

# Shubhanshu Chauhan

## List of Publications by Year in descending order

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Version: 2024-02-01

266  
papers

12,556  
citations

25034  
57  
h-index

36028  
97  
g-index

266  
all docs

266  
docs citations

266  
times ranked

8683  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Search for long-lived particles decaying to leptons with large impact parameter in proton–proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2022, 82, 153.  | 3.9 | 14        |
| 2  | Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton–proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2022, 82, 290.                                      | 3.9 | 18        |
| 3  | Search for dark matter produced in association with a leptonically decaying $\mathbf{Z}$ boson in proton–proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 13.                                  | 3.9 | 33        |
| 4  | Search for top squark pair production using dilepton final states in $\text{pp}$ collision data collected at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 3.  | 3.9 | 33        |
| 5  | Measurements of $\text{pp} \rightarrow \text{Z} \text{Z}$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 200.                    | 3.9 | 24        |
| 6  | Development and validation of HERWIG <sup>7</sup> tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.   | 3.9 | 12        |
| 7  | Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 378. | 3.9 | 40        |
| 8  | Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton–proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 488.                                    | 3.9 | 35        |
| 9  | MUSiC: a model-unspecific search for new physics in proton–proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 629.   | 3.9 | 18        |
| 10 | Search for a heavy vector resonance decaying to a $\mathbf{Z} \gamma$ boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 688.                                  | 3.9 | 9         |
| 11 | Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton–proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 723.                 | 3.9 | 19        |
| 12 | Measurements of angular distance and momentum ratio distributions in three-jet and $\text{Z} \gamma$ + two-jet final states in $\text{pp}$ collisions. European Physical Journal C, 2021, 81, 852.  | 3.9 | 2         |
| 13 | Precision luminosity measurement in proton–proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.  | 3.9 | 123       |
| 14 | Combined searches for the production of supersymmetric top quark partners in proton–proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 970.  | 3.9 | 18        |
| 15 | A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.  | 2.9 | 21        |
| 16 | Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13 \text{ TeV}$ . Journal of Instrumentation, 2020, 15, P05002-P05002.   | 1.2 | 3         |
| 17 | Study of central exclusive "Equation missing" $\rightarrow$ production in proton-proton collisions at $\sqrt{s} = 5.02$ and $13 \text{ TeV}$ . European Physical Journal C, 2020, 80, 718.  | 3.9 | 7         |
| 18 | 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 $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2020, 80, 752.           | 3.9 | 23        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.  | 1.2 | 84        |
| 20 | Search for direct pair production of supersymmetric partners to the $\tau$ lepton in proton-proton collisions at $\sqrt{s}=13$ , ext {TeV} \$. European Physical Journal C, 2020, 80, 189.   | 3.9 | 22        |
| 21 | Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in $\mathrm{PbPb}$ collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02, ext {TeV} \$. European Physical Journal C, 2020, 80, 534.   | 3.9 | 14        |
| 22 | Measurement of electroweak production of a $W$ boson in association with two jets in proton-proton collisions at $\sqrt{s}=13$ , ext {TeV} \$. European Physical Journal C, 2020, 80, 43.  | 3.9 | 11        |
| 23 | Evidence for $W$ production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV} \$. European Physical Journal C, 2020, 80, 1.   | 3.9 | 10        |
| 24 | Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s}=13$ ext {TeV} \$. European Physical Journal C, 2020, 80, 75.  | 3.9 | 78        |
| 25 | Searches for physics beyond the standard model with the $M_{T2}$ variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13$ , ext {TeV} \$. European Physical Journal C, 2020, 80, 3.   | 3.9 | 70        |
| 26 | Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.  | 3.9 | 198       |
| 27 | A multi-dimensional search for new heavy resonances decaying to boosted $W$ or $Z$ boson pairs in the dijet final state at $\sqrt{s}=13$ ext {TeV} \$. European Physical Journal C, 2020, 80, 237.   | 3.9 | 31        |
| 28 | Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8$ , ext {TeV} \$ with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.   | 3.9 | 5         |
| 29 | Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13$ ext {TeV} \$. European Physical Journal C, 2020, 80, 370.  | 3.9 | 22        |
| 30 | Measurement of $t\bar{t}$ normalised multi-differential cross sections in $pp$ collisions at $\sqrt{s}=13$ , ext {TeV} \$, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1. | 3.9 | 33        |
| 31 | 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 $\sqrt{s} = 13$ , ext {TeV} \$ s = 13 TeV. European Physical Journal C, 2019, 79, 1.   | 3.9 | 9         |
| 32 | Measurement of exclusive $\rho^0$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02$ , ext {TeV} \$. European Physical Journal C, 2019, 79, 702.  | 3.9 | 33        |
| 33 | Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13$ , ext {TeV} \$. European Physical Journal C, 2019, 79, 564.   | 3.9 | 50        |
| 34 | Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13$ , ext {TeV} \$ s = 13 TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.   | 3.9 | 40        |
| 35 | Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $pp$ collisions at $\sqrt{s}=13$ , ext {TeV} \$. European Physical Journal C, 2019, 79, 773.  | 3.9 | 8         |
| 36 | Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV} \$ s = 13 TeV. European Physical Journal C, 2019, 79, 305.  | 3.9 | 4         |

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|----|--|-----|-----------|
| 37 | Combined measurements of Higgs boson couplings in proton–proton collisions at $\sqrt{s}=13$ , $\sqrt{s}=13$ , $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 421.   | 3.9 | 355       |
| 38 | Search for supersymmetry in events with a photon, jets, $\mathcal{E}_T$ , and missing transverse momentum in proton–proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 444.  | 3.9 | 11        |
| 39 | Measurement of the $\sigma(\text{t}\bar{\text{t}})$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 368.  | 3.9 | 68        |
| 40 | Measurement of the energy density as a function of pseudorapidity in proton–proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.  | 3.9 | 12        |
| 41 | Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton–proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 280.  | 3.9 | 29        |
| 42 | Search for vector-like quarks in events with two oppositely charged leptons and jets in proton–proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 364.   | 3.9 | 48        |
| 43 | Search for single production of vector-like quarks decaying to a top quark and a $W$ boson in proton–proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 90.  | 3.9 | 34        |
| 44 | Study of the underlying event in top quark pair production in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 123.  | 3.9 | 11        |
| 45 | Search for rare decays of $Z$ and Higgs bosons to $J/\psi$ and a photon in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 94.   | 3.9 | 20        |
| 46 | Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 20.  | 3.9 | 18        |
| 47 | Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 893.   | 3.9 | 12        |
| 48 | Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 886.  | 3.9 | 16        |
| 49 | Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2018, 78, 242.   | 3.9 | 10        |
| 50 | Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s_{NN}}=5.02$ and 8.16 TeV. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 8         |
| 51 | Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\gamma\gamma$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 36        |
| 52 | Search for new physics in events with a leptonically decaying $Z$ boson and a large transverse momentum imbalance in proton–proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 291.  | 3.9 | 27        |
| 53 | Measurements of the $\sigma(\text{pp} \rightarrow \text{Z}\gamma\text{pp})$ production cross section and the $\sigma(\text{pp} \rightarrow \text{Z}\gamma\text{pp})$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 165. | 3.9 | 52        |
| 54 | Measurement of associated $Z$ + charm production in proton–proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2018, 78, 287.  | 3.9 | 16        |

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|----|---|-----|-----------|
| 55 | Measurement of the inclusive $\sigma(\overline{\text{t}}\text{t})$ cross section in pp collisions at $\sqrt{s}=5.02$ TeV using final states with at least one charged lepton. Journal of High Energy Physics, 2018, 2018, 1.                    | 4.7 | 5         |
| 56 | Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 0         |
| 57 | Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13$ $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                    | 4.7 | 5         |
| 58 | Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $s = 13$ $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                      | 4.7 | 6         |
| 59 | Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 57        |
| 60 | Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 63        |
| 61 | Measurement of differential cross sections in the kinematic angular variable $\tilde{\chi}^*$ for inclusive Z boson production in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                             | 4.7 | 4         |
| 62 | Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 12        |
| 63 | Measurement of normalized differential $\sigma(\overline{\text{t}}\text{t})$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                                     | 4.7 | 18        |
| 64 | Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $s = 8$ $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 17        |
| 65 | Search for ZZ resonances in the $2\hat{a}, 2\hat{1}/2$ final state in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 4         |
| 66 | Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 43        |
| 67 | Measurement of the top quark mass with lepton+jets final states using $\text{p} \rightarrow \text{p} + \text{p} + \text{p} + \text{p}$ collisions at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2018, 78, 891.      | 3.9 | 34        |
| 68 | Search for third-generation scalar leptoquarks decaying to a top quark and a $\text{au} \tilde{\ell}$ , lepton at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s = 13$ Te. European Physical Journal C, 2018, 78, 707.                              | 3.9 | 46        |
| 69 | Measurement of differential cross sections for $\text{ext}\{Z\}$ Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ $s = 13$ TeV. European Physical Journal C, 2018, 78, 965. | 3.9 | 39        |
| 70 | Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s = 13$ TeV. European Physical Journal C, 2018, 78, 697.   | 3.9 | 17        |
| 71 | Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\hat{1}/4$ final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                             | 4.7 | 9         |
| 72 | Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s}=13 \text{hbox}\{\text{TeV}\}$ and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.                    | 3.9 | 40        |

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|----|--|-----|-----------|
| 73 | Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 1.   | 3.9 | 9         |
| 74 | Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 13        |
| 75 | Measurement of the $\sigma(\text{Z}/\gamma \rightarrow \text{e}^+ \text{e}^-)$ cross section in pp collisions at $\sqrt{s} = 13$ TeV and validation of $\sigma(\text{Z}/\gamma \rightarrow \text{e}^+ \text{e}^-)$ . European Physical Journal C, 2018, 78, 708. | 3.9 | 10        |
| 76 | 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. Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 11        |
| 77 | Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $\text{pp}$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 701.   | 3.9 | 58        |
| 78 | Measurement of prompt and nonprompt charmonium suppression in $\text{PbPb}$ collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509.  | 3.9 | 83        |
| 79 | Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 1.   | 3.9 | 17        |
| 80 | Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 42        |
| 81 | Jet properties in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 13        |
| 82 | Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 140.  | 3.9 | 44        |
| 83 | Measurements of the $\sigma(\text{pp} \rightarrow \text{Z}\gamma\gamma)$ production cross section and the $\text{Z} \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. , 2018, 78, 1.            |     | 3         |
| 84 | Measurements of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}})$ production cross section in lepton+jets final states in pp collisions at $\sqrt{s} = 8$ TeV and ratio of 8 to 7 TeV cross sections. European Physical Journal C, 2017, 77, 15.        | 3.9 | 34        |
| 85 | Measurement of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}})$ production cross section using events in the $\text{e}^+ \text{e}^- \gamma$ final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 172.           | 3.9 | 40        |
| 86 | 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. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 54        |
| 87 | Search for electroweak production of charginos in final states with two $\tilde{\ell}$ , leptons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 11        |
| 88 | Measurement of the production cross section of a W boson in association with two b jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 92.   | 3.9 | 16        |
| 89 | Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 236.   | 3.9 | 37        |
| 90 | Measurement of prompt and nonprompt $\sigma(\text{pp} \rightarrow \text{J}/\psi \gamma)$ production in $\text{pp}$ and $\text{PbPb}$ collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.                                       | 3.9 | 53        |



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|-----|--|-----|-----------|
| 91  | A search for new phenomena in pp collisions at $\sqrt{s} = 13$ TeV in final states with missing transverse momentum and at least one jet using the $\alpha_T$ variable. European Physical Journal C, 2017, 77, 294.                                      | 3.9 | 29        |
| 92  | Search for new physics in the monophoton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 17        |
| 93  | Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459.  | 3.9 | 52        |
| 94  | Measurement of the jet mass in highly boosted $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 467.  | 3.9 | 23        |
| 95  | Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 103       |
| 96  | Search for $t\bar{t}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 22        |
| 97  | Search for associated production of dark matter with a Higgs boson decaying to $b\bar{b}$ or $\tau\bar{\tau}$ at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 14        |
| 98  | Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 48        |
| 99  | 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. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 35        |
| 100 | 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. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 13        |
| 101 | Measurement of the semileptonic $t\bar{t} \rightarrow \ell\bar{\ell} + \tau\bar{\tau}$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 11        |
| 102 | Measurements of the $pp \rightarrow \tau^+\tau^- W\ell\bar{\ell}$ and $pp \rightarrow \tau^+\tau^- Z\ell\bar{\ell}$ cross sections and limits on anomalous quartic gauge couplings at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 10        |
| 103 | Search for new phenomena with the $M_{T2}$ variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 710.   | 3.9 | 98        |
| 104 | Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 14        |
| 105 | Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 23        |
| 106 | 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. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 14        |
| 107 | Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 23        |
| 108 | Suppression and azimuthal anisotropy of prompt and nonprompt $J/\psi$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.   | 3.9 | 82        |

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|-----|---|-----|-----------|
| 109 | Searches for pair production of third-generation squarks in $\sqrt{s}=13$ TeV pp collisions. European Physical Journal C, 2017, 77, 327.  | 3.9 | 32        |
| 110 | Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 354.  | 3.9 | 23        |
| 111 | Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s}=7, 8$ , and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 95        |
| 112 | Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 22        |
| 113 | Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 845.  | 3.9 | 38        |
| 114 | Measurement of electroweak-induced production of $Wl^3$ with two jets in pp collisions at $\sqrt{s}=8$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2017, 2017, 1.           | 4.7 | 17        |
| 115 | Searches for $W\ell^2$ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 8         |
| 116 | Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 10        |
| 117 | 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. Journal of High Energy Physics, 2017, 2017, 1.                     | 4.7 | 22        |
| 118 | Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 15        |
| 119 | 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. Journal of High Energy Physics, 2017, 2017, 1.    | 4.7 | 27        |
| 120 | Search for top squark pair production in pp collisions at $\sqrt{s}=13$ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 31        |
| 121 | Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 15        |
| 122 | Measurement of the $t\bar{t}\ell\bar{\ell}$ production cross section using events with one lepton and at least one jet in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.              | 4.7 | 15        |
| 123 | Search for a heavy resonance decaying to a top quark and a vector-like top quark at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 5         |
| 124 | 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 $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 578. | 3.9 | 57        |
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| 262 | Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76 \text{ TeV}$ . Journal of High Energy Physics, 2011, 2011, 1.                                      | 4.7 | 99        |
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| 264 | Measurement of the inclusive W and Z production cross sections in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the CMS experiment. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 158       |
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| 266 | Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9 \text{ TeV}$ and $2.36 \text{ TeV}$ . Journal of High Energy Physics, 2010, 2010, 1.                                  | 4.7 | 230       |