

# Metin Yalvac

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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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.

463  
papers

12,207  
citations

52  
h-index

87  
g-index

489  
ext. papers

14,298  
ext. citations

5  
avg, IF

0.97  
L-index

| #   | Paper   | IF  | Citations |
|-----|---|-----|-----------|
| 463 | Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1                          | 5.4 | 0         |
| 462 | Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1                                  | 5.4 | 1         |
| 461 | Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at .. <i>European Physical Journal C</i> , <b>2022</b> , 82, 153  | 4.2 | 0         |
| 460 | Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1  | 5.4 |           |
| 459 | Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at .. <i>European Physical Journal C</i> , <b>2022</b> , 82, 290  | 4.2 | 0         |
| 458 | Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1                                     | 5.4 | 0         |
| 457 | Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1  | 5.4 | 0         |
| 456 | Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1   | 5.4 | 0         |
| 455 | Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1   | 5.4 | 0         |
| 454 | Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1  | 5.4 | 0         |
| 453 | Measurement of the inclusive $\overline{t}t$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1   | 5.4 |           |
| 452 | Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 970  | 4.2 | 3         |
| 451 | Measurements of production cross sections and constraints on anomalous triple gauge couplings at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 200  | 4.2 | 5         |
| 450 | Development and validation of HERWIG7 tunes from CMS underlying-event measurements. <i>European Physical Journal C</i> , <b>2021</b> , 81, 312  | 4.2 | 1         |
| 449 | Angular analysis of the decay $B^+ \rightarrow \mu^+ \nu_\mu \tau^+ \nu_\tau$ in proton-proton collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1  | 5.4 | 2         |
| 448 | Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 378                                     | 4.2 | 5         |
| 447 | Measurements of the differential cross sections of the production of Z + jets and $\bar{\nu}_\tau$ jets and of Z boson emission collinear with a jet in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1 | 5.4 |           |

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| 446 | Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 488  | 4.2 | 5  |
| 445 | Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 3  |
| 444 | Search for the lepton flavor violating decay $\mu \rightarrow e \gamma$ in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 1  |
| 443 | Search for dark matter produced in association with a leptonically decaying boson in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 13   | 4.2 | 7  |
| 442 | Search for top squark pair production using dilepton final states in collision data collected at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 3  | 4.2 | 5  |
| 441 | MUSiC: a model-unspecific search for new physics in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 629   | 4.2 | 4  |
| 440 | Search for a heavy vector resonance decaying to a $W$ boson and a Higgs boson in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 688  | 4.2 | 0  |
| 439 | Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 723   | 4.2 | 3  |
| 438 | Measurements of angular distance and momentum ratio distributions in three-jet and + two-jet final states in collisions. <i>European Physical Journal C</i> , <b>2021</b> , 81, 852   | 4.2 | 0  |
| 437 | Precision luminosity measurement in proton-proton collisions at in 2015 and 2016 at CMS. <i>European Physical Journal C</i> , <b>2021</b> , 81, 800   | 4.2 | 7  |
| 436 | Measurement of the inclusive and differential $t\bar{t}$ cross sections in the single-lepton channel and EFT interpretation at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1   | 5.4 | 0  |
| 435 | 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 |
| 434 | Search for decays of the 125 GeV Higgs boson into a Z boson and a $B \rightarrow \mu \nu$ meson. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 2  |
| 433 | Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 12 |
| 432 | Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 20 |
| 431 | Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 8  |
| 430 | Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 1  |
| 429 | Search for new neutral Higgs bosons through the $(\text{H}) \rightarrow \text{ZA} \rightarrow \ell\ell^+ \ell\ell^- \overline{\text{b}}\text{b}$ process in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1 | 5.4 | 10 |

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| 428 | 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  |
| 427 | 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  |
| 426 | Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV and constraints on anomalous quartic couplings. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1     | 5.4 | 7  |
| 425 | Determination of the strong coupling constant $\alpha_S(m_Z)$ from measurements of inclusive $W\bar{W}$ and Z boson production cross sections in proton-proton collisions at ( $\sqrt{s}$ ) = 7 and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1 | 5.4 | 2  |
| 424 | Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1                                | 5.4 | 3  |
| 423 | 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  |
| 422 | 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  |
| 421 | Evidence for ( $W$ ) production from double-parton interactions in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1   | 4.2 | 4  |
| 420 | 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 |
| 419 | 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 |
| 418 | 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 |
| 417 | Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\mu\bar{\mu}$ and $e\bar{e}$ in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 6  |
| 416 | 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  |
| 415 | 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 |
| 414 | Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 7  |
| 413 | A multi-dimensional search for new heavy resonances decaying to boosted $W$ , $Z$ , 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 |
| 412 | 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  |
| 411 | Measurement of differential cross sections and charge ratios for $s$ -channel single top quark production in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 370   | 4.2 | 4  |

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| 410 | Measurement of $(\bar{t}t)$ normalised multi-differential cross sections in $(pp)$ collisions at $(\sqrt{s}=13, \text{TeV})$ , and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1 | 4.2 | 13 |
| 409 | Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $(\sqrt{s}) = 13 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 16 |
| 408 | Dependence of inclusive jet production on the anti-kT distance parameter in pp collisions at $(\sqrt{s}) = 13 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 3  |
| 407 | Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at $(\sqrt{s}) = 13 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 1  |
| 406 | Investigation into the event-activity dependence of $\langle n \rangle$ relative production in proton-proton collisions at $(\sqrt{s}) = 7 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 3  |
| 405 | Bose-Einstein correlations of charged hadrons in proton-proton collisions at $(\sqrt{s}) = 13 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 2  |
| 404 | 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  |
| 403 | 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  |
| 402 | 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 $(\sqrt{s}) = 13 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 5  |
| 401 | Measurement of properties of $(B_{\text{u}}^0 \rightarrow \mu^+ \mu^-)$ decays and search for $B_0 \rightarrow \mu^+ \mu^-$ with the CMS experiment. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 10 |
| 400 | Search for a light pseudoscalar Higgs boson in the boosted $\tau$ final state in proton-proton collisions at $(\sqrt{s}) = 13 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 9  |
| 399 | Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P02027-P02027  | 1   | 11 |
| 398 | Measurement of the cross section for $(\bar{t}t)$ production with additional jets and b jets in pp collisions at $(\sqrt{s}) = 13 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1  | 5.4 | 1  |
| 397 | Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $(\sqrt{s}) = 13 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 13 |
| 396 | Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $(\sqrt{s}) = 13 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1   | 5.4 | 18 |
| 395 | Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13 \text{ TeV}$ . <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P05002-P05002  | 1   |    |
| 394 | Study of central exclusive production in proton-proton collisions at and 13TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 718  | 4.2 | 2  |
| 393 | 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  |

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| 392 | 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   |
| 391 | 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   |
| 390 | 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   |
| 389 | Search for charged Higgs bosons in the $H_{\pm} \rightarrow \tau\mu$ 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  |
| 388 | 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   |
| 387 | 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   |
| 386 | Search for a low-mass $\tilde{\chi}$ 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   |
| 385 | 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   |
| 384 | Search for the pair production of light top squarks in the $e\tilde{\chi}$ 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   |
| 383 | Combined measurements of Higgs boson couplings in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 421  | 4.2 | 153 |
| 382 | Search for supersymmetry in events with a photon, jets, $n$ -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   |
| 381 | Measurements of the pp $\rightarrow WZ$ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1         | 5.4 | 10  |
| 380 | 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  |
| 379 | 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   |
| 378 | Search for nonresonant Higgs boson pair production in the $(\overline{b}b)(\overline{b}b)$ final state at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1   | 5.4 | 4   |
| 377 | 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  |
| 376 | 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   |
| 375 | 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  |

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| 374 | 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  |
| 373 | 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  |
| 372 | 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  |
| 371 | 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  |
| 370 | Measurements of ( $\overline{\text{t}}\text{t}$ ) differential cross sections in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV using events containing two leptons. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 15 |
| 369 | Search for ( $\overline{\text{t}}\text{t}\text{H}$ ) production in the ( $\text{H}\rightarrow\overline{\text{b}}\text{b}$ ) decay channel with leptonic ( $\overline{\text{t}}\text{t}$ ) decays in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1 | 5.4 | 17 |
| 368 | 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  |
| 367 | 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  |
| 366 | Search for resonant ( $\overline{\text{t}}\text{t}$ ) production in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1   | 5.4 | 13 |
| 365 | 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  |
| 364 | 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  |
| 363 | 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 |
| 362 | 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  |
| 361 | Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two $\Delta$ 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 |
| 360 | 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  |
| 359 | 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  |
| 358 | 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  |
| 357 | 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  |

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| 356 | 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  |
| 355 | 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 |
| 354 | 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  |
| 353 | Measurement of exclusive photoproduction in ultraperipheral pPb collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 702   | 4.2 | 13 |
| 352 | Measurement of exclusive photoproduction from protons in Pb collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 277   | 4.2 | 19 |
| 351 | 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 |
| 350 | 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  |
| 349 | 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 |
| 348 | 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  |
| 347 | 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  |
| 346 | Measurements of differential Z boson production cross sections in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 11 |
| 345 | Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1                      | 5.4 | 9  |
| 344 | Study of the ( $\mathbf{B}^+ \rightarrow \mathbf{J}/\psi \overline{\Lambda} \mathbf{p}$ ) decay in proton-proton collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1                  | 5.4 | 1  |
| 343 | Search for resonances decaying to a pair of Higgs bosons in the $\mathbf{b}(\overline{\mathbf{q}})$ 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  |
| 342 | 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  |
| 341 | Measurement of the differential Drell-Yan cross section in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1   | 5.4 | 6  |
| 340 | 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  |
| 339 | 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  |



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| 338 | 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 |
| 337 | 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  |
| 336 | 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  |
| 335 | 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  |
| 334 | Search for resonant and nonresonant Higgs boson pair production in the ( $\overline{\mathrm{b}}\mathrm{b}$ ) 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 |
| 333 | 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 |
| 332 | 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 |
| 331 | 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 |
| 330 | Measurement of the inclusive ( $\overline{\mathrm{t}}\mathrm{t}$ ) 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  |
| 329 | 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 |    |
| 328 | 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  |
| 327 | 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  |
| 326 | 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 |
| 325 | 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 |
| 324 | Measurement of differential cross sections in the kinematic angular variable $\phi^*$ 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  |
| 323 | Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at ( $\sqrt{s_{\mathrm{NN}}}=5.02$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 8  |
| 322 | Measurement of normalized differential ( $\overline{\mathrm{t}}\mathrm{t}$ ) 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 |
| 321 | 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 |

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| 320 | Search for ZZ resonances in the 2 $\mu\mu$ final state in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5-4 | 3  |
| 319 | Jet properties in PbPb and pp collisions at ( $\sqrt{s_{\mathrm{NN}}}=5.02$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5-4 | 7  |
| 318 | 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 |
| 317 | 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 |
| 316 | Measurement of b hadron lifetimes in pp collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 457  | 4-2 | 9  |
| 315 | Measurements of the ( $\mathrm{p}\mathrm{p}\rightarrow\mathrm{Z}\mathrm{Z}$ ) production cross section and the ( $\mathrm{Z}\rightarrow 4\ell$ ) branching fraction, and constraints on anomalous triple gauge couplings at ( $\sqrt{s}=13,\text{TeV}$ ) <b>2018</b> , 78, 1 |     | 3  |
| 314 | Measurement of b hadron lifetimes in pp collisions at ( $\sqrt{s}=8$ ) ( $\text{TeV}$ ) <b>2018</b> , 78, 1  |     | 1  |
| 313 | Search for ( $\overline{\mathrm{t}}\mathrm{H}$ ) 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 |
| 312 | 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  |
| 311 | Measurement of the groomed jet mass in PbPb and pp collisions at ( $\sqrt{s_{\mathrm{NN}}}=5.02$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5-4 | 5  |
| 310 | 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  |
| 309 | 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 |
| 308 | 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 |
| 307 | Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5-4 | 6  |
| 306 | Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two $\mu$ 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 |
| 305 | 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 |
| 304 | Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5-4 | 6  |
| 303 | 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 |

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| 302 | 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 |
| 301 | 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 |
| 300 | 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 |
| 299 | 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  |
| 298 | 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 |
| 297 | 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 |
| 296 | Search for $Z\bar{\nu}$ resonances using leptonic and hadronic final states in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 11 |
| 295 | 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  |
| 294 | 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  |
| 293 | Search for supersymmetry in events with a $\bar{\nu}$ lepton pair 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 | 14 |
| 292 | Search for the decay of a Higgs boson in the $\bar{\nu}$ 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 |
| 291 | 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 |
| 290 | 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 |
| 289 | Studies of $\rho$ 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 |
| 288 | Search for a heavy resonance decaying into a Z boson and a Z or W boson in $Z\bar{q}$ final states at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 7  |
| 287 | 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  |
| 286 | Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\bar{\nu}$ 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  |
| 285 | 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 |

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| 284 | 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  |
| 283 | 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 |
| 282 | 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  |
| 281 | 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 |
| 280 | 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  |
| 279 | 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 |
| 278 | Search for dark matter produced in association with a Higgs boson decaying to $\Upsilon$ or $\Upsilon$ ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 7  |
| 277 | Search for additional neutral MSSM Higgs bosons in the $\gamma\gamma$ 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 |
| 276 | 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  |
| 275 | 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 |
| 274 | Search for a heavy resonance decaying into a Z boson and a vector boson in the $(\nu\overline{\nu})$ final state. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 6  |
| 273 | 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 |
| 272 | Search for beyond the standard model Higgs bosons decaying into a $(\overline{b}b)$ pair in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 11 |
| 271 | 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 |
| 270 | 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 |
| 269 | Search for lepton flavour violating decays of the Higgs boson to $\tau\mu$ and $e\mu$ in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 19 |
| 268 | 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 |
| 267 | 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 |

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| 266 | 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 |
| 265 | 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 |
| 264 | 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 |
| 263 | 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 |
| 262 | Search for a singly produced third-generation scalar leptoquark decaying to a $\bar{\nu}$ 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  |
| 261 | 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 |
| 260 | 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 |
| 259 | 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 |
| 258 | 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 |
| 257 | 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 |
| 256 | Measurements of the $\sigma[\text{Formula: see text}]$ production cross section in lepton+jets final states in pp collisions at 8 $\sqrt{s}$ and ratio of 8 to 7 $\sqrt{s}$ cross sections. <i>European Physical Journal C</i> , <b>2017</b> , 77, 15         | 4-2 | 19 |
| 255 | Measurement of the $\sigma[\text{Formula: see text}]$ production cross section using events in the $[\text{Formula: see text}]$ final state in pp collisions at $[\text{Formula: see text}]$ . <i>European Physical Journal C</i> , <b>2017</b> , 77, 172     | 4-2 | 22 |
| 254 | 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 |
| 253 | Search for electroweak production of charginos in final states with two $\bar{\nu}$ leptons in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5-4 | 7  |
| 252 | Measurement of the production cross section of a $W$ boson in association with two b jets in pp collisions at $[\text{Formula: see text}]$ . <i>European Physical Journal C</i> , <b>2017</b> , 77, 92  | 4-2 | 7  |
| 251 | Measurement of the WZ production cross section in pp collisions at $[\text{Formula: see text}]$ and 8 $\sqrt{s}$ and search for anomalous triple gauge couplings at $[\text{Formula: see text}]$ . <i>European Physical Journal C</i> , <b>2017</b> , 77, 236 | 4-2 | 21 |
| 250 | Measurement of prompt and nonprompt $[\text{Formula: see text}]$ production in $[\text{Formula: see text}]$ and $[\text{Formula: see text}]$ collisions at $[\text{Formula: see text}]$ . <i>European Physical Journal C</i> , <b>2017</b> , 77, 269          | 4-2 | 26 |
| 249 | A search for new phenomena in pp collisions at $[\text{Formula: see text}]$ in final states with missing transverse momentum and at least one jet using the $[\text{Formula: see text}]$ variable. <i>European Physical Journal C</i> , <b>2017</b> , 77, 294 | 4-2 | 21 |

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| 248 | 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 |
| 247 | 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 |
| 246 | 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 |
| 245 | 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 |
| 244 | Charged-particle nuclear modification factors in PbPb and pPb collisions at ( $\sqrt{s_{\mathrm{N};\mathrm{N}}}=5.02$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 64 |
| 243 | Search for ( $\overline{\mathrm{t}}\mathrm{t}$ ) 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 |
| 242 | Search for associated production of dark matter with a Higgs boson decaying to ( $\overline{\mathrm{b}}\mathrm{b}$ ) or $\overline{\mathrm{t}}\mathrm{t}$ ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1     | 5.4 | 9  |
| 241 | 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 |
| 240 | 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 |
| 239 | 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  |
| 238 | Measurement of the semileptonic ( $\overline{\mathrm{t}}\mathrm{t}$ ) + $\overline{\mathrm{b}}\mathrm{b}$ 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  |
| 237 | Measurements of the pp $\rightarrow W\overline{W}$ and pp $\rightarrow Z\overline{Z}$ 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  |
| 236 | 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 |
| 235 | 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 |
| 234 | 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 |
| 233 | 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  |
| 232 | 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 |
| 231 | Suppression and azimuthal anisotropy of prompt and nonprompt [Formula: see text] production in PbPb collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2017</b> , 77, 252                               | 4.2 | 58 |

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| 230 | 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 |
| 229 | Measurement of the top quark mass using single top quark events in proton-proton collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , <b>2017</b> , 77, 354   | 4.2 | 8  |
| 228 | 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 |
| 227 | 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 |
| 226 | 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 |
| 225 | Measurement of electroweak-induced production of W with two jets in pp collisions at ( $\sqrt{s}$ =8 ) TeV and constraints on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1             | 5.4 | 9  |
| 224 | Searches for W' bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 7  |
| 223 | Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at ( $\sqrt{s}$ =13 ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 5  |
| 222 | 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 |
| 221 | 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 |
| 220 | 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 |
| 219 | 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 |
| 218 | 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 |
| 217 | 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 |
| 216 | 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  |
| 215 | 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 |
| 214 | 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  |
| 213 | 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 |

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| 212 | 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 |
| 211 | 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 |
| 210 | 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 |
| 209 | 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 |
| 208 | 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 |
| 207 | Search for new phenomena with multiple charged leptons in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>European Physical Journal C</i> , <b>2017</b> , 77, 1   | 4.2 | 2  |
| 206 | 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 |
| 205 | Search for high-mass Z resonances in $e^+e^-$ and $q\bar{q}$ 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  |
| 204 | Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying leptons and two jets in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1    | 5.4 | 18 |
| 203 | Search for CP violation in ( $\overline{t}t$ ) 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  |
| 202 | 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  |
| 201 | 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  |
| 200 | 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 |
| 199 | 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 |
| 198 | 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 |
| 197 | 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 |
| 196 | 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 |
| 195 | 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  |



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| 194 | 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  |
| 193 | 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  |
| 192 | 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 |
| 191 | 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 |
| 190 | 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 |
| 189 | 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 |
| 188 | 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  |
| 187 | Evidence for exclusive $\bar{t}W + W\bar{t}$ 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 |
| 186 | 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  |
| 185 | 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 |
| 184 | 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  |
| 183 | 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 |
| 182 | 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  |
| 181 | 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 |
| 180 | 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 |
| 179 | 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 |
| 178 | Search for $W^? \rightarrow b\bar{b}$ in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5-4 | 2  |
| 177 | Correlations between jets and charged particles in PbPb and pp collisions at ( $\sqrt{s_{\text{NN}}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5-4 | 21 |

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| 176 | 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   |
| 175 | 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  |
| 174 | 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  |
| 173 | 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 |
| 172 | Search for massive WH resonances decaying into the [Formula: see text] final state at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 237  | 4.2 | 19  |
| 171 | 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  |
| 170 | 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   |
| 169 | Search for heavy Majorana neutrinos in $e\bar{e}\mu\bar{\mu}$ jets and $e\bar{e}\tau\bar{\tau}$ 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  |
| 168 | Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\tau\tau$ leptons in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1 | 5.4 | 16  |
| 167 | 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  |
| 166 | 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   |
| 165 | Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at ( $\sqrt{s_{\mathrm{N};\mathrm{N}}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1                          | 5.4 | 13  |
| 164 | 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  |
| 163 | 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  |
| 162 | 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  |
| 161 | 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  |
| 160 | Search for lepton flavour violating decays of heavy resonances and quantum black holes to an [Formula: see text] pair in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 317  | 4.2 | 9   |
| 159 | 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   |

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| 158 | 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  |
| 157 | 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  |
| 156 | Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 6   |
| 155 | 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  |
| 154 | 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  |
| 153 | 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  |
| 152 | Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 147   | 4.2 | 50  |
| 151 | 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  |
| 150 | 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  |
| 149 | Measurement of the ratio of the production cross sections times branching fractions of $B \rightarrow c \bar{c} \bar{c} \bar{c}$ and $B \rightarrow c \bar{c} \bar{c} \bar{c}$ and $(\mathrm{mathcal{B}}\left(\mathrm{mathcal{B}} \rightarrow \mathrm{mathcal{C}}\right)^{\mathrm{pm}} \rightarrow \mathrm{mathcal{J}} / \psi \left\{\pi\right\}^{\mathrm{pm}} \left\{\pi\right\}^{\mathrm{pm}} \left\{\pi\right\}^{\mathrm{mp}}\right) / \mathrm{mathcal{B}}\left(\mathrm{mathcal{B}} \rightarrow \mathrm{mathcal{C}}\right)^{\mathrm{pm}} \rightarrow \mathrm{mathcal{J}} / \psi \left\{\pi\right\}^{\mathrm{pm}}\right)$ in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1 | 5.4 | 13  |
| 148 | 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  |
| 147 | Study of Z production in PbPb and pp collisions at ( $\sqrt{s_{\mathrm{NN}}}=2.76$ ) TeV in the dimuon and dielectron decay channels. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 18  |
| 146 | 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  |
| 145 | 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   |
| 144 | Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 235   | 4.2 | 250 |
| 143 | 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  |
| 142 | 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   |
| 141 | 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  |

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| 140 | 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  |
| 139 | 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  |
| 138 | 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  |
| 137 | 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  |
| 136 | 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  |
| 135 | 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  |
| 134 | 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  |
| 133 | Search for a light charged Higgs boson decaying to $(\overline{\text{charm}})$ in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-37  | 5-4 | 33  |
| 132 | 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  |
| 131 | Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5-4 |     |
| 130 | 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  |
| 129 | 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 |
| 128 | Measurement of the $Z/\bar{\nu}$ 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   |
| 127 | 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  |
| 126 | Measurement of the differential cross section for top quark pair production in pp collisions at 8 TeV. <i>European Physical Journal C</i> , <b>2015</b> , 75, 542  | 4-2 | 98  |
| 125 | Measurements of the $Z/\bar{\nu}$ production cross sections in the $t\bar{t}$ channel in proton-proton collisions at 8 TeV and combined constraints on triple gauge couplings. <i>European Physical Journal C</i> , <b>2015</b> , 75, 511    | 4-2 | 25  |
| 124 | Comparison of the $Z/\bar{\nu} + \text{jets}$ to $t\bar{t}$ jets cross sections in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5-4 | 5   |
| 123 | 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  |

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| 122 | 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  |
| 121 | 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  |
| 120 | Measurement of associated W + charm production in pp collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5-4 | 37  |
| 119 | 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  |
| 118 | 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  |
| 117 | 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  |
| 116 | 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 |
| 115 | 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  |
| 114 | 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  |
| 113 | Event activity dependence of ( $\Upsilon$ )(nS) production in ( $\sqrt{s_{NN}}$ ) = 5.02 TeV pPb and ( $\sqrt{s}$ ) = 2.76 TeV pp collisions. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1               | 5-4 | 42  |
| 112 | . <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5-4 | 18  |
| 111 | Evidence for the 125 GeV Higgs boson decaying to a pair of $\Upsilon$ leptons. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5-4 | 101 |
| 110 | Search for $W^? \rightarrow b$ 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  |
| 109 | Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                    | 5-4 | 15  |
| 108 | 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  |
| 107 | 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  |
| 106 | Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                               | 5-4 | 21  |
| 105 | Search for pair production of excited top quarks in the lepton + jets final state. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5-4 | 3   |

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| 104 | 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  |
| 103 | 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  |
| 102 | Measurement of the top-quark mass in all-jets [Formula: see text] events in pp collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2758                                 | 4-2 | 21  |
| 101 | Study of the production of charged pions, kaons, and protons in pPb collisions at [Formula: see text]5.02[Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2847                         | 4-2 | 71  |
| 100 | Probing color coherence effects in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2901  | 4-2 | 13  |
| 99  | 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 |
| 98  | 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  |
| 97  | 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  |
| 96  | 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  |
| 95  | 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 |
| 94  | Measurement of prompt J/ψ 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  |
| 93  | 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 |
| 92  | 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  |
| 91  | 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   |
| 90  | Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                      | 5-4 | 15  |
| 89  | 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  |
| 88  | 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 |
| 87  | Measurement of the $(\overline{t}t)$ production cross section in the dilepton channel in pp collisions at $(\sqrt{s}) = 8$ TeV <b>2014</b> , 2014, 1  |     | 3   |

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| 86 | Search for the associated production of the Higgs boson with a top-quark pair <b>2014</b> , 2014, 1   |     | 6   |
| 85 | Search for microscopic black holes in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 38  |
| 84 | Measurement of the ( $\Lambda_{\text{b}}^0$ ) lifetime in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 14  |
| 83 | Searches for long-lived charged particles in pp collisions at ( $\sqrt{s}$ ) =7 and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 96  |
| 82 | Study of exclusive two-photon production of $W+W$ in pp collisions at ( $\sqrt{s}=7$ ) TeV and constraints on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 56  |
| 81 | Observation of a new boson with mass near 125 GeV in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5-4 | 261 |
| 80 | Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 35  |
| 79 | Studies of jet mass in dijet and $W/Z$ + jet events. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 39  |
| 78 | Measurement of the ( $\overline{\text{t}}\text{t}$ ) production cross section in the all-jet final state in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 14  |
| 77 | Measurement of the $X(3872)$ production cross section via decays to $J/\psi \eta$ in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5-4 | 44  |
| 76 | Study of the underlying event at forward rapidity in pp collisions at ( $\sqrt{s}=0.9, 2.76, \text{and } 7$ TeV). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5-4 | 39  |
| 75 | Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 15  |
| 74 | Search for new physics in events with same-sign dileptons and b jets in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 33  |
| 73 | Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 30  |
| 72 | Search for exotic resonances decaying into $WZ/ZZ$ in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 16  |
| 71 | Search for supersymmetry in pp collisions at [Formula: see text] TeV in events with a single lepton, jets, and missing transverse momentum. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2404   | 4-2 | 15  |
| 70 | Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2469   | 4-2 | 49  |
| 69 | Measurement of the production cross section for ( $Z\gamma$ to $\nu \overline{\nu}$ ) in pp collisions at ( $\sqrt{s} = 7$ ) TeV and limits on $ZZ$ and $Z$ triple gauge boson couplings. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1 | 5-4 | 12  |

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| 68 | Measurement of the W-boson helicity in top-quark decays from ( $\overline{\text{t}}$ ) production in lepton+jets events in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 25  |
| 67 | Search for supersymmetry in hadronic final states with missing transverse energy using the variables and b-quark multiplicity in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2568  | 4.2 | 82  |
| 66 | Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1            | 5.4 | 10  |
| 65 | Measurement of masses in the [Formula: see text] system by kinematic endpoints in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2494   | 4.2 | 37  |
| 64 | Search for physics beyond the standard model in events with leptons, jets, and large transverse momentum imbalance in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2493   | 4.2 | 10  |
| 63 | Measurement of the ( $\bar{\text{t}}$ ) production cross section in the $\text{t}\bar{\text{t}}$ jets channel in pp collisions at ( $\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1   | 4.2 | 21  |
| 62 | Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2674  | 4.2 | 24  |
| 61 | Search for top-squark pair production in the single-lepton final state in pp collisions at ( $\sqrt{s}=8$ TeV). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1  | 4.2 | 162 |
| 60 | Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 43  |
| 59 | Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 26  |
| 58 | Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at ( $\sqrt{s} = 7$ TeV) and first determination of the strong coupling constant in the TeV range. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1 | 4.2 | 50  |
| 57 | Measurement of the $W+W\bar{L}$ cross section in pp collisions at ( $\sqrt{s} = 7$ TeV) and limits on anomalous $WW\bar{L}$ and $WWZ$ couplings. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1   | 4.2 | 56  |
| 56 | Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 37  |
| 55 | Measurement of the ZZ production cross section and search for anomalous couplings in $2\text{t}\bar{\text{t}}$ final states in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 39  |
| 54 | Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or $\text{t}\bar{\text{t}}$ b-quark jets in 7 TeV pp collisions using the variable $\text{t}\bar{\text{t}}$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1                | 5.4 | 29  |
| 53 | Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 12  |
| 52 | Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2283   | 4.2 | 45  |
| 51 | Measurement of differential top-quark-pair production cross sections in pp collisions at ( $\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1  | 4.2 | 102 |



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| 50 | Search for new physics in events with same-sign dileptons and b jets in pp collisions at ( $\sqrt{s}=8$ ) TeV <b>2013</b> , 2013, 1   |     | 2   |
| 49 | Study of high-p T charged particle suppression in PbPb compared to pp collisions at ( $\sqrt{s_{\mathrm{NN}}}=2.76\sim\mathrm{TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1                 | 4-2 | 316 |
| 48 | Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at ( $\sqrt{s_{\mathrm{NN}}}=2.76\mathrm{TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1 | 4-2 | 158 |
| 47 | Jet production rates in association with W and Z bosons in pp collisions at ( $\sqrt{s}=7\{\mathrm{TeV}\}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                                     | 5-4 | 37  |
| 46 | Exclusive $\mu\mu$ production in proton-proton collisions at ( $\sqrt{s}=\{7\}$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 45  |
| 45 | Measurement of the production cross section for pairs of isolated photons in pp collisions at ( $\sqrt{s}=7\{\mathrm{TeV}\}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                   | 5-4 | 20  |
| 44 | Inclusive b-jet production in pp collisions at ( $\sqrt{s}=7\{\mathrm{TeV}\}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 30  |
| 43 | Search for quark compositeness in dijet angular distributions from pp collisions at ( $\sqrt{s}=7\{\}$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                                     | 5-4 | 12  |
| 42 | Suppression of non-prompt $J/\psi$ and ( $\Upsilon$ )(1S) in PbPb collisions at ( $\sqrt{s_{\mathrm{NN}}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                            | 5-4 | 184 |
| 41 | Search for heavy bottom-like quarks in 4.9 fb of pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 44  |
| 40 | Measurement of the cross section for production of ( $\overline{b}X$ ) decaying to muons in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                | 5-4 | 3   |
| 39 | Measurement of the $Z/\mu + b$ -jet cross section in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 24  |
| 38 | Search for anomalous production of multilepton events in pp collisions at ( $\sqrt{s}=7,\mathrm{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 65  |
| 37 | Search for a light charged Higgs boson in top quark decays in pp collisions at ( $\sqrt{s}=7\{\mathrm{TeV}\}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                                  | 5-4 | 101 |
| 36 | Search for leptonic decays of $W^\pm$ bosons in pp collisions at ( $\sqrt{s}=\{7\}$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 43  |
| 35 | Search for stopped long-lived particles produced in pp collisions at ( $\sqrt{s}=\{\mathrm{7TeV}\}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 17  |
| 34 | Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                             | 5-4 | 24  |
| 33 | Measurement of the underlying event activity in pp collisions at ( $\sqrt{s}=0.9$ ) and 7 TeV with the novel jet-area/median approach. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1            | 5-4 | 11  |

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| 32 | Search for anomalous ( $\overline{t}t$ ) production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 57  |
| 31 | Search for dark matter and large extra dimensions in monojet events in pp collisions at ( $\sqrt{s} = \{7\}$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 155 |
| 30 | Search for a fermiophobic Higgs boson in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 13  |
| 29 | Search for supersymmetry in hadronic final states using M T2 in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 92  |
| 28 | Measurement of jet fragmentation into charged particles in pp and PbPb collisions at ( $\sqrt{s_{\mathrm{NN}}}} = 2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 73  |
| 27 | Measurement of the ( $\overline{t}t$ ) production cross section in the dilepton channel in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 64  |
| 26 | Search for exclusive or semi-exclusive $\mu\mu$ production and observation of exclusive and semi-exclusive $e+e\mu$ production in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1 | 5-4 | 45  |
| 25 | Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 6   |
| 24 | Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                                     | 5-4 | 41  |
| 23 | Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 10  |
| 22 | Search for resonant ( $\overline{t}t$ ) production in lepton+jets events in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 25  |
| 21 | Observation of Z decays to four leptons with the CMS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 30  |
| 20 | Measurement of the single-top-quark t-channel cross section in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 70  |
| 19 | Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at ( $\sqrt{s}=7$ ;TeV ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 12  |
| 18 | Measurement of the top-quark mass in ( $\overline{t}t$ ) events with lepton+jets final states in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                                  | 5-4 | 30  |
| 17 | Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at ( $\sqrt{s} = 7\sim\text{TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4-2 | 30  |
| 16 | Study of the inclusive production of charged pions, kaons, and protons in pp collisions at ( $\sqrt{s} = 0.9, 2.76, \text{ and } 7\sim\text{TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1                          | 4-2 | 133 |
| 15 | A search for a doubly-charged Higgs boson in pp collisions at ( $\sqrt{s} = 7\text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4-2 | 111 |

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| 14 | Measurement of the top-quark mass in $(\overline{\text{t}}\text{t})$ events with dilepton final states in pp collisions at $(\sqrt{s}=7 \text{ TeV})$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 1                                      | 4.2 | 36 |
| 13 | Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at $(\sqrt{s} = 7 \text{ TeV})$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 1                    | 4.2 | 17 |
| 12 | Measurement of the relative prompt production rate of $\text{W}$ and $\text{Z}$ bosons in pp collisions at $(\sqrt{s}=7 \text{ TeV})$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 2251   | 4.2 | 46 |
| 11 | Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at $(\sqrt{s}=7 \text{ TeV})$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 1                             | 4.2 | 11 |
| 10 | $\text{J}/\psi$ and $\psi(2\text{S})$ production in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 69 |
| 9  | Search for the standard model Higgs boson in the $\text{H} \rightarrow \text{ZZ} \rightarrow 4\ell$ channel in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                          | 5.4 | 24 |
| 8  | Search for the standard model Higgs boson in the $\text{H} \rightarrow \text{ZZ} \rightarrow 2\ell 2\tau$ decay channel in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1              | 5.4 | 11 |
| 7  | Search for $(\text{B})_{\text{c}}^0 \rightarrow \text{B}^0 \text{ and } \text{B}^0 \rightarrow \text{B}^0 \text{ decays}$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 52 |
| 6  | Search for a Higgs boson in the decay channel $\text{H} \rightarrow \text{ZZ}^* \rightarrow \text{q}(\overline{\text{q}}) \text{bb}$ in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1 | 5.4 | 21 |
| 5  | Search for microscopic black holes in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 34 |
| 4  | Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1    | 5.4 | 13 |
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