum in $s=13$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , <b>2016</b> , 94,  | 4.9 | 41 |
| 452 | Search for single production of vector-like quarks decaying into in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2016</b> , 76, 442   | 4.2 | 24 |
| 451 | Measurement of the top quark mass in the $t \bar{t} \rightarrow \tau \nu$ dilepton channel from $s=8$ TeV ATLAS data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 761, 350-371  | 4.2 | 42 |



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| 450 | Search for charged Higgs bosons produced in association with a top quark and decaying via $H^\pm \rightarrow t\bar{b}$ using pp collision data recorded at $\sqrt{s}=13\text{TeV}$ by the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 555-574 | 4.2 | 44  |
| 449 | Measurement of the relative width difference of the $(\overline{B}^0)$ system with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 5   |
| 448 | Search for the $X_b$ and other hidden-beauty states in the $B^0(1S)$ channel at ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 740, 199-217  | 4.2 | 15  |
| 447 | Search for pair-produced long-lived neutral particles decaying to jets in the ATLAS hadronic calorimeter in pp collisions at $\sqrt{s}=8\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 743, 15-34   | 4.2 | 44  |
| 446 | Search for $W^+ \rightarrow \tau^+ \nu_\tau$ in the lepton plus jets final state in proton-proton collisions at a centre-of-mass energy of $\sqrt{s}=8\text{TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 743, 235-255                | 4.2 | 42  |
| 445 | Search for a CP-odd Higgs boson decaying to $Zh$ in pp collisions at $\sqrt{s}=8\text{TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 744, 163-183  | 4.2 | 88  |
| 444 | Search for Higgs and Z Boson Decays to $J/\psi$ and $\psi(nS)$ with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2015</b> , 114, 121801   | 7.4 | 33  |
| 443 | Search for Higgs boson pair production in the $B\bar{B}$ final state using pp collision data at $\sqrt{s}=8\text{TeV}$ from the ATLAS detector. <i>Physical Review Letters</i> , <b>2015</b> , 114, 081802   | 7.4 | 90  |
| 442 | Search for new phenomena in the dijet mass distribution using pp collision data at $\sqrt{s}=8\text{TeV}$ with the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 91,  | 4.9 | 196 |
| 441 | Measurements of the Nuclear Modification Factor for Jets in Pb+Pb Collisions at $\sqrt{s_{NN}}=2.76\text{TeV}$ with the ATLAS detector. <i>Physical Review Letters</i> , <b>2015</b> , 114, 072302   | 7.4 | 99  |
| 440 | Measurements of Higgs boson production and couplings in the four-lepton channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 91,   | 4.9 | 125 |
| 439 | Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $\sqrt{s}=8\text{TeV}$ with the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 91,  | 4.9 | 62  |
| 438 | Simultaneous measurements of the $t\bar{t}$ , $W+W$ and $Z/\gamma$ production cross-sections in pp collisions at $\sqrt{s}=7\text{TeV}$ with the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 91,  | 4.9 | 13  |
| 437 | Search for Scalar Charm Quark Pair Production in pp Collisions at $\sqrt{s}=8\text{TeV}$ with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2015</b> , 114, 161801   | 7.4 | 20  |
| 436 | Measurement of spin correlation in top-antitop quark events and search for top squark pair production in pp collisions at $\sqrt{s}=8\text{TeV}$ using the ATLAS detector. <i>Physical Review Letters</i> , <b>2015</b> , 114, 142001  | 7.4 | 48  |
| 435 | Measurement of the transverse polarization of $\Lambda$ and $\Sigma$ hyperons produced in proton-proton collisions at $\sqrt{s}=7\text{TeV}$ using the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 91,  | 4.9 | 13  |
| 434 | Jet energy measurement and its systematic uncertainty in proton-proton collisions at $\sqrt{s}=7\text{TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 17   | 4.2 | 194 |
| 433 | Search for invisible particles produced in association with single-top-quarks in proton-proton collisions at $\sqrt{s}=7\text{TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 79   | 4.2 | 21  |

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| 432 | Search for resonant diboson production in the [Formula: see text] final state in [Formula: see text] collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 69  | 4.2 | 62  |
| 431 | Measurements of the [Formula: see text] production cross sections in association with jets with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 82  | 4.2 | 54  |
| 430 | Search for dark matter in events with heavy quarks and missing transverse momentum in [Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 92  | 4.2 | 60  |
| 429 | Measurement of the ( $\overline{t}$ ) production cross-section as a function of jet multiplicity and jet transverse momentum in 7 TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1                                    | 5.4 | 14  |
| 428 | Measurement of the $W W + W Z$ cross section and limits on anomalous triple gauge couplings using final states with one lepton, missing transverse momentum, and two jets with the ATLAS detector at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1 | 5.4 | 12  |
| 427 | Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 29  |
| 426 | Search for the ( $\overline{b}$ ) decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 64  |
| 425 | Measurement of the inclusive jet cross-section in proton-proton collisions at ( $\sqrt{s}=7$ ) TeV using 4.5 fb $^{-1}$ of data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 27  |
| 424 | Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with ( $\sqrt{s}=8$ ) TeV pp collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 45  |
| 423 | Search for charged Higgs bosons decaying via $H \rightarrow \tau\tau$ in fully hadronic final states using pp collision data at ( $\sqrt{s}$ ) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 56  |
| 422 | Search for production of [Formula: see text] resonances decaying to a lepton, neutrino and jets in [Formula: see text] collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 209   | 4.2 | 73  |
| 421 | Performance of the ATLAS muon trigger in pp collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , <b>2015</b> , 75, 120  | 4.2 | 51  |
| 420 | Search for invisible decays of the Higgs boson produced in association with a hadronically decaying vector boson in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 337  | 4.2 | 27  |
| 419 | Search for Higgs boson pair production in the [Formula: see text] final state from collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 412   | 4.2 | 66  |
| 418 | Determination of spin and parity of the Higgs boson in the [Formula: see text] decay channel with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 231   | 4.2 | 15  |
| 417 | Search for new phenomena in final states with an energetic jet and large missing transverse momentum in collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 299  | 4.2 | 202 |
| 416 | Search for a new resonance decaying to a or boson and a Higgs boson in the [Formula: see text] final states with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 263  | 4.2 | 46  |
| 415 | Measurement of three-jet production cross-sections in [Formula: see text] collisions at 7 [Formula: see text] centre-of-mass energy using the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 228   | 4.2 | 18  |

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| 414 | Constraints on the off-shell Higgs boson signal strength in the high-mass and final states with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 335  | 4.2 | 56  |
| 413 | Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 303  | 4.2 | 49  |
| 412 | Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 476   | 4.2 | 104 |
| 411 | Observation and measurements of the production of prompt and non-prompt [Formula: see text] mesons in association with a [Formula: see text] boson in [Formula: see text] collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 229 | 4.2 | 38  |
| 410 | Search for the Standard Model Higgs boson produced in association with top quarks and decaying into [Formula: see text] in [Formula: see text] collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 349                            | 4.2 | 94  |
| 409 | Search for the associated production of the Higgs boson with a top quark pair in multilepton final states with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 749, 519-541   | 4.2 | 51  |
| 408 | Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in [Formula: see text] TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 318                                 | 4.2 | 44  |
| 407 | Search for heavy long-lived multi-charged particles in collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 362   | 4.2 | 22  |
| 406 | Two-particle Bose-Einstein correlations in collisions at [Formula: see text] 0.9 and 7 TeV measured with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 466   | 4.2 | 28  |
| 405 | Measurement of the top quark mass in the [Formula: see text] and [Formula: see text] channels using [Formula: see text][Formula: see text] ATLAS data. <i>European Physical Journal C</i> , <b>2015</b> , 75, 330   | 4.2 | 32  |
| 404 | ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. <i>European Physical Journal C</i> , <b>2015</b> , 75, 510  | 4.2 | 109 |
| 403 | Measurement of the correlation between flow harmonics of different order in lead-lead collisions at s <sub>NN</sub> =2.76 TeV with the ATLAS detector. <i>Physical Review C</i> , <b>2015</b> , 92,   | 2.7 | 59  |
| 402 | Search for massive supersymmetric particles decaying to many jets using the ATLAS detector in pp collisions at s=8 TeV. <i>Physical Review D</i> , <b>2015</b> , 91,  | 4.9 | 29  |
| 401 | Observation and measurement of Higgs boson decays to WW* with the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 92,  | 4.9 | 86  |
| 400 | Search for massive, long-lived particles using multitrack displaced vertices or displaced lepton pairs in pp collisions at s=8 TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 92,  | 4.9 | 75  |
| 399 | Measurements of the top quark branching ratios into channels with leptons and quarks with the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 92,  | 4.9 | 5   |
| 398 | Measurements of the Total and Differential Higgs Boson Production Cross Sections Combining the H→bb and H→ZZ <sup>*</sup> →4l Decay Channels at sqrt[s]=8 TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2015</b> , 115, 091801   | 7.4 | 32  |
| 397 | Measurement of differential J/ψ production cross sections and forward-backward ratios in p + Pb collisions with the ATLAS detector. <i>Physical Review C</i> , <b>2015</b> , 92,  | 2.7 | 19  |

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| 396 | Z boson production in p+Pb collisions at $\sqrt{s}=5.02$ TeV measured with the ATLAS detector. <i>Physical Review C</i> , <b>2015</b> , 92,  | 2.7 | 29 |
| 395 | Observation of top-quark pair production in association with a photon and measurement of the $t\bar{t}\gamma$ production cross section in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 91,     | 4.9 | 18 |
| 394 | Search for vectorlike B quarks in events with one isolated lepton, missing transverse momentum, and jets at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 91,   | 4.9 | 44 |
| 393 | Measurement of the top pair production cross section in 8 TeV proton-proton collisions using kinematic information in the lepton+jets final state with ATLAS. <i>Physical Review D</i> , <b>2015</b> , 91,   | 4.9 | 20 |
| 392 | Search for long-lived, weakly interacting particles that decay to displaced hadronic jets in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 92,  | 4.9 | 52 |
| 391 | Search for type-III seesaw heavy leptons in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 92,  | 4.9 | 17 |
| 390 | Search for high-mass diphoton resonances in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 92,  | 4.9 | 85 |
| 389 | Search for Higgs bosons decaying to $aa$ in the $\tau\tau$ final state in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS experiment. <i>Physical Review D</i> , <b>2015</b> , 92,  | 4.9 | 40 |
| 388 | Search for photonic signatures of gauge-mediated supersymmetry in 8 TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 92,  | 4.9 | 16 |
| 387 | Search for new light gauge bosons in Higgs boson decays to four-lepton final states in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector at the LHC. <i>Physical Review D</i> , <b>2015</b> , 92,  | 4.9 | 22 |
| 386 | Searches for Higgs boson pair production in the $hh\rightarrow b\bar{b}\gamma\gamma^*$ , $B\bar{B}$ , $bbbb$ channels with the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 92,  | 4.9 | 87 |
| 385 | Search for pair production of a new heavy quark that decays into a W boson and a light quark in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2015</b> , 92,  | 4.9 | 40 |
| 384 | Search for New Phenomena in Dijet Angular Distributions in Proton-Proton Collisions at $\sqrt{s}=8$ TeV Measured with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2015</b> , 114, 221802   | 7.4 | 18 |
| 383 | Search for a Charged Higgs Boson Produced in the Vector-Boson Fusion Mode with Decay $H(\bar{H})\rightarrow W(\bar{W})Z$ using pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Experiment. <i>Physical Review Letters</i> , <b>2015</b> , 114, 231801 | 7.4 | 36 |
| 382 | Search for a Heavy Neutral Particle Decaying to $e\bar{e}\gamma$ or $\mu\bar{\mu}\gamma$ in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2015</b> , 115, 031801                                      | 7.4 | 18 |
| 381 | Evidence of $W$ Production in pp Collisions at $\sqrt{s}=8$ TeV and Limits on Anomalous Quartic Gauge Couplings with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2015</b> , 115, 031802  | 7.4 | 20 |
| 380 | Search for Dark Matter in Events with Missing Transverse Momentum and a Higgs Boson Decaying to Two Photons in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2015</b> , 115, 131801                   | 7.4 | 32 |
| 379 | Determination of the Ratio of b-Quark Fragmentation Fractions $f(s)/f(d)$ in pp Collisions at $\sqrt{s}=7$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , <b>2015</b> , 115, 262001   | 7.4 | 15 |

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| 378 | Measurement of the production of neighbouring jets in lead-lead collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 751, 376-395  | 4.2 | 14 |
| 377 | Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 2  |
| 376 | A search for high-mass resonances decaying to $\mu\mu$ in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 22 |
| 375 | Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 interpreted in the phenomenological MSSM. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 42 |
| 374 | Search for lepton-flavour-violating H $\rightarrow \mu\tau$ decays of the Higgs boson with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 46 |
| 373 | Measurement of four-jet differential cross sections in ( $\sqrt{s}=8$ ) TeV proton-proton collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-76   | 5.4 | 5  |
| 372 | Measurement of transverse energy-energy correlations in multi-jet events in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector and determination of the strong coupling constant $\alpha_s(m_Z)$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 750, 427-447 | 4.2 | 19 |
| 371 | Measurement of colour flow with the jet pull angle in $t\bar{t}$ events using the ATLAS detector at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 750, 475-493  | 4.2 | 14 |
| 370 | Measurement of exclusive $\mu\mu$ production in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 749, 242-261  | 4.2 | 29 |
| 369 | A search for ( $\overline{t}$ ) resonances using lepton-plus-jets events in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 57 |
| 368 | Measurement of the forward-backward asymmetry of electron and muon pair-production in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 18 |
| 367 | Measurement of charged-particle spectra in Pb+Pb collisions at ( $\sqrt{s_{\text{NN}}}=2.76$ ) TeV with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 49 |
| 366 | Analysis of events with b-jets and a pair of leptons of the same charge in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 26 |
| 365 | Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 91 |
| 364 | Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-39  | 5.4 | 66 |
| 363 | Differential top-antitop cross-section measurements as a function of observables constructed from final-state particles using pp collisions at ( $\sqrt{s}=7$ ) TeV in the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 31 |
| 362 | Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 65 |
| 361 | Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 54 |

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| 360 | Search for new phenomena in events with three or more charged leptons in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5-4 | 16  |
| 359 | Summary of the searches for squarks and gluinos using ( $\sqrt{s}=8$ ) TeV pp collisions with the ATLAS experiment at the LHC. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5-4 | 55  |
| 358 | Determination of the top-quark pole mass using ( $\overline{t}$ ) + 1-jet events collected with the ATLAS experiment in 7 TeV pp collisions. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5-4 | 15  |
| 357 | Measurement of the ( $\overline{t}W$ ) and ( $\overline{t}Z$ ) production cross sections in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5-4 | 16  |
| 356 | Search for flavour-changing neutral current top quark decays $t \rightarrow Hq$ in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-65  | 5-4 | 18  |
| 355 | Centrality and rapidity dependence of inclusive jet production in $\sqrt{s}=5.02$ TeV proton-lead collisions with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 748, 392-413  | 4-2 | 77  |
| 354 | Search for heavy lepton resonances decaying to a Z boson and a lepton in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5-4 | 22  |
| 353 | Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , <b>2015</b> , 114, 191803  | 7-4 | 709 |
| 352 | Search for squarks and gluinos in events with isolated leptons, jets and missing transverse momentum at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5-4 | 37  |
| 351 | Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5-4 | 74  |
| 350 | Measurement of the charge asymmetry in dileptonic decays of top quark pairs in pp collisions at ( $\sqrt{s}=7$ ) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5-4 | 16  |
| 349 | Search for [Formula: see text] decays in [Formula: see text] collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 165  | 4-2 | 25  |
| 348 | Measurement of the top-quark mass in the fully hadronic decay channel from ATLAS data at [Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 158  | 4-2 | 8   |
| 347 | Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in [Formula: see text] TeV [Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 208  | 4-2 | 50  |
| 346 | Study of (W/Z)H production and Higgs boson couplings using $H \rightarrow W W^*$ decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5-4 | 14  |
| 345 | Measurement of the branching ratio $(\mathcal{B}(B^0 \rightarrow \mu^+ \mu^-)) / (\mathcal{B}(B^0 \rightarrow \mu^+ D))$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 751, 63-80  | 4-2 | 9   |
| 344 | Search for metastable heavy charged particles with large ionisation energy loss in collisions at [Formula: see text] TeV using the ATLAS experiment. <i>European Physical Journal C</i> , <b>2015</b> , 75, 407   | 4-2 | 18  |
| 343 | Search for H-produced in association with top quarks and constraints on the Yukawa coupling between the top quark and the Higgs boson using data taken at 7 TeV and 8 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 740, 222-242 | 4-2 | 55  |

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| 342 | Search for s-channel single top-quark production in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 740, 118-136  | 4.2 | 16  |
| 341 | Measurement of the production and lepton charge asymmetry of [Formula: see text] bosons in Pb+Pb collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2015</b> , 75, 23   | 4.2 | 31  |
| 340 | Search for production of (WW/WZ) resonances decaying to a lepton, neutrino and jets in (pp) collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector <b>2015</b> , 75, 1  |     | 1   |
| 339 | Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector <b>2015</b> , 75, 1   |     | 2   |
| 338 | Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector <b>2015</b> , 75, 1   |     | 3   |
| 337 | ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider <b>2015</b> , 75, 1  |     | 3   |
| 336 | Measurement of the inclusive jet cross-section in proton-proton collisions at ( $\sqrt{s}=7$ ) TeV using 4.5 fb <sup>-1</sup> of data with the ATLAS detector <b>2015</b> , 2015, 1   |     | 3   |
| 335 | Measurement of the top quark pair production charge asymmetry in proton-proton collisions at ( $\sqrt{s}$ ) = 7 TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 24  |
| 334 | Measurement of the mass difference between top and anti-top quarks in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 728, 363-379   | 4.2 | 8   |
| 333 | Search for the direct production of charginos, neutralinos and staus in final states with at least two hadronically decaying taus and missing transverse momentum in pp collisions at ( $\sqrt{s}=8$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1 | 5.4 | 29  |
| 332 | The differential production cross section of the [Formula: see text](1020) meson in [Formula: see text] = 7 TeV [Formula: see text] collisions measured with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2895  | 4.2 | 12  |
| 331 | Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2941   | 4.2 | 160 |
| 330 | Measurement of the underlying event in jet events from 7 (text {TeV}) proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1  | 4.2 | 18  |
| 329 | Measurement of the centrality and pseudorapidity dependence of the integrated elliptic flow in lead-lead collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2982   | 4.2 | 18  |
| 328 | Light-quark and gluon jet discrimination in [Formula: see text] collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3023  | 4.2 | 46  |
| 327 | Measurement of the electroweak production of dijets in association with a Z-boson and distributions sensitive to vector boson fusion in proton-proton collisions at ( $\sqrt{s}$ ) = 8 TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                | 5.4 | 14  |
| 326 | Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in ( $\sqrt{s}$ ) = 8 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 76  |
| 325 | Measurement of the production cross section of prompt J/ψ mesons in association with a W boson in pp collisions at ( $\sqrt{s}$ ) = 7 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 24  |

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| 324 | Measurement of dijet cross-sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 17  |
| 323 | Measurement of the production of a W boson in association with a charm quark in pp collisions at ( $\sqrt{s}$ ) = 7 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 37  |
| 322 | Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at ( $\sqrt{s}$ ) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                           | 5.4 | 120 |
| 321 | Search for top quark decays $t \rightarrow qH$ with $H \rightarrow \mu\mu$ using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014,   | 5.4 | 30  |
| 320 | Search for supersymmetry at ( $\sqrt{s}$ ) = 8 TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 39  |
| 319 | Measurement of the low-mass Drell-Yan differential cross section at ( $\sqrt{s}$ ) = 7 TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 18  |
| 318 | Search for direct top-squark pair production in final states with two leptons in pp collisions at ( $\sqrt{s}$ ) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 52  |
| 317 | Measurement of $\tau_1$ and $\tau_2$ production with ( $\sqrt{s}$ ) = 7 TeV pp collisions at ATLAS. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 26  |
| 316 | Search for microscopic black holes and string balls in final states with leptons and jets with the ATLAS detector at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 6   |
| 315 | Search for new particles in events with one lepton and missing transverse momentum in pp collisions at ( $\sqrt{s}$ ) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 40  |
| 314 | Search for direct top squark pair production in events with a [Formula: see text] boson, [Formula: see text]-jets and missing transverse momentum in [Formula: see text] TeV [Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2883 | 4.2 | 41  |
| 313 | Search for new phenomena in photon+jet events collected in proton-proton collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 728, 562-578  | 4.2 | 33  |
| 312 | Operation and performance of the ATLAS semiconductor tracker. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, P08009-P08009   | 1   | 12  |
| 311 | Standalone vertex finding in the ATLAS muon spectrometer. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, P02001-P02001   |     |     |
| 310 | Monitoring and data quality assessment of the ATLAS liquid argon calorimeter. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, P07024-P07024   | 1   | 15  |
| 309 | Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at ( $\sqrt{s}$ )=8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 67  |
| 308 | Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s}$ =7TeV with the ATLAS detector. <i>Nuclear Physics B</i> , <b>2014</b> , 889, 486-548   | 2.8 | 105 |
| 307 | Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3130   | 4.2 | 166 |



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| 306 | Measurement of Higgs boson production in the diphoton decay channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,  | 4.9 | 175 |
| 305 | Comprehensive measurements of t-channel single top-quark production cross sections at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,  | 4.9 | 47  |
| 304 | Measurements of spin correlation in top-antitop quark events from proton-proton collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,   | 4.9 | 27  |
| 303 | Measurements of jet vetoes and azimuthal decorrelations in dijet events produced in [Formula: see text] collisions at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3117   | 4.2 | 17  |
| 302 | A measurement of the ratio of the production cross sections for [Formula: see text] and [Formula: see text] bosons in association with jets with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3168  | 4.2 | 16  |
| 301 | Measurements of fiducial and differential cross sections for Higgs boson production in the diphoton decay channel at ( $\sqrt{s}=8$ ) TeV with ATLAS. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 30  |
| 300 | Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 20 fb <sup>-1</sup> of ( $\sqrt{s}$ ) = 8 TeV proton-proton collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1               | 5.4 | 9   |
| 299 | Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using ( $\sqrt{s}=8$ ) TeV proton-proton collision data. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 108 |
| 298 | Search for nonpointing and delayed photons in the diphoton and missing transverse momentum final state in 8 TeV pp collisions at the LHC using the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,   | 4.9 | 35  |
| 297 | Measurement of the [Formula: see text] production cross-section using [Formula: see text] events with [Formula: see text]-tagged jets in [Formula: see text] collisions at [Formula: see text] and 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3109   | 4.2 | 107 |
| 296 | Search for WZ resonances in the fully leptonic channel using pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 737, 223-243  | 4.2 | 52  |
| 295 | Search for the Standard Model Higgs boson decay to $\mu\mu$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 738, 68-86   | 4.2 | 52  |
| 294 | Measurement of the cross section of high transverse momentum $Z\rightarrow b\bar{b}$ production in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 738, 25-43     | 4.2 | 10  |
| 293 | Fiducial and differential cross sections of Higgs boson production measured in the four-lepton decay channel in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 738, 234-253 | 4.2 | 55  |
| 292 | Search for new resonances in $W\mu$ and $Z\mu$ final states in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 738, 428-447  | 4.2 | 112 |
| 291 | Measurement of inclusive jet charged-particle fragmentation functions in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 739, 320-342                             | 4.2 | 109 |
| 290 | Measurement of the cross-section of high transverse momentum vector bosons reconstructed as single jets and studies of jet substructure in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>New Journal of Physics</i> , <b>2014</b> , 16, 113013                                  | 2.9 | 19  |
| 289 | Search for quantum black hole production in high-invariant-mass lepton+jet final states using pp collisions at $\sqrt{s}=8$ TeV and the ATLAS detector. <i>Physical Review Letters</i> , <b>2014</b> , 112, 091804  | 7.4 | 25  |

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| 288 | Search for high-mass dilepton resonances in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,   | 4.9 | 209 |
| 287 | Measurements of four-lepton production at the Z resonance in pp collisions at $\sqrt{s} = 7$ and 8 TeV with ATLAS. <i>Physical Review Letters</i> , <b>2014</b> , 112, 231806   | 7.4 | 34  |
| 286 | Evidence for electroweak production of $W\Xi Wjj$ in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2014</b> , 113, 141803  | 7.4 | 73  |
| 285 | Measurements of normalized differential cross sections for $t\bar{t}$ production in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,  | 4.9 | 64  |
| 284 | Flavor tagged time-dependent angular analysis of the $B_{s0}\rightarrow\mu\bar{\mu}$ decay and extraction of $\beta$ and the weak phase $\gamma_s$ in ATLAS. <i>Physical Review D</i> , <b>2014</b> , 90,   | 4.9 | 21  |
| 283 | Search for dark matter in events with a Z boson and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,  | 4.9 | 79  |
| 282 | Search for scalar diphoton resonances in the mass range 65-600 GeV with the ATLAS detector in pp collision data at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2014</b> , 113, 171801   | 7.4 | 117 |
| 281 | Search for Invisible Decays of a Higgs Boson Produced in Association with a Z Boson in ATLAS. <i>Physical Review Letters</i> , <b>2014</b> , 112,   | 7.4 | 113 |
| 280 | Measurement of the inclusive isolated prompt photons cross section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector using $4.6\text{ fb}^{-1}$ . <i>Physical Review D</i> , <b>2014</b> , 89,   | 4.9 | 39  |
| 279 | Search for a multi-Higgs-boson cascade in $W+W\Xi b\bar{b}$ events with the ATLAS detector in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2014</b> , 89,   | 4.9 | 12  |
| 278 | Measurement of the parity-violating asymmetry parameter $\beta_b$ and the helicity amplitudes for the decay $B_{0}\rightarrow\mu\bar{\mu}$ with the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 89,                                  | 4.9 | 17  |
| 277 | Search for the lepton flavor violating decay $Z\rightarrow e\mu$ in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,   | 4.9 | 37  |
| 276 | Study of heavy-flavor quarks produced in association with top-quark pairs at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 89,  | 4.9 | 10  |
| 275 | Measurement of the Higgs boson mass from the $H\rightarrow\Xi$ and $H\rightarrow ZZ^*\rightarrow 4\ell$ channels in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90, | 4.9 | 151 |
| 274 | Search for dark matter in events with a hadronically decaying W or Z boson and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2014</b> , 112, 041802               | 7.4 | 117 |
| 273 | Measurement of long-range pseudorapidity correlations and azimuthal harmonics in $\sqrt{s_{NN}}=5.02$ TeV proton-lead collisions with the ATLAS detector. <i>Physical Review C</i> , <b>2014</b> , 90,  | 2.7 | 87  |
| 272 | Observation of an excited $B_c(\Xi)$ meson state with the ATLAS detector. <i>Physical Review Letters</i> , <b>2014</b> , 113, 212004  | 7.4 | 52  |
| 271 | Measurement of event-plane correlations in $\sqrt{s_{NN}}=2.76$ TeV lead-lead collisions with the ATLAS detector. <i>Physical Review C</i> , <b>2014</b> , 90,  | 2.7 | 109 |

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| 270 | Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,  | 4.9 | 115 |
| 269 | Search for supersymmetry in events with four or more leptons in $\sqrt{s}=8$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , <b>2014</b> , 90,  | 4.9 | 38  |
| 268 | Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $(\sqrt{s}) = 8$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                          | 5.4 | 54  |
| 267 | Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at $\sqrt{s}=7$ TeV in 2010. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3034   | 4.2 | 45  |
| 266 | Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1   | 4.2 | 160 |
| 265 | Search for contact interactions and large extra dimensions in the dilepton channel using proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3134  | 4.2 | 31  |
| 264 | Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3157  | 4.2 | 52  |
| 263 | Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in $\sqrt{s}=7$ TeV collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3195                                      | 4.2 | 21  |
| 262 | Search for direct pair production of the top squark in all-hadronic final states in proton-proton collisions at $(\sqrt{s}) = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 36  |
| 261 | Measurement of the production cross-section of $(ZS) \rightarrow \ell\ell + \text{jet} + \text{jet}$ in pp collisions at $(\sqrt{s}) = 7$ TeV at ATLAS. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 16  |
| 260 | Measurement of the Z/ $\gamma$ boson transverse momentum distribution in pp collisions at $(\sqrt{s}=7)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 79  |
| 259 | Search for strong production of supersymmetric particles in final states with missing transverse momentum and at least three b-jets at $(\sqrt{s}) = 8$ TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1 | 5.4 | 31  |
| 258 | Measurement of differential production cross-sections for a Z boson in association with b-jets in 7 TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 26  |
| 257 | Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 38  |
| 256 | Search for pair and single production of new heavy quarks that decay to a Z boson and a third-generation quark in pp collisions at $(\sqrt{s}=8)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                                | 5.4 | 29  |
| 255 | Search for Higgs boson decays to a photon and a Z boson in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 732, 8-27   | 4.2 | 66  |
| 254 | Measurement of the $(\overline{t})$ production cross-section using $(\mu\mu)$ events with (b)-tagged jets in (pp) collisions at $(\sqrt{s}=7)$ and 8 TeV with the ATLAS detector <b>2014</b> , 74, 1  |     | 2   |
| 253 | Measurement of the production cross section of jets in association with a Z boson in pp collisions at $(\sqrt{s}=7)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 50  |

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| 252 | Measurement of the cross-section for W boson production in association with b-jets in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 34  |
| 251 | Search for third generation scalar leptoquarks in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 30  |
| 250 | Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 124 |
| 249 | Measurement of ZZ production in pp collisions at ( $\sqrt{s}=7$ ) TeV and limits on anomalous ZZZ and ZZ couplings with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 45  |
| 248 | Search for charged Higgs bosons through the violation of lepton universality in ( $\overline{t}$ ) events using pp collision data at ( $\sqrt{s}=7$ ) TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1                 | 5.4 | 14  |
| 247 | Search for the neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 47  |
| 246 | Measurement of splitting scales in $\tau$ -events at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2432  | 4.2 | 8   |
| 245 | Search for a light charged Higgs boson in the decay channel [Formula: see text] in [Formula: see text] events using collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2465                         | 4.2 | 76  |
| 244 | Measurement of angular correlations in Drell-Yan lepton pairs to probe Z boson transverse momentum at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 720, 32-51 | 4.2 | 33  |
| 243 | A search for high-mass resonances decaying to $\tau\tau$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 719, 242-260  | 4.2 | 15  |
| 242 | Search for displaced muonic lepton jets from light Higgs boson decay in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 721, 32-50   | 4.2 | 25  |
| 241 | Measurement of the high-mass Drell-Yan differential cross-section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 725, 223-242               | 4.2 | 55  |
| 240 | Searches for heavy long-lived sleptons and R-hadrons with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 720, 277-308                            | 4.2 | 36  |
| 239 | Evidence for the spin-0 nature of the Higgs boson using ATLAS data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 726, 120-144   | 4.2 | 267 |
| 238 | Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 726, 88-119                               | 4.2 | 268 |
| 237 | Search for $tt$ resonances in the lepton plus jets final state with ATLAS using 4.7 fb <sup>-1</sup> of pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2013</b> , 88,  | 4.9 | 38  |
| 236 | Search for direct third-generation squark pair production in final states with missing transverse momentum and two b-jets in ( $\sqrt{s}=8$ ) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1             | 5.4 | 92  |
| 235 | Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at ( $\sqrt{s}=8$ ) TeV proton-proton collisions using the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1                  | 5.4 | 64  |

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| 234 | Measurement of the differential cross-section of B + meson production in pp collisions at ( $\sqrt{s}=7$ ) TeV at ATLAS. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 24  |
| 233 | Performance of jet substructure techniques for large-R jets in proton-proton collisions at ( $\sqrt{s}=7$ ) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5-4 | 43  |
| 232 | Improved luminosity determination in collisions at [Formula: see text] using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2518   | 4-2 | 276 |
| 231 | Measurement of the inclusive jet cross-section in collisions at [Formula: see text] and comparison to the inclusive jet cross-section at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2509  | 4-2 | 71  |
| 230 | Multi-channel search for squarks and gluinos in [Formula: see text] collisions with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2362  | 4-2 | 25  |
| 229 | Jet energy measurement with the ATLAS detector in proton-proton collisions at ( $\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1   | 4-2 | 209 |
| 228 | Measurement of jet shapes in top-quark pair events at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2676   | 4-2 | 18  |
| 227 | Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at ( $\sqrt{s_{NN}}=2.76$ TeV) with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 143 |
| 226 | Measurement of the top quark charge in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5-4 | 15  |
| 225 | Search for charginos nearly mass degenerate with the lightest neutralino based on a disappearing-track signature in pp collisions at ( $\sqrt{s}=8$ TeV) with the ATLAS detector. <i>Physical Review D</i> , <b>2013</b> , 88,  | 4-9 | 92  |
| 224 | ATLAS search for new phenomena in dijet mass and angular distributions using pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5-4 | 72  |
| 223 | Measurement of isolated-photon pair production in pp collisions at ( $\sqrt{s}=7$ ;TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 44  |
| 222 | Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 55  |
| 221 | Search for direct chargino production in anomaly-mediated supersymmetry breaking models based on a disappearing-track signature in pp collisions at ( $\sqrt{s}=7$ ;TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1                                 | 5-4 | 15  |
| 220 | Search for single . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 721, 171-189  | 4-2 | 9   |
| 219 | Measurement of the jet radius and transverse momentum dependence of inclusive jet suppression in lead-lead collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 719, 220-241 | 4-2 | 165 |
| 218 | Search for light top squark pair production in final states with leptons and b-jets with the ATLAS detector in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 720, 13-31   | 4-2 | 33  |
| 217 | Dynamics of isolated-photon plus jet production in pp collisions at . <i>Nuclear Physics B</i> , <b>2013</b> , 875, 483-535.8   |     | 24  |

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| 216 | Measurement with the ATLAS detector of multi-particle azimuthal correlations in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 725, 60-78   | 4.2 | 153 |
| 215 | Search for supersymmetry in events with photons, bottom quarks, and missing transverse momentum in proton-proton collisions at a centre-of-mass energy of 7 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 719, 261-279  | 4.2 | 6   |
| 214 | Search for pair production of heavy top-like quarks decaying to a high-pT W boson and a b quark in the lepton plus jets final state at $\sqrt{s}=7\text{TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 1284-1302  | 4.2 | 37  |
| 213 | A search for prompt lepton-jets in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 719, 299-317   | 4.2 | 27  |
| 212 | Search for long-lived, multi-charged particles in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 722, 305-323  | 4.2 | 35  |
| 211 | Search for a heavy narrow resonance decaying to $e\bar{e}$ or $\mu\bar{\mu}$ with the ATLAS detector in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 723, 15-32   | 4.2 | 13  |
| 210 | Search for long-lived, heavy particles in final states with a muon and multi-track displaced vertex in proton-proton collisions at $\sqrt{s}=7\text{TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 719, 280-298        | 4.2 | 39  |
| 209 | Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at ( $\sqrt{s} = 7 \text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1  | 4.2 | 55  |
| 208 | Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton-proton collisions at ( $\sqrt{s} = 7 \text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1   | 4.2 | 44  |
| 207 | Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in $\sqrt{s}=7 \text{ TeV}$ pp collisions with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 841-859 | 4.2 | 24  |
| 206 | Search for new phenomena in the . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 860-878   | 4.2 | 22  |
| 205 | Search for direct slepton and gaugino production in final states with two leptons and missing transverse momentum with the ATLAS detector in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 879-901                           | 4.2 | 35  |
| 204 | Measurement of the flavour composition of dijet events in pp collisions at ( $\sqrt{s}=7 \text{ TeV}$ ) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1  | 4.2 | 12  |
| 203 | Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1   | 4.2 | 41  |
| 202 | Jet energy resolution in proton-proton collisions at [Formula: see text] recorded in 2010 with the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2306   | 4.2 | 153 |
| 201 | Measurement of the [Formula: see text] production cross section in the tau + jets channel using the ATLAS detector. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2328  | 4.2 | 30  |
| 200 | Measurement of top quark polarization in top-antitop events from proton-proton collisions at $\sqrt{s}=7 \text{ TeV}$ using the ATLAS detector. <i>Physical Review Letters</i> , <b>2013</b> , 111, 232002   | 7.4 | 40  |
| 199 | Search for excited electrons and muons in $\sqrt{s}=8 \text{ TeV}$ proton-proton collisions with the ATLAS detector. <i>New Journal of Physics</i> , <b>2013</b> , 15, 093011  | 2.9 | 16  |

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| 198 | Measurement of hard double-parton interactions in $W(\rightarrow b) + 2$ -jet events at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>New Journal of Physics</i> , <b>2013</b> , 15, 033038  | 2.9 | 116 |
| 197 | Search for $WH$ production with a light Higgs boson decaying to prompt electron-jets in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>New Journal of Physics</i> , <b>2013</b> , 15, 043009                            | 2.9 | 15  |
| 196 | Search for extra dimensions in diphoton events from proton-proton collisions at $\sqrt{s} = 7$ TeV in the ATLAS detector at the LHC. <i>New Journal of Physics</i> , <b>2013</b> , 15, 043007   | 2.9 | 35  |
| 195 | Search for resonant diboson production in the $WW/WZ \rightarrow b\bar{b}$ decay channels with the ATLAS detector at $s = 7$ TeV. <i>Physical Review D</i> , <b>2013</b> , 87,  | 4.9 | 18  |
| 194 | Observation of associated near-side and away-side long-range correlations in $\sqrt{s(NN)} = 5.02$ TeV proton-lead collisions with the ATLAS detector. <i>Physical Review Letters</i> , <b>2013</b> , 110, 182302                                   | 7.4 | 333 |
| 193 | Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using 4.7 fb of $s = 7$ TeV proton-proton collision data. <i>Physical Review D</i> , <b>2013</b> , 87,                             | 4.9 | 101 |
| 192 | Measurement of $\epsilon$ production in 7 TeV pp collisions at ATLAS. <i>Physical Review D</i> , <b>2013</b> , 87,  | 4.9 | 68  |
| 191 | Search for nonpointing photons in the diphoton and $ET_{\text{miss}}$ final state in $s = 7$ TeV proton-proton collisions using the ATLAS detector. <i>Physical Review D</i> , <b>2013</b> , 88,  | 4.9 | 13  |
| 190 | Search for dark matter candidates and large extra dimensions in events with a photon and missing transverse momentum in pp collision data at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2013</b> , 110, 011802 | 7.4 | 99  |
| 189 | Search for long-lived stopped R-hadrons decaying out of time with pp collisions using the ATLAS detector. <i>Physical Review D</i> , <b>2013</b> , 88,  | 4.9 | 53  |
| 188 | Search for contact interactions and large extra dimensions in dilepton events from pp collisions at $s = 7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2013</b> , 87,   | 4.9 | 34  |
| 187 | Measurement of charged-particle event shape variables in inclusive ( $s = 7$ TeV proton-proton interactions with the ATLAS detector. <i>Physical Review D</i> , <b>2013</b> , 88,   | 4.9 | 10  |
| 186 | Measurement of Z boson production in Pb-Pb collisions at $\sqrt{s(NN)} = 2.76$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2013</b> , 110, 022301  | 7.4 | 51  |
| 185 | Measurement of $W+W\bar{\nu}$ production in pp collisions at $s = 7$ TeV with the ATLAS detector and limits on anomalous $WWZ$ and $WW\tau$ couplings. <i>Physical Review D</i> , <b>2013</b> , 87,   | 4.9 | 70  |
| 184 | Measurement of the $B_0$ lifetime and mass in the ATLAS experiment. <i>Physical Review D</i> , <b>2013</b> , 87,  | 4.9 | 17  |
| 183 | Search for microscopic black holes in a like-sign dimuon final state using large track multiplicity with the ATLAS detector. <i>Physical Review D</i> , <b>2013</b> , 88,   | 4.9 | 13  |
| 182 | Search for new phenomena in events with three charged leptons at $s = 7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2013</b> , 87,  | 4.9 | 14  |
| 181 | Measurements of $W\bar{\nu}$ and $Z\bar{\nu}$ production in pp collisions at $s = 7$ TeV with the ATLAS detector at the LHC. <i>Physical Review D</i> , <b>2013</b> , 87,   | 4.9 | 49  |

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| 180 | Measurement of the azimuthal angle dependence of inclusive jet yields in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2013</b> , 111, 152301  | 7.4 | 45  |
| 179 | Search for a heavy Standard Model Higgs boson in the channel $H \rightarrow ZZ \rightarrow 4q$ using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 27-45  | 4.2 | 15  |
| 178 | Measurement of the $\sigma_{\text{had}}^{\text{had}}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 706, 276-294   | 4.2 | 12  |
| 177 | Measurement of the cross-section for b-jets produced in association with a Z boson at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 706, 295-313   | 4.2 | 23  |
| 176 | Measurement of the cross section for the production of a W boson in association with b-jets in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 418-437                                   | 4.2 | 30  |
| 175 | Measurements of the electron and muon inclusive cross-sections in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 438-458   | 4.2 | 42  |
| 174 | Measurement of the top quark pair production cross section in pp collisions at $\sqrt{s}=7$ TeV in dilepton final states with ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 459-477  | 4.2 | 41  |
| 173 | Measurement of the pseudorapidity and transverse momentum dependence of the elliptic flow of charged particles in lead-lead collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 330-348 | 4.2 | 200 |
| 172 | Search for displaced vertices arising from decays of new heavy particles in 7 TeV pp collisions at ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 478-496   | 4.2 | 35  |
| 171 | Search for new physics in the dijet mass distribution using 1 fb $^{-1}$ of pp collision data at $\sqrt{s}=7$ TeV collected by the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 708, 37-54  | 4.2 | 72  |
| 170 | A measurement of the ratio of the W and Z cross sections with exactly one associated jet in pp collisions at $\sqrt{s}=7$ TeV with ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 708, 221-240   | 4.2 | 8   |
| 169 | Searches for supersymmetry with the ATLAS detector using final states with two leptons and missing transverse momentum in $\sqrt{s}=7$ TeV proton-proton collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 709, 137-157                        | 4.2 | 54  |
| 168 | Search for first generation scalar leptoquarks in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 709, 158-176  | 4.2 | 40  |
| 167 | Combined search for the Standard Model Higgs boson using up to 4.9 fb $^{-1}$ of pp collision data at $\sqrt{s}=7$ TeV with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 49-66                                    | 4.2 | 301 |
| 166 | Measurement of the centrality dependence of the charged particle pseudorapidity distribution in lead-lead collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 363-382   | 4.2 | 104 |
| 165 | Search for strong gravity signatures in same-sign dimuon final states using the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 709, 322-340  | 4.2 | 16  |
| 164 | Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $\sqrt{s}=7$ TeV proton-proton collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 67-85                             | 4.2 | 142 |
| 163 | Measurement of the $W \rightarrow Z$ production cross section and limits on anomalous triple gauge couplings in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 709, 341-357       | 4.2 | 18  |



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| 162 | Search for diphoton events with large missing transverse momentum in 1 fb <sup>-1</sup> of 7 TeV proton-proton collision data with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 519-537                         | 4.2 | 18 |
| 161 | Search for the Standard Model Higgs boson in the decay channel $H \rightarrow ZZ(\gamma\gamma)$ with 4.8 fb <sup>-1</sup> of pp collision data at $\sqrt{s}=7$ TeV with ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 383-402 | 4.2 | 86 |
| 160 | Search for extra dimensions using diphoton events in 7 TeV proton-proton collisions with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 538-556   | 4.2 | 35 |
| 159 | Search for heavy vector-like quarks coupling to light quarks in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 712, 22-39  | 4.2 | 29 |
| 158 | Measurement of the top quark pair production cross-section with ATLAS in the single lepton channel. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 711, 244-263  | 4.2 | 64 |
| 157 | Search for contact interactions in dilepton events from pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 712, 40-58   | 4.2 | 8  |
| 156 | Measurement of the WW cross section in $pp \rightarrow WW + X$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 712, 289-308   | 4.2 | 33 |
| 155 | Search for new particles decaying to ZZ using final states with leptons and jets with the ATLAS detector in $\sqrt{s}=7$ TeV proton-proton collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 712, 331-350                         | 4.2 | 15 |
| 154 | Search for FCNC single top-quark production at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 712, 351-369   | 4.2 | 35 |
| 153 | Search for decays of stopped, long-lived particles from 7 TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2 | 14 |
| 152 | Measurement of the polarisation of W bosons produced with large transverse momentum in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2 | 31 |
| 151 | Measurement of the charge asymmetry in top quark pair production in collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2039  | 4.2 | 78 |
| 150 | Search for lepton flavour violation in the continuum with the ATLAS detector in $pp \rightarrow \ell^+ \ell^- + X$ collisions at the LHC. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2040   | 4.2 | 10 |
| 149 | Measurement of the top quark mass with the template method in the $t\bar{t} \rightarrow b\bar{b} + X$ channel using ATLAS data. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2046   | 4.2 | 42 |
| 148 | Search for heavy neutrinos and right-handed bosons in events with two leptons and jets in collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2056   | 4.2 | 78 |
| 147 | Measurement of polarization in $t\bar{t} \rightarrow b\bar{b} + X$ decays with the ATLAS detector in collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2062  | 4.2 | 17 |
| 146 | Measurement of the cross section for top-quark pair production in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ with the ATLAS detector using final states with two high-p <sub>T</sub> leptons. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                                      | 5.4 | 43 |
| 145 | Jet mass and substructure of inclusive jets in $(\sqrt{s} = 7 \text{ TeV})$ pp collisions with the ATLAS experiment. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 67 |

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| 144 | Measurement of inclusive two-particle angular correlations in pp collisions with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 10  |
| 143 | Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in 4.7 fb <sup>-1</sup> of ( $\sqrt{s} = 7$ ;TeV) proton-proton collisions. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 48  |
| 142 | A search for ( $\overline{t}$ ) resonances in lepton+jets events with highly boosted top quarks collected in pp collisions at ( $\sqrt{s} = 7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1 | 5-4 | 39  |
| 141 | Search for the Standard Model Higgs boson in the $H \rightarrow \tau\tau$ decay mode in ( $\sqrt{s} = 7$ ,{TeV}) pp collisions with ATLAS. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                                    | 5-4 | 37  |
| 140 | A search for flavour changing neutral currents in top-quark decays in pp collision data collected with the ATLAS detector at ( $\sqrt{s}=7$ ;TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                            | 5-4 | 31  |
| 139 | Measurements of the pseudorapidity dependence of the total transverse energy in proton-proton collisions at ( $\sqrt{s}=7$ ) TeV with ATLAS. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                                  | 5-4 | 11  |
| 138 | Search for a heavy top-quark partner in final states with two leptons with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 53  |
| 137 | Search for high-mass resonances decaying to dilepton final states in pp collisions at ( $\sqrt{s}=7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 49  |
| 136 | Search for anomalous production of prompt like-sign lepton pairs at ( $\sqrt{s}=7$ ;{TeV}) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 16  |
| 135 | Time-dependent angular analysis of the decay $B_s^0 \rightarrow J/\psi \phi$ and extraction of $\beta$ and the CP-violating weak phase $\gamma$ by ATLAS. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012,                       | 5-4 | 23  |
| 134 | Search for pair production of massive particles decaying into three quarks with the ATLAS detector in ( $\sqrt{s}=7$ ;{TeV}) pp collisions at the LHC. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                        | 5-4 | 45  |
| 133 | Search for R-parity-violating supersymmetry in events with four or more leptons in ( $\sqrt{s}=7$ ;{TeV}) pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                              | 5-4 | 13  |
| 132 | Search for excited leptons in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,  | 4-9 | 13  |
| 131 | Measurement of the isolated diphoton cross section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,   | 4-9 | 35  |
| 130 | $K_S^0$ and $\Lambda$ production in pp interactions at $\sqrt{s}=0.9$ and 7 TeV measured with the ATLAS detector at the LHC. <i>Physical Review D</i> , <b>2012</b> , 85,   | 4-9 | 20  |
| 129 | Measurement of the production cross section for $Z/\gamma$ in association with jets in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,  | 4-9 | 28  |
| 128 | Measurement of the inclusive $W/\gamma$ and $Z/\gamma$ cross sections in the e and $\mu$ decay channels in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,                          | 4-9 | 117 |
| 127 | Search for supersymmetry in pp collisions at $\sqrt{s}=7$ TeV in final states with missing transverse momentum and b-jets with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,   | 4-9 | 29  |

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| 126 | Measurement of the transverse momentum distribution of W bosons in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,   | 4.9  | 34   |
| 125 | Search for the standard model Higgs boson in the diphoton decay channel with 4.9 fb <sup>-1</sup> of pp collision data at $\sqrt{s}=7$ TeV with ATLAS. <i>Physical Review Letters</i> , <b>2012</b> , 108, 111803  | 7.4  | 157  |
| 124 | A particle consistent with the Higgs boson observed with the ATLAS detector at the Large Hadron Collider. <i>Science</i> , <b>2012</b> , 338, 1576-82  | 33.3 | 56   |
| 123 | Search for supersymmetry in final states with jets, missing transverse momentum and one isolated lepton in $\sqrt{s}=7$ TeV pp collisions using 1 fb <sup>-1</sup> of ATLAS data. <i>Physical Review D</i> , <b>2012</b> , 85,   | 4.9  | 53   |
| 122 | Measurement of the b-hadron production cross section using decays to $\mu\mu$ . <i>Nuclear Physics B</i> , <b>2012</b> , 864, 341-381  | 2.8  | 17   |
| 121 | Search for the decay $\mu\mu\mu$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 713, 387-407  | 4.2  | 55   |
| 120 | Search for events with large missing transverse momentum, jets, and at least two tau leptons in 7 TeV proton-proton collision data with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 714, 180-196                                   | 4.2  | 10   |
| 119 | Search for supersymmetry with jets, missing transverse momentum and at least one hadronically decaying $\tau$ lepton in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 714, 197-214 | 4.2  | 6    |
| 118 | Search for scalar top quark pair production in natural gauge mediated supersymmetry models with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 715, 44-60  | 4.2  | 16   |
| 117 | Search for TeV-scale gravity signatures in final states with leptons and jets with the ATLAS detector at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 716, 122-141  | 4.2  | 12   |
| 116 | Search for the Standard Model Higgs boson in the $H\rightarrow WW\rightarrow 4\ell$ decay mode with 4.7 fb <sup>-1</sup> of ATLAS data at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 716, 62-81                                     | 4.2  | 44   |
| 115 | Evidence for the associated production of a W boson and a top quark in ATLAS at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 716, 142-159   | 4.2  | 55   |
| 114 | Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 716, 1-29   | 4.2  | 5271 |
| 113 | Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2  | 199  |
| 112 | Rapidity gap cross sections measured with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2  | 70   |
| 111 | Search for anomaly-mediated supersymmetry breaking with the ATLAS detector based on a disappearing-track signature in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2  | 13   |
| 110 | Measurement of $\mu\mu$ production with a veto on additional central jet activity in collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2043  | 4.2  | 82   |
| 109 | A search for $\mu\mu$ resonances with the ATLAS detector in 2.05 fb of proton-proton collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2083   | 4.2  | 14   |

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| 108 | Search for second generation scalar leptoquarks in pp collisions at ( $\sqrt{s}=7\sim\text{TeV}$ ) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2 | 35  |
| 107 | Search for a fermiophobic Higgs boson in the diphoton decay channel with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2 | 13  |
| 106 | Measurement of $W \mp Z$ production in proton-proton collisions at ( $\sqrt{s}=7\sim\text{TeV}$ ) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2 | 54  |
| 105 | Search for top and bottom squarks from gluino pair production in final states with missing transverse energy and at least three b-jets with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2 | 24  |
| 104 | Measurement of event shapes at large momentum transfer with the ATLAS detector in pp collisions at ( $\sqrt{\text{mathbf{s}}}=7\text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2 | 18  |
| 103 | Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 7 TeV proton-proton collision data with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2 | 11  |
| 102 | Search for light scalar top-quark pair production in final states with two leptons with the ATLAS detector in ( $\sqrt{s}=7\text{ TeV}$ ) proton-proton collisions. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2 | 31  |
| 101 | ATLAS search for a heavy gauge boson decaying to a charged lepton and a neutrino in pp collisions at ( $\sqrt{s} = 7\text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2 | 34  |
| 100 | Search for doubly charged Higgs bosons in like-sign dilepton final states at ( $\sqrt{s} = 7\text{ TeV}$ ) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2 | 104 |
| 99  | Search for a standard model Higgs boson in the $H\rightarrow ZZ\rightarrow 4\ell$ decay channel using 4.7fb of $s=7\text{TeV}$ data with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 717, 29-48             | 4.2 | 12  |
| 98  | Measurement of $W$ and $Z$ production cross sections in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 717, 49-69   | 4.2 | 16  |
| 97  | Search for a Standard Model Higgs boson in the mass range $200\leq m\leq 400\text{GeV}$ in the $H\rightarrow ZZ\rightarrow 4\ell$ decay channel with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 717, 70-88 | 4.2 | 9   |
| 96  | Measurement of the t-channel single top-quark production cross section in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 717, 330-350   | 4.2 | 91  |
| 95  | Measurement of the top quark pair cross section with ATLAS in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 717, 89-108  | 4.2 | 38  |
| 94  | Search for the Standard Model Higgs boson produced in association with a vector boson and decaying to a b-quark pair with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 718, 369-390                          | 4.2 | 23  |
| 93  | Search for the Higgs boson in the . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 718, 391-410  | 4.2 | 10  |
| 92  | Search for diphoton events with large missing transverse momentum in 7 TeV proton-proton collision data with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 718, 411-430                                       | 4.2 | 19  |
| 91  | Search for direct top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s} = 7\text{ TeV}$ pp collisions using 4.7 fb(-10 of ATLAS data. <i>Physical Review Letters</i> , <b>2012</b> , 109, 211803                          | 7.4 | 70  |

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| 90 | Combined search for the Standard Model Higgs boson in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 86,  | 4.9 | 96  |
| 89 | Search for magnetic monopoles in $\sqrt{s}=7$ TeV pp collisions with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 109, 261803  | 7.4 | 45  |
| 88 | Performance of missing transverse momentum reconstruction in proton-proton collisions at ( $\sqrt{s} = 7 \text{ TeV}$ ) with ATLAS. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2 | 217 |
| 87 | Performance of the ATLAS Trigger System in 2010. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2 | 232 |
| 86 | Search for same-sign top-quark production and fourth-generation down-type quarks in pp collisions at ( $\sqrt{s} = 7 \text{ TeV}$ ) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                       | 5.4 | 34  |
| 85 | Search for charged Higgs bosons decaying via $H \rightarrow \tau \nu$ ( $\overline{t}$ ) events using pp collision data at ( $\sqrt{s} = 7 \text{ TeV}$ ) with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1 | 5.4 | 112 |
| 84 | Measurement of the W boson polarization in top quark decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 52  |
| 83 | Forward-backward correlations and charged-particle azimuthal distributions in pp interactions using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 23  |
| 82 | Search for gluinos in events with two same-sign leptons, jets, and missing transverse momentum with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2012</b> , 108, 241802                          | 7.4 | 35  |
| 81 | Measurement of the azimuthal ordering of charged hadrons with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 86,   | 4.9 | 1   |
| 80 | Search for resonant top quark plus jet production in $t\bar{t} + \text{jets}$ events with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2012</b> , 86,  | 4.9 | 15  |
| 79 | Search for a supersymmetric partner to the top quark in final states with jets and missing transverse momentum at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 109, 211802                         | 7.4 | 57  |
| 78 | Search for scalar bottom quark pair production with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2012</b> , 108, 181802  | 7.4 | 54  |
| 77 | ATLAS measurements of the properties of jets for boosted particle searches. <i>Physical Review D</i> , <b>2012</b> , 86,   | 4.9 | 20  |
| 76 | Search for new phenomena in tt events with large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 108, 041805                               | 7.4 | 46  |
| 75 | Search for pair production of a heavy up-type quark decaying to a W boson and a b quark in the lepton + jets channel with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 108, 261802   | 7.4 | 26  |
| 74 | Observation of spin correlation in $t\bar{t}$ events from pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 108, 212001   | 7.4 | 67  |
| 73 | Measurement of inclusive jet and dijet production in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 86,  | 4.9 | 107 |

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| 72 | Observation of a new $(b)$ state in radiative transitions to $(1S)$ and $(2S)$ at ATLAS. <i>Physical Review Letters</i> , <b>2012</b> , 108, 152001   | 7.4 | 77  |
| 71 | Measurement of the production cross section of an isolated photon associated with jets in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,                                | 4.9 | 30  |
| 70 | Search for $tb$ resonances in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 109, 081801  | 7.4 | 31  |
| 69 | Underlying event characteristics and their dependence on jet size of charged-particle jet events in pp collisions at $(s)=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 86,                                      | 4.9 | 11  |
| 68 | Search for pair production of a new $b'$ quark that decays into a Z boson and a bottom quark with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 109, 071801  | 7.4 | 23  |
| 67 | Measurement of the azimuthal anisotropy for charged particle production in $\sqrt{s}=2.76$ TeV lead-lead collisions with the ATLAS detector. <i>Physical Review C</i> , <b>2012</b> , 86,   | 2.7 | 313 |
| 66 | Search for the Higgs boson in the $H \rightarrow WW^{(*)} \rightarrow \ell^+ \ell^- \ell^+ \ell^-$ decay channel in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 108, 111802   | 7.4 | 32  |
| 65 | Search for a light Higgs boson decaying to long-lived weakly interacting particles in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 108, 251801                    | 7.4 | 48  |
| 64 | Further search for supersymmetry at $\sqrt{s}=7$ TeV in final states with jets, missing transverse momentum, and isolated leptons with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 86,                                     | 4.9 | 42  |
| 63 | Search for anomalous production of prompt like-sign muon pairs and constraints on physics beyond the standard model with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,   | 4.9 | 24  |
| 62 | Measurement of $D^* \rightarrow \ell$ meson production in jets from pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,   | 4.9 | 19  |
| 61 | Determination of the strange-quark density of the proton from ATLAS measurements of the $W \rightarrow \ell$ and $Z \rightarrow \ell\ell$ cross sections. <i>Physical Review Letters</i> , <b>2012</b> , 109, 012001                        | 7.4 | 98  |
| 60 | Search for production of resonant states in the photon-jet mass distribution using pp collisions at $\sqrt{s}=7$ TeV collected by the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 108, 211802                            | 7.4 | 11  |
| 59 | Measurement of the ZZ production cross section and limits on anomalous neutral triple gauge couplings in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 108, 041804 | 7.4 | 29  |
| 58 | Search for supersymmetry in events with three leptons and missing transverse momentum in $(\sqrt{s})=7$ TeV pp collisions with the ATLAS detector. <i>Physical Review Letters</i> , <b>2012</b> , 108, 261804                               | 7.4 | 30  |
| 57 | Search for pair-produced heavy quarks decaying to $Wq$ in the two-lepton channel at $(s)=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 86,   | 4.9 | 21  |
| 56 | Search for down-type fourth generation quarks with the ATLAS detector in events with one lepton and hadronically decaying W bosons. <i>Physical Review Letters</i> , <b>2012</b> , 109, 032001  | 7.4 | 35  |
| 55 | Study of jets produced in association with a W boson in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,   | 4.9 | 41  |

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| 54 | Search for resonant WZ production in the WZ- $\mu\tau$ channel in $\sqrt{s}=7$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , <b>2012</b> , 85,   | 4.9 | 12  |
| 53 | Measurement of the differential cross-sections of inclusive, prompt and non-prompt $J/\psi$ production in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Nuclear Physics B</i> , <b>2011</b> , 850, 387-444  | 2.8 | 130 |
| 52 | Search for heavy long-lived charged particles with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 703, 428-446                                     | 4.2 | 40  |
| 51 | Measurement of the $\tau$ branching ratio. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 705, 9-27   | 4.2 | 17  |
| 50 | Search for a heavy gauge boson decaying to a charged lepton and a neutrino in 1 fb $^{-1}$ of pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 705, 28-46                  | 4.2 | 43  |
| 49 | Search for neutral MSSM Higgs bosons decaying to $\tau\tau$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 705, 174-192   | 4.2 | 40  |
| 48 | Search for new phenomena with the monojet and missing transverse momentum signature using the ATLAS detector in $\sqrt{s}=7$ TeV pp collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 705, 294-312 | 4.2 | 52  |
| 47 | Measurement of the transverse momentum distribution of $\tau$ leptons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 705, 415-434  | 4.2 | 55  |
| 46 | Search for the Standard Model Higgs boson in the decay channel $H \rightarrow \tau\tau$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 705, 435-451   | 4.2 | 18  |
| 45 | Search for the Standard Model Higgs boson in the two photon decay channel with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 705, 452-470                                   | 4.2 | 20  |
| 44 | Measurement of the inclusive isolated prompt photon cross-section in pp collisions at $\sqrt{s}=7$ TeV using 35 pb $^{-1}$ of ATLAS data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 706, 150-167       | 4.2 | 42  |
| 43 | Measurement of the top quark-pair production cross section with ATLAS in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1   | 4.2 | 138 |
| 42 | Luminosity determination in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1  | 4.2 | 167 |
| 41 | Measurements of underlying-event properties using neutral and charged particles in pp collisions at $\sqrt{s}=900$ GeV and $\sqrt{s}=7$ TeV with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1                             | 4.2 | 30  |
| 40 | Search for an excess of events with an identical flavour lepton pair and significant missing transverse momentum in $\sqrt{s}=7$ TeV proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1                      | 4.2 | 18  |
| 39 | Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in $\sqrt{s}=7$ TeV proton-proton collisions with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1                               | 4.2 | 41  |
| 38 | Limits on the production of the standard model Higgs boson in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1  | 4.2 | 37  |
| 37 | Search for diphoton events with large missing transverse energy with 36 pb $^{-1}$ of 7 TeV proton-proton collision data with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1   | 4.2 | 15  |

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|----|--|-----|-----|
| 36 | Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1   | 4.2 | 44  |
| 35 | Measurement of the jet fragmentation function and transverse profile in proton-proton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1   | 4.2 | 51  |
| 34 | Search for a heavy neutral particle decaying into an electron and a muon using 1 fb of ATLAS data. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1  | 4.2 | 13  |
| 33 | Search for massive colored scalars in four-jet final states in ( $\sqrt{s}=7\text{ TeV}$ ) proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1  | 4.2 | 37  |
| 32 | Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at ( $\sqrt{s}=7\text{ TeV}$ ) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1  | 4.2 | 53  |
| 31 | . <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1  | 5.4 | 22  |
| 30 | Measurement of $W$ and $Z$ production in proton-proton collisions at ( $\sqrt{s} = 7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1   | 5.4 | 11  |
| 29 | Inclusive search for same-sign dilepton signatures in pp collisions at ( $\sqrt{s} = 7$ ) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1   | 5.4 | 31  |
| 28 | Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using ( $\sqrt{s} = 7$ ) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1                                       | 5.4 | 60  |
| 27 | Search for contact interactions in dimuon events from pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2011</b> , 84,  | 4.9 | 6   |
| 26 | Search for pair production of first or second generation leptoquarks in proton-proton collisions at $\sqrt{s}=7$ TeV using the ATLAS detector at the LHC. <i>Physical Review D</i> , <b>2011</b> , 83,   | 4.9 | 16  |
| 25 | Study of jet shapes in inclusive jet production in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>Physical Review D</i> , <b>2011</b> , 83,  | 4.9 | 50  |
| 24 | Measurement of the $W^+ W^-$ cross section in $\sqrt{s} = 7$ TeV pp collisions with ATLAS. <i>Physical Review Letters</i> , <b>2011</b> , 107, 041802  | 7.4 | 23  |
| 23 | Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2011</b> , 83,   | 4.9 | 112 |
| 22 | Properties of jets measured from tracks in proton-proton collisions at center-of-mass energy $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , <b>2011</b> , 84,  | 4.9 | 24  |
| 21 | Measurement of the $Z$ -cross section with the ATLAS detector. <i>Physical Review D</i> , <b>2011</b> , 84,  | 4.9 | 18  |
| 20 | Measurement of the centrality dependence of $J/\psi$ yields and observation of $Z$ production in lead-lead collisions with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 697, 294-312 | 4.2 | 97  |
| 19 | Measurement of the production cross section for $W$ -bosons in association with jets in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 698, 325-345  | 4.2 | 35  |



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| 18 | Search for massive long-lived highly ionising particles with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 698, 353-370   | 4.2  | 28              |
| 17 | Search for high mass dilepton resonances in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 700, 163-180  | 4.2  | 30              |
| 16 | Search for stable hadronising squarks and gluinos with the ATLAS experiment at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 701, 1-19  | 4.2  | 52              |
| 15 | Measurement of the W charge asymmetry in the $W \rightarrow e\nu$ decay channel. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 701, 31-49  | 4.2  | 33              |
| 14 | Search for high-mass states with one lepton plus missing transverse momentum in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 701, 50-69                                 | 4.2  | 20              |
| 13 | Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $pp$ collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 701, 186-203 | 4.2  | 108             |
| 12 | Search for supersymmetry in pp collisions at $\sqrt{s}=7$ TeV in final states with missing transverse momentum and b-jets. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 701, 398-416                                  | 4.2  | 54              |
| 11 | A search for new physics in dijet mass and angular distributions in pp collisions at $\sqrt{s}=7$ TeV measured with the ATLAS detector. <i>New Journal of Physics</i> , <b>2011</b> , 13, 053044   | 2.9  | 108             |
| 10 | Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC. <i>New Journal of Physics</i> , <b>2011</b> , 13, 053033   | 2.9  | 259             |
| 9  | Measurement of the inelastic proton-proton cross-section at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Nature Communications</i> , <b>2011</b> , 2, 463  | 17.4 | 127             |
| 8  | Search for the Higgs boson in the $H \rightarrow WW \rightarrow l\nu l\nu$ decay channel in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2011</b> , 107, 231801  | 7.4  | 22              |
| 7  | Search for a heavy particle decaying into an electron and a muon with the ATLAS detector in $\sqrt{s}=7$ TeV pp collisions at the LHC. <i>Physical Review Letters</i> , <b>2011</b> , 106, 251801  | 7.4  | 14              |
| 6  | Search for supersymmetry using final states with one lepton, jets, and missing transverse momentum with the ATLAS detector in $\sqrt{s}=7$ TeV pp collisions. <i>Physical Review Letters</i> , <b>2011</b> , 106, 131802   | 7.4  | 125             |
| 5  | Search for dilepton resonances in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , <b>2011</b> , 107, 272002  | 7.4  | 74              |
| 4  | Measurement of dijet azimuthal decorrelations in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 172002   | 7.4  | 46              |
| 3  | Search for a standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 4l$ decay channel with the ATLAS detector. <i>Physical Review Letters</i> , <b>2011</b> , 107, 221802   | 7.4  | 27              |
| 2  | Search for diphoton events with large missing transverse energy in 7 TeV proton-proton collisions with the ATLAS detector. <i>Physical Review Letters</i> , <b>2011</b> , 106, 121803  | 7.4  | 17              |
| 1  | Observation of a centrality-dependent dijet asymmetry in lead-lead collisions at $\sqrt{[S(NN)]}=2.76$ TeV with the ATLAS detector at the LHC. <i>Physical Review Letters</i> , <b>2010</b> , 105, 252303  | 7.4  | 45 <sup>8</sup> |

