

Sarah Heim

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.

395
papers

15,165
citations

59
h-index

99
g-index

416
ext. papers

17,182
ext. citations

4.7
avg, IF

1.3
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 395 | Performance of the ATLAS Level-1 topological trigger in Run2. <i>European Physical Journal C</i> , 2022 , 82, 1 | 4.2 | 0 |
| 394 | 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> , 2022 , 2022, 1 | 5.4 | 0 |
| 393 | 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> , 2022 , 82, 1 | 4.2 | 0 |
| 392 | 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 ⁻¹ of pp collision data at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 0 |
| 391 | AtlFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , 2022 , 6, 1 | 6 | 0 |
| 390 | Measurement of the energy response of the ATLAS calorimeter to charged pions from $W \rightarrow \tau \rightarrow \pi \nu_{\tau} \nu_{\tau}$ events in Run2 data. <i>European Physical Journal C</i> , 2022 , 82, 1 | 4.2 | 0 |
| 389 | The ATLAS inner detector trigger performance in pp collisions at $\sqrt{s} = 13$ TeV during LHC Run 2. <i>European Physical Journal C</i> , 2022 , 82, 1 | 4.2 | |
| 388 | 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> , 2022 , 82, 1 | 4.2 | 1 |
| 387 | 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> , 2021 , 81, 1 | 4.2 | 2 |
| 386 | Measurement of the $t(\bar{t})t(\bar{t})$ production cross section in pp collisions at ($\sqrt{s} = 13$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 0 |
| 385 | 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> , 2021 , 2021, 1 | 5.4 | 2 |
| 384 | 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> , 2021 , 81, 1 | 4.2 | 7 |
| 383 | Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb ⁻¹ of Pb+Pb data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 5 |
| 382 | 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> , 2021 , 2021, 1 | 5.4 | 1 |
| 381 | 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> , 2021 , 2021, 1 | 5.4 | 6 |
| 380 | 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> , 2021 , 2021, 1 | 5.4 | 8 |
| 379 | 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> , 2021 , 81, 1 | 4.2 | 5 |

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| 378 | Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 2 |
| 377 | Search for heavy resonances decaying into a pair of Z bosons in the $(e^+e^-e^+e^-)$ and $(e^+e^-e^+\nu_{\bar{\nu}})$ final states using 139 fb^{-1} of proton-proton collisions at $(\sqrt{s} = 13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 8 |
| 376 | 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> , 2021 , 2021, 1 | 5.4 | 6 |
| 375 | Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the (e^+e^-bb) and (e^+e^-WW) final states in pp collisions at $(\sqrt{s}=13)$ (text {TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 7 |
| 374 | 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> , 2021 , 2021, 1 | 5.4 | 3 |
| 373 | Measurements of $W+W\gamma$ jet production cross-sections in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 0 |
| 372 | Search for charged Higgs bosons decaying into a top quark and a bottom quark at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 8 |
| 371 | Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $(\sqrt{s}=13,\text{text {TeV}})$. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 0 |
| 370 | 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> , 2021 , 2021, 1 | 5.4 | 6 |
| 369 | 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> , 2021 , 2021, 1 | 5.4 | 2 |
| 368 | Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W\gamma$ and Z boson production in association with jets. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 1 |
| 367 | 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> , 2021 , 2021, 1 | 5.4 | 0 |
| 366 | A search for the decays of stopped long-lived particles at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 1 |
| 365 | 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> , 2021 , 81, 1 | 4.2 | 13 |
| 364 | 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> , 2021 , 2021, 1 | 5.4 | 3 |
| 363 | Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb^{-1} of $(\sqrt{s}) = 13$ TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 8 |
| 362 | 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> , 2021 , 81, 1 | 4.2 | 5 |
| 361 | Measurements of WH and ZH production in the $(H \rightarrow b\bar{b})$ decay channel in pp collisions at $(13,\text{text {TeV}})$ with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 7 |

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| 360 | 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> , 2021 , 2021, 1 | 5.4 | 5 |
| 359 | 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> , 2021 , 81, 1 | 4.2 | 0 |
| 358 | Measurement of single top-quark production in association with a W boson in the single-lepton channel at $(\sqrt{s} = 8, \text{TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 1 |
| 357 | 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> , 2021 , 81, 1 | 4.2 | 11 |
| 356 | 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> , 2021 , 81, 1 | 4.2 | 1 |
| 355 | 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> , 2021 , 81, 1 | 4.2 | 4 |
| 354 | 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> , 2021 , 2021, 1 | 5.4 | 2 |
| 353 | 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> , 2021 , 81, 1 | 4.2 | 1 |
| 352 | 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> , 2021 , 2021, 1 | 5.4 | 0 |
| 351 | 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> , 2021 , 2021, 1 | 5.4 | 0 |
| 350 | 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> , 2021 , 2021, 1 | 5.4 | 0 |
| 349 | 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> , 2021 , 81, 1 | 4.2 | 1 |
| 348 | Configuration and performance of the ATLAS b-jet triggers in Run 2. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 1 |
| 347 | Measurement of b-quark fragmentation properties in jets using the decay $B \rightarrow J/\psi K$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 0 |
| 346 | Higgs boson production cross-section measurements and their EFT interpretation in the (4ℓ) decay channel at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 12 |
| 345 | 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> , 2020 , 2020, 1 | 5.4 | 8 |
| 344 | Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb ⁻¹ of data collected with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 8 |
| 343 | 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> , 2020 , 2020, 1 | 5.4 | 2 |

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| 342 | Performance of electron and photon triggers in ATLAS during LHC Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 30 |
| 341 | Search for top squarks in events with a Higgs or Z boson using 139 fb ⁽⁻¹⁾ of pp collision data at (\sqrt{s} =13) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 1 |
| 340 | 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> , 2020 , 80, 1 | 4.2 | 8 |
| 339 | 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> , 2020 , 80, 1 | 4.2 | 4 |
| 338 | 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> , 2020 , 80, 1 | 4.2 | 17 |
| 337 | Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 4 |
| 336 | 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> , 2020 , 80, 1 | 4.2 | 3 |
| 335 | 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> , 2020 , 2020, 1 | 5.4 | 6 |
| 334 | Reconstruction and identification of boosted di- τ systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 3 |
| 333 | Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 8 |
| 332 | Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 9 |
| 331 | Measurements of the Higgs boson inclusive and differential fiducial cross sections in the 4(ℓ) decay channel at (\sqrt{s}) = 13 TeV. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 9 |
| 330 | 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> , 2020 , 80, 1 | 4.2 | 13 |
| 329 | 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> , 2020 , 2020, 1 | 5.4 | 5 |
| 328 | Search for the HH \rightarrow ($b\bar{b}$) 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> , 2020 , 2020, 1 | 5.4 | 5 |
| 327 | 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> , 2020 , 2020, 1 | 5.4 | 5 |
| 326 | Measurements of top-quark pair spin correlations in the ($\mu\mu$) channel at (\sqrt{s}) = 13) TeV using pp collisions in the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 8 |
| 325 | Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at (\sqrt{s} =8-TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 11 |

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| 324 | 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> , 2019 , 79, 1 | 4.2 | 37 |
| 323 | Measurement of $VH, (\text{H}) \rightarrow \text{b}\overline{\text{b}}$ production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 8 |
| 322 | Performance of top-quark and (W)-boson tagging with ATLAS in Run 2 of the LHC. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 19 |
| 321 | Electron and photon energy calibration with the ATLAS detector using 2015–2016 LHC proton-proton collision data. <i>Journal of Instrumentation</i> , 2019 , 14, P03017-P03017 | 1 | 25 |
| 320 | 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> , 2019 , 79, 1 | 4.2 | 26 |
| 319 | 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> , 2019 , 2019, 1 | 5.4 | 5 |
| 318 | Search for pair production of Higgs bosons in the ($\text{b}\overline{\text{b}}$) final state using proton-proton collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 31 |
| 317 | 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> , 2019 , 2019, 1 | 5.4 | 31 |
| 316 | 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> , 2019 , 79, 1 | 4.2 | 16 |
| 315 | 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> , 2019 , 79, 1 | 4.2 | 4 |
| 314 | ATLAS b-jet identification performance and efficiency measurement with ($t\bar{t}$) events in pp collisions at ($\sqrt{s}=13$) TeV. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 43 |
| 313 | Measurements of top-quark pair differential and double-differential cross-sections in the ($\text{e}\ell$)+jets channel with pp collisions at ($\sqrt{s}=13$) TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 13 |
| 312 | 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> , 2018 , 2018, 1 | 5.4 | 10 |
| 311 | Measurement of differential cross-sections of a single top quark produced in association with a boson at with ATLAS. <i>European Physical Journal C</i> , 2018 , 78, 186 | 4.2 | 5 |
| 310 | Search for heavy resonances in the and final states using proton-proton collisions at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 293 | 4.2 | 41 |
| 309 | Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in 36 fb of ($\sqrt{s}=13$) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 26 |
| 308 | 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> , 2018 , 2018, 1 | 5.4 | 36 |
| 307 | 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> , 2018 , 2018, 1 | 5.4 | 12 |

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| 306 | Measurement of differential cross sections and W^+/W^- cross-section ratios for W boson production in association with jets at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 7 |
| 305 | 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> , 2018 , 2018, 1 | 5.4 | 21 |
| 304 | Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 903 | 4.2 | 66 |
| 303 | Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb ⁻¹ of ($\sqrt{s}=13$) TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 33 |
| 302 | Prompt and non-prompt and suppression at high transverse momentum in Pb+Pb collisions with the ATLAS experiment. <i>European Physical Journal C</i> , 2018 , 78, 762 | 4.2 | 23 |
| 301 | 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> , 2018 , 2018, 1 | 5.4 | 31 |
| 300 | 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> , 2017 , 77, 40 | 4.2 | 14 |
| 299 | 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> , 2017 , 77, 26 | 4.2 | 22 |
| 298 | 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> , 2017 , 2017, 1 | 5.4 | 22 |
| 297 | 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> , 2017 , 77, 220 | 4.2 | 5 |
| 296 | Measurement of the boson polarisation in [Formula: see text] events from collisions at [Formula: see text] = 8 TeV in the lepton+ jets channel with ATLAS. <i>European Physical Journal C</i> , 2017 , 77, 264 | 4.2 | 19 |
| 295 | Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2017 , 77, 195 | 4.2 | 61 |
| 294 | 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> , 2017 , 77, 292 | 4.2 | 13 |
| 293 | 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> , 2017 , 77, 241 | 4.2 | 38 |
| 292 | 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> , 2017 , 77, 76 | 4.2 | 47 |
| 291 | 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> , 2017 , 77, 141 | 4.2 | 13 |
| 290 | Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. <i>European Physical Journal C</i> , 2017 , 77, 490 | 4.2 | 177 |
| 289 | Fiducial, total and differential cross-section measurements of -channel single top-quark production in collisions at 8 TeV using data collected by the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 531 | 4.2 | 27 |

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| 288 | Measurements of electroweak [Formula: see text] production and constraints on anomalous gauge couplings with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 474 | 4.2 | 14 |
| 287 | Jet reconstruction and performance using particle flow with the ATLAS Detector. <i>European Physical Journal C</i> , 2017 , 77, 466 | 4.2 | 42 |
| 286 | 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> , 2017 , 2017, 1 | 5.4 | 25 |
| 285 | 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> , 2017 , 2017, 1 | 5.4 | 6 |
| 284 | Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. <i>European Physical Journal C</i> , 2017 , 77, 673 | 4.2 | 33 |
| 283 | Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in [Formula: see text][Formula: see text][Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 144 | 4.2 | 8 |
| 282 | Measurement of the ZZ production cross section in proton-proton collisions at ($\sqrt{s}=8$) TeV using the $ZZ \rightarrow \mu\mu$ and ($ZZ \rightarrow \ell\ell^+ \ell\ell^+ \nu \overline{\nu}$) decay channels with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 9 |
| 281 | 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> , 2017 , 2017, 1 | 5.4 | 11 |
| 280 | 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> , 2017 , 2017, 1 | 5.4 | 15 |
| 279 | Search for lepton-flavour-violating decays of the Higgs and bosons with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 70 | 4.2 | 52 |
| 278 | Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , 2017 , 77, 317 | 4.2 | 272 |
| 277 | Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC. <i>European Physical Journal C</i> , 2017 , 77, 332 | 4.2 | 29 |
| 276 | 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> , 2017 , 77, 361 | 4.2 | 26 |
| 275 | Precision measurement and interpretation of inclusive χ and production cross sections with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 367 | 4.2 | 56 |
| 274 | 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> , 2017 , 77, 393 | 4.2 | 52 |
| 273 | 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> , 2017 , 77, 898 | 4.2 | 19 |
| 272 | 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> , 2017 , 2017, 1 | 5.4 | 7 |
| 271 | 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> , 2017 , 2017, 1 | 5.4 | 12 |

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| 270 | Measurements of top quark spin observables in (\overline{t}) events using dilepton final states in ($\sqrt{s}=8$) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 12 |
| 269 | Top-quark mass measurement in the all-hadronic (\overline{t}) decay channel at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 6 |
| 268 | Measurement of the Drell-Yan triple-differential cross section in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 16 |
| 267 | Evidence for the ($H \rightarrow \overline{b}b$) decay with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 50 |
| 266 | Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. <i>European Physical Journal C</i> , 2016 , 76, 295 | 4.2 | 28 |
| 265 | 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> , 2016 , 76, 581 | 4.2 | 148 |
| 264 | Measurement of the charged-particle multiplicity inside jets from [Formula: see text][Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 322 | 4.2 | 35 |
| 263 | Measurement of jet activity in top quark events using the 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> , 2016 , 2016, 1 | 5.4 | 4 |
| 262 | 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> , 2016 , 76, 291 | 4.2 | 63 |
| 261 | Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $WW^* \rightarrow e\mu$ with the ATLAS detector at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 13 |
| 260 | 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> , 2016 , 2016, 1 | 5.4 | 13 |
| 259 | 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> , 2016 , 2016, 1 | 5.4 | 10 |
| 258 | 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> , 2016 , 2016, 1 | 5.4 | 13 |
| 257 | 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> , 2016 , 18, 073021 | 2.9 | 1 |
| 256 | Beam-induced and cosmic-ray backgrounds observed in the ATLAS detector during the LHC 2012 proton-proton running period. <i>Journal of Instrumentation</i> , 2016 , 11, P05013-P05013 | 1 | 8 |
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| 254 | 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> , 2016 , 76, 283 | 4.2 | 42 |
| 253 | Luminosity determination in collisions at [Formula: see text] = 8 TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016 , 76, 653 | 4.2 | 188 |

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| 251 | Addendum to Measurement of the $(t\bar{t})$ production cross-section using (emu) events with b-tagged jets in pp collisions at $(\sqrt{s}) = 7$ and 8 (TeV) with the ATLAS detector \square <i>European Physical Journal C</i> , 2016 , 76, 1 | 4.2 | 13 |
| 250 | 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> , 2016 , 2016, 1 | 5.4 | 20 |
| 249 | Searches for heavy diboson resonances in pp collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 20 |
| 248 | 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> , 2016 , 2016, 1 | 5.4 | 16 |
| 247 | 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> , 2016 , 2016, 1 | 5.4 | 16 |
| 246 | Measurement of the CP-violating phase ϕ_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> , 2016 , 2016, 1 | 5.4 | 10 |
| 245 | 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> , 2016 , 76, 392 | 4.2 | 53 |
| 244 | 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> , 2016 , 2016, 1 | 5.4 | 24 |
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| 242 | 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> , 2016 , 2016, 1 | 5.4 | 12 |
| 241 | 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> , 2016 , 76, 199 | 4.2 | 39 |
| 240 | 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> , 2016 , 2016, 1 | 5.4 | 12 |
| 239 | 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> , 2016 , 2016, 1 | 5.4 | 14 |
| 238 | 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> , 2016 , 2016, 1 | 5.4 | 12 |
| 237 | Identification of boosted, hadronically decaying bosons and comparisons with ATLAS data taken at [Formula: see text] TeV. <i>European Physical Journal C</i> , 2016 , 76, 154 | 4.2 | 44 |
| 236 | 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> , 2016 , 76, 210 | 4.2 | 53 |
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| 233 | 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> , 2016 , 76, 259 | 4.2 | 48 |
| 232 | 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> , 2016 , 2016, 1 | 5.4 | 45 |
| 231 | 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> , 2016 , 2016, 1-46 | 5.4 | 12 |
| 230 | Searches for scalar leptoquarks in collisions at [Formula: see text] = 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 5 | 4.2 | 68 |
| 229 | 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> , 2016 , 76, 6 | 4.2 | 185 |
| 228 | 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> , 2016 , 76, 11 | 4.2 | 21 |
| 227 | Study of the [Formula: see text] and [Formula: see text] decays with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 4 | 4.2 | 13 |
| 226 | 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> , 2016 , 76, 45 | 4.2 | 152 |
| 225 | Search for single top-quark production via flavour-changing neutral currents at 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 55 | 4.2 | 28 |
| 224 | Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at ($\sqrt{s}=8, \text{ TeV}$) with the ATLAS detector 2016 , 76, 1 | | 1 |
| 223 | 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> , 2016 , 2016, 1 | 5.4 | 21 |
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| 220 | Charged-particle distributions in interactions at [Formula: see text] measured with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 403 | 4.2 | 19 |
| 219 | 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> , 2016 , 76, 502 | 4.2 | 37 |
| 218 | 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> , 2016 , 76, 547 | 4.2 | 25 |
| 217 | 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> , 2016 , 76, 585 | 4.2 | 28 |

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| 215 | 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> , 2016 , 76, 670 | 4.2 | 7 |
| 214 | The performance of the jet trigger for the ATLAS detector during 2011 data taking. <i>European Physical Journal C</i> , 2016 , 76, 526 | 4.2 | 16 |
| 213 | 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> , 2016 , 76, 541 | 4.2 | 7 |
| 212 | Search for the Higgs boson produced in association with a boson and decaying to four τ -quarks via two spin-zero particles in collisions at 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 605 | 4.2 | 16 |
| 211 | Muon reconstruction performance of the ATLAS detector in proton-proton collision data at [Formula: see text]=13 TeV. <i>European Physical Journal C</i> , 2016 , 76, 292 | 4.2 | 263 |
| 210 | 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> , 2016 , 76, 658 | 4.2 | 26 |
| 209 | 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> , 2016 , 76, 565 | 4.2 | 20 |
| 208 | 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> , 2016 , 2016, 1 | 5.4 | 25 |
| 207 | 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> , 2016 , 2016, 1 | 5.4 | 59 |
| 206 | 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> , 2016 , 76, 12 | 4.2 | 16 |
| 205 | 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> , 2016 , 76, 87 | 4.2 | 18 |
| 204 | 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> , 2016 , 76, 81 | 4.2 | 7 |
| 203 | Search for charged Higgs bosons in the $H \rightarrow \tau\bar{\tau}$ decay channel in pp collisions at (\sqrt{s} =8) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 33 |
| 202 | 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> , 2016 , 76, 513 | 4.2 | 27 |
| 201 | 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> , 2016 , 76, 517 | 4.2 | 17 |
| 200 | Search for resonances in diphoton events at (\sqrt{s} =13) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 49 |
| 199 | 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> , 2016 , 76, 442 | 4.2 | 24 |

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| 197 | Jet energy measurement and its systematic uncertainty in proton-proton collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 17 | 4-2 | 194 |
| 196 | Search for invisible particles produced in association with single-top-quarks in proton-proton collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 79 | 4-2 | 21 |
| 195 | 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> , 2015 , 75, 69 | 4-2 | 62 |
| 194 | Measurements of the [Formula: see text] production cross sections in association with jets with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 82 | 4-2 | 54 |
| 193 | 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> , 2015 , 75, 92 | 4-2 | 60 |
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| 191 | 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> , 2015 , 2015, 1 | 5-4 | 12 |
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| 189 | 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> , 2015 , 2015, 1 | 5-4 | 64 |
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| 187 | 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> , 2015 , 2015, 1 | 5-4 | 45 |
| 186 | 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> , 2015 , 2015, 1 | 5-4 | 56 |
| 185 | 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> , 2015 , 75, 209 | 4-2 | 73 |
| 184 | Performance of the ATLAS muon trigger in pp collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , 2015 , 75, 120 | 4-2 | 51 |
| 183 | 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> , 2015 , 75, 412 | 4-2 | 66 |
| 182 | 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> , 2015 , 75, 231 | 4-2 | 15 |
| 181 | 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> , 2015 , 75, 299 | 4-2 | 202 |

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| 180 | 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> , 2015 , 75, 263 | 4.2 | 46 |
| 179 | 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> , 2015 , 75, 228 | 4.2 | 18 |
| 178 | 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> , 2015 , 75, 335 | 4.2 | 56 |
| 177 | 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> , 2015 , 75, 303 | 4.2 | 49 |
| 176 | Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 476 | 4.2 | 104 |
| 175 | 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> , 2015 , 75, 229 | 4.2 | 38 |
| 174 | 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> , 2015 , 75, 349 | 4.2 | 94 |
| 173 | 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> , 2015 , 75, 318 | 4.2 | 44 |
| 172 | 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> , 2015 , 75, 362 | 4.2 | 22 |
| 171 | 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> , 2015 , 75, 466 | 4.2 | 28 |
| 170 | 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> , 2015 , 75, 330 | 4.2 | 32 |
| 169 | ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. <i>European Physical Journal C</i> , 2015 , 75, 510 | 4.2 | 109 |
| 168 | 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> , 2015 , 2015, 1 | 5.4 | 2 |
| 167 | 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> , 2015 , 2015, 1 | 5.4 | 22 |
| 166 | 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> , 2015 , 2015, 1 | 5.4 | 42 |
| 165 | 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> , 2015 , 2015, 1 | 5.4 | 46 |
| 164 | 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> , 2015 , 2015, 1-76 | 5.4 | 5 |
| 163 | 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> , 2015 , 2015, 1 | 5.4 | 57 |

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| 161 | Measurement of charged-particle spectra in Pb+Pb collisions at ($\sqrt{s_{\mathrm{NN}}}=2.76$) TeV with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5-4 | 49 |
| 160 | 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> , 2015 , 2015, 1 | 5-4 | 26 |
| 159 | Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5-4 | 91 |
| 158 | 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> , 2015 , 2015, 1-39 | 5-4 | 66 |
| 157 | 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> , 2015 , 2015, 1 | 5-4 | 31 |
| 156 | Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5-4 | 65 |
| 155 | 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> , 2015 , 2015, 1 | 5-4 | 54 |
| 154 | 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> , 2015 , 2015, 1 | 5-4 | 16 |
| 153 | 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> , 2015 , 2015, 1 | 5-4 | 55 |
| 152 | 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> , 2015 , 2015, 1 | 5-4 | 15 |
| 151 | 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> , 2015 , 2015, 1 | 5-4 | 16 |
| 150 | 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> , 2015 , 2015, 1-65 | 5-4 | 18 |
| 149 | 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> , 2015 , 2015, 1 | 5-4 | 22 |
| 148 | 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> , 2015 , 2015, 1 | 5-4 | 37 |
| 147 | Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5-4 | 74 |
| 146 | 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> , 2015 , 2015, 1 | 5-4 | 16 |
| 145 | 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> , 2015 , 75, 165 | 4-2 | 25 |

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| 144 | 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> , 2015 , 75, 158 | 4.2 | 8 |
| 143 | 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> , 2015 , 75, 208 | 4.2 | 50 |
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| 140 | 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> , 2015 , 75, 23 | 4.2 | 31 |
| 139 | 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 2015 , 75, 1 | | 1 |
| 138 | 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 2015 , 75, 1 | | 2 |
| 137 | Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector 2015 , 75, 1 | | 3 |
| 136 | ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider 2015 , 75, 1 | | 3 |
| 135 | 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 2015 , 2015, 1 | | 3 |
| 134 | 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> , 2014 , 2014, 1 | 5.4 | 24 |
| 133 | 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> , 2014 , 2014, 1 | 5.4 | 29 |
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| 131 | Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014 , 74, 2941 | 4.2 | 160 |
| 130 | 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> , 2014 , 74, 1 | 4.2 | 18 |
| 129 | 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> , 2014 , 74, 2982 | 4.2 | 18 |
| 128 | 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> , 2014 , 74, 3023 | 4.2 | 46 |
| 127 | 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> , 2014 , 2014, 1 | 5.4 | 14 |

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| 125 | 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> , 2014 , 2014, 1 | 5.4 | 24 |
| 124 | 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> , 2014 , 2014, 1 | 5.4 | 17 |
| 123 | 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> , 2014 , 2014, 1 | 5.4 | 37 |
| 122 | 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> , 2014 , 2014, 1 | 5.4 | 120 |
| 121 | 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> , 2014 , 2014, 1 | 5.4 | 39 |
| 120 | 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> , 2014 , 2014, 1 | 5.4 | 18 |
| 119 | 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> , 2014 , 2014, 1 | 5.4 | 52 |
| 118 | Measurement of $t\bar{t}$ production with $(\sqrt{s}) = 7$ TeV pp collisions at ATLAS. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 26 |
| 117 | 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> , 2014 , 2014, 1 | 5.4 | 6 |
| 116 | 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> , 2014 , 2014, 1 | 5.4 | 40 |
| 115 | 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> , 2014 , 74, 2883 | 4.2 | 41 |
| 114 | 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> , 2014 , 2014, 1 | 5.4 | 67 |
| 113 | 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> , 2014 , 74, 3130 | 4.2 | 166 |
| 112 | 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> , 2014 , 74, 3117 | 4.2 | 17 |
| 111 | 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> , 2014 , 74, 3168 | 4.2 | 16 |
| 110 | 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> , 2014 , 2014, 1 | 5.4 | 30 |
| 109 | Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 20 fb ⁻¹ of $(\sqrt{s}) = 8$ TeV proton-proton collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 9 |

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| 107 | 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> , 2014 , 74, 3109 | 4.2 | 107 |
| 106 | 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> , 2014 , 2014, 1 | 5.4 | 54 |
| 105 | Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at [Formula: see text] TeV in 2010. <i>European Physical Journal C</i> , 2014 , 74, 3034 | 4.2 | 45 |
| 104 | Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. <i>European Physical Journal C</i> , 2014 , 74, 1 | 4.2 | 160 |
| 103 | Search for contact interactions and large extra dimensions in the dilepton channel using proton-proton collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 3134 | 4.2 | 31 |
| 102 | Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 3157 | 4.2 | 52 |
| 101 | Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in [Formula: see text] collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 3195 | 4.2 | 21 |
| 100 | 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> , 2014 , 2014, 1 | 5.4 | 36 |
| 99 | Measurement of the production cross-section of $(ZS) \rightarrow J/\psi + \mu\mu$ in pp collisions at (\sqrt{s}) = 7 TeV at ATLAS. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 16 |
| 98 | Measurement of the Z/ τ boson transverse momentum distribution in pp collisions at ($\sqrt{s}=7$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 79 |
| 97 | 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> , 2014 , 2014, 1 | 5.4 | 31 |
| 96 | 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> , 2014 , 2014, 1 | 5.4 | 26 |
| 95 | 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> , 2014 , 2014, 1 | 5.4 | 38 |
| 94 | 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> , 2014 , 2014, 1 | 5.4 | 29 |
| 93 | Measurement of the (\overline{t}) production cross-section using (emu) events with (b)-tagged jets in (pp) collisions at ($\sqrt{s}=7$) and 8 TeV with the ATLAS detector 2014 , 74, 1 | | 2 |
| 92 | 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> , 2013 , 2013, 1 | 5.4 | 50 |
| 91 | 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> , 2013 , 2013, 1 | 5.4 | 34 |

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| 89 | 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> , 2013 , 2013, 1 | 5.4 | 124 |
| 88 | 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> , 2013 , 2013, 1 | 5.4 | 45 |
| 87 | 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> , 2013 , 2013, 1 | 5.4 | 14 |
| 86 | 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> , 2013 , 2013, 1 | 5.4 | 47 |
| 85 | Measurement of splitting scales in τ -events at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2432 | 4.2 | 8 |
| 84 | 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> , 2013 , 73, 2465 | 4.2 | 76 |
| 83 | 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> , 2013 , 2013, 1 | 5.4 | 92 |
| 82 | 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> , 2013 , 2013, 1 | 5.4 | 64 |
| 81 | 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> , 2013 , 2013, 1 | 5.4 | 24 |
| 80 | 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> , 2013 , 2013, 1 | 5.4 | 43 |
| 79 | Improved luminosity determination in collisions at [Formula: see text] using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2013 , 73, 2518 | 4.2 | 276 |
| 78 | 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> , 2013 , 73, 2509 | 4.2 | 71 |
| 77 | 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> , 2013 , 73, 2362 | 4.2 | 25 |
| 76 | Jet energy measurement with the ATLAS detector in proton-proton collisions at ($\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , 2013 , 73, 1 | 4.2 | 209 |
| 75 | Measurement of jet shapes in top-quark pair events at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2676 | 4.2 | 18 |
| 74 | 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> , 2013 , 2013, 1 | 5.4 | 143 |
| 73 | 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> , 2013 , 2013, 1 | 5.4 | 15 |

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| 72 | 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> , 2013 , 2013, 1 | 5.4 | 72 |
| 71 | 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> , 2013 , 2013, 1 | 5.4 | 44 |
| 70 | 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> , 2013 , 2013, 1 | 5.4 | 55 |
| 69 | Search for direct chargino production in anomaly-mediated supersymmetry breaking models based on a disappearing-track signature in pp collisions at ($\sqrt{s}=7$;mathrm{TeV}) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5.4 | 15 |
| 68 | Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at ($\sqrt{s} = 7$ mbox{TeV}). <i>European Physical Journal C</i> , 2013 , 73, 1 | 4.2 | 55 |
| 67 | Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton-proton collisions at ($\sqrt{s} = 7$ mbox{TeV}). <i>European Physical Journal C</i> , 2013 , 73, 1 | 4.2 | 44 |
| 66 | Measurement of the flavour composition of dijet events in pp collisions at ($\sqrt{s}=7$ mbox{TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 1 | 4.2 | 12 |
| 65 | Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2013 , 73, 1 | 4.2 | 41 |
| 64 | Jet energy resolution in proton-proton collisions at [Formula: see text] recorded in 2010 with the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2306 | 4.2 | 153 |
| 63 | Measurement of the [Formula: see text] production cross section in the tau + jets channel using the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2328 | 4.2 | 30 |
| 62 | 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> , 2013 , 15, 043009 | 2.9 | 15 |
| 61 | Search for decays of stopped, long-lived particles from 7 TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 14 |
| 60 | Measurement of the polarisation of W bosons produced with large transverse momentum in pp collisions at ($\sqrt{s} = 7$ mbox{TeV}) with the ATLAS experiment. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 31 |
| 59 | Measurement of the charge asymmetry in top quark pair production in collisions at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 2039 | 4.2 | 78 |
| 58 | Search for lepton flavour violation in the continuum with the ATLAS detector in [Formula: see text] collisions at the LHC. <i>European Physical Journal C</i> , 2012 , 72, 2040 | 4.2 | 10 |
| 57 | Measurement of the top quark mass with the template method in the [Formula: see text] channel using ATLAS data. <i>European Physical Journal C</i> , 2012 , 72, 2046 | 4.2 | 42 |
| 56 | Search for heavy neutrinos and right-handed bosons in events with two leptons and jets in collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 2056 | 4.2 | 78 |
| 55 | Measurement of polarization in τ -decays with the ATLAS detector in collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2012 , 72, 2062 | 4.2 | 17 |

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| 53 | Jet mass and substructure of inclusive jets in ($\sqrt{s} = 7$ TeV) pp collisions with the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5-4 | 67 |
| 52 | Measurement of inclusive two-particle angular correlations in pp collisions with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5-4 | 10 |
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| 49 | Search for the Standard Model Higgs boson in the $H \rightarrow \gamma\gamma$ decay mode in ($\sqrt{s} = 7$ TeV) pp collisions with ATLAS. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5-4 | 37 |
| 48 | 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> , 2012 , 2012, 1 | 5-4 | 31 |
| 47 | 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> , 2012 , 2012, 1 | 5-4 | 11 |
| 46 | 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> , 2012 , 2012, 1 | 5-4 | 53 |
| 45 | 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> , 2012 , 2012, 1 | 5-4 | 49 |
| 44 | 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> , 2012 , 2012, 1 | 5-4 | 16 |
| 43 | 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> , 2012 , 2012, 1 | 5-4 | 45 |
| 42 | 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> , 2012 , 2012, 1 | 5-4 | 13 |
| 41 | Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4-2 | 199 |
| 40 | Rapidity gap cross sections measured with the ATLAS detector in pp collisions at ($\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , 2012 , 72, 1 | 4-2 | 70 |
| 39 | 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> , 2012 , 72, 1 | 4-2 | 13 |
| 38 | Measurement of [Formula: see text] production with a veto on additional central jet activity in collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 2043 | 4-2 | 82 |
| 37 | A search for [Formula: see text] resonances with the ATLAS detector in 2.05 fb of proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2012 , 72, 2083 | 4-2 | 14 |

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| 35 | Search for a fermiophobic Higgs boson in the diphoton decay channel with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 13 |
| 34 | 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> , 2012 , 72, 1 | 4.2 | 54 |
| 33 | 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> , 2012 , 72, 1 | 4.2 | 24 |
| 32 | Measurement of event shapes at large momentum transfer with the ATLAS detector in pp collisions at ($\sqrt{\mathbf{s}}=7\text{ TeV}$). <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 18 |
| 31 | 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> , 2012 , 72, 1 | 4.2 | 11 |
| 30 | 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> , 2012 , 72, 1 | 4.2 | 31 |
| 29 | 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> , 2012 , 72, 1 | 4.2 | 34 |
| 28 | 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> , 2012 , 72, 1 | 4.2 | 104 |
| 27 | Performance of missing transverse momentum reconstruction in proton-proton collisions at ($\sqrt{s} = 7\sim\text{TeV}$) with ATLAS. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 217 |
| 26 | Performance of the ATLAS Trigger System in 2010. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 232 |
| 25 | 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> , 2012 , 2012, 1 | 5.4 | 34 |
| 24 | Search for charged Higgs bosons decaying via $H \mp \rightarrow \tau \nu$ ($\tau \rightarrow e \nu$) events using pp collision data at ($\sqrt{s} = 7\text{ TeV}$) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 112 |
| 23 | Measurement of the W boson polarization in top quark decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 52 |
| 22 | Forward-backward correlations and charged-particle azimuthal distributions in pp interactions using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 23 |
| 21 | Measurement of inclusive jet and dijet cross sections in proton-proton collisions at 7 TeV centre-of-mass energy with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1 | 4.2 | 103 |
| 20 | 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> , 2011 , 71, 1 | 4.2 | 138 |
| 19 | Studies of the performance of the ATLAS detector using cosmic-ray muons. <i>European Physical Journal C</i> , 2011 , 71, 1 | 4.2 | 16 |

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| 17 | 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> , 2011 , 71, 1 | 4.2 | 30 |
| 16 | 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> , 2011 , 71, 1 | 4.2 | 18 |
| 15 | Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in ($\sqrt{s}=7\sim\text{mbox{TeV}}$) proton-proton collisions with the ATLAS experiment. <i>European Physical Journal C</i> , 2011 , 71, 1 | 4.2 | 41 |
| 14 | 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> , 2011 , 71, 1 | 4.2 | 37 |
| 13 | 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> , 2011 , 71, 1 | 4.2 | 15 |
| 12 | Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy. <i>European Physical Journal C</i> , 2011 , 71, 1 | 4.2 | 44 |
| 11 | 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> , 2011 , 71, 1 | 4.2 | 51 |
| 10 | Search for a heavy neutral particle decaying into an electron and a muon using 1 fb ⁻¹ of ATLAS data. <i>European Physical Journal C</i> , 2011 , 71, 1 | 4.2 | 13 |
| 9 | Search for massive colored scalars in four-jet final states in ($\sqrt{s}=7\sim\text{mbox{TeV}}$) proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1 | 4.2 | 37 |
| 8 | Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at ($\sqrt{s}=7\sim\text{mbox{TeV}}$) with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1 | 4.2 | 53 |
| 7 | 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> , 2011 , 2011, 1 | 5.4 | 11 |
| 6 | 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> , 2011 , 2011, 1 | 5.4 | 31 |
| 5 | 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> , 2011 , 2011, 1 | 5.4 | 60 |
| 4 | Next-to-leading order QCD corrections to s-channel single top quark production and decay at the LHC. <i>Physical Review D</i> , 2010 , 81, | 4.9 | 25 |
| 3 | The ATLAS Simulation Infrastructure. <i>European Physical Journal C</i> , 2010 , 70, 823-874 | 4.2 | 817 |
| 2 | Performance of the ATLAS detector using first collision data. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1 | 5.4 | 14 |
| 1 | Measurement of the W and Z production cross sections in proton-proton collisions at ($\sqrt{s} = 7\text{TeV}$) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1 | 5.4 | 58 |

