

Raghav Kunnawalkam Elayavalli

List of Publications by Year in descending order

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145
papers

4,580
citations

101543

36
h-index

133252

59
g-index

151
all docs

151
docs citations

151
times ranked

6961
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155. | 3.9 | 499 |
| 2 | 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 |
| 3 | Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 103 |
| 4 | Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 101 |
| 5 | 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 |
| 6 | Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8, \text{ and } 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 95 |
| 7 | Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 92 |
| 8 | Measurement of the differential cross section and charge asymmetry for inclusive $p \rightarrow W^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469. | 3.9 | 83 |
| 9 | Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252. | 3.9 | 82 |
| 10 | Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 81 |
| 11 | Measurement of the W^+W^- cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401. | 3.9 | 74 |
| 12 | 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. European Physical Journal C, 2015, 75, 251. | 3.9 | 73 |
| 13 | Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 439. | 3.9 | 64 |
| 14 | 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 |
| 15 | Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 13. | 3.9 | 62 |
| 16 | Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 62 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 451. | 3.9 | 55 |
| 20 | 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 |
| 21 | Measurement of prompt and nonprompt J/ψ production in pp and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269. | 3.9 | 53 |
| 22 | 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 |
| 23 | Measurements of the $pp \rightarrow ZZ$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165. | 3.9 | 52 |
| 24 | 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 |
| 25 | Search for a light charged Higgs boson decaying to $c\bar{s}$ in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1-37. | 4.7 | 44 |
| 26 | 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 |
| 27 | 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 |
| 28 | Evidence for exclusive W^+W^- production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 42 |
| 29 | 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 |
| 30 | Measurement of the $t\bar{t}$ production cross section in the $e\bar{\nu}_e$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 41 |
| 31 | Measurement of the $t\bar{t}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 128. | 3.9 | 41 |
| 32 | 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. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 41 |
| 33 | Measurement of the $t\bar{t}$ production cross section using events in the $e\bar{\nu}_e$ final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 172. | 3.9 | 40 |
| 34 | 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 |
| 35 | Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 636. | 3.9 | 38 |
| 36 | Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 37 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | 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 |
| 38 | Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\ell\ell$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 36 |
| 39 | Search for heavy Majorana neutrinos in $e^{\pm}e^{\pm}$ jets and $e^{\pm}\ell\ell$ jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 35 |
| 40 | 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 |
| 41 | Measurement of $t\bar{t}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 379. | 3.9 | 34 |
| 42 | Measurements of the $t\bar{t}$ production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections. European Physical Journal C, 2017, 77, 15. | 3.9 | 34 |
| 43 | Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371. | 3.9 | 33 |
| 44 | 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 |
| 45 | Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 31 |
| 46 | 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 |
| 47 | Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 30 |
| 48 | Search for massive WH resonances decaying into the $b\bar{b}\ell\ell$ final state at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 237. | 3.9 | 30 |
| 49 | Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 751. | 3.9 | 30 |
| 50 | Longitudinal double-spin asymmetry for inclusive jet and dijet production in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2019, 100, . | 4.7 | 30 |
| 51 | Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2016, 76, 372. | 3.9 | 29 |
| 52 | Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 29 |
| 53 | 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 α_T variable. European Physical Journal C, 2017, 77, 294. | 3.9 | 29 |
| 54 | Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 29 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 27 |
| 56 | 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 |
| 57 | 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 |
| 58 | Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s}=2.76$ TeV. European Physical Journal C, 2016, 76, 1. | 3.9 | 26 |
| 59 | Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 325. | 3.9 | 25 |
| 60 | Observation of top quark pairs produced in association with a vector boson in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 23 |
| 61 | Measurement of the jet mass in highly boosted $\overline{t}t$ events from pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 467. | 3.9 | 23 |
| 62 | 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 |
| 63 | 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 |
| 64 | 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 |
| 65 | Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s}=8$ TeV and constraints on parton distribution functions. European Physical Journal C, 2017, 77, 746. | 3.9 | 23 |
| 66 | 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. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 23 |
| 67 | Search for $t\overline{t}$ 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 |
| 68 | 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 |
| 69 | 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 |
| 70 | Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying \tilde{l} , leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 22 |
| 71 | 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. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 21 |
| 72 | Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | 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. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 19 |
| 74 | Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\tilde{l}, \tilde{\nu}_\tau$ leptons in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 19 |
| 75 | Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 18 |
| 76 | Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 460. | 3.9 | 18 |
| 77 | Measurement of normalized differential $\overline{\sigma}(\mathrm{t}\bar{\mathrm{t}})$ 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 |
| 78 | Measurement of groomed jet substructure observables in p+p collisions at $\sqrt{s}=200$ GeV with STAR. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135846. | 4.1 | 18 |
| 79 | 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. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 17 |
| 80 | Search for new physics with the M_{T2} variable in all-jets final states produced in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 17 |
| 81 | 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 |
| 82 | Measurement of electroweak-induced production of $W\tilde{t}^3$ 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 |
| 83 | Measurements of jet charge with dijet events in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 17 |
| 84 | Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 17 |
| 85 | Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $e\mu$ pair in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 317. | 3.9 | 16 |
| 86 | Measurement of dijet azimuthal decorrelation in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 536. | 3.9 | 16 |
| 87 | Search for excited leptons in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 16 |
| 88 | 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. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 16 |
| 89 | Measurement of the production cross section of a $W\tilde{t}$ 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 |
| 90 | 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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|-----|--|-----|-----------|
| 91 | Longitudinal double-spin asymmetry for inclusive jet and dijet production in polarized proton collisions at $\sqrt{s}=200$ GeV. Physical Review D, 2021, 103, . | 4.7 | 16 |
| 92 | Measurement of top quark polarisation in t-channel single top quark production. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 15 |
| 93 | 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 |
| 94 | 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 |
| 95 | Measurement of the $t\bar{t}\hat{A}^0$ 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 |
| 96 | Search for new physics with dijet angular distributions in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 15 |
| 97 | Search for s channel single top quark production in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 14 |
| 98 | 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. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 14 |
| 99 | Search for associated production of dark matter with a Higgs boson decaying to $b\bar{b}\hat{A}^0$ or \hat{I}^0 at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 14 |
| 100 | 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 |
| 101 | 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 |
| 102 | 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. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 14 |
| 103 | Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 13 |
| 104 | Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 13 |
| 105 | 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 |
| 106 | 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 |
| 107 | Jet properties in PbPb and pp collisions at $\sqrt{s_{\mathrm{N};\mathrm{N}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 13 |
| 108 | Measurement of inclusive charged-particle jet production in Au-Au collisions at $\sqrt{s}=2.76$ GeV. Physical Review C, 2020, 102, . | 2.9 | 13 |

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|-----|--|-----|-----------|
| 109 | Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 12 |
| 110 | Phenomenological MSSM interpretation of CMS searches in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 12 |
| 111 | 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 |
| 112 | Search for electroweak production of charginos in final states with two \tilde{l} , leptons in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 11 |
| 113 | Measurement of the semileptonic $t \bar{t} \hat{A}^-$ production cross section in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 11 |
| 114 | Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at $\sqrt{s}=8$ TeV using $H \rightarrow WW$ decays. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 11 |
| 115 | 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 |
| 116 | Underlying event measurements in p+p collisions at $\sqrt{s}=200$ GeV at RHIC. Physical Review D, 2020, 101, . | 4.7 | 11 |
| 117 | Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at $\sqrt{s}=2.76$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 10 |
| 118 | Measurements of the $pp \rightarrow W \tilde{l} \tilde{l}^3$ and $pp \rightarrow Z \tilde{l} \tilde{l}^3$ 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 |
| 119 | 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 |
| 120 | Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 10 |
| 121 | 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 |
| 122 | Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e \tilde{l}^3$ final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 9 |
| 123 | Searches for $W \rightarrow t \bar{b}$ 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 |
| 124 | Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s_{\text{NN}}}=5.02$ and 8.16 TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 8 |
| 125 | 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. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 8 |
| 126 | Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 7 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Search for high-mass $Z\hat{1}^3$ resonances in $e+e\hat{1}^3$ and $\hat{1}^{3/4} + \hat{1}^{3/4} \hat{1}^3$ final states in proton-proton collisions at $s = 8 \sqrt{s}=8 \text{ TeV}$ and 13 TeV . Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 7 |
| 128 | Measurement of the mass of the top quark in decays with a J/ψ meson in pp collisions at 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 6 |
| 129 | Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $s = 13 \sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 6 |
| 130 | Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $s = 8 \sqrt{s}=8 \text{ TeV}$. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 5 |
| 131 | Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at $s = 8 \sqrt{s}=8 \text{ TeV}$. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 5 |
| 132 | Search for a heavy resonance decaying to a top quark and a vector-like top quark at $s = 13 \sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 5 |
| 133 | Measurement of the inclusive $\overline{\text{t}}$ cross section in pp collisions at $\sqrt{s}=5.02 \text{ TeV}$ using final states with at least one charged lepton. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 5 |
| 134 | Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13 \sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 5 |
| 135 | Search for dark matter particles in proton-proton collisions at $s = 8 \sqrt{s}=8 \text{ TeV}$ using the razor variables. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 4 |
| 136 | Search for CP violation in $t \overline{t} \hat{1}^+$ production and decay in proton-proton collisions at $s = 8 \sqrt{s}=8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 4 |
| 137 | Measurement of differential cross sections in the kinematic angular variable $\hat{1}^*$ for inclusive Z boson production in pp collisions at $\sqrt{s}=8 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 4 |
| 138 | Search for ZZ resonances in the $2\hat{1}^+$ final state in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 4 |
| 139 | Search for $W\hat{1}^+ t\hat{1}^+$ in proton-proton collisions at $s = 8 \sqrt{s}=8 \text{ TeV}$. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 3 |
| 140 | Search for top quark partners with charge $5/3$ in proton-proton collisions at $s = 13 \sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 3 |
| 141 | pythia8 underlying event tune for RHIC energies. Physical Review D, 2022, 105, . | 4.7 | 3 |
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