

# Lesya Shchutska

## List of Publications by Citations

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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.

605  
papers

18,535  
citations

62  
h-index

106  
g-index

627  
ext. papers

21,841  
ext. citations

4.9  
avg, IF

5.55  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 605 | Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , <b>2015</b> , 114, 191803   | 7.4  | 709       |
| 604 | 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 TeV. <i>European Physical Journal C</i> , <b>2015</b> , 75, 212                  | 4.2  | 399       |
| 603 | A facility to search for hidden particles at the CERN SPS: the SHiP physics case. <i>Reports on Progress in Physics</i> , <b>2016</b> , 79, 124201   | 14.4 | 373       |
| 602 | Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at $\sqrt{s}=7$ and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1 | 5.4  | 364       |
| 601 | Performance of electron reconstruction and selection with the CMS detector in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Journal of Instrumentation</i> , <b>2015</b> , 10, P06005-P06005  | 1    | 357       |
| 600 | Observation of the rare $B(s)(0) \rightarrow \mu^+\mu^-$ decay from the combined analysis of CMS and LHCb data. <i>Nature</i> , <b>2015</b> , 522, 68-72   | 50.4 | 326       |
| 599 | Description and performance of track and primary-vertex reconstruction with the CMS tracker. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, P10009-P10009  | 1    | 279       |
| 598 | Measurement of the properties of a Higgs boson in the four-lepton final state. <i>Physical Review D</i> , <b>2014</b> , 89,  | 4.9  | 260       |
| 597 | Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s}=7$ and 8 TeV. <i>European Physical Journal C</i> , <b>2015</b> , 75, 235  | 4.2  | 250       |
| 596 | Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , <b>2016</b> , 76, 155   | 4.2  | 250       |
| 595 | Observation of the diphoton decay of the Higgs boson and measurement of its properties. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3076  | 4.2  | 239       |
| 594 | Particle-flow reconstruction and global event description with the CMS detector. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P10003-P10003   | 1    | 234       |
| 593 | The CMS trigger system. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P01020-P01020  | 1    | 210       |
| 592 | 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> , <b>2014</b> , 74, 3036  | 4.2  | 183       |
| 591 | Search for lepton-flavour-violating decays of the Higgs boson. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 749, 337-362  | 4.2  | 175       |
| 590 | Evidence for collectivity in pp collisions at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 765, 193-220  | 4.2  | 171       |
| 589 | Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=7$ and 8 TeV. <i>European Physical Journal C</i> , <b>2019</b> , 79, 421   | 4.2  | 153       |

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| 588 | Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,  | 4.9 | 152 |
| 587 | Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV. <i>Journal of Instrumentation</i> , <b>2018</b> , 13, P05011-P05011  | 1   | 152 |
| 586 | Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P02014-P02014  | 1   | 149 |
| 585 | Search for heavy neutrinos and [Formula: see text] bosons with right-handed couplings in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3149                           | 4.2 | 149 |
| 584 | Evidence for Collective Multiparticle Correlations in p-Pb Collisions. <i>Physical Review Letters</i> , <b>2015</b> , 115, 012301   | 7.4 | 145 |
| 583 | Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 144 |
| 582 | Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV. <i>Physical Review D</i> , <b>2015</b> , 92,   | 4.9 | 142 |
| 581 | Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Journal of Instrumentation</i> , <b>2015</b> , 10, P08010-P08010                              | 1   | 141 |
| 580 | Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2980  | 4.2 | 131 |
| 579 | Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 736, 64-85                   | 4.2 | 116 |
| 578 | Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 750, 494-519 | 4.2 | 113 |
| 577 | Evidence for transverse-momentum- and pseudorapidity-dependent event-plane fluctuations in PbPb and pPb collisions. <i>Physical Review C</i> , <b>2015</b> , 92,  | 2.7 | 104 |
| 576 | Inclusive search for a vector-like T quark with charge . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 729, 149-171   | 4.2 | 103 |
| 575 | Evidence for the 125 GeV Higgs boson decaying to a pair of $\tau$ leptons. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 101 |
| 574 | Measurement of the differential cross section for top quark pair production in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 542   | 4.2 | 98  |
| 573 | Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2016</b> , 116, 071801  | 7.4 | 96  |
| 572 | Measurement of Long-Range Near-Side Two-Particle Angular Correlations in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2016</b> , 116, 172302   | 7.4 | 90  |
| 571 | Measurement of jet fragmentation in PbPb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review C</i> , <b>2014</b> , 90,  | 2.7 | 89  |

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| 570 | Performance of the CMS missing transverse momentum reconstruction in pp data at $\sqrt{s} = 8$ TeV. <i>Journal of Instrumentation</i> , <b>2015</b> , 10, P02006-P02006   | 1   | 84 |
| 569 | Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,   | 4-9 | 83 |
| 568 | Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5-4 | 81 |
| 567 | Observation of the Higgs boson decay to a pair of $\tau$ leptons with the CMS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 779, 283-316  | 4-2 | 78 |
| 566 | Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 749, 560-582 | 4-2 | 78 |
| 565 | 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> , <b>2017</b> , 2017, 1  | 5-4 | 77 |
| 564 | Reconstruction and identification of $\tau$ lepton decays to hadrons and $b\bar{t}$ CMS. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, P01019-P01019  | 1   | 75 |
| 563 | Search for dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter and other models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 769, 520-542        | 4-2 | 74 |
| 562 | 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> , <b>2014</b> , 2014, 1  | 5-4 | 74 |
| 561 | 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> , <b>2017</b> , 2017, 1   | 5-4 | 74 |
| 560 | Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5-4 | 73 |
| 559 | Observation of Charge-Dependent Azimuthal Correlations in p-Pb Collisions and Its Implication for the Search for the Chiral Magnetic Effect. <i>Physical Review Letters</i> , <b>2017</b> , 118, 122301   | 7-4 | 72 |
| 558 | Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5-4 | 70 |
| 557 | 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> , <b>2015</b> , 2015, 1  | 5-4 | 69 |
| 556 | Measurement of the top quark mass using proton-proton data at $(\sqrt{s}) = 7$ and 8 TeV. <i>Physical Review D</i> , <b>2016</b> , 93,  | 4-9 | 69 |
| 555 | Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $(\sqrt{s_{\mathrm{NN}}}) = 5.02$ (,text {TeV}). <i>European Physical Journal C</i> , <b>2014</b> , 74, 1  | 4-2 | 67 |
| 554 | Search for vectorlike charge $2/3$ T quarks in proton-proton collisions at $(\sqrt{s}) = 8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,   | 4-9 | 66 |
| 553 | Charged-particle nuclear modification factors in PbPb and pPb collisions at $(\sqrt{s_{\mathrm{NN}}}) = 5.02$ (,text {TeV}). <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5-4 | 64 |

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|-----|---|-----|----|
| 552 | Long-range two-particle correlations of strange hadrons with charged particles in pPb and PbPb collisions at LHC energies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 742, 200-224 | 4.2 | 64 |
| 551 | Search for anomalous production of events with three or more leptons in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2014</b> , 90,   | 4.9 | 64 |
| 550 | Measurement of the muon charge asymmetry in inclusive pp-W+X production at $\sqrt{s}=7$ TeV and an improved determination of light parton distribution functions. <i>Physical Review D</i> , <b>2014</b> , 90,                                  | 4.9 | 63 |
| 549 | 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> , <b>2018</b> , 2018, 1  | 5.4 | 63 |
| 548 | Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,  | 4.9 | 62 |
| 547 | Study of vector boson scattering and search for new physics in events with two same-sign leptons and two jets. <i>Physical Review Letters</i> , <b>2015</b> , 114, 051801   | 7.4 | 62 |
| 546 | Observation of the associated production of a single top quark and a W boson in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2014</b> , 112, 231802   | 7.4 | 62 |
| 545 | Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 747, 98-119                  | 4.2 | 62 |
| 544 | Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV. <i>Physical Review D</i> , <b>2014</b> , 90,   | 4.9 | 62 |
| 543 | Evidence of b-jet quenching in PbPb collisions at ( $\sqrt{s_{NN}}=2.76$ ) TeV. <i>Physical Review Letters</i> , <b>2014</b> , 113, 132301  | 7.4 | 62 |
| 542 | Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. <i>European Physical Journal C</i> , <b>2020</b> , 80, 4  | 4.2 | 61 |
| 541 | Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s}=8$ and 13 TeV. <i>Physical Review Letters</i> , <b>2016</b> , 117, 051802   | 7.4 | 61 |
| 540 | Study of double parton scattering using W + 2-jet events in proton-proton collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 61 |
| 539 | Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,  | 4.9 | 61 |
| 538 | Search for a charged Higgs boson in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 61 |
| 537 | Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at ( $\sqrt{s_{NN}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 60 |
| 536 | Search for a standard model-like Higgs boson in the $\mu\mu$ and $e+e$ decay channels at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 744, 184-207                          | 4.2 | 59 |
| 535 | 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> , <b>2014</b> , 2014, 1  | 5.4 | 59 |

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|-----|--|-----|----|
| 534 | Angular analysis of the decay $B_0 \rightarrow K^* \mu^+ \mu^-$ from pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 753, 424-448                               | 4.2 | 59 |
| 533 | Coherent $J/\psi$ photoproduction in ultra-peripheral PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the CMS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 489-511            | 4.2 | 58 |
| 532 | Suppression and azimuthal anisotropy of prompt and nonprompt $[B \rightarrow K^* \mu^+ \mu^-]$ production in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>European Physical Journal C</i> , <b>2017</b> , 77, 252                                       | 4.2 | 58 |
| 531 | Search for heavy Majorana neutrinos in $\mu\mu +$ jets events in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 748, 144-166                        | 4.2 | 58 |
| 530 | Search for top-quark partners with charge 5/3 in the same-sign dilepton final state. <i>Physical Review Letters</i> , <b>2014</b> , 112, 171801  | 7.4 | 58 |
| 529 | Suppression of $\psi(1S)$ , $\psi(2S)$ , and $\psi(3S)$ quarkonium states in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 770, 357-379             | 4.2 | 57 |
| 528 | Search for Narrow Resonances in Dijet Final States at $\sqrt{s}=8$ TeV with the Novel CMS Technique of Data Scouting. <i>Physical Review Letters</i> , <b>2016</b> , 117, 031802   | 7.4 | 57 |
| 527 | Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 736, 371-397                                     | 4.2 | 57 |
| 526 | Search for pair production of third-generation scalar leptoquarks and top squarks in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 739, 229-249    | 4.2 | 56 |
| 525 | Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 767, 147-170                     | 4.2 | 55 |
| 524 | Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. <i>European Physical Journal C</i> , <b>2015</b> , 75, 251  | 4.2 | 55 |
| 523 | Search for long-lived charged particles in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2016</b> , 94,   | 4.9 | 55 |
| 522 | 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> , <b>2017</b> , 77, 710   | 4.2 | 54 |
| 521 | A search for pair production of new light bosons decaying into muons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 752, 146-168   | 4.2 | 51 |
| 520 | Search for new physics in final states with an energetic jet or a hadronically decaying W or Z boson and transverse momentum imbalance at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 97,  | 4.9 | 51 |
| 519 | Search for narrow resonances in dilepton mass spectra in proton-proton collisions at $\sqrt{s}=13$ TeV and combination with 8 TeV data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 768, 57-80 | 4.2 | 50 |
| 518 | Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV. <i>Physical Review D</i> , <b>2017</b> , 96,   | 4.9 | 50 |
| 517 | Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , <b>2015</b> , 75, 147   | 4.2 | 50 |

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| 516 | Observation of Electroweak Production of Same-Sign W Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 120, 081801  | 7.4 | 50 |
| 515 | 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> , <b>2018</b> , 2018, 1  | 5.4 | 50 |
| 514 | Measurements of tt spin correlations and top-quark polarization using dilepton final states in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2014</b> , 112, 182001   | 7.4 | 49 |
| 513 | Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 237  | 4.2 | 48 |
| 512 | Search for resonant tt production in proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,   | 4.9 | 48 |
| 511 | Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 48 |
| 510 | Search for a pseudoscalar boson decaying into a Z boson and the 125 GeV Higgs boson in $\mu\mu b\bar{b}$ final states. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 748, 221-243  | 4.2 | 48 |
| 509 | Search for new resonances decaying via WZ to leptons in proton-proton collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 740, 83-104   | 4.2 | 47 |
| 508 | Evidence for the Higgs boson decay to a bottom quark-antiquark pair. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 780, 501-532  | 4.2 | 47 |
| 507 | Searches for a heavy scalar boson H decaying to a pair of 125 GeV Higgs bosons hh or for a heavy pseudoscalar boson A decaying to Zh, in the final states with h $\rightarrow$ $\mu\mu$ <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 755, 217-244 | 4.2 | 46 |
| 506 | 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> , <b>2017</b> , 2017, 1  | 5.4 | 46 |
| 505 | Search for flavor-changing neutral currents in top-quark decays $t \rightarrow Zq$ in pp collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , <b>2014</b> , 112, 171802  | 7.4 | 46 |
| 504 | 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> , <b>2018</b> , 2018, 1  | 5.4 | 45 |
| 503 | Search for the associated production of the Higgs boson with a top-quark pair. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 45 |
| 502 | Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at 8 TeV. <i>Physical Review D</i> , <b>2016</b> , 94,  | 4.9 | 44 |
| 501 | Measurement of angular parameters from the decay $B^0 \rightarrow K^* \mu^+ \mu^-$ in proton-proton collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 781, 517-541 <sup>2</sup>   | 4.2 | 44 |
| 500 | Measurement of the ( $\overline{t}$ ) production cross section in the dilepton channel in pp collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 43 |
| 499 | Searches for heavy Higgs bosons in two-Higgs-doublet models and for t- $\rightarrow$ h decay using multilepton and diphoton final states in pp collisions at 8 TeV. <i>Physical Review D</i> , <b>2014</b> , 90,   | 4.9 | 43 |

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| 498 | Search for new phenomena in monophoton final states in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 755, 102-124   | 4.2 | 42 |
| 497 | Angular coefficients of Z bosons produced in pp collisions at $\sqrt{s}=8$ TeV and decaying to $\mu\mu$ as a function of transverse momentum and rapidity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 750, 154-175 | 4.2 | 42 |
| 496 | Search for additional neutral MSSM Higgs bosons in the $\mu\mu$ final state in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 42 |
| 495 | Measurement of $J/\psi$ and $\Upsilon(2S)$ Prompt Double-Differential Cross Sections in pp Collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2015</b> , 114, 191802   | 7.4 | 41 |
| 494 | Search for supersymmetry using razor variables in events with b-tagged jets in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,  | 4.9 | 41 |
| 493 | Measurement of the ratio $B(t \rightarrow Wb)/B(t \rightarrow Wq)$ in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 736, 33-57   | 4.2 | 41 |
| 492 | Measurement of differential cross sections for top quark pair production using the lepton+jets final state in proton-proton collisions at 13 TeV. <i>Physical Review D</i> , <b>2017</b> , 95,  | 4.9 | 41 |
| 491 | 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> , <b>2015</b> , 75, 186                                    | 4.2 | 41 |
| 490 | Measurement of prompt $J/\psi$ pair production in pp collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 41 |
| 489 | Measurement of the inelastic proton-proton cross section at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 41 |
| 488 | 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> , <b>2018</b> , 2018, 1  | 5.4 | 40 |
| 487 | Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in pPb and PbPb collisions at the CERN Large Hadron Collider. <i>Physical Review C</i> , <b>2018</b> , 97,  | 2.7 | 40 |
| 486 | Measurement of inclusive jet cross sections in pp and PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review C</i> , <b>2017</b> , 96,   | 2.7 | 39 |
| 485 | Search for displaced supersymmetry in events with an electron and a muon with large impact parameters. <i>Physical Review Letters</i> , <b>2015</b> , 114, 061801   | 7.4 | 39 |
| 484 | Search for pair production of first and second generation leptoquarks in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,   | 4.9 | 39 |
| 483 | 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> , <b>2018</b> , 2018, 1  | 5.4 | 39 |
| 482 | Measurement of Prompt $D^0$ Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 120, 202301  | 7.4 | 39 |
| 481 | Search for new physics in events with same-sign dileptons and jets in pp collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 38 |



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| 480 | Measurement of prompt $(2S)$ to $J/\psi$ yield ratios in Pb-Pb and p-p collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review Letters</i> , <b>2014</b> , 113, 262301   | 7.4 | 38 |
| 479 | Search for top squark and Higgsino production using diphoton Higgs boson decays. <i>Physical Review Letters</i> , <b>2014</b> , 112, 161802   | 7.4 | 38 |
| 478 | 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> , <b>2016</b> , 76, 401  | 4.2 | 38 |
| 477 | Measurement of the $B^{\{0\}}$ Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2017</b> , 119, 152301  | 7.4 | 37 |
| 476 | Differential cross section measurements for the production of a W boson in association with jets in proton-proton collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 741, 12-37 | 4.2 | 37 |
| 475 | 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> , <b>2015</b> , 75, 288    | 4.2 | 37 |
| 474 | 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> , <b>2016</b> , 76, 469  | 4.2 | 37 |
| 473 | Search for the standard model Higgs boson produced through vector boson fusion and decaying to $bb$ . <i>Physical Review D</i> , <b>2015</b> , 92,  | 4.9 | 37 |
| 472 | Limits on the Higgs boson lifetime and width from its decay to four charged leptons. <i>Physical Review D</i> , <b>2015</b> , 92,   | 4.9 | 37 |
| 471 | Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $(\sqrt{s} = 8)$ TeV by the CMS and TOTEM experiments. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1   | 4.2 | 37 |
| 470 | 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> , <b>2018</b> , 2018, 1  | 5.4 | 37 |
| 469 | Measurement of prompt and nonprompt charmonium suppression in collisions at 5.02. <i>European Physical Journal C</i> , <b>2018</b> , 78, 509  | 4.2 | 37 |
| 468 | Study of W boson production in pPb collisions at $s_{NN}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 750, 565-586  | 4.2 | 36 |
| 467 | Search for the X(5568) State Decaying into $B_{s}^{0}\{0\}$ in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 120, 202005   | 7.4 | 36 |
| 466 | Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton-proton collisions at 8 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 749, 187-209          | 4.2 | 36 |
| 465 | Measurement of the ratio of inclusive jet cross sections using the anti-kT algorithm with radius parameters $R=0.5$ and $0.7$ in pp collisions at $s=7$ TeV. <i>Physical Review D</i> , <b>2014</b> , 90,   | 4.9 | 36 |
| 464 | Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $[Formula: see text]$ . <i>European Physical Journal C</i> , <b>2016</b> , 76, 451  | 4.2 | 36 |
| 463 | Search for disappearing tracks in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 35 |

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| 462 | Search for pair-produced vectorlike B quarks in proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,   | 4.9 | 35 |
| 461 | Study of Z boson production in pPb collisions at $s_{NN}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 36-57  | 4.2 | 35 |
| 460 | 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> , <b>2016</b> , 76, 13  | 4.2 | 35 |
| 459 | 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> , <b>2017</b> , 2017, 1                     | 5.4 | 35 |
| 458 | Search for lepton flavour violating decays of the Higgs boson to $e\bar{\mu}$ and $e\mu$ in proton-proton collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 763, 472-500                   | 4.2 | 35 |
| 457 | Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 778, 101-127               | 4.2 | 35 |
| 456 | 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> , <b>2017</b> , 2017, 1                                       | 5.4 | 34 |
| 455 | Pseudorapidity distribution of charged hadrons in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 751, 143-163  | 4.2 | 34 |
| 454 | Search for new physics in same-sign dilepton events in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 439  | 4.2 | 34 |
| 453 | Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 782, 440-467 | 4.2 | 34 |
| 452 | Search for decays of stopped long-lived particles produced in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 151   | 4.2 | 33 |
| 451 | Measurement of charged pion, kaon, and proton production in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2017</b> , 96,  | 4.9 | 33 |
| 450 | 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> , <b>2015</b> , 2015, 1   | 5.4 | 33 |
| 449 | Search for a light charged Higgs boson decaying to ( $\overline{c}c$ ) in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-37   | 5.4 | 33 |
| 448 | Search for neutral resonances decaying into a Z boson and a pair of b jets or leptons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 369-394   | 4.2 | 33 |
| 447 | Cross section measurement of t-channel single top quark production in pp collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 752-776   | 4.2 | 32 |
| 446 | Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 775, 1-24                                   | 4.2 | 32 |
| 445 | Identification techniques for highly boosted W bosons that decay into hadrons. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 32 |

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| 444 | Search for narrow high-mass resonances in proton-proton collisions at $\sqrt{s}=8$ TeV decaying to a Z and a Higgs boson. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 748, 255-277  | 4.2 | 30 |
| 443 | Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair. <i>Physical Review Letters</i> , <b>2018</b> , 120, 071802   | 7.4 | 30 |
| 442 | Measurement of the $(\overline{\text{t}}\text{t})$ production cross section in the $e\bar{e}$ channel in proton-proton collisions at $(\sqrt{s}=7)$ and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 30 |
| 441 | Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 758, 152-180   | 4.2 | 30 |
| 440 | Measurements of the production cross section and the branching fraction, and constraints on anomalous triple gauge couplings at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 165   | 4.2 | 29 |
| 439 | Search for pair production of vector-like quarks in the $bWb^*W$ channel from proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 779, 82-106  | 4.2 | 29 |
| 438 | Observation of $Y(1S)$ pair production in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 29 |
| 437 | Measurement of vector boson scattering and constraints on anomalous quartic couplings from events with four leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 774, 682-705 | 4.2 | 29 |
| 436 | Measurement of diffractive dissociation cross sections in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2015</b> , 92,   | 4.9 | 29 |
| 435 | 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> , <b>2014</b> , 74, 3060   | 4.2 | 29 |
| 434 | Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3129  | 4.2 | 29 |
| 433 | 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> , <b>2018</b> , 2018, 1   | 5.4 | 29 |
| 432 | Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2017</b> , 119, 141802  | 7.4 | 28 |
| 431 | Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2016</b> , 116, 052002   | 7.4 | 28 |
| 430 | Combined search for anomalous pseudoscalar HVV couplings in $VH(H\rightarrow b\bar{b})$ production and $H\rightarrow VV$ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 672-696  | 4.2 | 28 |
| 429 | 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> , <b>2016</b> , 2016, 1  | 5.4 | 28 |
| 428 | 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> , <b>2018</b> , 2018, 1   | 5.4 | 28 |
| 427 | 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> , <b>2019</b> , 79, 368   | 4.2 | 27 |

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| 426 | Measurements of the $\sigma(1S)$ , $\sigma(2S)$ , and $\sigma(3S)$ differential cross sections in pp collisions at $\sqrt{s}=7\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 749, 14-34  | 4.2 | 27 |
| 425 | Observation of Correlated Azimuthal Anisotropy Fourier Harmonics in pp and p+Pb Collisions at the LHC. <i>Physical Review Letters</i> , <b>2018</b> , 120, 092301   | 7.4 | 27 |
| 424 | Measurement of the Splitting Function in pp and Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02\text{ TeV}$ . <i>Physical Review Letters</i> , <b>2018</b> , 120, 142302  | 7.4 | 27 |
| 423 | Evidence for exclusive $\mu^+\mu^- + W$ 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> , <b>2016</b> , 2016, 1   | 5.4 | 27 |
| 422 | Azimuthal anisotropy of charged particles with transverse momentum up to $100\text{GeV}/c$ in PbPb collisions at $\sqrt{s_{NN}}=5.02\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 776, 195-216  | 4.2 | 27 |
| 421 | Measurement of prompt and nonprompt $[B_c]$ production in $[pp]$ and $[pp]$ collisions at $[8\text{ TeV}]$ . <i>European Physical Journal C</i> , <b>2017</b> , 77, 269   | 4.2 | 26 |
| 420 | Measurement of the CP-violating weak phase $\beta_s$ and the decay width difference $\Delta\Gamma$ using the $B_s^0 \rightarrow \mu^+\mu^-$ decay channel in pp collisions at $\sqrt{s}=8\text{ TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 757, 97-120 | 4.2 | 26 |
| 419 | Search for top squarks and dark matter particles in opposite-charge dilepton final states at $\sqrt{s}=13\text{ TeV}$ . <i>Physical Review D</i> , <b>2018</b> , 97,  | 4.9 | 26 |
| 418 | 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> , <b>2017</b> , 2017, 1   | 5.4 | 26 |
| 417 | 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> , <b>2015</b> , 2015, 1   | 5.4 | 26 |
| 416 | Search for monotop signatures in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$ . <i>Physical Review Letters</i> , <b>2015</b> , 114, 101801   | 7.4 | 25 |
| 415 | Sensitivity of the SHiP experiment to Heavy Neutral Leptons. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 25 |
| 414 | Combination of searches for heavy resonances decaying to $WW$ , $WZ$ , $ZZ$ , $WH$ , and $ZH$ boson pairs in proton-proton collisions at $\sqrt{s}=8$ and 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 774, 533-558                                      | 4.2 | 25 |
| 413 | 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> , <b>2017</b> , 2017, 1   | 5.4 | 25 |
| 412 | Measurements of the $[B_c]$ production cross sections in the $[pp]$ channel in proton-proton collisions at $[8\text{ TeV}]$ and $[pp]$ and combined constraints on triple gauge couplings. <i>European Physical Journal C</i> , <b>2015</b> , 75, 511   | 4.2 | 25 |
| 411 | Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. <i>European Physical Journal C</i> , <b>2016</b> , 76, 371   | 4.2 | 25 |
| 410 | 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> , <b>2018</b> , 78, 701  | 4.2 | 25 |
| 409 | Search for charged Higgs bosons in the $H \rightarrow \mu\mu$ decay channel in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1   | 5.4 | 24 |

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| 408 | Measurements of jet multiplicity and differential production cross sections of Z+jets events in proton-proton collisions at $s=7$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,   | 4.9 | 24 |
| 407 | 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> , <b>2015</b> , 75, 325                                    | 4.2 | 24 |
| 406 | 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> , <b>2020</b> , 80, 75   | 4.2 | 24 |
| 405 | Measurement of inclusive jet production and nuclear modifications in pPb collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 372  | 4.2 | 24 |
| 404 | Search for single production of a vector-like T quark decaying to a Z boson and a top quark in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 781, 574-600 | 4.2 | 24 |
| 403 | Search for heavy gauge $W'$ bosons in events with an energetic lepton and large missing transverse momentum at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 770, 278-301             | 4.2 | 24 |
| 402 | Alignment of the CMS tracker with LHC and cosmic ray data. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, P06009-P06009   | 4   | 24 |
| 401 | Search for $WW$ and $WZ$ production and constraints on anomalous quartic gauge couplings in pp collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2014</b> , 90,  | 4.9 | 24 |
| 400 | 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> , <b>2018</b> , 2018, 1   | 5.4 | 24 |
| 399 | Search for Dark Matter and Supersymmetry with a Compressed Mass Spectrum in the Vector Boson Fusion Topology in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2017</b> , 118, 021802                                    | 7.4 | 23 |
| 398 | Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 768, 103-129                          | 4.2 | 23 |
| 397 | Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P10017-P10017  | 1   | 23 |
| 396 | Search for $W'$ -fb decays in the lepton + jets final state in pp collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 23 |
| 395 | Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2017</b> , 119, 221802   | 7.4 | 23 |
| 394 | Measurement of four-jet production in proton-proton collisions at $s=7$ TeV. <i>Physical Review D</i> , <b>2014</b> , 89,   | 4.9 | 23 |
| 393 | Search for third-generation scalar leptoquarks decaying to a top quark and a lepton at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 707  | 4.2 | 23 |
| 392 | Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $\tau$ leptons at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1           | 5.4 | 23 |
| 391 | 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> , <b>2017</b> , 77, 172                                     | 4.2 | 22 |

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| 390 | Measurement of the cross section for electroweak production of $Z\gamma$ in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 770, 380-402 | 4.2 | 22 |
| 389 | Transverse momentum spectra of inclusive b jets in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 754, 59-80  | 4.2 | 22 |
| 388 | 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> , <b>2018</b> , 2018, 1   | 5.4 | 22 |
| 387 | Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 781, 244-269   | 4.2 | 22 |
| 386 | Study of Jet Quenching with Z+jet Correlations in Pb-Pb and pp Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2017</b> , 119, 082301  | 7.4 | 22 |
| 385 | Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2017</b> , 77, 845  | 4.2 | 22 |
| 384 | Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 22 |
| 383 | Measurement of the ZZ production cross section and Z $\rightarrow \mu\mu$ branching fraction in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 763, 280-303   | 4.2 | 22 |
| 382 | 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> , <b>2017</b> , 77, 236   | 4.2 | 21 |
| 381 | 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> , <b>2017</b> , 77, 294  | 4.2 | 21 |
| 380 | Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 746, 79-99   | 4.2 | 21 |
| 379 | 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> , <b>2015</b> , 75, 66  | 4.2 | 21 |
| 378 | Search for single production of scalar leptoquarks in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,   | 4.9 | 21 |
| 377 | Measurements of $t\bar{t}$ spin correlations and top quark polarization using dilepton final states in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,   | 4.9 | 21 |
| 376 | Correlations between jets and charged particles in PbPb and pp collisions at ( $\sqrt{s_{\mathrm{NN}}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 21 |
| 375 | 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> , <b>2016</b> , 76, 128   | 4.2 | 21 |
| 374 | Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2017</b> , 119, 111802   | 7.4 | 21 |
| 373 | 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> , <b>2017</b> , 77, 578   | 4.2 | 21 |

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| 372 | 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> , <b>2017</b> , 2017, 1  | 5.4 | 21 |
| 371 | Search for excited quarks in the $n$ -jet final state in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 738, 274-293                                | 4.2 | 21 |
| 370 | Measurement of the integrated and differential $t\bar{t}$ production cross sections for high- $p_T$ top quarks in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 94,  | 4.9 | 21 |
| 369 | 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> , <b>2016</b> , 2016, 1   | 5.4 | 21 |
| 368 | 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> , <b>2019</b> , 2019, 1  | 5.4 | 21 |
| 367 | Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 745, 5-28                                      | 4.2 | 20 |
| 366 | Measurement of quarkonium production cross sections in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 780, 251-272  | 4.2 | 20 |
| 365 | Search for massive resonances decaying into WW, WZ, ZZ, $q\bar{W}$ , and $q\bar{Z}$ with dijet final states at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 97,   | 4.9 | 20 |
| 364 | 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> , <b>2016</b> , 76, 379 | 4.2 | 20 |
| 363 | Search for a low-mass pseudoscalar Higgs boson produced in association with a $b\bar{b}$ pair in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 758, 296-320   | 4.2 | 20 |
| 362 | Search for new long-lived particles at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 780, 432-454   | 4.2 | 20 |
| 361 | 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> , <b>2018</b> , 78, 140   | 4.2 | 20 |
| 360 | Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 564   | 4.2 | 20 |
| 359 | 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> , <b>2017</b> , 2017, 1                  | 5.4 | 20 |
| 358 | 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> , <b>2017</b> , 77, 636   | 4.2 | 20 |
| 357 | 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> , <b>2016</b> , 2016, 1  | 5.4 | 20 |
| 356 | 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> , <b>2018</b> , 2018, 1   | 5.4 | 20 |
| 355 | 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> , <b>2018</b> , 2018, 1                              | 5.4 | 20 |

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| 354 | 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> , <b>2017</b> , 77, 15 | 4.2 | 19 |
| 353 | 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> , <b>2015</b> , 2015, 1  | 5.4 | 19 |
| 352 | Search for resonant and nonresonant Higgs boson pair production in the ( $\overline{\text{b}}\text{b}$ ) final state in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                 | 5.4 | 19 |
| 351 | Study of B Meson Production in p+Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV Using Exclusive Hadronic Decays. <i>Physical Review Letters</i> , <b>2016</b> , 116, 032301   | 7.4 | 19 |
| 350 | Search for massive WH resonances decaying into the [Formula: see text] final state at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 237  | 4.2 | 19 |
| 349 | Measurement of exclusive photoproduction from protons in Pb collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 277  | 4.2 | 19 |
| 348 | 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> , <b>2017</b> , 2017, 1   | 5.4 | 19 |
| 347 | 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> , <b>2017</b> , 2017, 1  | 5.4 | 19 |
| 346 | 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> , <b>2015</b> , 2015, 1  | 5.4 | 19 |
| 345 | Measurement of differential cross sections for boson production in association with jets in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 965  | 4.2 | 19 |
| 344 | 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> , <b>2018</b> , 78, 789  | 4.2 | 19 |
| 343 | Search for lepton flavour violating decays of the Higgs boson to $\tau\tau$ and $e\tau$ in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 19 |
| 342 | 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> , <b>2019</b> , 79, 364  | 4.2 | 18 |
| 341 | 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> , <b>2015</b> , 2015, 1  | 5.4 | 18 |
| 340 | Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,  | 4.9 | 18 |
| 339 | 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> , <b>2016</b> , 2016, 1   | 5.4 | 18 |
| 338 | Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two $\tau$ leptons and two jets in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1                    | 5.4 | 18 |
| 337 | . <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 18 |



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| 336 | Relative Modification of Prompt $\tau$ and $J/\psi$ Yields from pp to PbPb Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2017</b> , 118, 162301  | 7.4 | 18 |
| 335 | 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> , <b>2017</b> , 2017, 1   | 5.4 | 18 |
| 334 | Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying $\tau$ leptons and two jets in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 18 |
| 333 | Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 18 |
| 332 | 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> , <b>2018</b> , 2018, 1  | 5.4 | 18 |
| 331 | Search for $(\overline{\text{H}} \rightarrow \text{b}\overline{\text{b}})$ production in the $(\text{H} \rightarrow \text{t}\overline{\text{t}})$ decay channel with leptonic $(\overline{\text{t}} \rightarrow \text{t}\overline{\text{t}})$ decays in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1 | 5.4 | 17 |
| 330 | Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 743, 503-525   | 4.2 | 17 |
| 329 | 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> , <b>2018</b> , 78, 291  | 4.2 | 17 |
| 328 | Measurement of the inclusive jet cross section in pp collisions at ( $\sqrt{s}=2.76$ , text {TeV}). <i>European Physical Journal C</i> , <b>2016</b> , 76, 1   | 4.2 | 17 |
| 327 | Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s}=8$ TeV in dilepton final states containing one $\tau$ lepton. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 739, 23-43  | 4.2 | 17 |
| 326 | Search for $(\overline{\text{H}} \rightarrow \text{t}\overline{\text{t}})$ 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> , <b>2017</b> , 2017, 1  | 5.4 | 17 |
| 325 | Searches for pair production of third-generation squarks in [Formula: see text][Formula: see text] pp collisions. <i>European Physical Journal C</i> , <b>2017</b> , 77, 327   | 4.2 | 17 |
| 324 | 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> , <b>2015</b> , 2015, 1   | 5.4 | 17 |
| 323 | Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton + jets final states produced in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 762, 512-534   | 4.2 | 17 |
| 322 | The active muon shield in the SHiP experiment. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P05011-P05011   | 1   | 16 |
| 321 | 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> , <b>2017</b> , 77, 459   | 4.2 | 16 |
| 320 | 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> , <b>2020</b> , 80, 3  | 4.2 | 16 |
| 319 | 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> , <b>2016</b> , 2016, 1   | 5.4 | 16 |

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| 318 | Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\ell\ell$ leptons in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 16 |
| 317 | Measurement of WZ and ZZ production in pp collisions at [Formula: see text] in final states with b-tagged jets. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2973   | 4.2 | 16 |
| 316 | 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> , <b>2015</b> , 2015, 1   | 5.4 | 16 |
| 315 | Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at ( $\sqrt{\mathrm{s}}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 16 |
| 314 | 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> , <b>2017</b> , 2017, 1   | 5.4 | 16 |
| 313 | 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> , <b>2018</b> , 2018, 1   | 5.4 | 16 |
| 312 | 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> , <b>2018</b> , 2018, 1   | 5.4 | 16 |
| 311 | Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks. <i>Physical Review D</i> , <b>2018</b> , 97,  | 4.9 | 16 |
| 310 | Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at $\sqrt{s}=8$ TeV using the $\Delta T$ variable. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 767, 403-430                 | 4.2 | 15 |
| 309 | Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2017</b> , 96,   | 4.9 | 15 |
| 308 | Measurements of ( $\overline{\mathrm{t}}\mathrm{t}$ ) differential cross sections in proton-proton collisions at ( $\sqrt{\mathrm{s}}=13$ ) TeV using events containing two leptons. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 15 |
| 307 | Measurement of the cross section ratio $\sigma(\mathrm{t}\bar{\mathrm{t}}\mathrm{bb})/\sigma(\mathrm{t}\bar{\mathrm{t}}\mathrm{jj})$ in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 746, 132-153 | 4.2 | 15 |
| 306 | Measurements of the associated production of a Z boson and b jets in pp collisions at. <i>European Physical Journal C</i> , <b>2017</b> , 77, 751   | 4.2 | 15 |
| 305 | 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> , <b>2016</b> , 2016, 1  | 5.4 | 15 |
| 304 | Inclusive and differential measurements of the $\mathrm{t}\bar{\mathrm{t}}$ charge asymmetry in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 757, 154-179   | 4.2 | 15 |
| 303 | Search for new particles decaying to a jet and an emerging jet. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1   | 5.4 | 15 |
| 302 | 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> , <b>2017</b> , 2017, 1  | 5.4 | 15 |
| 301 | Measurement of the differential inclusive B+ hadron cross sections in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 771, 435-456  | 4.2 | 15 |

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| 2999 | Study of the $\Xi(3823)$ and $\Xi(3872)$ states in $B^+ \rightarrow (J/\psi)K^+$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5-4 | 15 |
| 2998 | 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> , <b>2018</b> , 2018, 1   | 5-4 | 15 |
| 2997 | 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> , <b>2017</b> , 77, 467   | 4-2 | 14 |
| 2996 | 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> , <b>2019</b> , 2019, 1  | 5-4 | 14 |
| 2995 | Measurement of the production cross section ratio $(\sigma(B^0 \rightarrow \tau^+ \nu_\tau)) / (\sigma(B^0 \rightarrow \tau^+ \nu_\tau))$ in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 743, 383-402 | 4-2 | 14 |
| 2994 | Search for heavy resonances decaying to a top quark and a bottom quark in the lepton+jets final state in proton-proton collisions at 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 777, 39-63                               | 4-2 | 14 |
| 2993 | 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> , <b>2016</b> , 76, 460  | 4-2 | 14 |
| 2992 | Search for $W^0$ decaying to tau lepton and neutrino in proton-proton collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 755, 196-216   | 4-2 | 14 |
| 2991 | 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> , <b>2016</b> , 2016, 1   | 5-4 | 14 |
| 2990 | Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 306-329   | 4-2 | 14 |
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| 2888 | 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> , <b>2017</b> , 2017, 1  | 5-4 | 14 |
| 2887 | Feebly-interacting particles: FIPs 2020 workshop report. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4-2 | 14 |
| 2886 | 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> , <b>2016</b> , 2016, 1  | 5-4 | 14 |
| 2885 | 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> , <b>2018</b> , 2018, 1  | 5-4 | 14 |
| 2884 | Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two leptons in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5-4 | 14 |
| 2883 | 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> , <b>2018</b> , 2018, 1  | 5-4 | 14 |

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| 281 | 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> , <b>2018</b> , 2018, 1  | 5.4 | 14 |
| 280 | Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 768, 137-162   | 4.2 | 13 |
| 279 | Search for resonant ( $\overline{t}t$ ) production in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1   | 5.4 | 13 |
| 278 | Measurement of the ratio of the production cross sections times branching fractions of $B \rightarrow c \ell \bar{\nu}_\ell$ and $B \rightarrow c \ell \bar{\nu}_\ell$ and $(\mathcal{B}(\overline{B} \rightarrow \overline{c} \ell \nu_\ell) / \mathcal{B}(\overline{B} \rightarrow \overline{c} \ell \nu_\ell)) / (\mathcal{B}(\overline{B} \rightarrow \overline{c} \ell \nu_\ell) / \mathcal{B}(\overline{B} \rightarrow \overline{c} \ell \nu_\ell))$ in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1 | 5.4 | 13 |
| 277 | 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> , <b>2018</b> , 2018, 1  | 5.4 | 13 |
| 276 | Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 325  | 4.2 | 13 |
| 275 | Search for a Higgs boson decaying into $\tau\tau$ with low dilepton mass in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 753, 341-362  | 4.2 | 13 |
| 274 | Measurement of exclusive $\gamma$ photoproduction in ultraperipheral pPb collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 702   | 4.2 | 13 |
| 273 | 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> , <b>2019</b> , 79, 313  | 4.2 | 13 |
| 272 | Measurement of ( $\bar{t}t$ ) normalised multi-differential cross sections in ( $pp$ ) collisions at ( $\sqrt{s}=13$ , TeV), and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 13 |
| 271 | Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at ( $\sqrt{s_{NN}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 13 |
| 270 | Search for ( $\overline{t}t$ ) production in the all-jet final state in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 13 |
| 269 | Measurement of the top quark mass with lepton+jets final states using collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 891  | 4.2 | 13 |
| 268 | Search for Narrow Resonances in the b-Tagged Dijet Mass Spectrum in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 120, 201801   | 7.4 | 13 |
| 267 | 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> , <b>2019</b> , 79, 280   | 4.2 | 12 |
| 266 | Test of lepton universality with ( $\Lambda_b \rightarrow p K^0 \ell^+ \ell^-$ ) decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 12 |
| 265 | Suppression of Excited $\rho$ States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 120, 142301  | 7.4 | 12 |

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| 264 | Measurements of $t\bar{t}$ cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at $\sqrt{s}=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 776, 355-378    | 4.2 | 12 |
| 263 | Measurement of normalized differential ( $\overline{\sigma}(\mathbf{t})$ ) cross sections in the dilepton channel from pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 12 |
| 262 | Search for supersymmetry in events with soft leptons, low jet multiplicity, and missing transverse energy in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 9-35                      | 4.2 | 12 |
| 261 | Principal-component analysis of two-particle azimuthal correlations in PbPb and pPb collisions at CMS. <i>Physical Review C</i> , <b>2017</b> , 96,   | 2.7 | 12 |
| 260 | 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> , <b>2017</b> , 2017, 1   | 5.4 | 12 |
| 259 | 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> , <b>2018</b> , 2018, 1   | 5.4 | 12 |
| 258 | Studies of $\eta$ and mesons including the observation of the decay in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 939  | 4.2 | 12 |
| 257 | 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> , <b>2018</b> , 78, 1   | 4.2 | 12 |
| 256 | Search for single production of vector-like quarks decaying to a b quark and a Higgs boson. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 12 |
| 255 | Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 778, 263-291 | 4.2 | 12 |
| 254 | Search for R-parity violating supersymmetry with displaced vertices in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2017</b> , 95,   | 4.9 | 11 |
| 253 | Search for single production of a heavy vector-like T quark decaying to a Higgs boson and a top quark with a lepton and jets in the final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 771, 80-105                                      | 4.2 | 11 |
| 252 | 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> , <b>2017</b> , 2017, 1  | 5.4 | 11 |
| 251 | Precision measurement of the ( $\chi_{cc}^{++}$ ) mass. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 11 |
| 250 | 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> , <b>2020</b> , 2020, 1   | 5.4 | 11 |
| 249 | Measurement of associated Z + charm production in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 287   | 4.2 | 11 |
| 248 | Measurement of the charge asymmetry in top quark pair production in pp collisions at $\sqrt{s}=8$ TeV using a template method. <i>Physical Review D</i> , <b>2016</b> , 93,   | 4.9 | 11 |
| 247 | Phenomenological MSSM interpretation of CMS searches in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 11 |

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| 246 | Search for neutral MSSM Higgs bosons decaying to $\mu\mu$ in pp collisions at $\sqrt{s}=7$ and $8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 752, 221-246                                       | 4.2 | 11 |
| 245 | Measurement of the associated production of a single top quark and a Z boson in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 779, 358-384                           | 4.2 | 11 |
| 244 | Measurement of jet multiplicity distributions in $[Formula: see text]$ production in pp collisions at $[Formula: see text]$ . <i>European Physical Journal C</i> , <b>2014</b> , 74, 3014  | 4.2 | 11 |
| 243 | Search for single production of vector-like quarks decaying into a b quark and a W boson in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 634-656    | 4.2 | 11 |
| 242 | Observation of Top Quark Production in Proton-Nucleus Collisions. <i>Physical Review Letters</i> , <b>2017</b> , 119, 242001   | 7.4 | 11 |
| 241 | 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> , <b>2017</b> , 2017, 1  | 5.4 | 11 |
| 240 | 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> , <b>2017</b> , 2017, 1  | 5.4 | 11 |
| 239 | Search for new physics with dijet angular distributions in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 11 |
| 238 | Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 11 |
| 237 | Search for supersymmetry with razor variables in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2014</b> , 90,   | 4.9 | 11 |
| 236 | Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P02027-P02027  | 1   | 11 |
| 235 | Charged-particle nuclear modification factors in XeXe collisions at $(\sqrt{s_{\mathrm{NN}}}=5.44)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 11 |
| 234 | Search for Z resonances using leptonic and hadronic final states in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 11 |
| 233 | Search for the decay of a Higgs boson in the $\tau\tau$ channel in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 11 |
| 232 | Search for beyond the standard model Higgs bosons decaying into a $(\overline{\mathrm{b}}\mathrm{b})$ pair in pp collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 11 |
| 231 | Measurements of the pp $\rightarrow$ fWZ 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> , <b>2019</b> , 2019, 1                    | 5.4 | 10 |
| 230 | Search for new neutral Higgs bosons through the $(\mathrm{H})\rightarrow\mathrm{ZA}\rightarrow\{\ell\}^+\{\ell\}^-\overline{\mathrm{b}}\mathrm{b})$ process in pp collisions at $(\sqrt{s})=13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1 | 5.4 | 10 |
| 229 | A multi-dimensional search for new heavy resonances decaying to boosted $\tau\tau$ or boson pairs in the dijet final state at $13$ TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 237   | 4.2 | 10 |

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| 228 | 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> , <b>2017</b> , 2017, 1  | 5.4 | 10 |
| 227 | Measurement of the top quark mass using charged particles in pp collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,  | 4.9 | 10 |
| 226 | Search for supersymmetry in pp collisions at $s=8$ TeV in final states with boosted W bosons and b jets using razor variables. <i>Physical Review D</i> , <b>2016</b> , 93,  | 4.9 | 10 |
| 225 | Search for excited leptons in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 10 |
| 224 | Measurement of spin correlations in $tt\bar{\nu}$ production using the matrix element method in the muon+jets final state in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 758, 321-346              | 4.2 | 10 |
| 223 | Search for standard model production of four top quarks in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 336-358  | 4.2 | 10 |
| 222 | Search for high-mass Z resonances in proton-proton collisions at $s=8$ and 13 TeV using jet substructure techniques. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 363-387  | 4.2 | 10 |
| 221 | Search for black holes and other new phenomena in high-multiplicity final states in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 774, 279-307   | 4.2 | 10 |
| 220 | Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2017</b> , 95,   | 4.9 | 10 |
| 219 | Measurements of jet charge with dijet events in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 10 |
| 218 | 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> , <b>2017</b> , 2017, 1   | 5.4 | 10 |
| 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> , <b>2017</b> , 2017, 1  | 5.4 | 10 |
| 216 | Searches for low-mass dimuon resonances. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 10 |
| 215 | Measurement of properties of ( $\mathcal{B}_{\mu\mu}^0$ )- $\mu\mu$ decays and search for $B_0\text{-}\mu\mu$ with the CMS experiment. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 10 |
| 214 | Measurement of the $Z\mu\mu$ production cross section in pp collisions at $s=8$ TeV and limits on anomalous $ZZ\mu\mu$ and $Z\mu\mu$ trilinear gauge boson couplings. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 760, 448-468 | 4.2 | 10 |
| 213 | Measurement of the inelastic cross section in proton-lead collisions at $s_{NN}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 641-662  | 4.2 | 10 |
| 212 | 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> , <b>2016</b> , 2016, 1   | 5.4 | 10 |
| 211 | 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> , <b>2018</b> , 2018, 1  | 5.4 | 10 |

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| 210 | 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> , <b>2018</b> , 2018, 1                         | 5.4 | 10 |
| 209 | Inclusive search for supersymmetry using razor variables in pp collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2017</b> , 95,   | 4.9 | 9  |
| 208 | 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> , <b>2019</b> , 2019, 1   | 5.4 | 9  |
| 207 | A search for the standard model Higgs boson decaying to charm quarks. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 9  |
| 206 | Search for gauge-mediated supersymmetry in events with at least one photon and missing transverse momentum in pp collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 780, 118-143 | 4.2 | 9  |
| 205 | Measurements of $t\bar{t}$ charge asymmetry using dilepton final states in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 760, 365-386                                     | 4.2 | 9  |
| 204 | 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> , <b>2016</b> , 2016, 1  | 5.4 | 9  |
| 203 | Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 9  |
| 202 | Search for exotic decays of a Higgs boson into undetectable particles and one or more photons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 753, 363-388   | 4.2 | 9  |
| 201 | Measurement of b hadron lifetimes in pp collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 457   | 4.2 | 9  |
| 200 | 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> , <b>2019</b> , 2019, 1                                    | 5.4 | 9  |
| 199 | Search for associated production of dark matter with a Higgs boson decaying to ( $\overline{\text{b}}\text{b}$ ) or $\text{b}\bar{\text{t}}$ ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                               | 5.4 | 9  |
| 198 | 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> , <b>2017</b> , 2017, 1                                       | 5.4 | 9  |
| 197 | Measurement of electroweak-induced production of $W\gamma$ 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> , <b>2017</b> , 2017, 1                           | 5.4 | 9  |
| 196 | Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $[\text{Formula: see text}]$ pair in proton-proton collisions at $[\text{Formula: see text}]$ . <i>European Physical Journal C</i> , <b>2016</b> , 76, 317         | 4.2 | 9  |
| 195 | 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> , <b>2018</b> , 2018, 1   | 5.4 | 9  |
| 194 | Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 697   | 4.2 | 9  |
| 193 | Search for a singly produced third-generation scalar leptoquark decaying to a $[\text{lepton}]$ and a bottom quark in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                          | 5.4 | 9  |



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| 192 | Measurement of the top quark mass in the dileptonic $t\bar{t}$ decay channel using the mass observables $M_{b\bar{b}MT2}$ , and $M_{b\bar{b}n}$ in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2017</b> , 96,                       | 4.9 | 8 |
| 191 | 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> , <b>2019</b> , 2019, 1 | 5.4 | 8 |
| 190 | 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> , <b>2019</b> , 2019, 1  | 5.4 | 8 |
| 189 | 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> , <b>2019</b> , 2019, 1                          | 5.4 | 8 |
| 188 | Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $(\sqrt{\text{mathrm{s}}}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 8 |
| 187 | Search for Higgsino pair production in pp collisions at $\sqrt{s}=13$ TeV in final states with large missing transverse momentum and two Higgs bosons decaying via $H\rightarrow b\bar{b}$ . <i>Physical Review D</i> , <b>2018</b> , 97,                | 4.9 | 8 |
| 186 | Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $(\sqrt{s_{\text{mathrm{NN}}}}=5.02)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 8 |
| 185 | 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> , <b>2016</b> , 2016, 1   | 5.4 | 8 |
| 184 | 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> , <b>2019</b> , 2019, 1   | 5.4 | 8 |
| 183 | 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> , <b>2017</b> , 2017, 1                                   | 5.4 | 8 |
| 182 | Measurement of the top quark mass using single top quark events in proton-proton collisions at $[\text{Formula: see text}]\text{TeV}$ . <i>European Physical Journal C</i> , <b>2017</b> , 77, 354   | 4.2 | 8 |
| 181 | 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> , <b>2017</b> , 77, 746   | 4.2 | 8 |
| 180 | Search for the lepton flavour violating decay $B^+ \rightarrow K^+ \mu^+ \mu^-$ using $(B_{s2}^{\text{ast } 0})$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 8 |
| 179 | Search for electroweak production of a vector-like T quark using fully hadronic final states. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 8 |
| 178 | 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> , <b>2020</b> , 2020, 1   | 5.4 | 8 |
| 177 | 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> , <b>2018</b> , 2018, 1   | 5.4 | 8 |
| 176 | Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2017</b> , 95,  | 4.9 | 7 |
| 175 | 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> , <b>2017</b> , 2017, 1  | 5.4 | 7 |

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| 174 | Measurement of the production cross section of a $W\ell$ boson in association with two b jets in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2017</b> , 77, 92                                | 4.2 | 7 |
| 173 | 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>Physical Review Letters</i> , <b>2017</b> , 119, 151802                        | 7.4 | 7 |
| 172 | Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2017</b> , 96,   | 4.9 | 7 |
| 171 | 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> , <b>2019</b> , 79, 1  | 4.2 | 7 |
| 170 | Search for rare decays of and Higgs bosons to and a photon in proton-proton collisions at $= 13$ . <i>European Physical Journal C</i> , <b>2019</b> , 79, 94  | 4.2 | 7 |
| 169 | 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> , <b>2019</b> , 2019, 1            | 5.4 | 7 |
| 168 | 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> , <b>2019</b> , 2019, 1                        | 5.4 | 7 |
| 167 | Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at ( $\sqrt{\text{mathrm}\{s\}} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1                | 5.4 | 7 |
| 166 | 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> , <b>2016</b> , 2016, 1                 | 5.4 | 7 |
| 165 | Measurement of top quark polarisation in t-channel single top quark production. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 7 |
| 164 | Jet properties in PbPb and pp collisions at ( $\sqrt{s_{\text{mathrm}\{N\};\text{mathrm}\{N\}}}=5.02$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 7 |
| 163 | Measurement of the semileptonic ( $\text{mathrm}\{t\}\overline{\text{mathrm}\{t\}}$ ) + $\ell$ production cross section in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1 | 5.4 | 7 |
| 162 | Searches for $W\ell$ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 7 |
| 161 | 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> , <b>2017</b> , 2017, 1                                  | 5.4 | 7 |
| 160 | Measurement of the $Z\ell$ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1                              | 5.4 | 7 |
| 159 | Search for CP violation in ( $\{\{\{\varXi\}\}^+_{\{c\}} \rightarrow \{p\} \{\{K\}^-\} \{\{\pi\}^+\}$ ) decays using model-independent techniques. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1                     | 4.2 | 7 |
| 158 | Observation of a new baryon state in the ( $\{\{\Lambda\}_{\text{mathrm}\{b\}}^0\{\{\pi\}^+\}\{\{\pi\}^-\}$ ) mass spectrum. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1                                      | 5.4 | 7 |
| 157 | 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> , <b>2019</b> , 2019, 1                   | 5.4 | 7 |

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| 156 | 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> , <b>2016</b> , 2016, 1                      | 5-4 | 7 |
| 155 | Searches for R-parity-violating supersymmetry in pp collisions at $s=8$ TeV in final states with 0 leptons. <i>Physical Review D</i> , <b>2016</b> , 94,  | 4-9 | 7 |
| 154 | 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> , <b>2018</b> , 2018, 1                            | 5-4 | 7 |
| 153 | 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> , <b>2018</b> , 2018, 1                         | 5-4 | 7 |
| 152 | Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2\ell q$ final states at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5-4 | 7 |
| 151 | Search for dark matter produced in association with a Higgs boson decaying to $\ell\bar{\nu}\nu$ ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5-4 | 7 |
| 150 | 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> , <b>2018</b> , 2018, 1  | 5-4 | 7 |
| 149 | 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> , <b>2019</b> , 79, 90  | 4-2 | 6 |
| 148 | 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> , <b>2015</b> , 2015, 1  | 5-4 | 6 |
| 147 | Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in collisions at and 5.02. <i>European Physical Journal C</i> , <b>2020</b> , 80, 534  | 4-2 | 6 |
| 146 | Measurement of electroweak production of a boson in association with two jets in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 43   | 4-2 | 6 |
| 145 | Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\ell\bar{\nu}\nu$ and $e\bar{\nu}\nu$ in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1               | 5-4 | 6 |
| 144 | Measurement of the $\bar{B}$ polarization and angular parameters in $B\text{-}\bar{B}/D$ decays from pp collisions at $s=7$ and 8 TeV. <i>Physical Review D</i> , <b>2018</b> , 97,   | 4-9 | 6 |
| 143 | Search for supersymmetry in electroweak production with photons and large missing transverse energy in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 479-500 | 4-2 | 6 |
| 142 | Measurement of dijet azimuthal decorrelation in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 536  | 4-2 | 6 |
| 141 | Search for vectorlike light-flavor quark partners in proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2018</b> , 97,  | 4-9 | 6 |
| 140 | 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> , <b>2019</b> , 79, 1                         | 4-2 | 6 |
| 139 | Probing new physics with displaced vertices: Muon tracker at CMS. <i>Physical Review D</i> , <b>2019</b> , 100,   | 4-9 | 6 |

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| 138 | Measurement of the mass difference between top quark and antiquark in pp collisions at $\sqrt{s}=8\text{ TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 770, 50-71                     | 4.2 | 6 |
| 137 | Search for leptophobic $Z'$ bosons decaying into four-lepton final states in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 773, 563-584 | 4.2 | 6 |
| 136 | Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at $\sqrt{s}=13\text{ TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 775, 315-337    | 4.2 | 6 |
| 135 | Search for the associated production of the Higgs boson with a top-quark pair <b>2014</b> , 2014, 1   |     | 6 |
| 134 | Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $(\sqrt{s}=8)\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1                                    | 5.4 | 6 |
| 133 | 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> , <b>2019</b> , 79, 893   | 4.2 | 6 |
| 132 | Search for new physics in top quark production in dilepton final states in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 886  | 4.2 | 6 |
| 131 | Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $(\sqrt{s}=13)\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 6 |
| 130 | Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at $(\sqrt{s}=13)\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                        | 5.4 | 6 |
| 129 | Search for a heavy resonance decaying into a Z boson and a vector boson in the $(\nu_{\overline{\text{q}}}\overline{\text{q}})$ final state. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 6 |
| 128 | Search for pair production of excited top quarks in the lepton + jets final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 778, 349-370   | 4.2 | 6 |
| 127 | Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at $\sqrt{s_{NN}}=5.02\text{ TeV}$ . <i>Physical Review C</i> , <b>2017</b> , 96,   | 2.7 | 5 |
| 126 | Measurement of the mass of the top quark in decays with a $J/\psi$ meson in pp collisions at 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 5 |
| 125 | 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> , <b>2019</b> , 2019, 1  | 5.4 | 5 |
| 124 | Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $(\sqrt{s}=13)\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 5 |
| 123 | Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at $\sqrt{s}=8\text{ TeV}$ . <i>Physical Review D</i> , <b>2015</b> , 92,  | 4.9 | 5 |
| 122 | Search for supersymmetry with photons in pp collisions at $\sqrt{s}=8\text{ TeV}$ . <i>Physical Review D</i> , <b>2015</b> , 92,  | 4.9 | 5 |
| 121 | Comparison of the $Z/\psi + \text{jets}$ to $\psi + \text{jets}$ cross sections in pp collisions at $(\sqrt{s}=8)\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 5 |

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| 120 | Search for jet extinction in the inclusive jet-pT spectrum from proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2014</b> , 90,  | 4.9 | 5 |
| 119 | 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> , <b>2020</b> , 2020, 1              | 5.4 | 5 |
| 118 | Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 757, 6-31  | 4.2 | 5 |
| 117 | $\chi(nS)$ polarizations versus particle multiplicity in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 761, 31-52  | 4.2 | 5 |
| 116 | Prospects for BSM searches at the high-luminosity LHC with the CMS detector. <i>Nuclear and Particle Physics Proceedings</i> , <b>2016</b> , 273-275, 656-661   | 0.4 | 5 |
| 115 | Search for resonances decaying to a pair of Higgs bosons in the $b(\overline{\text{b}})q(\overline{\text{q}})$ final state in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1        | 5.4 | 5 |
| 114 | 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> , <b>2018</b> , 2018, 1   | 5.4 | 5 |
| 113 | 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> , <b>2018</b> , 2018, 1                                      | 5.4 | 5 |
| 112 | Measurement of the cross section in pp collisions at and validation of lepton analysis techniques. <i>European Physical Journal C</i> , <b>2018</b> , 78, 708   | 4.2 | 5 |
| 111 | Search for excited quarks of light and heavy flavor in $\chi$ jet final states in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 781, 390-411 | 4.2 | 5 |
| 110 | Search for a low-mass $\chi$ resonance in association with a bottom quark in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1   | 5.4 | 4 |
| 109 | Search for the pair production of light top squarks in the $e\chi\chi$ final state in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 4 |
| 108 | Search for nonresonant Higgs boson pair production in the $(\text{b}\overline{\text{b}}\text{b}\overline{\text{b}})$ final state at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1                              | 5.4 | 4 |
| 107 | Study of the underlying event in top quark pair production in collisions at 13. <i>European Physical Journal C</i> , <b>2019</b> , 79, 123  | 4.2 | 4 |
| 106 | Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 20  | 4.2 | 4 |
| 105 | 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> , <b>2015</b> , 75, 302   | 4.2 | 4 |
| 104 | Evidence for $(W)W$ production from double-parton interactions in proton-proton collisions at $(\sqrt{s} = 13, \text{TeV})$ . <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 4 |
| 103 | Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 242  | 4.2 | 4 |

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| 102 | Pseudorapidity distributions of charged hadrons in proton-lead collisions at ( $\sqrt{s_{\mathrm{NN}}}=5.02$ ) and 8.16 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5-4 | 4 |
| 101 | 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> , <b>2018</b> , 2018, 1                                   | 5-4 | 4 |
| 100 | Measurement of the ratio $B(\mathrm{Bs} \rightarrow \mu^+ \mu^-) / B(\mathrm{Bs} \rightarrow \tau^+ \tau^-)$ in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 756, 84-102 | 4-2 | 4 |
| 99  | Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 779, 166-190                                      | 4-2 | 4 |
| 98  | Combination of inclusive and differential ( $\overline{\mathrm{t}}$ ) charge asymmetry measurements using ATLAS and CMS data at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5-4 | 4 |
| 97  | 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> , <b>2019</b> , 2019, 1   | 5-4 | 4 |
| 96  | 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> , <b>2017</b> , 2017, 1   | 5-4 | 4 |
| 95  | 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> , <b>2017</b> , 2017, 1   | 5-4 | 4 |
| 94  | Search for CP violation in ( $\overline{\mathrm{t}}$ ) production and decay in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5-4 | 4 |
| 93  | Study of final-state radiation in decays of Z bosons produced in pp collisions at 7 TeV. <i>Physical Review D</i> , <b>2015</b> , 91,  | 4-9 | 4 |
| 92  | Measurement of differential cross sections and charge ratios for $\tau$ -channel single top quark production in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 370  | 4-2 | 4 |
| 91  | Strong constraints on the $b \rightarrow s \gamma$ photon polarisation from $B^0 \rightarrow K^* \mu^+ \mu^-$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5-4 | 4 |
| 90  | Sensitivity of the SHiP experiment to light dark matter. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5-4 | 4 |
| 89  | 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> , <b>2016</b> , 2016, 1   | 5-4 | 4 |
| 88  | Search for R-parity violating decays of a top squark in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 760, 178-201   | 4-2 | 4 |
| 87  | 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> , <b>2018</b> , 78, 1  | 4-2 | 4 |
| 86  | 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> , <b>2019</b> , 2019, 1                                       | 5-4 | 3 |
| 85  | Search for direct pair production of supersymmetric partners to the lepton in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 189  | 4-2 | 3 |

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| 84 | 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> , <b>2018</b> , 2018, 1                      | 5-4 | 3 |
| 83 | Search for ZZ resonances in the $2\ell$ final state in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5-4 | 3 |
| 82 | Search for supersymmetry in events with photons and missing transverse energy in pp collisions at 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 769, 391-412                           | 4-2 | 3 |
| 81 | 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> , <b>2017</b> , 2017, 1  | 5-4 | 3 |
| 80 | 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> , <b>2014</b> , 2014, 1   | 5-4 | 3 |
| 79 | Measurements of the ( $\text{p} \rightarrow \text{Z}$ ) production cross section and the ( $\text{Z} \rightarrow 4\ell$ ) branching fraction, and constraints on anomalous triple gauge couplings at ( $\sqrt{s} = 13, \text{TeV}$ ) <b>2018</b> , 78, 1 |     | 3 |
| 78 | Measurement of the ( $\overline{\text{t}}$ ) production cross section in the dilepton channel in pp collisions at ( $\sqrt{s}$ ) = 8 TeV <b>2014</b> , 2014, 1   |     | 3 |
| 77 | A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. <i>Computing and Software for Big Science</i> , <b>2020</b> , 4, 10  | 6   | 3 |
| 76 | Search for heavy neutral leptons in ( $W^+ \rightarrow \mu^+ \mu^{\pm}$ ), ( $\text{jet}$ ) decays. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4-2 | 3 |
| 75 | Studies of inclusive four-jet production with two b-tagged jets in proton-proton collisions at 7 TeV. <i>Physical Review D</i> , <b>2016</b> , 94,   | 4-9 | 3 |
| 74 | Search for long-lived particles decaying to ( $e^{\pm}$ ) ( $\mu^{\pm}$ ) ( $\nu$ ). <i>European Physical Journal C</i> , <b>2021</b> , 81, 1  | 4-2 | 3 |
| 73 | Event shape variables measured using multijet final states in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5-4 | 3 |
| 72 | Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\ell$ final states in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1                        | 5-4 | 3 |
| 71 | Observation of the decay $B^+ \rightarrow \rho^0 K^+$ in pp collisions at $\sqrt{s}=8\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 764, 66-86                                    | 4-2 | 2 |
| 70 | Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 305   | 4-2 | 2 |
| 69 | 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> , <b>2019</b> , 2019, 1  | 5-4 | 2 |
| 68 | Measurement of the ( $\Lambda_b^0$ ) angular distribution and the ( $\Lambda_b^0$ ) polarisation in pp collisions. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5-4 | 2 |
| 67 | Measurement of CP observables in $B_{\text{d}}^0 \rightarrow \text{DK}^0$ and $B_{\text{d}}^0 \rightarrow \text{D}^0 \text{K}^0$ ( $\text{K}^0 \rightarrow \pi^0 \text{K}^0$ ) decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1     | 5-4 | 2 |

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| 66 | 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> , <b>2018</b> , 2018, 1  | 5.4 | 2 |
| 65 | Measurement of differential cross sections in the kinematic angular variable $\theta^*$ for inclusive Z boson production in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 2 |
| 64 | Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at $\sqrt{s}=7$ and 8 TeV. <i>Physical Review D</i> , <b>2016</b> , 94,  | 4.9 | 2 |
| 63 | 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> , <b>2016</b> , 2016, 1   | 5.4 | 2 |
| 62 | Search for $W^+ \rightarrow tb$ in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 2 |
| 61 | 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> , <b>2016</b> , 2016, 1  | 5.4 | 2 |
| 60 | Search for supersymmetry in events with one lepton and multiple jets exploiting the angular correlation between the lepton and the missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 780, 384-409 | 4.2 | 2 |
| 59 | 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> , <b>2019</b> , 2019, 1   | 5.4 | 2 |
| 58 | Search for excited leptons in final states in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 2 |
| 57 | Measurements of the $pp \rightarrow W\Delta$ and $pp \rightarrow Z\Delta$ cross sections and limits on anomalous quartic gauge couplings at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 2 |
| 56 | Search for new phenomena with multiple charged leptons in proton-proton collisions at ( $\sqrt{s}=13$ ) (,text {TeV}). <i>European Physical Journal C</i> , <b>2017</b> , 77, 1   | 4.2 | 2 |
| 55 | Measurement of prompt charged-particle production in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1  | 5.4 | 2 |
| 54 | Search for supersymmetry using Higgs boson to diphoton decays at ( $\sqrt{s} = 13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1   | 5.4 | 2 |
| 53 | Search for the doubly heavy ( $\Xi_{bc}^0$ ) baryon via decays to $D^0 p K^0$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 2 |
| 52 | Bose-Einstein correlations of charged hadrons in proton-proton collisions at ( $\sqrt{s} = 13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 2 |
| 51 | Study of central exclusive production in proton-proton collisions at and 13 TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 718   | 4.2 | 2 |
| 50 | 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> , <b>2020</b> , 80, 752   | 4.2 | 2 |
| 49 | Observation of the ( $B_s^0 \rightarrow D^* \mu^+ \mu^-$ ) decay. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 2 |



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| 48 | Measurement of CP observables in $B_{\mu} - fD^{(*)}K_{\mu}$ and $B_{\mu} - fD^{(*)}\pi$ decays using two-body D final states. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                                     | 5.4 | 2 |
| 47 | Measurement of the branching fraction of the $(\{B\}^0 \rightarrow \{D\}^+_{\{s\}} \{\pi\}^-)$ decay. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2 | 2 |
| 46 | 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> , <b>2019</b> , 2019, 1    | 5.4 | 2 |
| 45 | Measurement of the muon flux from 400 GeV/c protons interacting in a thick molybdenum/tungsten target. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1  | 4.2 | 2 |
| 44 | Study of $(\{\mathrm{B}\}_{\{\mathrm{s}\}}^0) - fJ/\psi + K\pi$ decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4 | 2 |
| 43 | 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> , <b>2019</b> , 79, 444                         | 4.2 | 1 |
| 42 | 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> , <b>2020</b> , 2020, 1                                  | 5.4 | 1 |
| 41 | Angular analysis of the rare decay $(\{B\}_s^0) - f\pi\pi$ . <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 1 |
| 40 | Measurement of $J/\psi$ production cross-sections in pp collisions at $(\sqrt{s}) = 5$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4 | 1 |
| 39 | Measurement of the shape of the $(\{B\}_s^0 \rightarrow \{D\}_s^+ \{\pi\}^- \{\mu\}^+ \{\nu\}_{\mu})$ differential decay rate. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1                                     | 5.4 | 1 |
| 38 | Study of the $(\{\mathrm{B}\}^+ \rightarrow \{\mathrm{J}/\psi\} \overline{\{\Lambda\}} \{\mathrm{p}\})$ decay in proton-proton collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1 | 5.4 | 1 |
| 37 | Precision measurement of the $(\{B\}_c^+)$ meson mass. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 1 |
| 36 | Observation of CP violation in two-body $(\{B\}_{\{s\}}^0)$ -meson decays to charged pions and kaons. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4 | 1 |
| 35 | Search for the rare decay $B^0 - fJ/\psi^*$ . <i>Chinese Physics C</i> , <b>2021</b> , 45, 043001  | 2.2 | 1 |
| 34 | Development and validation of HERWIG tunes from CMS underlying-event measurements. <i>European Physical Journal C</i> , <b>2021</b> , 81, 312  | 4.2 | 1 |
| 33 | Sensitivity of the SHiP experiment to dark photons decaying to a pair of charged particles. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2 | 1 |
| 32 | Search for CP violation in $(\{D\}_{\{s\}}^+ \rightarrow \{h\}^+ \{\pi\}^0)$ and $(\{D\}_{\{s\}}^+ \rightarrow \{h\}^+ \{\eta\})$ decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                          | 5.4 | 1 |
| 31 | Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 969   | 4.2 | 1 |

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| 30 | Measurement of differential ( $\overline{b}$ )- and ( $\overline{c}$ )-dijet cross-sections in the forward region of pp collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                               | 5.4 | 1 |
| 29 | Connection between diphoton and triboson channels in new physics searches. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 787, 23-29  | 4.2 | 1 |
| 28 | 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> , <b>2019</b> , 79, 773   | 4.2 | 0 |
| 27 | Search for the radiative $\Xi_b^- \rightarrow \Xi_b^- \gamma$ decay. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1   | 5.4 | 0 |
| 26 | Measurement of the W boson mass. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1   | 5.4 | 0 |
| 25 | Measurement of $\Xi(3872)$ production in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1  | 5.4 | 0 |
| 24 | Measurement of single-diffractive dijet production in proton-proton collisions at with the CMS and TOTEM experiments. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1164  | 4.2 | 0 |
| 23 | First measurement of the (CIP)-violating phase in $(\overline{B}^0 \rightarrow J/\psi) \rightarrow (e^+ e^-)(\phi)$ decays. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2 | 0 |
| 22 | Observation of a ( $\overline{\Lambda}_b^0$ ) $\overline{\Lambda}_b^0$ production asymmetry in proton-proton collisions at ( $\sqrt{s}$ ) = 7 and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                                     | 5.4 | 0 |
| 21 | Measurement of the CKM angle $\Delta$ and ( $B_s^0 \rightarrow D_s^{\pm} \pi^{\mp} \pi^{\pm}$ ) mixing frequency with ( $B_s^0 \rightarrow D_s^{\pm} \pi^{\mp} \pi^{\pm}$ ) decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1          | 5.4 | 0 |
| 20 | Observation of the decay ( $\Lambda_b^0 \rightarrow p \pi^-$ ) $\Lambda_b^0$ . <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 0 |
| 19 | Searches for 25 rare and forbidden decays of $D^+$ and ( $D_s^+$ ) mesons. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 0 |
| 18 | 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> , <b>2020</b> , 2020, 1                                       | 5.4 | 0 |
| 17 | Measurement of the CKM angle $\Delta$ in $B_{\mu}^0 \rightarrow D_{\mu}^{\pm} \pi^{\mp}$ and $B_{\mu}^0 \rightarrow D_{\mu}^{\pm} \pi^{\pm}$ decays with $D \rightarrow (K_S^0) \pi^{\pm}$ . <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1 | 5.4 | 0 |
| 16 | Search for the doubly charmed baryon $\Xi_{cc}$ . <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2021</b> , 64, 1   | 3.6 | 0 |
| 15 | Searches for new physics at SND@LHC. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1   | 5.4 | 0 |
| 14 | Searches for rare $B_s^0$ and $B_0$ decays into four muons. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1  | 5.4 | 0 |
| 13 | Simultaneous determination of CKM angle $\Delta$ and charm mixing parameters. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4 | 0 |

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| 10 | Search for the decay $B_0 \rightarrow \mathbb{B}^0 \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1   | 5-4 | ○ |
| 9  | 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> , <b>2018</b> , 2018, 1                     | 5-4 |   |
| 8  | Mechanical stability of the CMS strip tracker measured with a laser alignment system. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P04023-P04023   | 1   |   |
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| 6  | Study of $B_{\text{c}}^+$ decays to charmonia and three light hadrons. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1  | 5-4 |   |
| 5  | Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s}=13$ TeV. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P05002-P05002                                 | 1   |   |
| 4  | Angular analysis of ( $B^0 \rightarrow D^{\text{ast}-} D_s^{\text{ast}+}$ ) with ( $D_s^{\text{ast}+} \rightarrow D_s^+ \gamma$ ) decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1 | 5-4 |   |
| 3  | Observation of $\Lambda_b^0 \rightarrow \mathbb{D}^+ p$ and $\Lambda_b^0 \rightarrow \mathbb{D}^{*+} p$ decays. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1                           | 5-4 |   |
| 2  | Measurement of prompt open-charm production cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1                              | 5-4 |   |
| 1  | Updated search for $B_{\text{c}}^+$ decays to two charm mesons. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5-4 |   |