Prasant Kumar Rout

List of Publications by Citations

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1,891 202 31 20 h-index g-index citations papers 215 2,949 5.1 -0.22avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
202	Combined measurements of Higgs boson couplings in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 421	4.2	153
201	Search for high-mass resonances in dilepton final states in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	63
200	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. <i>European Physical Journal C</i> , 2020 , 80, 4	4.2	61
199	Search for narrow and broad dijet resonances in proton-proton collisions at (sqrt{s}=13) TeV and constraints on dark matter mediators and other new particles. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	50
198	Search for additional neutral MSSM Higgs bosons in the III inal state in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	42
197	Measurement of the inelastic proton-proton cross section at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	41
196	Search for natural and split supersymmetry in proton-proton collisions at (sqrt{s}=13) TeV in final states with jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	39
195	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	37
194	Search for vector-like T and B quark pairs in final states with leptons at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	29
193	Measurement of the production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. <i>European Physical Journal C</i> , 2019 , 79, 368	4.2	27
192	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in collisions at 8. <i>European Physical Journal C</i> , 2018 , 78, 701	4.2	25
191	Search for charged Higgs bosons in the H⊞ -j⊞Idecay channel in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	24
190	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 75	4.2	24
189	Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	24
188	Search for third-generation scalar leptoquarks decaying to a top quark and a lepton at. <i>European Physical Journal C</i> , 2018 , 78, 707	4.2	23
187	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying [leptons at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	23
186	Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	22

185	Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	21	
184	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at (sqrt $\{s\}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	20	
183	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at. <i>European Physical Journal C</i> , 2019 , 79, 564	4.2	20	
182	Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	20	
181	Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	20	
180	Measurement of exclusive photoproduction from protons in Pb collisions at. <i>European Physical Journal C</i> , 2019 , 79, 277	4.2	19	
179	Measurement of differential cross sections for boson production in association with jets in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 965	4.2	19	
178	Search for new physics in dijet angular distributions using proton-proton collisions at and constraints on dark matter and other models. <i>European Physical Journal C</i> , 2018 , 78, 789	4.2	19	
177	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 364	4.2	18	
176	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two leptons and two jets in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	18	
175	Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	18	
174	Search for (mathrm{t}overline{mathrm{t}}mathrm{H}) production in the (mathrm{H}to mathrm{b}overline{mathrm{b}}) decay channel with leptonic (mathrm{t}overline{mathrm{t}}) decays in proton-proton collisions at (sqrt{s}=13) TeV. Journal of High Energy Physics, 2019, 2019, 1	5.4	17	
173	Searches for physics beyond the standard model with the variable in hadronic final states with and without disappearing tracks in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 3	4.2	16	
172	Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at (sqrt{mathrm{s}}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	16	
171	Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	16	
170	Measurements of (mathrm{t}overline{mathrm{t}}) differential cross sections in proton-proton collisions at (sqrt{mathrm{s}}=13) TeV using events containing two leptons. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	15	
169	Search for new particles decaying to a jet and an emerging jet. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	15	
168	Search for high-mass resonances in final states with a lepton and missing transverse momentum at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	15	

167	Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	14
166	Evidence for Higgs boson decay to a pair of muons. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	14
165	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two [leptons in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
164	Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
163	Search for supersymmetry in events with a [lepton pair and missing transverse momentum in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
162	Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
161	Search for resonant (mathrm{t}overline{mathrm{t}}) production in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	13
160	Measurement of exclusive Iphotoproduction in ultraperipheral pPb collisions at. <i>European Physical Journal C</i> , 2019 , 79, 702	4.2	13
159	Measurement of the top quark mass in the all-jets final state at and combination with the lepton+jets channel. <i>European Physical Journal C</i> , 2019 , 79, 313	4.2	13
158	Measurement of (hbox {t}{bar{hbox {t}}}) normalised multi-differential cross sections in ({text {p}}{text {p}}}) 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</i>	4.2	13
157	Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	13
156	Search for (mathrm{t}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> , 2018 , 2018, 1	5.4	13
155	Measurement of the top quark mass with lepton+jets final states using collisions at. <i>European Physical Journal C</i> , 2018 , 78, 891	4.2	13
154	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 280	4.2	12
153	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	12
152	Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	12
151	Studies of and mesons including the observation of the decay in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 939	4.2	12
150	Electroweak production of two jets in association with a Z boson in protonproton collisions at (sqrt{s}=) 13(,text {TeV}). European Physical Journal C, 2018, 78, 1	4.2	12

149	Search for single production of vector-like quarks decaying to a b quark and a Higgs boson. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	12
148	Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	11
147	Measurements of differential Z boson production cross sections in proton-proton collisions at ($sqrt{s}) = 13 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	11
146	Charged-particle nuclear modification factors in XeXe collisions at (sqrt{s_{mathrm{NN}}} = 5.44) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	11
145	Search for the decay of a Higgs boson in the Ithannel in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	11
144	Search for beyond the standard model Higgs bosons decaying into a (mathrm{b}overline{mathrm{b}}) pair in pp collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	11
143	Measurements of the pp -jWZ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	10
142	Search for new neutral Higgs bosons through the (mathrm{H}to mathrm{ZA}to {ell}^{+}{ell}^{-}mathrm{b}overline{mathrm{b}}) process in pp collisions at (sqrt{s}) = 13 TeV. Journal of High Energy Physics, 2020, 2020, 1	5.4	10
141	A multi-dimensional search for new heavy resonances decaying to boosted , , or boson pairs in the dijet final state at 13 <i>European Physical Journal C</i> , 2020 , 80, 237	4.2	10
140	Measurement of properties of ({mathrm{B}}_{mathrm{s}}^0)-j\delta decays and search for B0-j\delta 0 with the CMS experiment. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	10
139	Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	10
138	Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	10
137	Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	9
136	A search for the standard model Higgs boson decaying to charm quarks. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	9
135	Search for top quark partners with charge 5/3 in the same-sign dilepton and single-lepton final states in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	9
134	Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at (sqrt $\{s\}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	9
133	Search for a light pseudoscalar Higgs boson in the boosted If in al state in proton-proton collisions at (sqrt $\{s\}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	9
132	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	9

131	Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 697	4.2	9
130	Search for a singly produced third-generation scalar leptoquark decaying to a llepton and a bottom quark in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	9
129	Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at ($sqrt\{s\}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	8
128	Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	8
127	Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	8
126	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at (sqrt{mathrm{s}}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
125	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> , 2018 , 2018, 1	5.4	8
124	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	8
123	Search for electroweak production of a vector-like T quark using fully hadronic final states. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
122	Search for physics beyond the standard model in multilepton final states in proton-proton collisions at (sqrt $\{s\}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
121	Measurement of the energy density as a function of pseudorapidity in protonproton collisions at (sqrt{s} =13,text {TeV}). European Physical Journal C, 2019 , 79, 1	4.2	7
120	Search for rare decays of and Higgs bosons to and a photon in proton-proton collisions at = 13. <i>European Physical Journal C</i> , 2019 , 79, 94	4.2	7
119	Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	7
118	Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	7
117	Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at (sqrt{mathrm{s}}) = 13 TeV and constraints on anomalous quartic couplings. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	7
116	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at (sqrt{mathrm{s}}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	7
115	Jet properties in PbPb and pp collisions at (sqrt{s_{mathrm{N};mathrm{N}}}=5.02) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
114	Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at (sqrt $\{s\}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	7

113	Search for dark matter produced in association with a leptonically decaying boson in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 13	4.2	7
112	Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at (sqrt{s}=8) and 13 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
111	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
110	Search for a heavy resonance decaying into a Z boson and a Z or W boson in 20q final states at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
109	Search for dark matter produced in association with a Higgs boson decaying to for II-IIIat (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
108	Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
107	Precision luminosity measurement in proton-proton collisions at in 2015 and 2016 at CMS. <i>European Physical Journal C</i> , 2021 , 81, 800	4.2	7
106	Search for single production of vector-like quarks decaying to a top quark and a boson in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 90	4.2	6
105	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in collisions at and 5.02. <i>European Physical Journal C</i> , 2020 , 80, 534	4.2	6
104	Measurement of electroweak production of a boson in association with two jets in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 43	4.2	6
103	Search for lepton flavour violating decays of a neutral heavy Higgs boson to Land ellin proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	6
102	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}). European Physical Journal C, 2019 , 79, 1	4.2	6
101	Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	6
100	Measurement of the differential Drell-Yan cross section in proton-proton collisions at (sqrt{mathrm{s}}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	6
99	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 893	4.2	6
98	Search for new physics in top quark production in dilepton final states in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 886	4.2	6
97	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	6
96	Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	6

95	Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	5
94	Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	5
93	Measurements of production cross sections and constraints on anomalous triple gauge couplings at. <i>European Physical Journal C</i> , 2021 , 81, 200	4.2	5
92	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at. <i>European Physical Journal C</i> , 2021 , 81, 378	4.2	5
91	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 488	4.2	5
90	Search for resonant and nonresonant new phenomena in high-mass dilepton final states at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	5
89	Search for resonances decaying to a pair of Higgs bosons in the b(overline{mathrm{b}})q(overline{mathrm{q}}) If inal state in proton-proton collisions at ($sqrt{s}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	5
88	Search for top squark pair production using dilepton final states in collision data collected at. <i>European Physical Journal C</i> , 2021 , 81, 3	4.2	5
87	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> , 2018 , 2018, 1	5.4	5
86	Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	5
85	Search for a low-mass ⊞ resonance in association with a bottom quark in proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	4
84	Search for the pair production of light top squarks in the e⊞☐ final state in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	4
83	Search for nonresonant Higgs boson pair production in the (mathrm{b}overline{mathrm{b}}mathrm{b}overline{mathrm{b}}) final state at (sqrt{s}) = 13 TeV. Journal of High Energy Physics, 2019, 2019, 1	5.4	4
82	Study of the underlying event in top quark pair production in collisions at 13. <i>European Physical Journal C</i> , 2019 , 79, 123	4.2	4
81	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 20	4.2	4
80	Evidence for (text {W}text {W}) production from double-parton interactions in proton proton collisions at (sqrt{s} = 13 ,text {TeV}). European Physical Journal C, 2020 , 80, 1	4.2	4
79	Search for a W? boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	4
78	Measurement of differential cross sections and charge ratios for -channel single top quark production in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 370	4.2	4

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77	Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	4
76	Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	4
75	Search for new physics in top quark production with additional leptons in proton-proton collisions at (sqrt{s}) = 13 TeV using effective field theory. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	4
74	MUSiC: a model-unspecific search for new physics in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 629	4.2	4
73	Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at (sqrt{s}) = 13 TeV via Higgs boson decays to [leptons. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	3
72	Search for direct pair production of supersymmetric partners to the lepton in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 189	4.2	3
71	Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	3
70	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 970	4.2	3
69	Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at $$$ sqrt ${s}$ $$$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	3
68	Dependence of inclusive jet production on the anti-kT distance parameter in pp collisions at (sqrt{mathrm{s}}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	3
67	Investigation into the event-activity dependence of $?(nS)$ relative production in proton-proton collisions at ($sqrt{s}$) = 7 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	3
66	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. <i>Computing and Software for Big Science</i> , 2020 , 4, 10	6	3
65	Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at ($sqrt{s}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	3
64	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at (sqrt{mathrm{s}}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	3
63	Event shape variables measured using multijet final states in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	3
62	Search for lepton-flavor violating decays of heavy resonances and quantum black holes to elfinal states in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	3
61	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 723	4.2	3
60	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 305	4.2	2

59	Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at ($sqrt\{s\} = 13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2
58	Search for decays of the 125 GeV Higgs boson into a Z boson and a lbr? meson. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	2
57	Determination of the strong coupling constant $\exists S(mZ)$ from measurements of inclusive $W\exists$ and Z boson production cross sections in proton-proton collisions at ($sqrt\{mathrm\{s\}\}$) = 7 and 8 TeV. Journal of High Energy Physics, 2020 , 2020, 1	5.4	2
56	Inclusive search for supersymmetry in pp collisions at (sqrt{s}=13) TeV using razor variables and boosted object identification in zero and one lepton final states. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2
55	Search for excited leptons in Final states in proton-proton collisions at (sqrt{mathrm{s}}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2
54	Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the B b final state at 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	2
53	Search for supersymmetry using Higgs boson to diphoton decays at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2
52	The production of isolated photons in PbPb and pp collisions at (sqrt{s_{mathrm{NN}}}) = 5.02 TeV. Journal of High Energy Physics, 2020 , 2020, 1	5.4	2
51	Bose-Einstein correlations of charged hadrons in proton-proton collisions at (sqrt{s}) = 13 TeV. Journal of High Energy Physics, 2020 , 2020, 1	5.4	2
50	Study of central exclusive production in proton-proton collisions at and 13TeV. <i>European Physical Journal C</i> , 2020 , 80, 718	4.2	2
49	Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 752	4.2	2
48	Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at ($sqrt{s}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	2
47	Angular analysis of the decay B+ -jK*(892)+ \blacksquare In proton-proton collisions at (sqrt{mathrm{s}}) = 8 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	2
46	First measurement of large area jet transverse momentum spectra in heavy-ion collisions. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	2
45	Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at ($sqrt\{s\}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2
44	Search for supersymmetry in events with a photon, jets, -jets, and missing transverse momentum in proton-proton collisions at 13. <i>European Physical Journal C</i> , 2019 , 79, 444	4.2	1
43	Search for supersymmetry in proton-proton collisions at (sqrt{s}) = 13 TeV in events with high-momentum Z bosons and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	1
42	Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at ($sqrt{s}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	1

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41	Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	1
40	Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb 1 of proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
39	Measurements of the pp -jW \oplus Dand pp -jZDcross sections at (sqrt{mathrm{s}}) = 13 TeV and limits on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
38	Study of the (${\text{mathrm}\{B\}}^{+}$ to mathrm ${\text{J}}$ /uppsi overline ${\text{Lambda}}$ mathrm ${\text{p}}$) decay in proton-proton collisions at (${\text{sqrt}\{s\}}$) = 8 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	1
37	Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at (sqrt $\{s\}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	1
36	Measurement of the cross section for (mathrm $\{t\}$ overline $\{mathrm\{t\}\}$) production with additional jets and b jets in pp collisions at (sqrt $\{s\}$) = 13 TeV. Journal of High Energy Physics, 2020 , 2020, 1	5.4	1
35	Measurement of differential cross sections for Z bosons produced in association with charm jets in pp collisions at (sqrt $\{s\}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
34	Development and validation of HERWIG tunes from CMS underlying-event measurements. <i>European Physical Journal C</i> , 2021 , 81, 312	4.2	1
33	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in collisions at. <i>European Physical Journal C</i> , 2019 , 79, 969	4.2	1
32	Search for the lepton flavor violating decay []3[]n proton-proton collisions at (sqrt{mathrm{s}}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
31	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at \$\$ sqrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	1
30	Search for a heavy resonance decaying to a top quark and a W boson at $\$\$$ sqrt $\$\$$ = 13 TeV in the fully hadronic final state. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
29	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in collisions at. <i>European Physical Journal C</i> , 2019 , 79, 773	4.2	O
28	Measurement of double-parton scattering in inclusive production of four jets with low transverse momentum in proton-proton collisions at \$\$ sqrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	O
27	Study of quark and gluon jet substructure in Z+jet and dijet events from pp collisions. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	O
26	Measurement of single-diffractive dijet production in proton-proton collisions at with the CMS and TOTEM experiments. <i>European Physical Journal C</i> , 2020 , 80, 1164	4.2	O
25	Observation of tW production in the single-lepton channel in pp collisions at (sqrt{s}) = 13 TeV. Journal of High Energy Physics, 2021, 2021, 1	5.4	О
24	Measurement of b jet shapes in proton-proton collisions at ($sqrt{s}$) = 5.02 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	O

23	Study of Drell-Yan dimuon production in proton-lead collisions at ($sqrt{s_{mathrm{NN}}}$) = 8.16 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	O
22	In-medium modification of dijets in PbPb collisions at (sqrt{s_{mathrm{NN}}}) = 5.02 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	O
21	Measurement of the top quark pair production cross section in dilepton final states containing one [lepton in pp collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	0
20	Search for a heavy vector resonance decaying to a Iboson and a Higgs boson in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 688	4.2	O
19	Measurements of angular distance and momentum ratio distributions in three-jet and + two-jet final states in collisions. <i>European Physical Journal C</i> , 2021 , 81, 852	4.2	O
18	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at \$\$ sqrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	O
17	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at European Physical Journal C, 2022 , 82, 153	4.2	Ο
16	Search for long-lived particles produced in association with a Z boson in proton-proton collisions at $\$$ sqrt $\{s\}$ $\$$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	О
15	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at <i>European Physical Journal C</i> , 2022 , 82, 290	4.2	0
14	Measurement of the inclusive and differential t\$\$ overline{t} \$\$\$\text{\$\text{\$}}\$ ross sections in the single-lepton channel and EFT interpretation at \$\$ \$qrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	O
13	Measurement of the top quark mass using events with a single reconstructed top quark in pp collisions at \$\$ sqrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	O
12	Probing effective field theory operators in the associated production of top quarks with a Z boson in multilepton final states at $$$ sqrt ${s}$ $$$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	O
11	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at \$\$ sqrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	0
10	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at \$\$ sqrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	O
9	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $$$ sqrt ${s}$ $$$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	O
8	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at \$\$ sqrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	O
7	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at \$\$ sqrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	0
6	Search for electroweak production of charginos and neutralinos in proton-proton collisions at \$\$ sqrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	O

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5	Measurements of the differential cross sections of the production of $Z + jets$ and $D + jets$ and of $Z + jets$ and $Z + jets$ ana	5.4
4	Measurement of the Z boson differential production cross section using its invisible decay mode (Z -j(nu overline{nu})) in proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4
3	Study of dijet events with large rapidity separation in proton-proton collisions at \$\$ sqrt{s} \$\$ = 2.76 TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4
2	Measurement of prompt open-charm production cross sections in proton-proton collisions at \$\$ sqrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4
1	Measurement of the inclusive $\$ mathrm{t}overline{mathrm{t}} \$\$ production cross section in proton-proton collisions at \$\$ sqrt{s} \$\$ = 5.02 TeV. Journal of High Energy Physics, 2022 , 2022, 1	5.4