

Dilson de Jesus Damiao

List of Publications by Year in descending order

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Version: 2024-02-01

299
papers

23,970
citations

17440

63
h-index

8163

148
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304
all docs

304
docs citations

304
times ranked

10948
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 30-61.	4.1	6,177
2	The CMS experiment at the CERN LHC. Journal of Instrumentation, 2008, 3, S08004-S08004.	1.2	2,192
3	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV. European Physical Journal C, 2015, 75, 212.	3.9	541
4	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	3.9	499
5	Combined results of searches for the standard model Higgs boson in pp collisions at $\sqrt{s} = 7, 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 30-61.	4.1	6,177
6	Observation and studies of jet quenching in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2011, 84, 054002.	2.9	455
7	Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s} = 7, 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	7.8	400
8	Particle-flow reconstruction and global event description with the CMS detector. Journal of Instrumentation, 2017, 12, P10003-P10003.	1.2	348
9	Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s} = 7, 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	320
10	The CMS trigger system. Journal of Instrumentation, 2017, 12, P01020-P01020.	1.2	307
11	Measurement of the properties of a Higgs boson in the four-lepton final state. Physical Review D, 2014, 89, .	4.7	299
12	Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to $Z\gamma$ Boson Pairs. Physical Review Letters, 2013, 110, 081803.	7.8	270
13	Evidence for collectivity in pp collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 765, 193-220.	4.1	243
14	Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV. Journal of Instrumentation, 2018, 13, P05011-P05011.	1.2	241
15	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ and 2.36 TeV. Journal of High Energy Physics, 2010, 2010, 1.	4.7	230
16	Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV. Journal of Instrumentation, 2017, 12, P02014-P02014.	1.2	216
17	Observation of Λ^0 Production. Physical Review Letters, 2018, 120, 231801.	7.8	209
18	Suppression of non-prompt J/ψ , prompt J/ψ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	200

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19	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
20	Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2013, 87, .	2.9	185
21	Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV. Physical Review D, 2015, 92, .	4.7	185
22	Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2018, 13, P06015-P06015.	1.2	180
23			

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37	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
38	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
39	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
40	Measurement of the underlying event activity at the LHC with $\sqrt{s} = 7$ TeV and comparison with $\sqrt{s} = 0.9$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	97
41	Measurement of the top quark mass using proton-proton data at $\sqrt{s} = 7$ TeV. Physical Review D, 2016, 93, 1.	4.7	97
42	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
43	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.	4.1	90
44	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 1.	4.1	88
45	Observation of Electroweak Production of Same-Sign $W^{\pm}Z$ Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 772, 489-511.	4.1	87
46	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	7.8	86
47	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	86
48	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	85
49	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
50	Performance of missing transverse momentum reconstruction in proton-proton collisions at $\sqrt{s} = 13$ TeV using the CMS detector. Journal of Instrumentation, 2019, 14, P07004-P07004.	1.2	83
51	Measurement of the $B \rightarrow p \bar{p}$ Cross Section in pp Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2015, 114, 051801.	7.8	80
52	Study of Vector Boson Scattering and Search for New Physics in Events with Two Same-Sign Leptons and Two Jets. Physical Review Letters, 2015, 114, 051801.	7.8	80
53	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 75.	4.7	78
54	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 75.	3.9	78

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55	Search for Narrow Resonances in Dijet Final States at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	7.8	74
56	Search for narrow resonances using the dijet mass spectrum in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 3.	4.7	71
57	Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	70
58	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 $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 3.	3.9	70
59	Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	69
60	Performance of reconstruction and identification of τ , leptons decaying to hadrons and $\tau \rightarrow \nu \tau$ in pp collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2018, 13, P10005-P10005.	1.2	69
61	Measurements of the Higgs boson width and anomalous $H \rightarrow V \nu \nu$ couplings from on-shell and off-shell production in the four-lepton final state. Physical Review D, 2019, 99, 034005.	4.7	69
62	Measurement of the $t \bar{t} \hat{A}$ 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
63	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
64	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
65	A measurement of the Higgs boson mass in the diphoton decay channel. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135425.	4.1	63
66	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
67	Measurement of the $B \rightarrow A \pm$ Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2017, 119, 152301.	7.8	62
68	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
69	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
70	Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC. Journal of Instrumentation, 2021, 16, P05014.	1.2	62
71	Measurement of the $B \rightarrow 0$ Production Cross Section in pp Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 124, 131802.	7.8	61
72	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 124, 131802.	7.8	61

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73	Measurement of inclusive jet cross sections in $\sqrt{s} = 13$ TeV proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 451. Measurement of Dijet Angular Distributions and Search for Quark Compositeness in $\sqrt{s} = 13$ TeV. Physical Review C, 2017, 96, .	2.9	59
74	Interpretation of searches for supersymmetry with simplified models. Physical Review D, 2013, 88, .	4.7	58
75	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	57
76	Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques. Journal of Instrumentation, 2020, 15, P06005-P06005.	1.2	56
77	Limits on the Higgs boson lifetime and width from its decay to four charged leptons. Physical Review D, 2015, 92, .	4.7	55
78	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
79	Measurement of Dijet Angular Distributions and Search for Quark Compositeness in $\sqrt{s} = 13$ TeV. Physical Review C, 2017, 96, .	7.8	54
80	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
81	Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 119, 141802.	7.8	54
82	Measurement of prompt and nonprompt J/ψ production in pp and pPb collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.	3.9	53
83	Measurement of $Z\gamma$ production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 111801.	4.1	52
84	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
85	Measurements of the $p\bar{p} \rightarrow Z\gamma$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 165.	3.9	52
86	Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.	4.7	51
87	Measurement of differential cross sections for top quark pair production using the lepton-jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2017, 95, .	4.7	50
88	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.	3.9	49
89	Search for an $L\bar{L}$ gauge boson using $Z\gamma$ events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 345-368.	4.1	49
90	Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV/c in PbPb collisions at $\sqrt{s} = 2.76$ and 7 TeV. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 776, 195-216.	4.1	48

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91	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
92	Search for the X in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	7.8	47
93	Pileup mitigation at CMS in 13 TeV data. Journal of Instrumentation, 2020, 15, P09018-P09018.	1.2	47
94	Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	46
95	Measurement of diffractive dissociation cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 96-129.	4.7	46
96	Pseudorapidity distribution of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 143-163.	4.1	45
97	Search for Displaced Supersymmetry in Events with an Electron and a Muon with Large Impact Parameters. Physical Review Letters, 2015, 114, 061801.	7.8	44
98	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
99	Search for an exotic decay of the Higgs boson decaying to a W boson pair in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 96-129.	4.1	44
100	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	43
101	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two b quarks and two \bar{l} , leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 462-488.	4.1	43
102	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
103	Measurement of the $t\bar{t}$ production cross section in the e^+e^- channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	41
104	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
105	Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 1-24.	4.1	40
106	Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair. Physical Review Letters, 2018, 120, 071802.	7.8	40
107	Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 806, 135502.	4.1	40
108	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 378.	3.9	40

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109	Measurement of the ZZ production cross section and search for anomalous couplings in $2\hat{a}, "2\hat{a}, "â€²$ final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	39
110	Cross section measurement of t-channel single top quark production in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 752-776.	4.1	37
111	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.	7.8	39
112	Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 965.	3.9	39
113	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
114	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $l, leptons at \sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
115	Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.1	37
116	Search for narrow resonances in the $b\bar{b}$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	36
117	Search for top squarks and dark matter particles in opposite-charge dilepton final states at $\sqrt{s}=13$ TeV. Physical Review D, 2018, 97, .	7.8	36
118	Search for top squarks and dark matter particles in opposite-charge dilepton final states at $\sqrt{s}=13$ TeV. Physical Review D, 2018, 97, .	4.7	36
119	Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134985.	4.1	36
120	Measurement of electroweak WZ boson production and search for new physics in WZ + two jets events in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 281-307.	4.1	36
121	Measurement of the cross section for electroweak production of ZP in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 380-402.	4.7	35
122	Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2017, 119, 111802.	7.8	35
123	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 488.	3.9	35
124	Observation of Z decays to four leptons with the CMS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	4.7	34
125	Measurement of the cross section for electroweak production of ZP in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 380-402.	4.1	34
126	Measurement of the top quark mass with lepton+jets final states using $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 891.	3.9	34

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127	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s}=13$, ext {TeV}. European Physical Journal C, 2021, 81, 13.	3.9	33
128	Search for top squark pair production using dilepton final states in collision data collected at $\sqrt{s}=13$, ext {TeV}. European Physical Journal C, 2021, 81, 3.	3.9	33
129	Search for singly and pair produced third-generation squarks in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 819, 136446.	4.1	33
130	Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 564-586.	4.1	32
131	Measurements of the Z production cross sections in the 2μ channel in proton-proton collisions at $\sqrt{s}=7$ and 8 . Study of jet quenching with 2011. Journal of High Energy Physics, 2017, 2017, 1.	3.9	32
132	Correlations in Pb-Pb and pp collisions at $\sqrt{s}=2.76$ and 2.76 TeV. Physical Review Letters, 2012, 109, 112301.	7.8	32
133	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
134	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	31
135	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
136	Measurement of differential cross sections for the production of top quark pairs and of additional jets in pp collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2018, 98, 034004.	4.7	30
137	Search for invisible decays of the Higgs boson produced via vector boson fusion in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2022, 105, 034004.	4.7	30
138	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
139	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
140	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s}=13$, ext {TeV}. European Physical Journal C, 2019, 79, 280.	3.9	29
141	Search for $t\bar{t}\overline{H}$ production in the $H\rightarrow b\bar{b}$ decay channel with leptonic $t\bar{t}$ decays in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
142	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
143	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.	4.1	27
144	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

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145	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
146	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P02027-P02027.	1.2	27
147	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
148	Combination of searches for heavy resonances decaying to WW, WZ, ZZ, WH, and ZH boson pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 55-59.	4.1	26
149	Search for heavy resonances decaying to WW, WZ, ZZ, WH, and ZH boson pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134876.	4.1	26
150	Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	25
151	Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	25
152	Search for long-lived particles using displaced jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, .	4.7	25
153	Observation of a diffractive contribution to dijet production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2021, 126, 112301.	4.7	24
154	Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 797, 134876.	4.1	24
155	Measurement of the differential inclusive B+ hadron cross sections in pp collisions at $\sqrt{s} = 13$ TeV. High Energy Physics, 2017, 771, 435-456.	4.1	24
156	Measurement of jet substructure observables in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2021, 126, 112301.	4.7	24
157	Measurements of $\sigma(\text{pp} \rightarrow \text{Z} \text{Z})$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.	3.9	24
158	Measurement of the jet mass in highly boosted $\overline{\text{t}}\text{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 467.	3.9	23
159	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
160	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
161	Search for supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV using identified top quarks. Physical Review D, 2018, 97, .	4.7	23
162	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

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164	Search for $t \hat{t}^* \hat{a}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
165	Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
166	Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	21
167	Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to lepton pairs. Physical Review D, 2019, 2019, 1.	4.7	21
168	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	21
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171	Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
172	Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at $s = 13$ TeV. Physical Review D, 2019, 2019, 1.	4.7	20
173	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 2019, 1.	4.7	20
174	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
175	Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.1	20
176	Search for top squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 2021, 1.	4.7	20
177	Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at $s = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
178	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into \hat{l} , leptons in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
179	Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	19
180	Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 2018, 1.	4.1	19

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182	Search for quark compositeness in dijet angular distributions from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	18
183	Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	18
184	Search for Higgs boson pair production in the final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	18
185	Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	18
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187	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 970.	3.9	18
188	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 290.	3.9	18
189	Probing color coherence effects in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2901.	3.9	17
190	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
191	Measurement of electroweak-induced production of $W^{\pm 3}$ 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
192	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
193	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
194	Search for $Z^{\prime 3}$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
195	Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 697.	3.9	17
196	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. Journal of High Energy Physics, 2019, 2019, 1.	4.7	17
197	Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134952.	4.1	17
198	Studies of Beauty Suppression via Nonprompt Mesons in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2019, 123, 022001.	7.8	17

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201	Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 99, 014011.	4.7	16
202	Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production and decay using the four-lepton final state. Physical Review D, 2021, 104, 013001.	4.7	16
203	Search for Supersymmetry in the full kinematic range using production cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	16
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205	Measurement of the $t\bar{t}\gamma$ production cross section using events with one lepton and at least one jet in pp collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
206	Search for new physics with dijet angular distributions in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
207	Search for single production of vector-like quarks decaying into a b quark and a W boson in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
208	Search for associated production of dark matter with a Higgs boson decaying to $b\bar{b}$ or $\tau\bar{\tau}$ at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.1	14
209	Search for black holes and other new phenomena in high-multiplicity final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 279-307.	4.7	14
210	Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
211	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	14
212	Measurements of the pp $\hat{\sigma}$ WZ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
213	Search for long-lived particles using delayed photons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 100, 014011.	4.7	14
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218	Inclusive nonresonant multilepton probes of new phenomena at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, .	4.7	14
219	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
220	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
221	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
222	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
223	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. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
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225	Measurement of the electroweak production of $Z\gamma$ and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.1	13
226	Search for anomalous quartic gauge couplings in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, .	4.7	13
227	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. Journal of High Energy Physics, 2022, 2022, 1.	4.7	13
228	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
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239	Precision measurement of the structure of the CMS inner tracking system using nuclear interactions. Journal of Instrumentation, 2018, 13, P10034-P10034.	1.2	11
240	Search for supersymmetry in the all-hadronic final state using top quark tagging in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2017, 96, .	4.7	10
241	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
242	Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\bar{u}q\bar{q}$ final state. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
243	Measurement of differential cross sections for Z boson pair production in association with jets at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, .	4.7	10
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245	Search for a heavy resonance decaying to a charm quark and a Higgs boson in final states with two photons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2022, 129, .	7.8	10
246	Publisher's Note: Search for Dijet Resonances in 7TeVppCollisions at CMS [Phys. Rev. Lett.105, 211801 (2010)]. Physical Review Letters, 2011, 106, .	7.8	9
247	Inclusive search for supersymmetry using razor variables in pp collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2017, 95, .	4.7	9
248	Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and p-Pb Collisions at $\sqrt{s}=2.76$ and $\sqrt{s}=7.69$ TeV. Physical Review Letters, 2020, 125, 102001.	7.8	9
249	Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 688.	3.9	9
250	Search for $W\tilde{e}^2$ bosons decaying to a top and a bottom quark at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136535.	4.1	9
251	Searches for $W\tilde{e}^2$ 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.	7.8	9
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255	Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2q$ final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	8
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261	Search for the associated production of the Higgs boson with a top-quark pair. , 2014, 2014, 1.		6
262	Observation of the $b \rightarrow c \tau^+ \nu_\tau$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 802, 135203.	4.1	6
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264	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. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
265	A new calibration method for charm jet identification validated with proton-proton collision events at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2022, 17, P03014.	1.2	6
266	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
267	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
268	Observation of the $Z \rightarrow \tau^+ \tau^-$, $Z \rightarrow \mu^+ \mu^-$ Decay in pp Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 121, 1418015	4.1	5
269	Search for the pair production of light top squarks in the $e^+ e^-$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
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272	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
273	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. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
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275	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
276	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
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282	Hard color-singlet exchange in dijet events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 2021, 104, .	4.7	3
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284	Measurements of the $(p \rightarrow Z) \rightarrow (Z \rightarrow 4\ell)$ production cross section and the $(Z \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$, ext {TeV} ., 2018, 78, 1.		3
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287	Search for new phenomena with multiple charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 1.	3.9	2
288	Measurements of angular distance and momentum ratio distributions in three-jet and Z + two-jet final states in pp collisions. European Physical Journal C, 2021, 81, 852.	3.9	2

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290	Measurement of the inclusive $\overline{\text{t}}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
291	Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	4.7	2
292	Measurement of the production cross section for $Zb\bar{b}$ jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, .	4.7	2
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295	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	1
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299	Search for high-mass resonances decaying to a jet and a Lorentz-boosted resonance in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 832, 137263.	4.1	0