RESEARCH & PUBLICATIONS

Ole Røhne

A publication record at a glance

603	37,499	93
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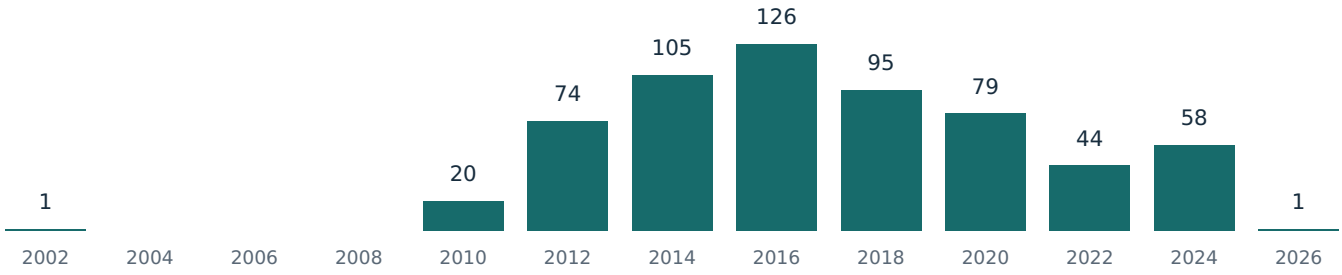
PUBLICATION ACTIVITY

Articles grouped into 2-year periods



MOST CITED IN THIS LIST

The ATLAS Simulation Infrastructure — 1,521
2010 European Physical Journal C

Performance of the ATLAS Trigger System in 2015 — 788
2017 European Physical Journal C

Muon Reconstruction Performance of the ATLAS Detector in Proton–Proton Collision Data at √s s =13 TeV — 593
2016 European Physical Journal C

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2026

01 Measurement of the Top-Quark Yukawa Coupling From Tt̄ Production in the Lepton+Jets Final State Using Pp Collisions at √s=13 TeV With the ATLAS Detector

1 citations

Journal of High Energy Physics · 2026, 117

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2025

02 Total Cost of Ownership and Evaluation of Google Cloud Resources for the ATLAS Experiment at the LHC

5 citations

Computing and Software for Big Science · 9, 1-35

https://exaly.com/article/197148996

03 Combination of Searches for Singly Produced Vectorlike Top Quarks in Pp Collisions at √(s)=13 TeV With the ATLAS Detector

7 citations

Physical Review D · 111, 012012

https://exaly.com/article/197214058

04 Search for Magnetic Monopole Pair Production in Ultraperipheral Pb+Pb Collisions at √(s_(NN))=5.36 TeV With the ATLAS Detector at the LHC

14 citations

Physical Review Letters · 134, 061803

https://exaly.com/article/197783653

05 Search for Triple Higgs Boson Production in the 6b Final State Using Pp Collisions at √(s)=13 TeV With the ATLAS Detector

22 citations

Physical Review D · 111, 032006

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06 Measurement of Photonuclear Jet Production in Ultraperipheral Pb+Pb Collisions at √(s_(NN))=5.02 TeV With the ATLAS Detector

18 citations

Physical Review D · 111, 052006

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07 Search for Dark Matter Produced in Association With a Dark Higgs Boson in the Bb̄ Final State Using Pp Collisions at √(s)=13 TeV With the ATLAS Detector

5 citations

Physical Review Letters · 134, 121801

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08 Real-Time Antiproton Annihilation Vertexing With Submicrometer Resolution

8 citations

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09 Observation of Tt̄ Production in Pb+Pb Collisions at √(s_(NN))=5.02 TeV With the ATLAS Detector

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10 **Search for the Jet-Induced Diffusion Wake in the Quark-Gluon Plasma via Measurements of Jet-Track Correlations in Photon-Jet Events in Pb+Pb Collisions at √(s_(NN))=5.02 TeV With the ATLAS Detector**

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11 **Test of Lepton Flavour Universality in W-Boson Decays Into Electrons and τ-Leptons Using Pp Collisions at √s = 13 TeV With the ATLAS Detector**

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12 **Search for Cascade Decays of Charged Sleptons and Sneutrinos in Final States With Three Leptons and Missing Transverse Momentum in Pp Collisions at √(s)=13 TeV With the ATLAS Detector**

Physical Review D · 112, 012005

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13 **Search for Vector-Like Leptons Coupling to First- and Second-Generation Standard Model Leptons in Pp Collisions at √s = 13 TeV With the ATLAS Detector**

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14 **Search for Displaced Leptons in √(s)=13 TeV and 13.6 TeV Pp Collisions With the ATLAS Detector**

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15 **The Performance of Missing Transverse Momentum Reconstruction and Its Significance With the ATLAS Detector Using 140 \hbox (Fb)$^{-1}$ of √s=13 TeV Pp Collisions**

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16 **Search for New Physics in Final States With Semivisible Jets or Anomalous Signatures Using the ATLAS Detector**

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17 **Cross-Section Measurements for the Production of a W -Boson in Association With High-Transverse-Momentum Jets in Pp Collisions at √s = 13 TeV With the ATLAS Detector**

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19 Measurement of Double-Differential Charged-Current Drell-Yan Cross-Sections at High Transverse Masses in Pp Collisions at √s = 13 TeV With the ATLAS Detector

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20 Evidence for Longitudinally Polarized W Bosons in the Electroweak Production of Same-Sign W Boson Pairs in Association With Two Jets in Pp Collisions at √(s)=13 TeV With the ATLAS Detector

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22 Azimuthal Anisotropies of Charged Particles With High Transverse Momentum in Pb+Pb Collisions at √(s_(NN))=5.02 TeV With the ATLAS Detector

Physical Review C · 112, 024910

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23 Search for Heavy Neutral Leptons in Decays of W Bosons Using Leptonic and Semi-Leptonic Displaced Vertices in √s = 13 TeV Pp Collisions With the ATLAS Detector

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24 Measurements of the Production Cross-Sections of a Higgs Boson in Association With a Vector Boson and Decaying Into WW* With the ATLAS Detector at √s = 13 TeV

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25 Searches for Direct Slepton Production in the Compressed-Mass Corridor in √s = 13 TeV Pp Collisions With the ATLAS Detector

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26 Search for Charged Higgs Bosons Produced in Top-Quark Decays or in Association With Top Quarks and Decaying via H^(±)→τ^(±)ν_(τ) in 13 TeV Pp Collisions With the ATLAS Detector

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27 Measurements of W+W− Production Cross-Sections in Pp Collisions at √s=13 TeV With the ATLAS Detector

Journal of High Energy Physics · 2025, 142

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28 A Search for Dark Matter Produced in Association With a Dark Higgs Boson Decaying Into a Higgs Boson Pair in 3b or 4b Final States Using Pp Collisions at √s=13 TeV With the ATLAS Detector

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29 Weakly Supervised Anomaly Detection for Resonant New Physics in the Dijet Final State Using Proton-Proton Collisions at √(s)=13 TeV With the ATLAS Detector

Physical Review D · 112, 072009

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30 A Measurement of the High-Mass τ τ̄ Production Cross-Section at √s=13 TeV With the ATLAS Detector and Constraints on New Particles and Couplings

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31 Search for Decays of the Higgs Boson Into Scalar Particles Decaying Into Four or Six b Quarks Using Pp Collisions at √(s)=13 TeV With the ATLAS Detector

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32 Probing the Higgs Boson CP Properties in Vector-Boson Fusion Production in the H → τ+τ− Channel With the ATLAS Detector

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33 Search for the Production of a Higgs Boson in Association With a Single Top Quark in Pp Collisions at √s=13 TeV With the ATLAS Detector

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35 Search for Electroweak-Scale Dijet Resonances Using Trigger-Level Analysis With the ATLAS Detector in 132 Fb^(−1) of Pp Collisions at √(s)=13 TeV

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36 Measurements and Interpretations of W±Z Production Cross-Sections in Pp Collisions at √s=13 TeV With the ATLAS Detector

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37 Evidence for the Dimuon Decay of the Higgs Boson in Pp Collisions With the ATLAS Detector

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38 Measurement of the Top-Quark Pole Mass in Dileptonic $t\bar{t}$ + 1-Jet Events at √s=13 TeV With the ATLAS Experiment

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39 Search for Single Production of Vector-Like Quarks Decaying Into W(ℓν)b in Pp Collisions at √s=13 TeV With the ATLAS Detector

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40 Search for Resonant Leptoquark Production via Lepton-Jet Signatures in Pp Collisions at √s=13 TeV and √s=13.6 TeV With the ATLAS Detector

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41 Measurement of the H → γ γ and H → ZZ^(*) → 4 ℓ Cross-Sections in Pp Collisions at √s=13.6 TeV With the ATLAS Detector

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42 Measurement of the Production Cross-Section of J/ψ and ψ (2S) Mesons in Pp Collisions at √s = 13 TeV With the ATLAS Detector

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43 A Precise Measurement of the Z-Boson Double-Differential Transverse Momentum and Rapidity Distributions in the Full Phase Space of the Decay Leptons With the ATLAS Experiment at √s=8 TeV

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44 Software Performance of the ATLAS Track Reconstruction for LHC Run 3

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45 Performance of the ATLAS Forward Proton Time-of-Flight Detector in Run 2

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46 Beam-Induced Backgrounds Measured in the ATLAS Detector During Local Gas Injection Into the LHC Beam Vacuum

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47 Search for Short- and Long-Lived Axion-Like Particles in H→ a a → 4γ Decays With the ATLAS Experiment at the LHC

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48 Search for Flavour-Changing Neutral-Current Couplings Between the Top Quark and the Higgs Boson in Multi-Lepton Final States in 13 TeV Pp Collisions With the ATLAS Detector

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49 Search for Leptoquark Pair Production Decaying Into $Te^{-}\bar{T}e^{+}$ or $T\mu^{-}\bar{T}\mu^{+}$ in Multi-Lepton Final States in Pp Collisions at √s = 13TeV With the ATLAS Detector

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50 TALOS (Total Automation of LabVIEW Operations for Science): A Framework for Autonomous Control Systems for Complex Experiments

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51 Measurements of the Production Cross-Section for a Z Boson in Association With b- or c-Jets in Proton–Proton Collisions at √s = 13 TeV With the ATLAS Detector

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52 Precise Test of Lepton Flavour Universality in \varvec{W} -Boson Decays Into Muons and Electrons in \varvec{Pp} Collisions at \varvec{\sqrt{s}}=13Te\hspace{-1.00006pt}V With the ATLAS Detector

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53 Constraints on Simplified Dark Matter Models Involving an s-Channel Mediator With the ATLAS Detector in Pp Collisions at √s = 13 TeV

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54 Precise Measurements of W- and Z-Boson Transverse Momentum Spectra With the ATLAS Detector Using Pp Collisions at √s = 5.02 TeV and 13 TeV

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55 Search for R-Parity Violating Supersymmetric Decays of the Top Squark to a b-Jet and a Lepton in √(s)=13 TeV Pp Collisions With the ATLAS Detector

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56 Search for Heavy Right-Handed Majorana Neutrinos in the Decay of Top Quarks Produced in Proton-Proton Collisions at √(s)=13 TeV With the ATLAS Detector

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57 Disentangling Sources of Momentum Fluctuations in Xe+Xe and Pb+Pb Collisions With the ATLAS Detector

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58 Simultaneous Unbinned Differential Cross-Section Measurement of Twenty-Four Z+Jets Kinematic Observables With the ATLAS Detector

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59 Jet Radius Dependence of Dijet Momentum Balance and Suppression in Pb+Pb Collisions at 5.02 TeV With the ATLAS Detector

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60 Measurement of the Nuclear Modification Factor of b-Jets in 5.02 TeV Pb+Pb Collisions With the ATLAS Detector

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61 Observation of Four-Top-Quark Production in the Multilepton Final State With the ATLAS Detector

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62 Constraints on Spin-0 Dark Matter Mediators and Invisible Higgs Decays Using ATLAS 13 TeV Pp Collision Data With Two Top Quarks and Missing Transverse Momentum in the Final State

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79 Search for Majorana Neutrinos in Same-Sign WW Scattering Events From Pp Collisions at √s=13 TeV

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31 citations

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26 citations

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12 citations

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23 citations

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18 citations

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66 citations

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95 citations

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104 citations

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31 citations

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116 citations

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135 citations

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21 citations

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62 citations

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36 citations

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24 citations

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73 citations

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25 citations

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58 citations

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40 citations

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14 citations

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44 citations

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172 citations

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68 citations

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36 citations

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30 citations

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52 citations

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82 citations

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91 citations

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35 citations

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21 citations

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52 citations

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23 citations

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23 citations

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108 citations

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33 citations

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155 citations

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43 citations

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75 citations

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176 citations

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16 citations

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29 citations

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38 citations

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28 citations

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58 citations

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34 citations

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17 citations

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43 citations

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139 citations

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37 citations

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115 citations

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37 citations

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74 citations

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36 citations

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398 citations

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40 citations

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45 citations

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10 citations

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European Physical Journal C · 77, 1-40

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16 citations

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12 citations

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17 citations

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18 citations

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63 citations
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28 citations

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10 citations

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23 citations

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35 citations

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45 citations

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73 citations

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16 citations

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36 citations

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22 citations

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22 citations

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35 citations

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28 citations

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13 citations

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25 citations

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Journal of High Energy Physics · 2017, 1-56

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51 citations

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41 citations

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4 citations

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10 citations

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Journal of High Energy Physics · 2017, 1-61

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186 citations

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32 citations

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Journal of High Energy Physics · 2016, 1-37

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12 citations

339 Measurement of Event-Shape Observables in Z → ℓ + ℓ -Z → ℓ + ℓ - Events in Pp Collisions at √s=7√s=7 With the ATLAS Detector at the LHC

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European Physical Journal C · 76, 1-32

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39 citations

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88 citations

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42 citations

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45 citations

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10 citations

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56 citations

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52 citations

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88 citations

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11 citations

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4 citations

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197 citations

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17 citations

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24 citations

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17 citations

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5 citations

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154 citations

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82 citations

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318 citations

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60 citations

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35 citations

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14 citations

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76 citations

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19 citations

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21 citations

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18 citations

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70 citations

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126 citations

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35 citations

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13 citations

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56 citations

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14 citations

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323 citations

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54 citations

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215 citations

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52 citations

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27 citations

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69 citations

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34 citations

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91 citations

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34 citations

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84 citations

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102 citations

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75 citations

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23 citations

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68 citations

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28 citations

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29 citations

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35 citations

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293 citations

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37 citations

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74 citations

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95 citations

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81 citations

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29 citations

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16 citations

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