

Ammara Ahmad

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.

583
papers

16,416
citations

58
h-index

107
g-index

622
ext. papers

19,346
ext. citations

4.9
avg, IF

1.66
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 583 | Emulating the impact of additional proton-proton interactions in the ATLAS simulation by presampling sets of inelastic Monte Carlo events. <i>Computing and Software for Big Science</i> , 2022 , 6, 1 | 6 | 0 |
| 582 | Search for heavy particles in the b -tagged dijet mass distribution with additional b -tagged jets in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS experiment. <i>Physical Review D</i> , 2022 , 105, | 4.9 | 1 |
| 581 | Performance of the ATLAS Level-1 topological trigger in Run2. <i>European Physical Journal C</i> , 2022 , 82, 1 | 4.2 | 0 |
| 580 | Operation and performance of the ATLAS semiconductor tracker in LHC Run2. <i>Journal of Instrumentation</i> , 2022 , 17, P01013 | 1 | 1 |
| 579 | Measurement of double-parton scattering in inclusive production of four jets with low transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 0 |
| 578 | Search for Higgs boson decays into a pair of pseudoscalar particles in the $b\bar{b}$ final state with the ATLAS detector in pp collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , 2022 , 105, | 4.9 | 1 |
| 577 | Search for exotic decays of the Higgs boson into $b\bar{b}$ and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 0 |
| 576 | Study of quark and gluon jet substructure in Z+jet and dijet events from pp collisions. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 0 |
| 575 | Observation of electroweak production of two jets in association with an isolated photon and missing transverse momentum, and search for a Higgs boson decaying into invisible particles at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2022 , 82, 1 | 4.2 | 0 |
| 574 | Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 0 |
| 573 | Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 1 |
| 572 | Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at .. <i>European Physical Journal C</i> , 2022 , 82, 153 | 4.2 | 0 |
| 571 | Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fb ⁻¹ of pp collision data at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 0 |
| 570 | AtlFast3: The Next Generation of Fast Simulation in ATLAS. <i>Computing and Software for Big Science</i> , 2022 , 6, 1 | 6 | 0 |
| 569 | Search for long-lived particles produced in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 0 |
| 568 | Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | |
| 567 | Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow \tau^{\pm} \rightarrow \pi^{\pm} \nu_{\tau} \bar{\nu}_{\tau}$ events in Run2 data. <i>European Physical Journal C</i> , 2022 , 82, 1 | 4.2 | 0 |

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| 566 | The ATLAS inner detector trigger performance in pp collisions at 13 TeV during LHC Run 2. <i>European Physical Journal C</i> , 2022 , 82, 1 | 4.2 | |
| 565 | Search for associated production of a Z boson with an invisibly decaying Higgs boson or dark matter candidates at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022 , 137066 | 4.2 | 0 |
| 564 | Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at .. <i>European Physical Journal C</i> , 2022 , 82, 290 | 4.2 | 0 |
| 563 | Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 0 |
| 562 | Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 0 |
| 561 | Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 0 |
| 560 | A search for an unexpected asymmetry in the production of e^+e^- and e^+e^- pairs in proton-proton collisions recorded by the ATLAS detector at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022 , 137106 | 4.2 | |
| 559 | Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 0 |
| 558 | Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 0 |
| 557 | Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 0 |
| 556 | Measurement of the inclusive $\overline{t}t$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | |
| 555 | Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7, 8$ and 13 TeV. <i>European Physical Journal C</i> , 2022 , 82, 1 | 4.2 | 1 |
| 554 | Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 970 | 4.2 | 3 |
| 553 | Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the $b\bar{b}$ final state at 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 2 |
| 552 | Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 3 |
| 551 | Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using ($\sqrt{s} = 13$ TeV) proton-proton collision data. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 2 |
| 550 | Observation of tW production in the single-lepton channel in pp collisions at ($\sqrt{s} = 13$ TeV). <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 0 |
| 549 | Measurement of the $t(\overline{t})t(\overline{t})$ production cross section in pp collisions at ($\sqrt{s} = 13$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 0 |

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| 548 | Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb ⁻¹ of proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 1 |
| 547 | Measurements of the $pp \rightarrow W\mu\mu$ and $pp \rightarrow Z\tau\tau$ cross sections at (\sqrt{s}) = 13 TeV and limits on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 1 |
| 546 | Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 2 |
| 545 | Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 2 |
| 544 | Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4-2 | 7 |
| 543 | Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb ⁻¹ of Pb+Pb data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 5 |
| 542 | Measurements of production cross sections and constraints on anomalous triple gauge couplings at. <i>European Physical Journal C</i> , 2021 , 81, 200 | 4-2 | 5 |
| 541 | Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 3 |
| 540 | Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 4 |
| 539 | Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 1 |
| 538 | Search for new physics in top quark production with additional leptons in proton-proton collisions at (\sqrt{s}) = 13 TeV using effective field theory. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 4 |
| 537 | Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 6 |
| 536 | Measurement of differential cross sections for Z bosons produced in association with charm jets in pp collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 1 |
| 535 | Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 8 |
| 534 | Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at (\sqrt{s}) = 13 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4-2 | 5 |
| 533 | Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 6 |
| 532 | Development and validation of HERWIG ⁺⁺ tunes from CMS underlying-event measurements. <i>European Physical Journal C</i> , 2021 , 81, 312 | 4-2 | 1 |
| 531 | Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4-2 | 2 |

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| 530 | Research and development of the back-end electronics for the two-dimensional improved resistive plate chambers in CMS upgrade. <i>Radiation Detection Technology and Methods</i> , 2021 , 5, 181-191 | 0.7 | 0 |
| 529 | Search for heavy resonances decaying into a pair of Z bosons in the $(e^+e^-e^+e^-)$ and $(e^+e^-\nu\bar{\nu})$ final states using 139 ($\sqrt{s}=13$) TeV of proton-proton collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 8 |
| 528 | Angular analysis of the decay $B^+ \rightarrow \mu^+\mu^-\mu^+$ in proton-proton collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 2 |
| 527 | Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at. <i>European Physical Journal C</i> , 2021 , 81, 378 | 4.2 | 5 |
| 526 | Measurement of b jet shapes in proton-proton collisions at $(\sqrt{s}) = 5.02$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 0 |
| 525 | First measurement of large area jet transverse momentum spectra in heavy-ion collisions. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 2 |
| 524 | Search for new phenomena in final states with b-jets and missing transverse momentum in $(\sqrt{s}) = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 6 |
| 523 | Study of Drell-Yan dimuon production in proton-lead collisions at $(\sqrt{s_{\text{NN}}}) = 8.16$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 0 |
| 522 | Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the (e^+e^-bb) and (e^+e^-WW) final states in pp collisions at $(\sqrt{s}=13)$ (text {TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 7 |
| 521 | Measurements of the differential cross sections of the production of Z + jets and τ jets and of Z boson emission collinear with a jet in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | |
| 520 | In-medium modification of dijets in PbPb collisions at $(\sqrt{s_{\text{NN}}}) = 5.02$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 0 |
| 519 | Measurement of the Z boson differential production cross section using its invisible decay mode $(Z \rightarrow \nu\bar{\nu})$ in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | |
| 518 | Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 3 |
| 517 | Search for new phenomena in events with an energetic jet and missing transverse momentum in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2021 , 103, | 4.9 | 10 |
| 516 | Measurements of $W+W\tau$ jet production cross-sections in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 0 |
| 515 | Search for charged Higgs bosons decaying into a top quark and a bottom quark at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 8 |
| 514 | Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 488 | 4.2 | 5 |
| 513 | Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $(\sqrt{s}=13,\text{text {TeV}})$. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 0 |

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| 512 | Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a lepton in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 6 |
| 511 | Search for charged-lepton-flavour violation in Z-boson decays with the ATLAS detector. <i>Nature Physics</i> , 2021 , 17, 819-825 | 16.2 | 4 |
| 510 | Test of the universality of quark and lepton couplings in W-boson decays with the ATLAS detector. <i>Nature Physics</i> , 2021 , 17, 813-818 | 16.2 | 1 |
| 509 | Two-particle azimuthal correlations in photonuclear ultraperipheral Pb+Pb collisions at 5.02 TeV with ATLAS. <i>Physical Review C</i> , 2021 , 104, | 2.7 | 2 |
| 508 | Search for supersymmetry in events with four or more charged leptons in 139 fb ⁻¹ of $(\sqrt{s}) = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 2 |
| 507 | Determination of the parton distribution functions of the proton from ATLAS measurements of differential W [±] and Z boson production in association with jets. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 1 |
| 506 | Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 0 |
| 505 | A search for the decays of stopped long-lived particles at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 1 |
| 504 | Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 3 |
| 503 | Search for resonant and nonresonant new phenomena in high-mass dilepton final states at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 5 |
| 502 | Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $(\sqrt{s})=13$ TeV. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 13 |
| 501 | Performance of the ATLAS RPC detector and Level-1 muon barrel trigger at $(\sqrt{s})=13$ TeV. <i>Journal of Instrumentation</i> , 2021 , 16, P07029 | 1 | 1 |
| 500 | Measurement of hadronic event shapes in high-p _T multijet final states at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 3 |
| 499 | Search for the lepton flavor violating decay $\mu \rightarrow e \gamma$ in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 1 |
| 498 | Search for dark matter produced in association with a leptonically decaying boson in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 13 | 4.2 | 7 |
| 497 | Evidence for Higgs boson decay to a pair of muons. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 14 |
| 496 | Search for top squark pair production using dilepton final states in collision data collected at. <i>European Physical Journal C</i> , 2021 , 81, 3 | 4.2 | 5 |
| 495 | Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb ⁻¹ of $(\sqrt{s}) = 13$ TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 8 |

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| 494 | Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 5 |
| 493 | Search for dark matter in association with an energetic photon in pp collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 5 |
| 492 | Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 0 |
| 491 | The ATLAS Fast Tracker system. <i>Journal of Instrumentation</i> , 2021 , 16, P07006 | 1 | 0 |
| 490 | MUSIC: a model-unspecific search for new physics in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 629 | 4.2 | 4 |
| 489 | Jet energy scale and resolution measured in proton-proton collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 11 |
| 488 | Search for a heavy vector resonance decaying to a τ boson and a Higgs boson in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 688 | 4.2 | 0 |
| 487 | Measurements of sensor radiation damage in the ATLAS inner detector using leakage currents. <i>Journal of Instrumentation</i> , 2021 , 16, P08025 | 1 | 1 |
| 486 | Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 723 | 4.2 | 3 |
| 485 | Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a Z boson at $(\sqrt{s} = 13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 1 |
| 484 | Exclusive dimuon production in ultraperipheral Pb+Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV with ATLAS. <i>Physical Review C</i> , 2021 , 104, | 2.7 | 2 |
| 483 | Measurements of angular distance and momentum ratio distributions in three-jet and + two-jet final states in collisions. <i>European Physical Journal C</i> , 2021 , 81, 852 | 4.2 | 0 |
| 482 | Precision luminosity measurement in proton-proton collisions at in 2015 and 2016 at CMS. <i>European Physical Journal C</i> , 2021 , 81, 800 | 4.2 | 7 |
| 481 | Search for New Phenomena in Final States with Two Leptons and One or No b-Tagged Jets at $\sqrt{s}=13$ TeV Using the ATLAS Detector. <i>Physical Review Letters</i> , 2021 , 127, 141801 | 7.4 | 1 |
| 480 | Search for dark matter produced in association with a single top quark in $(\sqrt{s}=13)$ TeV (pp) collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 4 |
| 479 | Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at $(\sqrt{s}) = 13$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 2 |
| 478 | Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 1 |
| 477 | Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 0 |

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| 476 | Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 0 |
| 475 | Measurement of prompt open-charm production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | |
| 474 | Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV using displaced vertices in the ATLAS inner detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 0 |
| 473 | Measurement of the inclusive and differential $t\bar{t}$ cross sections in the single-lepton channel and EFT interpretation at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 0 |
| 472 | Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4-2 | 1 |
| 471 | Measurement of the top quark mass using events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 0 |
| 470 | Probing effective field theory operators in the associated production of top quarks with a Z boson in multilepton final states at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 0 |
| 469 | Configuration and performance of the ATLAS b-jet triggers in Run 2. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4-2 | 1 |
| 468 | Search for Lepton-Flavor Violation in Z-Boson Decays with n Leptons with the ATLAS Detector. <i>Physical Review Letters</i> , 2021 , 127, 271801 | 7-4 | 0 |
| 467 | Search for new phenomena in pp collisions in final states with tau leptons, b -jets, and missing transverse momentum with the ATLAS detector. <i>Physical Review D</i> , 2021 , 104, | 4-9 | 1 |
| 466 | Measurement of b-quark fragmentation properties in jets using the decay $B \rightarrow \mu \bar{\mu}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 0 |
| 465 | Search for a heavy resonance decaying to a top quark and a W boson at $\sqrt{s} = 13$ TeV in the fully hadronic final state. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5-4 | 1 |
| 464 | Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , 2020 , 15, P10017-P10017 | 1 | 23 |
| 463 | Performance of the upgraded PreProcessor of the ATLAS Level-1 Calorimeter Trigger. <i>Journal of Instrumentation</i> , 2020 , 15, P11016-P11016 | 1 | 2 |
| 462 | Search for decays of the 125 GeV Higgs boson into a Z boson and a $\chi_{\pm 1}^0$ meson. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5-4 | 2 |
| 461 | Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5-4 | 12 |
| 460 | Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5-4 | 20 |
| 459 | Search for supersymmetry in proton-proton collisions at $(\sqrt{s}) = 13$ TeV in events with high-momentum Z bosons and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5-4 | 1 |

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| 458 | Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $(\sqrt{s}) = 13$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 8 |
| 457 | Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 8 |
| 456 | Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 1 |
| 455 | Search for new neutral Higgs bosons through the $(\text{H}) \rightarrow \text{ZA} \rightarrow \{\ell\}^+ \{\ell\}^- \text{b} \overline{\text{b}}$ process in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 10 |
| 454 | Search for direct pair production of supersymmetric partners to the lepton in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 189 | 4.2 | 3 |
| 453 | Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in collisions at and 5.02. <i>European Physical Journal C</i> , 2020 , 80, 534 | 4.2 | 6 |
| 452 | Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $(\sqrt{s}) = 13$ TeV and constraints on anomalous quartic couplings. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 7 |
| 451 | Determination of the strong coupling constant $\alpha_S(m_Z)$ from measurements of inclusive $W\bar{W}$ and Z boson production cross sections in proton-proton collisions at $(\sqrt{s}) = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 2 |
| 450 | Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 3 |
| 449 | Measurement of electroweak production of a boson in association with two jets in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 43 | 4.2 | 6 |
| 448 | Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 1 |
| 447 | Evidence for $(\text{W})\text{W}$ production from double-parton interactions in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 4 |
| 446 | Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 75 | 4.2 | 24 |
| 445 | Searches for physics beyond the standard model with the variable in hadronic final states with and without disappearing tracks in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 3 | 4.2 | 16 |
| 444 | Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. <i>European Physical Journal C</i> , 2020 , 80, 4 | 4.2 | 61 |
| 443 | Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\mu\bar{\mu}$ and $e\bar{e}$ in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 6 |
| 442 | A search for the standard model Higgs boson decaying to charm quarks. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 9 |
| 441 | Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 11 |

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| 440 | Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 7 |
| 439 | A multi-dimensional search for new heavy resonances decaying to boosted γ , W , or boson pairs in the dijet final state at $13\sqrt{s}$. <i>European Physical Journal C</i> , 2020 , 80, 237 | 4.2 | 10 |
| 438 | 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> , 2020 , 80, 1 | 4.2 | 8 |
| 437 | Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s}=13$ TeV with the CMS and TOTEM experiments. <i>European Physical Journal C</i> , 2020 , 80, 1164 | 4.2 | 0 |
| 436 | Measurement of differential cross sections and charge ratios for s -channel single top quark production in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2020 , 80, 370 | 4.2 | 4 |
| 435 | Measurement of $(t\bar{t})$ normalised multi-differential cross sections in (pp) collisions at $(\sqrt{s}=13, \text{TeV})$, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 13 |
| 434 | Search for a scalar partner of the top quark in the all-hadronic $(t\bar{t})$ plus missing transverse momentum final state at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 17 |
| 433 | Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 4 |
| 432 | Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 16 |
| 431 | Dependence of inclusive jet production on the anti- k_T distance parameter in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 3 |
| 430 | Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 1 |
| 429 | Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 8 |
| 428 | The production of isolated photons in PbPb and pp collisions at $(\sqrt{s_{NN}}) = 5.02$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 2 |
| 427 | Investigation into the event-activity dependence of (η) relative production in proton-proton collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 3 |
| 426 | Bose-Einstein correlations of charged hadrons in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 2 |
| 425 | A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. <i>Computing and Software for Big Science</i> , 2020 , 4, 10 | 6 | 3 |
| 424 | Search for electroweak production of a vector-like T quark using fully hadronic final states. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 8 |
| 423 | Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 5 |

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| 422 | Measurement of properties of $(\mathrm{B})_{\mathrm{s}}^0$ - B_s^0 decays and search for B_s^0 with the CMS experiment. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5-4 | 10 |
| 421 | Search for a light pseudoscalar Higgs boson in the boosted final state in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5-4 | 9 |
| 420 | Performance of the ATLAS muon triggers in Run 2. <i>Journal of Instrumentation</i> , 2020 , 15, P09015-P09015 | 1 | 13 |
| 419 | Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , 2020 , 15, P02027-P02027 | 1 | 11 |
| 418 | Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5-4 | 5 |
| 417 | Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5-4 | 4 |
| 416 | Measurement of the cross section for $(\overline{\mathrm{t}}\mathrm{t})$ production with additional jets and b jets in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5-4 | 1 |
| 415 | Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5-4 | 13 |
| 414 | Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5-4 | 18 |
| 413 | Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , 2020 , 15, P05002-P05002 | 1 | |
| 412 | Study of central exclusive production in proton-proton collisions at and 13TeV. <i>European Physical Journal C</i> , 2020 , 80, 718 | 4-2 | 2 |
| 411 | Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 752 | 4-2 | 2 |
| 410 | Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5-4 | 8 |
| 409 | Measurement of the top quark pair production cross section in dilepton final states containing one lepton in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5-4 | 0 |
| 408 | Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in collisions at. <i>European Physical Journal C</i> , 2019 , 79, 773 | 4-2 | 0 |
| 407 | Search for charged Higgs bosons in the $\mathrm{H}_\mathrm{A} \rightarrow \mathrm{B}_\mathrm{s}^0$ decay channel in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5-4 | 24 |
| 406 | Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 305 | 4-2 | 2 |
| 405 | Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5-4 | 8 |

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| 404 | Search for a low-mass χ resonance in association with a bottom quark in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 4 |
| 403 | Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $(\sqrt{s}) = 13$ TeV via Higgs boson decays to leptons. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 3 |
| 402 | Search for the pair production of light top squarks in the $e\mu$ final state in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 4 |
| 401 | Combined measurements of Higgs boson couplings in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 421 | 4.2 | 153 |
| 400 | Search for supersymmetry in events with a photon, jets, $\bar{\nu}$ jets, and missing transverse momentum in proton-proton collisions at 13. <i>European Physical Journal C</i> , 2019 , 79, 444 | 4.2 | 1 |
| 399 | Measurements of the $pp \rightarrow WZ$ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 10 |
| 398 | Measurement of the production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. <i>European Physical Journal C</i> , 2019 , 79, 368 | 4.2 | 27 |
| 397 | Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $(\sqrt{s}=13, \text{TeV})$. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 7 |
| 396 | Search for nonresonant Higgs boson pair production in the $(\overline{\text{b}}\overline{\text{b}})$ final state at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 4 |
| 395 | Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 280 | 4.2 | 12 |
| 394 | Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 8 |
| 393 | Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 364 | 4.2 | 18 |
| 392 | Search for single production of vector-like quarks decaying to a top quark and a boson in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 90 | 4.2 | 6 |
| 391 | Study of the underlying event in top quark pair production in collisions at 13. <i>European Physical Journal C</i> , 2019 , 79, 123 | 4.2 | 4 |
| 390 | Search for rare decays of and Higgs bosons to and a photon in proton-proton collisions at $= 13$. <i>European Physical Journal C</i> , 2019 , 79, 94 | 4.2 | 7 |
| 389 | Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 9 |
| 388 | Measurements of $(\overline{\text{t}}\text{t})$ differential cross sections in proton-proton collisions at $(\sqrt{\text{mathrm{s}}}=13)$ TeV using events containing two leptons. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 15 |
| 387 | Search for $(\overline{\text{t}}\text{t})\text{H}$ production in the $(\text{H})\text{to}\overline{\text{b}}\text{b}$ decay channel with leptonic $(\overline{\text{t}}\text{t})$ decays in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 17 |

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| 386 | Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at ($\sqrt{s} = 13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 2 |
| 385 | Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 8 |
| 384 | Search for resonant ($\overline{\text{t}}\text{t}$) production in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 13 |
| 383 | Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 7 |
| 382 | Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 7 |
| 381 | Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 14 |
| 380 | Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 20 | 4.2 | 4 |
| 379 | Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two leptons and two jets in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 18 |
| 378 | Search for a W' boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 4 |
| 377 | Search for top quark partners with charge 5/3 in the same-sign dilepton and single-lepton final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 9 |
| 376 | Inclusive search for supersymmetry in pp collisions at ($\sqrt{s}=13$) TeV using razor variables and boosted object identification in zero and one lepton final states. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 2 |
| 375 | Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 8 |
| 374 | Search for excited leptons in final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 2 |
| 373 | Search for new particles decaying to a jet and an emerging jet. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 15 |
| 372 | Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at ($\sqrt{s} = 13, \text{TeV}$). <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 6 |
| 371 | Measurement of exclusive \bar{p} photoproduction in ultraperipheral pPb collisions at. <i>European Physical Journal C</i> , 2019 , 79, 702 | 4.2 | 13 |
| 370 | Measurement of exclusive photoproduction from protons in Pb collisions at. <i>European Physical Journal C</i> , 2019 , 79, 277 | 4.2 | 19 |
| 369 | Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at. <i>European Physical Journal C</i> , 2019 , 79, 564 | 4.2 | 20 |

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| 368 | Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5-4 | 5 |
| 367 | Measurement of the top quark mass in the all-jets final state at and combination with the lepton+jets channel. <i>European Physical Journal C</i> , 2019 , 79, 313 | 4-2 | 13 |
| 366 | Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5-4 | 7 |
| 365 | Search for supersymmetry using Higgs boson to diphoton decays at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5-4 | 2 |
| 364 | Measurements of differential Z boson production cross sections in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5-4 | 11 |
| 363 | Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5-4 | 9 |
| 362 | Study of the $(\mathbf{B}^+ \rightarrow \mathbf{J}/\psi \overline{\Lambda} \mathbf{p})$ decay in proton-proton collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5-4 | 1 |
| 361 | Search for resonances decaying to a pair of Higgs bosons in the $\mathbf{b}(\overline{\mathbf{q}})\mathbf{q}(\overline{\mathbf{q}})$ final state in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5-4 | 5 |
| 360 | Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in collisions at. <i>European Physical Journal C</i> , 2019 , 79, 969 | 4-2 | 1 |
| 359 | Measurement of the differential Drell-Yan cross section in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5-4 | 6 |
| 358 | Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5-4 | 2 |
| 357 | Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 893 | 4-2 | 6 |
| 356 | Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5-4 | 21 |
| 355 | Search for new physics in top quark production in dilepton final states in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 886 | 4-2 | 6 |
| 354 | Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at. <i>European Physical Journal C</i> , 2018 , 78, 242 | 4-2 | 4 |
| 353 | Pseudorapidity distributions of charged hadrons in proton-lead collisions at $(\sqrt{s_{\mathbf{NN}}}) = 5.02$ and 8.16 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 4 |
| 352 | Search for resonant and nonresonant Higgs boson pair production in the $(\mathbf{b}\overline{\mathbf{b}}\mathit{\ell}\mathit{\nu}\mathit{\ell}\mathit{\nu})$ final state in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 19 |
| 351 | Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$. <i>European Physical Journal C</i> , 2018 , 78, 291 | 4-2 | 17 |

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| 350 | Measurements of the production cross section and the branching fraction, and constraints on anomalous triple gauge couplings at. <i>European Physical Journal C</i> , 2018 , 78, 165 | 4.2 | 29 |
| 349 | Measurement of associated Z + charm production in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 287 | 4.2 | 11 |
| 348 | Measurement of the inclusive ($\overline{\text{t}}$) cross section in pp collisions at ($\sqrt{s}=5.02$) TeV using final states with at least one charged lepton. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 3 |
| 347 | Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | |
| 346 | Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 2 |
| 345 | Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 4 |
| 344 | Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 45 |
| 343 | Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 40 |
| 342 | Measurement of differential cross sections in the kinematic angular variable ϕ^* for inclusive Z boson production in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 2 |
| 341 | Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at ($\sqrt{s_{\text{NN}}}=5.02$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 8 |
| 340 | Measurement of normalized differential ($\overline{\text{t}}$) cross sections in the dilepton channel from pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 12 |
| 339 | Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 13 |
| 338 | Search for ZZ resonances in the $2\mu\mu$ final state in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 3 |
| 337 | Jet properties in PbPb and pp collisions at ($\sqrt{s_{\text{NN}}}=5.02$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 7 |
| 336 | Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 22 |
| 335 | Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 140 | 4.2 | 20 |
| 334 | Measurement of b hadron lifetimes in pp collisions at. <i>European Physical Journal C</i> , 2018 , 78, 457 | 4.2 | 9 |
| 333 | Measurements of the ($\text{p}\rightarrow\text{Z}\text{p}$) production cross section and the ($\text{Z}\rightarrow 4\ell$) branching fraction, and constraints on anomalous triple gauge couplings at ($\sqrt{s}=13$,text {TeV}) 2018 , 78, 1 | | 3 |

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| 332 | Measurement of b hadron lifetimes in pp collisions at ($\sqrt{s} = 8$) (TeV) 2018 , 78, 1 | | 1 |
| 331 | Search for ($\overline{\text{t}}\text{H}$) production in the all-jet final state in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 13 |
| 330 | Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at ($\sqrt{s}=8$) and 13 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 7 |
| 329 | Measurement of the groomed jet mass in PbPb and pp collisions at ($\sqrt{s_{\text{NN}}}=5.02$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 5 |
| 328 | Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 7 |
| 327 | Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 14 |
| 326 | Search for natural and split supersymmetry in proton-proton collisions at ($\sqrt{s}=13$) TeV in final states with jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 39 |
| 325 | Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 6 |
| 324 | Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two τ leptons in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 14 |
| 323 | Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 16 |
| 322 | Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 6 |
| 321 | Charged-particle nuclear modification factors in XeXe collisions at ($\sqrt{s_{\text{NN}}}=5.44$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 11 |
| 320 | Measurement of the top quark mass with lepton+jets final states using collisions at. <i>European Physical Journal C</i> , 2018 , 78, 891 | 4-2 | 13 |
| 319 | Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 14 |
| 318 | Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 37 |
| 317 | Event shape variables measured using multijet final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 3 |
| 316 | Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 12 |
| 315 | Search for narrow and broad dijet resonances in proton-proton collisions at ($\sqrt{s}=13$) TeV and constraints on dark matter mediators and other new particles. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 50 |

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| 314 | Search for $Z\bar{\nu}$ resonances using leptonic and hadronic final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 11 |
| 313 | Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 5 |
| 312 | Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 9 |
| 311 | Search for supersymmetry in events with a μ lepton pair and missing transverse momentum in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 14 |
| 310 | Search for the decay of a Higgs boson in the $\mu\tau$ channel in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 11 |
| 309 | Search for third-generation scalar leptoquarks decaying to a top quark and a lepton at. <i>European Physical Journal C</i> , 2018 , 78, 707 | 4-2 | 23 |
| 308 | Measurement of differential cross sections for boson production in association with jets in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 965 | 4-2 | 19 |
| 307 | Studies of η and mesons including the observation of the decay in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 939 | 4-2 | 12 |
| 306 | Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2\bar{q}q$ final states at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 7 |
| 305 | Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 697 | 4-2 | 9 |
| 304 | Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\tau$ final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 3 |
| 303 | Search for new physics in dijet angular distributions using proton-proton collisions at and constraints on dark matter and other models. <i>European Physical Journal C</i> , 2018 , 78, 789 | 4-2 | 19 |
| 302 | Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at ($\sqrt{s}=13$) TeV. <i>European Physical Journal C</i> , 2018 , 78, 1 | 4-2 | 4 |
| 301 | Search for high-mass resonances in final states with a lepton and missing transverse momentum at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 15 |
| 300 | Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 8 |
| 299 | Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 10 |
| 298 | Measurement of the cross section in pp collisions at and validation of lepton analysis techniques. <i>European Physical Journal C</i> , 2018 , 78, 708 | 4-2 | 5 |
| 297 | Search for vector-like T and B quark pairs in final states with leptons at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 29 |

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| 296 | Search for dark matter produced in association with a Higgs boson decaying to $\tau\tau$ ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 7 |
| 295 | Search for additional neutral MSSM Higgs bosons in the $\tau\tau$ final state in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 42 |
| 294 | Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 7 |
| 293 | Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 20 |
| 292 | Search for a heavy resonance decaying into a Z boson and a vector boson in the ($\nu\bar{\nu}$) final state. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 6 |
| 291 | Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 18 |
| 290 | Search for beyond the standard model Higgs bosons decaying into a ($b\bar{b}$) pair in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 11 |
| 289 | Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in collisions at 8. <i>European Physical Journal C</i> , 2018 , 78, 701 | 4-2 | 25 |
| 288 | Measurement of prompt and nonprompt charmonium suppression in collisions at 5.02. <i>European Physical Journal C</i> , 2018 , 78, 509 | 4-2 | 37 |
| 287 | Search for lepton flavour violating decays of the Higgs boson to $\tau\mu$ and $e\mu$ in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 19 |
| 286 | Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying τ leptons at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 23 |
| 285 | Electroweak production of two jets in association with a Z boson in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>European Physical Journal C</i> , 2018 , 78, 1 | 4-2 | 12 |
| 284 | Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 14 |
| 283 | Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 16 |
| 282 | Search for single production of vector-like quarks decaying to a b quark and a Higgs boson. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 12 |
| 281 | Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 20 |
| 280 | Search for a singly produced third-generation scalar leptoquark decaying to a τ lepton and a bottom quark in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 9 |
| 279 | Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 10 |

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| 278 | Measurement of the inelastic proton-proton cross section at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 41 |
| 277 | Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 24 |
| 276 | Search for high-mass resonances in dilepton final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 63 |
| 275 | Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 28 |
| 274 | Measurements of the [Formula: see text] production cross section in lepton+jets final states in pp collisions at 8 [Formula: see text] and ratio of 8 to 7 [Formula: see text] cross sections. <i>European Physical Journal C</i> , 2017 , 77, 15 | 4-2 | 19 |
| 273 | Measurement of the [Formula: see text] production cross section using events in the [Formula: see text] final state in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 172 | 4-2 | 22 |
| 272 | Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at ($\sqrt{s}=8$) TeV and cross section ratios to 2.76 and 7 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 34 |
| 271 | Search for electroweak production of charginos in final states with two leptons in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 7 |
| 270 | Measurement of the production cross section of a W boson in association with two b jets in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 92 | 4-2 | 7 |
| 269 | Measurement of the WZ production cross section in pp collisions at [Formula: see text] and 8 [Formula: see text] and search for anomalous triple gauge couplings at [Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 236 | 4-2 | 21 |
| 268 | Measurement of prompt and nonprompt [Formula: see text] production in [Formula: see text] and [Formula: see text] collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 269 | 4-2 | 26 |
| 267 | A search for new phenomena in pp collisions at [Formula: see text] in final states with missing transverse momentum and at least one jet using the [Formula: see text] variable. <i>European Physical Journal C</i> , 2017 , 77, 294 | 4-2 | 21 |
| 266 | Search for new physics in the monophoton final state in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 11 |
| 265 | Measurement of double-differential cross sections for top quark pair production in pp collisions at [Formula: see text][Formula: see text] and impact on parton distribution functions. <i>European Physical Journal C</i> , 2017 , 77, 459 | 4-2 | 16 |
| 264 | Measurement of the jet mass in highly boosted [Formula: see text] events from pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 467 | 4-2 | 14 |
| 263 | Measurements of the associated production of a Z boson and b jets in pp collisions at. <i>European Physical Journal C</i> , 2017 , 77, 751 | 4-2 | 15 |
| 262 | Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at ($\sqrt{s}=8$) TeV using H \rightarrow WW decays. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 10 |
| 261 | Charged-particle nuclear modification factors in PbPb and pPb collisions at ($\sqrt{s_{\mathrm{N};\mathrm{N}}}=5.02$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 64 |

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| 260 | Search for ($\overline{\text{t}}\text{t}$) resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 17 |
| 259 | Search for associated production of dark matter with a Higgs boson decaying to ($\overline{\text{b}}\text{b}$) or $\overline{\text{t}}\text{t}$ ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 9 |
| 258 | Observation of Y(1S) pair production in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 29 |
| 257 | Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 26 |
| 256 | Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 8 |
| 255 | Measurement of the semileptonic ($\overline{\text{t}}\text{t}$) + $\overline{\text{b}}\text{b}$ production cross section in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 7 |
| 254 | Measurements of the pp $\rightarrow \text{W}\overline{\text{b}}$ and pp $\rightarrow \text{Z}\overline{\text{t}}$ cross sections and limits on anomalous quartic gauge couplings at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 2 |
| 253 | Search for new phenomena with the variable in the all-hadronic final state produced in proton-proton collisions at. <i>European Physical Journal C</i> , 2017 , 77, 710 | 4-2 | 54 |
| 252 | Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 11 |
| 251 | Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 19 |
| 250 | Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 9 |
| 249 | Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 15 |
| 248 | Suppression and azimuthal anisotropy of prompt and nonprompt [Formula: see text] production in PbPb collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 252 | 4-2 | 58 |
| 247 | Searches for pair production of third-generation squarks in [Formula: see text][Formula: see text] pp collisions. <i>European Physical Journal C</i> , 2017 , 77, 327 | 4-2 | 17 |
| 246 | Measurement of the top quark mass using single top quark events in proton-proton collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , 2017 , 77, 354 | 4-2 | 8 |
| 245 | Searches for invisible decays of the Higgs boson in pp collisions at (\sqrt{s}) = 7, 8, and 13 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 74 |
| 244 | Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 19 |
| 243 | Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at. <i>European Physical Journal C</i> , 2017 , 77, 845 | 4-2 | 22 |

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| 242 | Measurement of electroweak-induced production of $W\bar{W}$ with two jets in pp collisions at $(\sqrt{s}=8)$ TeV and constraints on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 9 |
| 241 | Searches for $W\bar{W}$ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 7 |
| 240 | Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 5 |
| 239 | Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 18 |
| 238 | Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 11 |
| 237 | Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 20 |
| 236 | Search for top squark pair production in pp collisions at $(\sqrt{s}=13)$ TeV using single lepton events. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 25 |
| 235 | Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 12 |
| 234 | Measurement of the $(\overline{\text{t}}\text{t})$ production cross section using events with one lepton and at least one jet in pp collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 14 |
| 233 | Search for a heavy resonance decaying to a top quark and a vector-like top quark at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 4 |
| 232 | Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at. <i>European Physical Journal C</i> , 2017 , 77, 578 | 4.2 | 21 |
| 231 | Search for top quark partners with charge 5/3 in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 3 |
| 230 | Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 21 |
| 229 | Measurements of jet charge with dijet events in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 10 |
| 228 | Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 10 |
| 227 | Search for new physics with dijet angular distributions in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 11 |
| 226 | Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 46 |
| 225 | Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 35 |

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| 224 | Search for new phenomena with multiple charged leptons in proton-proton collisions at ($\sqrt{s}=13$) (,text {TeV}). <i>European Physical Journal C</i> , 2017 , 77, 1 | 4.2 | 2 |
| 223 | Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at. <i>European Physical Journal C</i> , 2017 , 77, 636 | 4.2 | 20 |
| 222 | Search for high-mass Z resonances in $e+e$ and $\mu+\mu$ final states in proton-proton collisions at ($\sqrt{s}=8$) and 13 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 4 |
| 221 | Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying leptons and two jets in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 18 |
| 220 | Search for CP violation in (\overline{t}) production and decay in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 4 |
| 219 | Measurement of the triple-differential dijet cross section in proton-proton collisions at and constraints on parton distribution functions. <i>European Physical Journal C</i> , 2017 , 77, 746 | 4.2 | 8 |
| 218 | Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 7 |
| 217 | Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 10 |
| 216 | Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 77 |
| 215 | Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 16 |
| 214 | Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 325 | 4.2 | 13 |
| 213 | Search for new physics in same-sign dilepton events in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 439 | 4.2 | 34 |
| 212 | Measurement of dijet azimuthal decorrelation in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 536 | 4.2 | 6 |
| 211 | Search for dark matter particles in proton-proton collisions at ($\sqrt{s}=8$) TeV using the razor variables. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 2 |
| 210 | Search for s channel single top quark production in pp collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 8 |
| 209 | Measurement of inclusive jet production and nuclear modifications in pPb collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 372 | 4.2 | 24 |
| 208 | Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 15 |
| 207 | Measurement of the (\overline{t}) production cross section in the $e\mu$ channel in proton-proton collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 30 |

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| 206 | Search for new physics with the M_{T2} variable in all-jets final states produced in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5-4 | 16 |
| 205 | Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5-4 | 9 |
| 204 | Evidence for exclusive $\bar{D}^*W + W \bar{D}$ production and constraints on anomalous quartic gauge couplings in pp collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5-4 | 27 |
| 203 | Search for supersymmetry in pp collisions at ($\sqrt{s}=13$) TeV in the single-lepton final state using the sum of masses of large-radius jets. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5-4 | 7 |
| 202 | Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 460 | 4-2 | 14 |
| 201 | Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5-4 | 9 |
| 200 | Phenomenological MSSM interpretation of CMS searches in pp collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5-4 | 11 |
| 199 | Measurement of the mass of the top quark in decays with a J/ψ meson in pp collisions at 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5-4 | 5 |
| 198 | Measurement of the inclusive jet cross section in pp collisions at ($\sqrt{s} = 2.76, \text{text \{TeV\}}$). <i>European Physical Journal C</i> , 2016 , 76, 1 | 4-2 | 17 |
| 197 | Measurement of [Formula: see text] production with additional jet activity, including [Formula: see text] quark jets, in the dilepton decay channel using pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 379 | 4-2 | 20 |
| 196 | Measurement of the differential cross section and charge asymmetry for inclusive [Formula: see text] production at [Formula: see text] TeV. <i>European Physical Journal C</i> , 2016 , 76, 469 | 4-2 | 37 |
| 195 | Observation of top quark pairs produced in association with a vector boson in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5-4 | 18 |
| 194 | Search for $W^? \rightarrow \bar{b}$ in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5-4 | 2 |
| 193 | Correlations between jets and charged particles in PbPb and pp collisions at ($\sqrt{s_{\text{NN}}}=2.76$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5-4 | 21 |
| 192 | Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5-4 | 2 |
| 191 | Search for excited leptons in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5-4 | 10 |
| 190 | Measurement of the [Formula: see text] production cross section in the all-jets final state in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 128 | 4-2 | 21 |
| 189 | Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , 2016 , 76, 155 | 4-2 | 250 |

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| 188 | Search for massive WH resonances decaying into the [Formula: see text] final state at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 237 | 4.2 | 19 |
| 187 | Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 14 |
| 186 | Measurement of top quark polarisation in t-channel single top quark production. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 7 |
| 185 | Search for heavy Majorana neutrinos in $e\bar{e}\mu\mu$ jets and $e\bar{e}\tau\tau$ jets events in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 28 |
| 184 | Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\tau\tau$ leptons in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 16 |
| 183 | Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 13 | 4.2 | 35 |
| 182 | Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 7 |
| 181 | Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at ($\sqrt{s_{\mathrm{NN}}}=2.76$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 13 |
| 180 | Measurement of the double-differential inclusive jet cross section in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 451 | 4.2 | 36 |
| 179 | Measurement of the [Formula: see text] cross section in pp collisions at [Formula: see text] TeV and limits on anomalous gauge couplings. <i>European Physical Journal C</i> , 2016 , 76, 401 | 4.2 | 38 |
| 178 | Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. <i>European Physical Journal C</i> , 2016 , 76, 371 | 4.2 | 25 |
| 177 | Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 14 |
| 176 | Search for lepton flavour violating decays of heavy resonances and quantum black holes to an [Formula: see text] pair in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 317 | 4.2 | 9 |
| 175 | Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 4 |
| 174 | Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at ($\sqrt{s_{\mathrm{NN}}}=2.76$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 21 |
| 173 | Search for anomalous single top quark production in association with a photon in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 20 |
| 172 | Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 6 |
| 171 | Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 10 |

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| 169 | Jet energy measurement and its systematic uncertainty in proton-proton collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 17 | 4.2 | 194 |
| 168 | Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 66 | 4.2 | 21 |
| 167 | Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 147 | 4.2 | 50 |
| 166 | Search for decays of stopped long-lived particles produced in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 151 | 4.2 | 33 |
| 165 | Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5.4 | 19 |
| 164 | Measurement of the ratio of the production cross sections times branching fractions of $B \rightarrow \mu^+ \mu^-$ and $B \rightarrow \mu^+ \mu^- \mu^+ \mu^-$ and $(\text{mathcal{B}}\{\text{B}\}\{\text{c}\}^{\text{pm}}\text{to}\text{mathcal{J}}\{\text{psi}\}\{\text{pi}\}^{\text{pm}}\{\text{pi}\}^{\text{mp}}\text{right})/\text{mathcal{B}}\{\text{B}\}\{\text{c}\}^{\text{pm}}\text{to}\text{mathcal{J}}\{\text{psi}\}\{\text{pi}\}^{\text{pm}}\text{right})$ in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5.4 | 13 |
| 163 | Search for disappearing tracks in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5.4 | 35 |
| 162 | Study of Z production in PbPb and pp collisions at ($\sqrt{s_{\text{NN}}}=2.76$) TeV in the dimuon and dielectron decay channels. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5.4 | 18 |
| 161 | Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5.4 | 69 |
| 160 | Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at ($\sqrt{s}=2.76$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5.4 | 6 |
| 159 | Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 235 | 4.2 | 250 |
| 158 | Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 288 | 4.2 | 37 |
| 157 | Distributions of topological observables in inclusive three- and four-jet events in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 302 | 4.2 | 4 |
| 156 | Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 325 | 4.2 | 24 |
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| 154 | Search for third-generation scalar leptoquarks in the $t\bar{t}$ channel in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5.4 | 19 |
| 153 | Searches for supersymmetry using the M_{T2} variable in hadronic events produced in pp collisions at 8 TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5.4 | 26 |

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| 152 | Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5-4 | 33 |
| 151 | Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5-4 | 17 |
| 150 | Search for a charged Higgs boson in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5-4 | 61 |
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| 147 | Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5-4 | 16 |
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| 144 | Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 212 | 4-2 | 399 |
| 143 | Measurement of the $Z\overline{\text{t}}$ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5-4 | 7 |
| 142 | Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. <i>European Physical Journal C</i> , 2015 , 75, 186 | 4-2 | 41 |
| 141 | Measurement of the differential cross section for top quark pair production in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 542 | 4-2 | 98 |
| 140 | Measurements of the [Formula: see text][Formula: see text] production cross sections in the [Formula: see text] channel in proton-proton collisions at [Formula: see text] and [Formula: see text] and combined constraints on triple gauge couplings. <i>European Physical Journal C</i> , 2015 , 75, 511 | 4-2 | 25 |
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| 137 | Measurement of the top quark pair production charge asymmetry in proton-proton collisions at ($\sqrt{s}=7$) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5-4 | 24 |
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| 132 | Measurement of jet multiplicity distributions in [Formula: see text] production in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2014 , 74, 3014 | 4.2 | 11 |
| 131 | Light-quark and gluon jet discrimination in [Formula: see text] collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 3023 | 4.2 | 46 |
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| 128 | Measurement of the production cross section of prompt J/ψ mesons in association with a W boson in pp collisions at $(\sqrt{s}) = 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 24 |
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| 126 | Measurement of dijet cross-sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 17 |
| 125 | Measurement of the production of a W boson in association with a charm quark in pp collisions at $(\sqrt{s}) = 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 37 |
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| 123 | Evidence for the 125 GeV Higgs boson decaying to a pair of leptons. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 101 |
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| 119 | Search for direct top-squark pair production in final states with two leptons in pp collisions at $(\sqrt{s}) = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 52 |
| 118 | Measurement of τ_1 and τ_2 production with $(\sqrt{s}) = 7$ TeV pp collisions at ATLAS. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 26 |
| 117 | Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 74 |

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| 116 | Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5-4 | 59 |
| 115 | Search for direct top squark pair production in events with a [Formula: see text] boson, [Formula: see text]-jets and missing transverse momentum in [Formula: see text] TeV [Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 2883 | 4-2 | 41 |
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| 113 | Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2014 , 74, 3060 | 4-2 | 29 |
| 112 | Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5-4 | 70 |
| 111 | Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. <i>European Physical Journal C</i> , 2014 , 74, 3036 | 4-2 | 183 |
| 110 | Measurement of prompt J/ψ pair production in pp collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5-4 | 41 |
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| 102 | Study of hadronic event-shape variables in multijet final states in pp collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5-4 | 3 |
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| 100 | Identification techniques for highly boosted W bosons that decay into hadrons. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5-4 | 32 |
| 99 | Search for the associated production of the Higgs boson with a top-quark pair 2014 , 2014, 1 | | 6 |

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| 97 | Measurement of the cross-section for W boson production in association with b-jets in pp collisions at ($\sqrt{s}=7$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5-4 | 34 |
| 96 | Search for third generation scalar leptoquarks in pp collisions at ($\sqrt{s}=7$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5-4 | 30 |
| 95 | Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5-4 | 124 |
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| 91 | Measurement of splitting scales in τ -events at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2432 | 4-2 | 8 |
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| 61 | Measurement of the charge asymmetry in top quark pair production in collisions at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 2039 | 4.2 | 78 |
| 60 | Search for lepton flavour violation in the continuum with the ATLAS detector in [Formula: see text] collisions at the LHC. <i>European Physical Journal C</i> , 2012 , 72, 2040 | 4.2 | 10 |
| 59 | Measurement of the top quark mass with the template method in the [Formula: see text] channel using ATLAS data. <i>European Physical Journal C</i> , 2012 , 72, 2046 | 4.2 | 42 |
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| 55 | Jet mass and substructure of inclusive jets in ($\sqrt{s} = 7$ TeV) pp collisions with the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 67 |
| 54 | Measurement of inclusive two-particle angular correlations in pp collisions with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 10 |
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| 50 | A search for flavour changing neutral currents in top-quark decays in pp collision data collected with the ATLAS detector at ($\sqrt{s}=7$ TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 31 |
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| 48 | Search for a heavy top-quark partner in final states with two leptons with the ATLAS detector at the LHC. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 53 |
| 47 | Search for anomalous production of prompt like-sign lepton pairs at ($\sqrt{s}=7$ TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 16 |
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| 42 | Search for anomaly-mediated supersymmetry breaking with the ATLAS detector based on a disappearing-track signature in pp collisions at ($\sqrt{s} = 7$ mTeX{TeV}). <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 13 |
| 41 | Measurement of [Formula: see text] production with a veto on additional central jet activity in collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 2043 | 4.2 | 82 |
| 40 | A search for [Formula: see text] resonances with the ATLAS detector in 2.05 fb of proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2012 , 72, 2083 | 4.2 | 14 |
| 39 | Search for second generation scalar leptoquarks in pp collisions at ($\sqrt{s}=7$ mbox{TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 35 |
| 38 | Search for a fermiophobic Higgs boson in the diphoton decay channel with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 13 |
| 37 | Measurement of $W \mp Z$ production in proton-proton collisions at ($\sqrt{s}=7$ mbox{TeV}) with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 54 |
| 36 | Search for top and bottom squarks from gluino pair production in final states with missing transverse energy and at least three b-jets with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 24 |
| 35 | Measurement of event shapes at large momentum transfer with the ATLAS detector in pp collisions at ($\sqrt{\mathbf{s}}=7$ mTeX{TeV}). <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 18 |
| 34 | Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 7 TeV proton-proton collision data with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 11 |
| 33 | Search for light scalar top-quark pair production in final states with two leptons with the ATLAS detector in ($\sqrt{s}=7$ mTeX{TeV}) proton-proton collisions. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 31 |
| 32 | ATLAS search for a heavy gauge boson decaying to a charged lepton and a neutrino in pp collisions at ($\sqrt{s} = 7$ mTeX{TeV}). <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 34 |
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| 30 | Performance of missing transverse momentum reconstruction in proton-proton collisions at ($\sqrt{s} = 7$ mbox{TeV}) with ATLAS. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 217 |
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| 28 | Search for same-sign top-quark production and fourth-generation down-type quarks in pp collisions at ($\sqrt{s} = 7$ mTeX{TeV}) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 34 |
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| 25 | Forward-backward correlations and charged-particle azimuthal distributions in pp interactions using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 23 |
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| 23 | Measurement of the top quark-pair production cross section with ATLAS in pp collisions at ($\sqrt{s}=7$) TeV. <i>European Physical Journal C</i> , 2011 , 71, 1 | 4.2 | 138 |
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| 17 | Limits on the production of the standard model Higgs boson in pp collisions at ($\sqrt{s} = 7$) TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1 | 4.2 | 37 |
| 16 | Search for diphoton events with large missing transverse energy with 36 pb ⁻¹ of 7 TeV proton-proton collision data with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1 | 4.2 | 15 |
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