

# Junpei Maeda

## 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.

367  
papers

9,232  
citations

43  
h-index

78  
g-index

382  
ext. papers

11,322  
ext. citations

4.6  
avg, IF

1.75  
L-index

| #   | Paper   | IF  | Citations |
|-----|---|-----|-----------|
| 367 | Performance of the ATLAS Level-1 topological trigger in Run2. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1  | 4.2 | 0         |
| 366 | 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         |
| 365 | 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 $13\sqrt{\text{TeV}}$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1 | 4.2 | 0         |
| 364 | 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         |
| 363 | AtlFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , <b>2022</b> , 6, 1   | 6   | 0         |
| 362 | 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         |
| 361 | The ATLAS inner detector trigger performance in pp collisions at $13\sqrt{\text{TeV}}$ during LHC Run 2. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1   | 4.2 |           |
| 360 | Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7, 8$ and $13\sqrt{\text{TeV}}$ . <i>European Physical Journal C</i> , <b>2022</b> , 82, 1  | 4.2 | 1         |
| 359 | Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using ( $\sqrt{s} = 13\sqrt{\text{TeV}}$ ) proton-proton collision data. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2 | 2         |
| 358 | 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> , <b>2021</b> , 2021, 1  | 5.4 | 0         |
| 357 | 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         |
| 356 | Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at ( $\sqrt{s} = 13\sqrt{\text{TeV}}$ ) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1  | 4.2 | 7         |
| 355 | Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb <sup>-1</sup> of Pb+Pb data with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 5         |
| 354 | 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         |
| 353 | 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         |
| 352 | 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         |
| 351 | 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         |

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| 350 | 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  |
| 349 | 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 <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  |
| 348 | Search for new phenomena in final states with b-jets and missing transverse momentum in ( $\sqrt{\text{mathrm}\{s\}}$ ) = 13 TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 6  |
| 347 | Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $(e^+e^-\text{bb})$ and $(e^+e^-\text{WW})$ final states in pp collisions at ( $\sqrt{s}$ =13) (text {TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1             | 4.2 | 7  |
| 346 | 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 ( $\sqrt{\text{mathrm}\{s\}}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                          | 5.4 | 3  |
| 345 | Measurements of $W+W\text{bb}$ 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  |
| 344 | 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  |
| 343 | Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at ( $\sqrt{s}$ =13,text {TeV}). <i>European Physical Journal C</i> , <b>2021</b> , 81, 1  | 4.2 | 0  |
| 342 | 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  |
| 341 | Search for supersymmetry in events with four or more charged leptons in 139 fb <sup>-1</sup> 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  |
| 340 | Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W\text{bb}$ and Z boson production in association with jets. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4 | 1  |
| 339 | 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  |
| 338 | 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  |
| 337 | 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 |
| 336 | 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  |
| 335 | Reactor rate modulation oscillation analysis with two detectors in Double Chooz. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4 | 0  |
| 334 | 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  |
| 333 | 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  |

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| 332 | Measurements of WH and ZH production in the $(H \rightarrow \bar{b}b)$ decay channel in pp collisions at $(\sqrt{s}=13\text{ TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1                              | 4.2 | 7  |
| 331 | Search for dark matter in association with an energetic photon in pp collisions at $(\sqrt{s}) = 13\text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 5  |
| 330 | 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  |
| 329 | 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> , <b>2021</b> , 81, 1                            | 4.2 | 1  |
| 328 | Search for signatures of sterile neutrinos with Double Chooz. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2 | 1  |
| 327 | 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 |
| 326 | 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  |
| 325 | 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  |
| 324 | Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at $(\sqrt{s}) = 13\text{ TeV}$ using the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1 | 5.4 | 2  |
| 323 | 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  |
| 322 | 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  |
| 321 | 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  |
| 320 | Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at $\sqrt{s} = 13\text{ TeV}$ using displaced vertices in the ATLAS inner detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1           | 5.4 | 0  |
| 319 | Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13\text{ TeV}$ pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1    | 4.2 | 1  |
| 318 | 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  |
| 317 | Measurement of b-quark fragmentation properties in jets using the decay $B \rightarrow \mu \ell$ in pp collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1             | 5.4 | 0  |
| 316 | Higgs boson production cross-section measurements and their EFT interpretation in the $(4\ell)$ decay channel at $(\sqrt{s}=)13\text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1                      | 4.2 | 12 |
| 315 | Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $(\sqrt{s}) = 13\text{ TeV}$ pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1                            | 5.4 | 8  |

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| 314 | Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb <sup>−1</sup> of data collected with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 8  |
| 313 | 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  |
| 312 | 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  |
| 311 | 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  |
| 310 | 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  |
| 309 | 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 |
| 308 | Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in ( $\sqrt{s}$ )=13) (text {TeV}) pp collisions using the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1 | 4.2 | 50 |
| 307 | Search for top squarks in events with a Higgs or Z boson using 139 fb <sup>(-1)</sup> 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  |
| 306 | Evidence for ( $t\bar{t}$ ) production in the multilepton final state in proton-proton collisions at ( $\sqrt{s}$ )=13) (text {TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 8  |
| 305 | 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  |
| 304 | 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 |
| 303 | Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 4  |
| 302 | Determination of jet calibration and energy resolution in proton-proton collisions at ( $\sqrt{s}$ ) = 8~hbox {TeV}) using the ATLAS detector. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1   | 4.2 | 3  |
| 301 | Measurement of J/ $\psi$ production in association with a W $\pm$ boson with pp data at 8 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 4  |
| 300 | 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  |
| 299 | 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  |
| 298 | Measurements of inclusive and differential cross-sections of combined ( $\overline{t}\gamma$ ) and $tW$ production in the $e\bar{t}$ channel at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1                               | 5.4 | 2  |
| 297 | 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  |

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| 296 | 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  |
| 295 | 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  |
| 294 | 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 |
| 293 | 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 |
| 292 | 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  |
| 291 | 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  |
| 290 | 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  |
| 289 | 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> , <b>2020</b> , 2020, 1  | 5.4 | 5  |
| 288 | 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  |
| 287 | 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  |
| 286 | 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  |
| 285 | 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  |
| 284 | Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at $(\sqrt{s}=8\text{--}13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1   | 4.2 | 11 |
| 283 | 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  |
| 282 | Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $(\sqrt{s} = 13)$ TeV. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 37 |
| 281 | 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  |
| 280 | Searches for scalar leptoquarks and differential cross-section measurements in dilepton+jet events in proton-proton collisions at a centre-of-mass energy of $(\sqrt{s}) = 13$ TeV with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1              | 4.2 | 15 |
| 279 | Search for single production of vector-like quarks decaying into $Wb$ in 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 | 14 |

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| 278 | Search for top-quark decays $t \rightarrow Hq$ with 36 fb <sup>-1</sup> of pp collision data at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 13 |
| 277 | 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> , <b>2019</b> , 2019, 1            | 5.4 | 8  |
| 276 | Measurements of W and Z boson production in pp collisions at $(\sqrt{s}=5.02)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 12 |
| 275 | 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 |
| 274 | Measurements of inclusive and differential fiducial cross-sections of ( $\text{t}\overline{\text{t}}\gamma$ ) production in leptonic final states at $(\sqrt{s}=13\text{~text {TeV}})$ in ATLAS. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1               | 4.2 | 7  |
| 273 | 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 |
| 272 | 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 |
| 271 | 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 |
| 270 | 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 |
| 269 | 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 |
| 268 | 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  |
| 267 | Measurement of the top quark mass in the ( $\text{t}\overline{\text{t}}\rightarrow \text{lepton+jets}$ ) 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 |
| 266 | Search for pair production of Higgs bosons in the ( $\text{b}\overline{\text{b}}\text{b}\overline{\text{b}}$ ) final state using proton-proton collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1 | 5.4 | 31 |
| 265 | 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 |
| 264 | 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 |
| 263 | 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  |
| 262 | Measurement of ( $W^{\pm}Z$ ) production cross sections and gauge boson polarisation in pp collisions at $(\sqrt{s} = 13\text{~text {TeV}})$ with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1  | 4.2 | 20 |
| 261 | Search for scalar resonances decaying into $\mu\mu$ 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  |

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| 260 | 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 |
| 259 | Search for excited electrons singly produced in proton-proton collisions at $\sqrt{s} \sim 13$ TeV with the ATLAS experiment at the LHC. <i>European Physical Journal C</i> , <b>2019</b> , 79,  | 4-2 | 3  |
| 258 | Identification of boosted Higgs bosons decaying into b-quark pairs with the ATLAS detector at 13 TeV. <i>European Physical Journal C</i> , <b>2019</b> , 79,   | 4-2 | 11 |
| 257 | 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  |
| 256 | 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  |
| 255 | Measurement of the top-quark mass in ( $t$ ) + 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 |
| 254 | 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 |
| 253 | 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  |
| 252 | 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  |
| 251 | 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  |
| 250 | 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 |
| 249 | Measurement of ( $W^{\pm}$ ) boson production in Pb+Pb collisions at ( $\sqrt{s_{\text{NN}}}$ ) = 5.02 TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1   | 4-2 | 7  |
| 248 | 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> , <b>2019</b> , 79, 1   | 4-2 | 43 |
| 247 | Measurement of flow harmonics correlations with mean transverse momentum in lead-lead and proton-lead collisions at ( $\sqrt{s_{\text{NN}}} = 5.02$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1           | 4-2 | 16 |
| 246 | Measurements of top-quark pair differential and double-differential cross-sections in the ( $ell$ )+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 |
| 245 | 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  |
| 244 | 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 |
| 243 | 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 |



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| 242 | Measurement of the $\gamma$ -boson mass in pp collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 110   | 4.2 | 59 |
| 241 | 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  |
| 240 | 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 |
| 239 | 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 |
| 238 | Measurement of quarkonium production in proton-lead and proton-proton collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 171   | 4.2 | 35 |
| 237 | 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> , <b>2018</b> , 78, 186   | 4.2 | 5  |
| 236 | Search for heavy resonances in the $\gamma\gamma$ 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 |
| 235 | A search for pair-produced resonances in four-jet final states at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 250   | 4.2 | 28 |
| 234 | Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b-jets in 36 fb $^{-1}$ of ( $\sqrt{s}=13$ ) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1 | 5.4 | 26 |
| 233 | Search for heavy resonances decaying into $\gamma\gamma$ in the final state in collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 24   | 4.2 | 47 |
| 232 | Direct top-quark decay width measurement in the lepton+jets channel at with the ATLAS experiment. <i>European Physical Journal C</i> , <b>2018</b> , 78, 129  | 4.2 | 11 |
| 231 | Search for W W/Z resonance production in $\bar{q}q$ 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 |
| 230 | 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 |
| 229 | 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 |
| 228 | 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 |
| 227 | 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 |
| 226 | Measurement of polarisation in decays in proton-proton collisions at TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 163  | 4.2 | 3  |
| 225 | Searches for heavy ZZ and ZW resonances in the $\bar{q}q$ and $\bar{q}q$ 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 |

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| 224 | 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 |
| 223 | 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> , <b>2018</b> , 2018, 1   | 5.4 | 7  |
| 222 | Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow a\bar{a} \rightarrow 4b$ 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 |
| 221 | Measurement of the ( $Z\gamma$ to $\nu\bar{\nu}\gamma$ ) production cross section in pp collisions at ( $\sqrt{s}=13$ ) TeV with the ATLAS detector and limits on anomalous triple gauge-boson couplings. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                                  | 5.4 | 6  |
| 220 | 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  |
| 219 | 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 |
| 218 | 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  |
| 217 | 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 |
| 216 | 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 |
| 215 | 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  |
| 214 | Search for Higgs boson pair production in the ( $u\gamma u\gamma b\bar{b}$ ) 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 |
| 213 | 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 |
| 212 | 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 |
| 211 | Yields and production rates of cosmogenic $^9\text{Li}$ and $^8\text{He}$ measured with the Double Chooz near and far detectors. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 8  |
| 210 | 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 |
| 209 | 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 |
| 208 | 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 |
| 207 | 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 |

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| 206 | 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  |
| 205 | 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  |
| 204 | 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  |
| 203 | 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  |
| 202 | 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   |
| 201 | Search for charged Higgs bosons decaying via $H^\pm \rightarrow \tau^\pm \nu_\tau$ in the $b$ -jets and $b$ -lepton 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  |
| 200 | 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  |
| 199 | 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  |
| 198 | Search for exclusive Higgs and Z boson decays to $\tau^+\tau^-$ and $b\bar{b}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 6   |
| 197 | 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  |
| 196 | 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   |
| 195 | Measurement of the inclusive and fiducial production cross-sections in the lepton+jets channel in collisions at with the ATLAS detector. <i>European Physical Journal C</i> , <b>2018</b> , 78, 487  | 4.2 | 5   |
| 194 | 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  |
| 193 | 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  |
| 192 | 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 |
| 191 | Novel event classification based on spectral analysis of scintillation waveforms in Double Chooz. <i>Journal of Instrumentation</i> , <b>2018</b> , 13, P01031-P01031  | 1   | 2   |
| 190 | Measurement of the $[Formula: see text]$ and $[Formula: see text]$ production cross sections in multilepton final states using 3.2 fb <sup>-1</sup> $[Formula: see text]$ 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  |
| 189 | A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 $\sqrt{s}=7$ TeV collision data with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 26   | 4.2 | 22  |

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| 188 | Cosmic-muon characterization and annual modulation measurement with Double Chooz detectors. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2017</b> , 2017, 017-017  | 6.4 | 11  |
| 187 | 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  |
| 186 | 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   |
| 185 | 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> , <b>2017</b> , 77, 264                                  | 4.2 | 19  |
| 184 | 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  |
| 183 | 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  |
| 182 | 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  |
| 181 | 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  |
| 180 | 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  |
| 179 | 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 |
| 178 | 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> , <b>2017</b> , 77, 531                      | 4.2 | 27  |
| 177 | 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  |
| 176 | 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  |
| 175 | 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  |
| 174 | Measurement of inclusive and differential cross sections in the H $\rightarrow$ ZZ $\rightarrow$ 4 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  |
| 173 | Measurement of lepton differential distributions and the top quark mass in production in collisions at TeV with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 804   | 4.2 | 11  |
| 172 | Measurement of the ( $\overline{\gamma}$ ) 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   |
| 171 | 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   |

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| 170 | 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  |
| 169 | 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> , <b>2017</b> , 77, 144 | 4.2 | 8   |
| 168 | Measurement of the ZZ production cross section in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV using the ZZ $\rightarrow \mu\mu$ and (ZZ to $\{e\ell\}^{\{-\}}\{e\ell\}^{\{+\}}\nu$ ) decay channels with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 9   |
| 167 | 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  |
| 166 | Measurements of $\chi(3512)$ and $\chi(3872) \rightarrow J/\psi \chi$ 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  |
| 165 | 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   |
| 164 | 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  |
| 163 | Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , <b>2017</b> , 77, 317   | 4.2 | 272 |
| 162 | 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  |
| 161 | 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  |
| 160 | Precision measurement and interpretation of inclusive $\chi$ and production cross sections with the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 367  | 4.2 | 56  |
| 159 | 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  |
| 158 | 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  |
| 157 | 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   |
| 156 | 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  |
| 155 | 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   |
| 154 | Measurement of detector-corrected observables sensitive to the anomalous production of events with jets and large missing transverse momentum in collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 765                             | 4.2 | 10  |
| 153 | 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   |

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| 152 | 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 |
| 151 | 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 |
| 150 | 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 |
| 149 | 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 |
| 148 | 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 |
| 147 | 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  |
| 146 | Searches for the $Z\bar{\nu}\nu$ 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 |
| 145 | Studies of $Z\bar{\nu}\nu$ 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  |
| 144 | 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 |
| 143 | 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 |
| 142 | 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 |
| 141 | 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> , <b>2017</b> , 2017, 1                                       | 5.4 | 12 |
| 140 | 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  |
| 139 | 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> , <b>2017</b> , 2017, 1   | 5.4 | 6  |
| 138 | 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 |
| 137 | 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 |
| 136 | Search for supersymmetry in final states with two same-sign or three leptons and jets 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>2017</b> , 2017, 1                      | 5.4 | 22 |
| 135 | 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 |

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| 134 | Measurement of the $k_t$ splitting scales in $Z \rightarrow e^+e^-$ 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   |
| 133 | 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   |
| 132 | Evidence for the $(H \rightarrow b\bar{b})$ decay with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 50  |
| 131 | Search for new high-mass phenomena in the dilepton final state using 36 fb $^{-1}$ of proton-proton collision data at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                                     | 5.4 | 126 |
| 130 | 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  |
| 129 | Muon capture on light isotopes measured with the Double Chooz detector. <i>Physical Review C</i> , <b>2016</b> , 93,   | 2.7 | 4   |
| 128 | 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  |
| 127 | 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> , <b>2016</b> , 76, 322  | 4.2 | 35  |
| 126 | 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> , <b>2016</b> , 2016, 1                                    | 5.4 | 4   |
| 125 | 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  |
| 124 | Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $WW^* \rightarrow e^+e^-$ with the ATLAS detector at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1                    | 5.4 | 13  |
| 123 | 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  |
| 122 | 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  |
| 121 | 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  |
| 120 | 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   |
| 119 | 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   |
| 118 | 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  |
| 117 | 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  |

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| 116 | 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 |
| 115 | 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   |
| 114 | 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  |
| 113 | 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  |
| 112 | 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  |
| 111 | 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  |
| 110 | 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  |
| 109 | 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  |
| 108 | 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  |
| 107 | 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  |
| 106 | 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  |
| 105 | Measurement of $\beta_3$ in Double Chooz using neutron captures on hydrogen with novel background rejection techniques. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 35  |
| 104 | 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  |
| 103 | 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  |
| 102 | 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  |
| 101 | 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  |
| 100 | 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  |
| 99  | 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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| 98 | 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  |
| 97 | 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  |
| 96 | 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  |
| 95 | 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  |
| 94 | 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  |
| 93 | 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 |
| 92 | 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  |
| 91 | 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  |
| 90 | 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   |
| 89 | Characterization of the spontaneous light emission of the PMTs used in the Double Chooz experiment. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, P08001-P08001  | 1   | 4   |
| 88 | 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   |
| 87 | 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  |
| 86 | 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  |
| 85 | 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  |
| 84 | 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  |
| 83 | 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  |
| 82 | 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   |
| 81 | 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  |

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| 80 | 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   |
| 79 | 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  |
| 78 | 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 |
| 77 | 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  |
| 76 | 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  |
| 75 | 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  |
| 74 | 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  |
| 73 | 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  |
| 72 | 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  |
| 71 | 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   |
| 70 | 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  |
| 69 | 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  |
| 68 | Search for supersymmetry in a final state containing two photons and missing transverse momentum in [Formula: see text] 13 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  |
| 67 | 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  |
| 66 | 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  |
| 65 | Measurement of the relative width difference of the ( $B^0$ ) system with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 5   |
| 64 | 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  |
| 63 | Search for lepton-flavour-violating $H \rightarrow \tau\tau$ decays of the Higgs boson with the ATLAS detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 46  |

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| 62 | 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   |
| 61 | 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  |
| 60 | 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  |
| 59 | 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  |
| 58 | 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  |
| 57 | 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  |
| 56 | Measurement of neutral current $e\bar{p}$ cross sections at high Bjorken $x$ with the ZEUS detector. <i>Physical Review D</i> , <b>2014</b> , 89,   | 4-9 | 3   |
| 55 | Precision muon reconstruction in Double Chooz. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2014</b> , 764, 330-339 <sup>1,2</sup> |     | 8   |
| 54 | Further studies of the photoproduction of isolated photons with a jet at HERA. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5-4 | 1   |
| 53 | Background-independent measurement of $\theta_{13}$ in Double Chooz. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 735, 51-56   | 4-2 | 31  |
| 52 | Photoproduction of isolated photons, inclusively and with a jet, at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 730, 293-301                                    | 4-2 | 9   |
| 51 | Measurement of beauty and charm production in deep inelastic scattering at HERA and measurement of the beauty-quark mass. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5-4 | 24  |
| 50 | Deep inelastic cross-section measurements at large $y$ with the ZEUS detector at HERA. <i>Physical Review D</i> , <b>2014</b> , 90,   | 4-9 | 24  |
| 49 | Measurement of $D^*$ photoproduction at three different centre-of-mass energies at HERA. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5-4 | 1   |
| 48 | Ortho-positronium observation in the Double Chooz experiment. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5-4 | 6   |
| 47 | Measurement of beauty and charm production in deep inelastic scattering at HERA and measurement of the beauty-quark mass. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5-4 | 13  |
| 46 | Improved measurements of the neutrino mixing angle $\theta_{13}$ with the Double Chooz detector. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5-4 | 148 |
| 45 | Measurement of beauty and charm production in deep inelastic scattering at HERA and measurement of the beauty-quark mass <b>2014</b> , 2014, 1  |     | 2   |

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| 44 | Measurement of $D^* \pi$ production in deep inelastic scattering at HERA. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 7   |
| 43 | Measurement of $D \pi$ production in deep inelastic ep scattering with the ZEUS detector at HERA. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 7   |
| 42 | Measurement of inelastic $J/\psi$ and $\psi'$ photoproduction at HERA. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 5   |
| 41 | Measurement of charm fragmentation fractions in photoproduction at HERA. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 20  |
| 40 | First measurement of $\beta_3$ from delayed neutron capture on hydrogen in the Double Chooz experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 723, 66-70  | 4.2 | 82  |
| 39 | Production of the excited charm mesons $D_1$ and $D_2^*$ at HERA. <i>Nuclear Physics B</i> , <b>2013</b> , 866, 229-254   | 2.8 | 11  |
| 38 | Production of $\Lambda_c$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 915-921  | 4.2 | 6   |
| 37 | Combination and QCD analysis of charm production cross section measurements in deep-inelastic ep scattering at HERA. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1   | 4.2 | 114 |
| 36 | Direct measurement of backgrounds using reactor-off data in Double Chooz. <i>Physical Review D</i> , <b>2013</b> , 87,  | 4.9 | 18  |
| 35 | Measurement of high- $Q^2$ neutral current deep inelastic e+p scattering cross sections with a longitudinally polarized positron beam at HERA. <i>Physical Review D</i> , <b>2013</b> , 87,   | 4.9 | 16  |
| 34 | Evaluation of 400 low background 10-in. photo-multiplier tubes for the Double Chooz experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2012</b> , 661, 16-25 | 1.2 | 17  |
| 33 | Search for single-top production in ep collisions at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 708, 27-36   | 4.2 | 24  |
| 32 | Reactor $\bar{\nu}_e$ disappearance in the Double Chooz experiment. <i>Physical Review D</i> , <b>2012</b> , 86,  | 4.9 | 238 |
| 31 | Measurement of isolated photons accompanied by jets in deep inelastic ep scattering. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 715, 88-97   | 4.2 | 7   |
| 30 | Combined inclusive diffractive cross sections measured with forward proton spectrometers in deep inelastic ep scattering at HERA. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2 | 25  |
| 29 | Search for first-generation leptoquarks at HERA. <i>Physical Review D</i> , <b>2012</b> , 86,   | 4.9 | 22  |
| 28 | Exclusive electroproduction of two pions at HERA. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2 | 7   |
| 27 | Scaled momentum distributions for $(K_S^0)_{KS}$ and $(\Lambda/\bar{\Lambda})$ in DIS at HERA. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 1   |

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| 26 | Indication of reactor ( $\bar{\nu}_e$ ) disappearance in the Double Chooz experiment. <i>Physical Review Letters</i> , <b>2012</b> , 108, 131801  | 7.4 | 792 |
| 25 | A Large Hadron Electron Collider at CERN Report on the Physics and Design Concepts for Machine and Detector. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2012</b> , 39, 075001           | 2.9 | 317 |
| 24 | Online data acquisition and the control system for the Double Chooz experiment. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 331, 022018  | 0.3 | 2   |
| 23 | Measurement of beauty production in deep inelastic scattering at HERA using decays into electrons. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1   | 4.2 | 13  |
| 22 | Measurement of heavy-quark jet photoproduction at HERA. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1  | 4.2 | 12  |
| 21 | Study of taupair production at HERA. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1  | 5.4 | 1   |
| 20 | Measurement of the energy dependence of the total photon-proton cross section at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 697, 184-193 | 4.2 | 6   |
| 19 | Measurement of charm and beauty production in deep inelastic ep scattering from decays into muons at HERA. <i>European Physical Journal C</i> , <b>2010</b> , 65, 65-79                                     | 4.2 | 42  |
| 18 | Measurement of beauty production in DIS and extraction at ZEUS. <i>European Physical Journal C</i> , <b>2010</b> , 69, 347-360  | 4.2 | 13  |
| 17 | Measurement of high- $Q^2$ charged current deep inelastic scattering cross sections with a longitudinally polarised positron beam at HERA. <i>European Physical Journal C</i> , <b>2010</b> , 70, 945-963   | 4.2 | 22  |
| 16 | Inclusive dijet cross sections in neutral current deep inelastic scattering at HERA. <i>European Physical Journal C</i> , <b>2010</b> , 70, 965-982   | 4.2 | 13  |
| 15 | Combined measurement and QCD analysis of the inclusive $e^+p$ scattering cross sections at HERA. <i>Journal of High Energy Physics</i> , <b>2010</b> , 2010, 1  | 5.4 | 370 |
| 14 | Events with an isolated lepton and missing transverse momentum and measurement of W production at HERA. <i>Journal of High Energy Physics</i> , <b>2010</b> , 2010, 1                                       | 5.4 | 7   |
| 13 | Measurement of $J/\psi$ photoproduction at large momentum transfer at HERA. <i>Journal of High Energy Physics</i> , <b>2010</b> , 2010, 1   | 5.4 | 6   |
| 12 | Scaled momentum spectra in deep inelastic scattering at HERA. <i>Journal of High Energy Physics</i> , <b>2010</b> , 2010, 1   | 5.4 | 1   |
| 11 | Measurement of $D^+$ and $\bar{D}^+$ production in deep inelastic scattering at HERA. <i>Journal of High Energy Physics</i> , <b>2010</b> , 2010, 1   | 5.4 | 3   |
| 10 | Inclusive-jet cross sections in NC DIS at HERA and a comparison of the . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2010</b> , 691, 127-137               | 4.2 | 22  |
| 9  | Production of excited charm and charm-strange mesons at HERA. <i>European Physical Journal C</i> , <b>2009</b> , 60, 25-45  | 4.2 | 21  |

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|---|--|-----|----|
| 8 | Measurement of charged current deep inelastic scattering cross sections with a longitudinally polarised electron beam at HERA. <i>European Physical Journal C</i> , <b>2009</b> , 61, 223-235                                      | 4.2 | 26 |
| 7 | Measurement of high-Q <sup>2</sup> neutral current deep inelastic e <sup>+</sup> p scattering cross sections with a longitudinally polarised electron beam at HERA. <i>European Physical Journal C</i> , <b>2009</b> , 62, 625-658 | 4.2 | 27 |
| 6 | Measurement of D <sup>+</sup> and D <sup>0</sup> production in deep inelastic scattering using a lifetime tag at HERA. <i>European Physical Journal C</i> , <b>2009</b> , 63, 171-188  | 4.2 | 27 |
| 5 | Subjet distributions in deep inelastic scattering at HERA. <i>European Physical Journal C</i> , <b>2009</b> , 63, 527-548  | 4.2 | 7  |
| 4 | Diffraction photoproduction of dijets in ep collisions at HERA. <i>European Physical Journal C</i> , <b>2008</b> , 55, 177-191   | 4.2 | 32 |
| 3 | Diffraction photoproduction of D <sup>+</sup> (2010) at HERA. <i>European Physical Journal C</i> , <b>2007</b> , 51, 301-315   | 4.2 | 16 |
| 2 | Forward-jet production in deep inelastic ep scattering at HERA. <i>European Physical Journal C</i> , <b>2007</b> , 52, 515-530   | 4.2 | 11 |
| 1 | Dijet production in diffractive deep inelastic scattering at HERA. <i>European Physical Journal C</i> , <b>2007</b> , 52, 813-832  | 4.2 | 28 |