

# Adrian Irlles

## List of Publications by Year in descending order

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Version: 2024-02-01

527  
papers

37,754  
citations

3333

91  
h-index

5384

164  
g-index

531  
all docs

531  
docs citations

531  
times ranked

12285  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | $\langle m \rangle$ at the Running Bottom Quark Mass and the Higgs Boson. <i>Physical Review Letters</i> , 2022, 128, 122001.   | 2.9 | 5         |
| 2  | Phenomenology of $t\bar{t} + X$ production at the LHC. <i>Journal of High Energy Physics</i> , 2022, 2022, .  | 1.6 | 4         |
| 3  | Energy reconstruction of hadronic showers at the CERN PS and SPS using the Semi-Digital Hadronic Calorimeter. <i>Journal of Instrumentation</i> , 2022, 17, P07017.   | 0.5 | 0         |
| 4  | Beam test performance of the highly granular SiW-ECAL technological prototype for the ILC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 950, 162969.  | 0.7 | 8         |
| 5  | CALICE SiW ECAL development and performance of a highly compact digital readout system. <i>Journal of Instrumentation</i> , 2020, 15, C05074-C05074.  | 0.5 | 5         |
| 6  | CALICE SiW ECAL development and test of the chip-on-board PCB solution. <i>Journal of Instrumentation</i> , 2020, 15, C05001-C05001.  | 0.5 | 0         |
| 7  | EUDAQ a data acquisition software framework for common beam telescopes. <i>Journal of Instrumentation</i> , 2020, 15, P01038-P01038.  | 0.5 | 15        |
| 8  | Determination of the electroweak couplings of the 3rd generation of quarks at the ILC. , 2020, , .  |     | 0         |
| 9  | Particle identification using Boosted Decision Trees in the Semi-Digital Hadronic Calorimeter prototype. <i>Journal of Instrumentation</i> , 2020, 15, P10009-P10009.   | 0.5 | 2         |
| 10 | Characterisation of different stages of hadronic showers using the CALICE Si-W ECAL physics prototype. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 937, 41-52.                                     | 0.7 | 3         |
| 11 | Analysis of testbeam data of the highly granular RPC-steel CALICE digital hadron calorimeter and validation of Geant4 Monte Carlo models. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 939, 89-105. | 0.7 | 11        |
| 12 | Testing Highly Integrated Components for the Technological Prototype of the CALICE SiW-ECAL. , 2019, , .  |     | 0         |
| 13 | EUDAQ2 A flexible data acquisition software framework for common test beams. <i>Journal of Instrumentation</i> , 2019, 14, P10033-P10033.   | 0.5 | 33        |
| 14 | The electro-weak couplings of the top and bottom quarks Global fit and future prospects. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.   | 1.6 | 32        |
| 15 | Production and electroweak couplings of 3rd generation quarks at the ILC. , 2019, , .   |     | 0         |
| 16 | Hadronic energy resolution of a combined high granularity scintillator calorimeter system. <i>Journal of Instrumentation</i> , 2018, 13, P12022-P12022.   | 0.5 | 9         |
| 17 | Performance study of SKIROC2/A ASIC for ILC Si-W ECAL. <i>Journal of Instrumentation</i> , 2018, 13, C03015-C03015.   | 0.5 | 6         |
| 18 | Latest R&D news and beam test performance of the highly granular SiW-ECAL technological prototype for the ILC. <i>Journal of Instrumentation</i> , 2018, 13, C02038-C02038.   | 0.5 | 1         |

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|----|--|-----|-----------|
| 19 | Pyrame 3, an online framework for Calice SiW-Ecal. Journal of Instrumentation, 2018, 13, C03009-C03009.  | 0.5 | 4         |
| 20 | Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s} = 8$ TeV proton-proton collisions in the ATLAS detector. European Physical Journal C, 2017, 77, 241.   | 1.4 | 61        |
| 21 | Tracking within Hadronic Showers in the CALICE SDHCAL prototype using a Hough Transform Technique. Journal of Instrumentation, 2017, 12, P05009-P05009.  | 0.5 | 12        |
| 22 | Extracting the top-quark running mass using $t + \text{1-jet}$ events produced at the Large Hadron Collider. European Physical Journal C, 2017, 77, 1.   | 1.4 | 13        |
| 23 | DQM4HEP - A Generic Online Monitor for Particle Physics Experiments. , 2017, , .   |     | 0         |
| 24 | Latest developments on the highly granular Silicon-Tungsten Electromagnetic Calorimeter technological prototype for the International Large Detector.. , 2017, , .   |     | 0         |
| 25 | Performance of $b$ -jet identification in the ATLAS experiment. Journal of Instrumentation, 2016, 11, P04008-P04008.   | 0.5 | 278       |
| 26 | Measurement of event-shape observables in $Z \rightarrow \ell^+ \ell^-$ events in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 375.  | 1.4 | 15        |
| 27 | Charged-particle distributions in pp interactions at $\sqrt{s} = 8$ TeV measured with the ATLAS detector. European Physical Journal C, 2016, 76, 403.  | 1.4 | 30        |
| 28 | Measurement of total and differential $W + \gamma$ production cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector and limits on anomalous triple-gauge-boson couplings. Journal of High Energy Physics, 2016, 2016, .   | 1.6 | 47        |
| 29 | Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.   | 1.6 | 44        |
| 30 | Dijet production in pp collisions with large rapidity gaps at the ATLAS experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 754, 214-234.  | 1.5 | 29        |
| 31 | 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. Journal of High Energy Physics, 2016, 2016, 1.   | 1.6 | 71        |
| 32 | Constraints on non-Standard Model Higgs boson interactions in an effective Lagrangian using differential cross sections measured in the $H \rightarrow \tau^+ \tau^-$ decay channel at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 69-85. | 1.5 | 31        |
| 33 | meson production cross sections in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 754, 214-234.  | 0.9 | 52        |
| 34 | Search for flavour-changing neutral current top-quark decays to $qZ$ in pp collision data collected with the ATLAS detector at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 12.  | 1.4 | 39        |
| 35 | Measurement of the charge asymmetry in top-quark pair production in the lepton-plus-jets final state in pp collision data at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 87.  | 1.4 | 39        |
| 36 | Search for direct top squark pair production in final states with two tau leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 81.   | 1.4 | 10        |

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|----|--|-----|-----------|
| 37 | Search for charged Higgs bosons in the $H \rightarrow tb$ decay channel in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.  | 1.6 | 43        |
| 38 | Measurement of the differential cross-section of highly boosted top quarks as a function of their transverse momentum in $\sqrt{s} = 8$ TeV proton-proton collisions using the ATLAS detector. Physical Review D, 2016, 93, .      | 1.6 | 34        |
| 39 | Measurement of the production of supersymmetric particles in collisions with the ATLAS detector. Physical Review D, 2016, 93, .  | 1.6 | 53        |
| 40 | Measurement of jet charge in dijet events from collisions with the ATLAS detector. Physical Review D, 2016, 93, .  | 1.6 | 29        |
| 41 | Centrality, rapidity and transverse momentum dependence of isolated prompt photon production in lead-lead collisions at $\sqrt{s} = 2.76$ TeV. Physical Review D, 2016, 93, .  | 1.1 | 36        |
| 42 | Measurement of the correlation between the polar angles of leptons from top quark decays in the helicity basis at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2016, 93, .                                       | 1.6 | 11        |
| 43 | Search for magnetic monopoles and stable particles with high electric charges in $\sqrt{s} = 8$ TeV collisions with the ATLAS detector. Physical Review D, 2016, 93, .   | 1.6 | 43        |
| 44 | Search for dark matter produced in association with a Higgs boson decaying to two bottom quarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2016, 93, .                                     | 1.6 | 16        |
| 45 | Search for the standard model Higgs boson produced in association with a vector boson and decaying into a tau pair in collisions with the ATLAS detector. Physical Review D, 2016, 93, .   | 1.6 | 53        |
| 46 | Search for the standard model Higgs boson produced in association with a vector boson and decaying into a tau pair in collisions with the ATLAS detector. Physical Review D, 2016, 93, .   | 1.6 | 5         |
| 47 | Measurement of the production cross section of $Z \rightarrow \tau\tau$ in collisions with the ATLAS detector. Physical Review D, 2016, 93, .  | 1.6 | 39        |
| 48 | Measurement of the production cross section of $Z \rightarrow \tau\tau$ in collisions with the ATLAS detector. Physical Review D, 2016, 93, .  | 2.9 | 31        |
| 49 | Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $WW \rightarrow \tau\tau$ with the ATLAS detector at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 2.9 | 228       |
| 50 | Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. European Physical Journal C, 2016, 76, 295.  | 1.4 | 50        |
| 51 | Measurement of the charged-particle multiplicity inside jets from $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2016, 76, 322.  | 1.4 | 51        |
| 52 | Measurement of the transverse momentum and $\phi_{\tau\tau}$ distributions of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 291.        | 1.4 | 154       |
| 53 | Measurement of fiducial differential cross sections of gluon-fusion production of Higgs bosons decaying to $WW \rightarrow \tau\tau$ with the ATLAS detector at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 15        |
| 54 | Measurements of the charge asymmetry in top-quark pair production in the dilepton final state at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2016, 94, .  | 1.6 | 4         |

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|----|---|-----|-----------|
| 55 | 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. Journal of High Energy Physics, 2016, 2016, 1.                       | 1.6 | 14        |
| 56 | Identification of high transverse momentum top quarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.  | 1.6 | 17        |
| 57 | 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. New Journal of Physics, 2016, 18, 073021.  | 1.2 | 2         |
| 58 | Beam-induced and cosmic-ray backgrounds observed in the ATLAS detector during the LHC 2012 proton-proton running period. Journal of Instrumentation, 2016, 11, P05013-P05013.   | 0.5 | 11        |
| 59 | First results of the CALICE SDHCAL technological prototype. Journal of Instrumentation, 2016, 11, P04001-P04001.  | 0.5 | 62        |
| 60 | DHCAL with minimal absorber: measurements with positrons. Journal of Instrumentation, 2016, 11, P05008-P05008.  | 0.5 | 7         |
| 61 | Hadron shower decomposition in the highly granular CALICE analogue hadron calorimeter. Journal of Instrumentation, 2016, 11, P06013-P06013.   | 0.5 | 6         |
| 62 | Resistive Plate Chamber digitization in a hadronic shower environment. Journal of Instrumentation, 2016, 11, P06014-P06014.   | 0.5 | 5         |
| 63 | Measurement of the differential cross-sections of prompt and non-prompt production of $J/\psi$ and $\psi(2S)$ in pp collisions at $\sqrt{s} = 7$ and $8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 283. | 1.4 | 63        |
| 64 | Addendum to "Measurement of the $t\bar{t}$ production cross-section using $e^{1/4}$ events with b-tagged jets in pp collisions at $\sqrt{s} = 7$ and $8$ TeV with the ATLAS detector". European Physical Journal C, 2016, 76, 1.  | 1.4 | 19        |
| 65 | Measurement of the CP-violating phase $\arg(\lambda_{cb})$ and the $B_s^0$ meson decay width difference with $B_s^0 \rightarrow \mu^+ \mu^-$ decays in ATLAS. Journal of High Energy Physics, 2016, 2016, 1.                      | 1.6 | 13        |
| 66 | A search for prompt lepton-jets in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.  | 1.6 | 31        |
| 67 | Search for new phenomena with photon+jet events in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.  | 1.6 | 13        |
| 68 | Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 199.         | 1.4 | 60        |
| 69 | Measurement of the production cross-section of a single top quark in association with a W boson at 8 TeV with the ATLAS experiment. Journal of High Energy Physics, 2016, 2016, 1.  | 1.6 | 14        |
| 70 | 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. Journal of High Energy Physics, 2016, 2016, 1.                         | 1.6 | 19        |
| 71 | Search for strong gravity in multijet final states produced in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector at the LHC. Journal of High Energy Physics, 2016, 2016, 1.   | 1.6 | 15        |
| 72 | Measurements of four-lepton production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 552-572.                      |     |           |

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|----|--|-----|-----------|
| 73 | Measurement of the charge asymmetry in highly boosted top-quark pair production in $\sqrt{s} = 8$ TeV pp collision data collected by the ATLAS experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 756, 285-305.                               | 1.5 | 10        |
| 74 | Measurement of the dependence of transverse energy production at large pseudorapidity on the hard-scattering kinematics of proton-proton collisions at $\sqrt{s} = 2.76$ TeV with ATLAS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 756, 108-118. | 1.5 | 21        |
| 75 | Search for single production of a vector-like quark via a heavy gluon in the 4b final state with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 285-305.                              | 1.5 | 16        |
| 76 | Search for new phenomena in dijet mass and angular distributions from pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 285-305.   | 1.5 | 16        |
| 77 | Evidence for single top-quark production in the s-channel in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector using the Matrix Element Method. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 285-305.                     | 1.5 | 16        |
| 78 | Charge parity tests and high-energy physics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 285-305.   | 1.5 | 16        |
| 79 | pp interactions measured with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 285-305.   | 1.5 | 16        |
| 80 | Combination of searches for WW, WZ, and ZZ resonances in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 285-305.  | 1.5 | 16        |
| 81 | Identification of boosted, hadronically decaying W bosons and comparisons with ATLAS data taken at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 154.   | 1.4 | 62        |
| 82 | Search for new phenomena in events with at least three photons collected in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 210.   | 1.4 | 95        |
| 83 | Probing lepton flavour violation via neutrinoless $\mu \rightarrow 3\mu$ decays with the ATLAS detector. European Physical Journal C, 2016, 76, 232.   | 1.4 | 19        |
| 84 | A new method to distinguish hadronically decaying boosted Z bosons from W bosons using the ATLAS detector. European Physical Journal C, 2016, 76, 238.   | 1.4 | 9         |
| 85 | Search for supersymmetry at $\sqrt{s} = 13$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. European Physical Journal C, 2016, 76, 259.  | 1.4 | 72        |
| 86 | Search for invisible decays of a Higgs boson using vector-boson fusion in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.  | 1.6 | 49        |
| 87 | 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. Journal of High Energy Physics, 2016, 2016, 1-46.  | 1.6 | 13        |
| 88 | Searches for scalar leptoquarks in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 5.  | 1.4 | 109       |
| 89 | Measurements of the Higgs boson production and decay rates and coupling strengths using pp collision data at $\sqrt{s} = 7$ and 8 TeV in the ATLAS experiment. European Physical Journal C, 2016, 76, 6.   | 1.4 | 274       |
| 90 | Measurements of fiducial cross-sections for $t\bar{t}$ production with one or two additional b-jets in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. European Physical Journal C, 2016, 76, 11.  | 1.4 | 54        |

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|-----|---|-----|-----------|
| 91  | Study of the $B_c^+ \rightarrow J/\psi D_s^+ B_c^+ \hat{\tau}^+ J/\psi D_s^+$ and $B_c^+ \rightarrow J/\psi D_s^+ \hat{\tau}^+ J/\psi D_s^+$ decays with the ATLAS detector. European Physical Journal C, 2016, 76, 4.  | 1.4 | 40        |
| 92  | Search for an additional, heavy Higgs boson in the $H \rightarrow ZZ H \hat{\tau}^+ Z Z$ decay channel at $\sqrt{s} = 8$ TeV in $pp$ collision data with the ATLAS detector. European Physical Journal C, 2016, 76, 45. | 1.4 | 197       |
| 93  | Search for single top-quark production via flavour-changing neutral currents at 8 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 55.   | 1.4 | 43        |
| 94  | Measurement of the correlation between flow harmonics of different order in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. Physical Review C, 2015, 92, .                                  | 1.4 | 184       |
| 95  | Search for massive supersymmetric particles decaying to many jets using the ATLAS detector in $pp$ collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 91, .   | 1.6 | 34        |
| 96  | Observation and measurement of Higgs boson decays to $W^+ W^-$ and $W^+ W^- \tau^+ \tau^-$ in the ATLAS detector. Physical Review D, 2015, 92, .  | 1.6 | 110       |
| 97  | Search for displaced vertices or displaced lepton pairs in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .  | 1.6 | 91        |
| 98  | Measurements of the top quark branching ratios into channels with leptons and quarks with the ATLAS detector. Physical Review D, 2015, 92, .  | 1.6 | 7         |
| 99  | Measurement of differential cross sections for Higgs boson production in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .  | 2.9 | 48        |
| 100 | Measurement of differential cross sections and forward-backward ratios in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .   | 1.1 | 27        |
| 101 | Observation of top-quark pair production in association with a photon and measurement of the cross section in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .             | 1.1 | 44        |
| 102 | Measurement of the top pair production cross section in 8 TeV proton-proton collisions using kinematic information in the $l^+ l^- b \bar{b}$ final state with ATLAS. Physical Review D, 2015, 92, .                    | 1.6 | 36        |
| 103 | Search for type-III seesaw heavy leptons in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .   | 1.6 | 51        |
| 104 | Search for high-mass diphoton resonances in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .   | 1.6 | 26        |
| 105 | Search for Higgs bosons decaying to $aa$ in the $l^+ l^- b \bar{b}$ final state in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .  | 1.6 | 61        |
| 106 | Search for Higgs bosons decaying to $aa$ in the $l^+ l^- b \bar{b}$ final state in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .  | 1.6 | 24        |
| 107 | Search for Higgs bosons decaying to $aa$ in the $l^+ l^- b \bar{b}$ final state in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .  | 1.6 | 99        |
| 108 | Search for Higgs bosons decaying to $aa$ in the $l^+ l^- b \bar{b}$ final state in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Physical Review D, 2015, 92, .  | 1.6 | 40        |

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|-----|--|-----|-----------|
| 109 | Search for photonic signatures of gauge-mediated supersymmetry in $8\hat{\text{A}}\text{TeV}$ collisions with the ATLAS detector. Physical Review D, 2015, 92, .   | 1.6 | 19        |
| 110 | Search for new light gauge bosons in Higgs boson decays to four-lepton final states in pp collisions at $\sqrt{s}=8\hat{\text{A}}\text{TeV}$ with the ATLAS detector at the LHC. Physical Review D, 2015, 92, .                        | 1.6 | 26        |
| 111 | Search for pair production of a new heavy quark that decays into a $\chi_{\text{c}}^0$ boson and a light quark in $\sqrt{s}=8\hat{\text{A}}\text{TeV}$ collisions with the ATLAS detector. Physical Review Letters, 2015, 114, 221802. | 1.6 | 101       |
| 112 | Search for pair production of a new heavy quark that decays into a $\chi_{\text{c}}^0$ boson and a light quark in $\sqrt{s}=8\hat{\text{A}}\text{TeV}$ collisions with the ATLAS detector. Physical Review Letters, 2015, 114, 221802. | 1.6 | 48        |
| 113 | Search for New Phenomena in Dijet Angular Distributions in Proton-Proton Collisions at $\sqrt{s}=8\hat{\text{A}}\text{TeV}$ with the ATLAS Detector. Physical Review Letters, 2015, 114, 221802.                                       | 2.9 | 27        |
| 114 | Search for pair production of a new heavy quark that decays into a $\chi_{\text{c}}^0$ boson and a light quark in $\sqrt{s}=8\hat{\text{A}}\text{TeV}$ collisions with the ATLAS detector. Physical Review Letters, 2015, 114, 221802. | 2.9 | 27        |
| 115 | Evidence of $\chi_{\text{c}}^0$ boson production in $\sqrt{s}=8\hat{\text{A}}\text{TeV}$ collisions with the ATLAS detector. Physical Review Letters, 2015, 114, 221802.   | 2.9 | 20        |
| 116 | Search for pair production of a new heavy quark that decays into a $\chi_{\text{c}}^0$ boson and a light quark in $\sqrt{s}=8\hat{\text{A}}\text{TeV}$ collisions with the ATLAS detector. Physical Review Letters, 2015, 114, 221802. | 2.9 | 30        |
| 117 | Search for pair production of a new heavy quark that decays into a $\chi_{\text{c}}^0$ boson and a light quark in $\sqrt{s}=8\hat{\text{A}}\text{TeV}$ collisions with the ATLAS detector. Physical Review Letters, 2015, 114, 221802. | 2.9 | 49        |
| 118 | Determination of the Ratio of $\chi_{\text{c}}^0$ Boson Production in $\sqrt{s}=8\hat{\text{A}}\text{TeV}$ Collisions with the ATLAS Detector. Physical Review Letters, 2015, 114, 221802.   | 2.9 | 23        |
| 119 | Search for pair production of a new heavy quark that decays into a $\chi_{\text{c}}^0$ boson and a light quark in $\sqrt{s}=8\hat{\text{A}}\text{TeV}$ collisions with the ATLAS detector. Physical Review Letters, 2015, 114, 221802. | 2.9 | 16        |
| 120 | Search for low-scale gravity signatures in multi-jet final states with the ATLAS detector at $\sqrt{s}=8\hat{\text{A}}\text{TeV}$ . Journal of High Energy Physics, 2015, 2015, 1.   | 1.6 | 4         |
| 121 | A search for high-mass resonances decaying to $\tilde{\chi}_1^0, \tilde{\chi}_1^\pm$ in pp collisions at $\sqrt{s}=8\hat{\text{A}}\text{TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.                  | 1.6 | 23        |
| 122 | Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 $\hat{\text{A}}^{\text{TM}}$ interpreted in the phenomenological MSSM. Journal of High Energy Physics, 2015, 2015, 1.                                   | 1.6 | 55        |
| 123 | Search for lepton-flavour-violating $H \hat{\text{A}}^+ \hat{\text{A}}^0, \tilde{\chi}_1^0$ , decays of the Higgs boson with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.  | 1.6 | 52        |
| 124 | Measurement of four-jet differential cross sections in $\sqrt{s}=8\hat{\text{A}}\text{TeV}$ proton-proton collisions using the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-76.                                       | 1.6 | 11        |
| 125 | Measurement of colour flow with the 3-jet pull angle in $\sqrt{s}=8\hat{\text{A}}\text{TeV}$ collisions with the ATLAS detector. Physical Review Letters, 2015, 114, 221802.   | 1.5 | 23        |
| 126 | Search for pair production of a new heavy quark that decays into a $\chi_{\text{c}}^0$ boson and a light quark in $\sqrt{s}=8\hat{\text{A}}\text{TeV}$ collisions with the ATLAS detector. Physical Review Letters, 2015, 114, 221802. | 1.5 | 18        |



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|-----|--|------|-----------|
| 127 | Measurement of exclusive $\mu^+\mu^-$ production in proton-lead collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.   | 1.5  | 43        |
| 128 | A search for $t\bar{t}$ resonances using lepton-plus-jets events in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.   | 1.6  | 66        |
| 129 | Measurement of the forward-backward asymmetry of electron and muon pair-production in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.  | 1.6  | 28        |
| 130 | Measurement of charged-particle spectra in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector at the LHC. Journal of High Energy Physics, 2015, 2015, 1.   | 1.6  | 67        |
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| 456 | Measurement of the cross section for the production of a W boson in association with b-jets in pp collisions at the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 363-382.            | 1.5 | 20        |
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| 461 | Search for new physics in the dijet mass distribution using 1 fb <sup>-1</sup> of pp collision data at the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 478-496.                     | 1.5 | 8         |
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| 464 | Search for first generation scalar leptoquarks in pp collisions at the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 363-382.   | 1.5 | 58        |
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