Filip Moortgat

List of Publications by Year in descending order

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228 papers 21,227 citations

59 h-index 9861 141 g-index

233 all docs

233
docs citations

times ranked

233

14400 citing authors

#	Article	IF	CITATIONS
1	Review of Particle Physics. Physical Review D, 2018, 98, .	4.7	5,390
2	Review of Particle Physics. Progress of Theoretical and Experimental Physics, 2020, 2020, .	6.6	3,177
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 \$\$,ext {TeV}\$\$ 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	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1.	4.7	497
6	SUSY Les Houches Accord: Interfacing SUSY Spectrum Calculators, Decay Packages, and Event Generators. Journal of High Energy Physics, 2004, 2004, 036-036.	4.7	413
7	Study of high-p T charged particle suppression in PbPb compared to pp collisions at \$sqrt{s_{mathrm{NN}}}=2.76~mathrm{TeV}\$. European Physical Journal C, 2012, 72, 1.	3.9	369
8	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	3.9	342
9	Observation of a new boson with mass near 125 GeV in pp collisions at $\$ sqrt $\{s\}=7\$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	320
10	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $q=0.9$ and 2.36 TeV. Journal of High Energy Physics, 2010, 2010, 1.	4.7	230
11	Suppression of non-prompt J/ $\hat{\Gamma}$, prompt J/ $\hat{\Gamma}$, and \$ Upsilon \$(1S) in PbPb collisions at \$ sqrt $\{\{s_{ext}\}\}\}$ = 2.76 \$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	200
12	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
13	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ mbox TeV . European Physical Journal C, 2012, 72, 1.	3.9	181

#	Article	IF	CITATIONS
19	Search for supersymmetry in hadronic final states with missing transverse energy using the variables $\hat{l}\pm T$ and b-quark multiplicity in pp collisions at $q=8$ mathrm TeV . European Physical Journal C, 2013, 73, 2568.	3.9	147
20	Strange particle production in pp collisions at $\$$ sqrt $\{s\}$ = 0.9 $\$$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	139
21	Prompt and non-prompt J/ \ddot{l} production in pp collisions at \$sqrt{s} = 7\$ TeV. European Physical Journal C, 2011, 71, 1.	3.9	135
22	A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7 \text{ mbox}\{\text{TeV}\}$. European Physical Journal C, 2012, 72, 1.	3.9	129
23	Measurement of differential top-quark-pair production cross sections in pp collisions at $q=0$ mathrm{TeV}\$. European Physical Journal C, 2013, 73, 1.	3.9	125
24	Precision luminosity measurement in protonâ \in "proton collisions at \$\$sqrt{s} = 13,hbox {TeV}\$\$ in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
25	Measurements of inclusive W and Z cross sections in pp collisions at \$ sqrt $\{s\}$ = 7 \$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	122
26	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	3.9	120
27	Searches for long-lived charged particles in pp collisions at $\$ sqrt $\{s\}$ = 7 and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	118
28	Search for a light charged Higgs boson in top quark decays in pp collisions at $\$$ sqrt $\{s\} = 7$; TeV $\$$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	117
29	Charged particle multiplicities in pp interactions at \$ sqrt $\{s\}$ = 0.9 \$, 2.36, and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	106
30	Charged-particle nuclear modification factors in PbPb and pPb collisions at s N N = $5.02 $ \$ sqrt{s_{mathrm{N};mathrm{N}}}= $5.02 $ \$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	103
31	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
32	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at \$ $\{\{s_{ext}\}\}\}\}$ = 2.76 \$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	99
33	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
34	Search for supersymmetry in hadronic final states using M T2 in pp collisions at $q=7 $ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	95
35	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
36	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

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37	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\$ sqrt{{ $s_{NN}}} = 2.76 \$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	85
38	Study of the production of charged pions, kaons, and protons in pPb collisions at $\$$ qrt $\{s_{NN}\} = $ \$\$ s N N = 5.02 \$\$,ext {TeV}\$\$ TeV. European Physical Journal C, 2014, 74, 2847.	3.9	85
39	Performance of the CMS Level-1 trigger in proton-proton collisions at $\hat{a}\hat{s}<\hat{i}>s<\hat{i}>=13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
40	Measurement of the single-top-quark t-channel cross section in pp collisions at $q=0$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	83
41	J/ $\hat{\Gamma}$ and $\hat{\Gamma}$ (2S) production in pp collisions at \$ sqrt {s} = 7{ext{Tev}} \$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	81
42	Search for production of four top quarks in final states with same-sign or multiple leptons in proton–proton collisions at \$\$sqrt{s}=13\$\$ \$\$,ext {TeV}\$\$. European Physical Journal C, 2020, 80, 75.	3.9	78
43	Study of exclusive two-photon production of W+Wâ^' in pp collisions at \$ sqrt{s}=7 \$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.	4.7	75
44	Measurement of the X(3872) production cross section via decays to J/Ï̇¨l€ + Ï€ − in pp collisions at \$ sqrt{s}=7 \$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	73
45	Searches for physics beyond the standard model with the \$\$M_{mathrm {T2}}\$\$ variable in hadronic final states with and without disappearing tracks in proton–proton collisions at \$\$sqrt{s}=13,ext {Te}ext {V} \$\$. European Physical Journal C, 2020, 80, 3.	3.9	70
46	Measurement of the \$ mathrm{t}overline{mathrm{t}} \$ production cross section in the dilepton channel in pp collisions at \$ q^{t} TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	69
47	Search for anomalous production of multilepton events in pp collisions at sqrt s} = 7,TeV 5. Journal of High Energy Physics, 2012, 2012, 1.	4.7	68
48	Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469.	3.9	68
49	Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\$ sqrt{s} = 7 TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	68
50	Measurement of the $f(t) = \frac{1}{2} $ Measurement of $f(t) = \frac{1}{2} $ Measuremen	3.9	68
51	Long-range and short-range dihadron angular correlations in central PbPb collisions at \$ sqrt {{{s_{ext{NN}}}}} \$  = 2.76 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	65
52	Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $q=7 \text{ mbox}$ European Physical Journal C, 2013, 73, 2283.	3.9	64
53	Search for new physics in same-sign dilepton events in proton–proton collisions at \$\$sqrt{s} = 13,ext {TeV} \$\$ s = 13 TeV. European Physical Journal C, 2016, 76, 439.	3.9	64
54	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

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55	Measurement of the W+WⰠcross section in pp collisions at $q=7mbox{TeV}$ and limits on anomalous WWγ and WWZ couplings. European Physical Journal C, 2013, 73, 1.	3.9	62
56	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $s=0.2016, 76, 13.$	3.9	62
57	Measurement of the inelastic proton-proton cross section at $\$$ sqrt $\{s\}=13$ $\$$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
58	Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $q=0$ and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 1.	3.9	60
59	Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at \$ sqrt $\{s\}$ = 7; $\{ext\{TeV\}\}$ \$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	59
60	Search for anomalous \$ toverline t \$ production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1.	4.7	58
61	Jet production rates in association with W and Z bosons in pp collisions at sqrt s = 7 extTeV} \$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	58
62	Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.	4.7	58
63			

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73	Measurements of the $\$ mathrm {p}mathrm {p}ightarrow mathrm{Z}mathrm{Z}\$\$ p p â†' Z Z production cross section and the $\$ mathrm{Z}ightarrow 4ell \$\$ Z â†' 4 â," branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	3.9	52
74	Search for exclusive or semi-exclusive $\hat{l}^3\hat{l}^3$ production and observation of exclusive and semi-exclusive e+eâ° production in pp collisions at \$ sqrt{s}=7 \$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	51
75	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
76	First measurement of the underlying event activity at \hat{A} the \hat{A} LHC \hat{A} with \hat{A} \$sqrt {s} = 0.9\$ \hat{A} TeV. European Physical Journal C, 2010, 70, 555-572.	3.9	50
77	Study of the underlying event at forward rapidity in pp collisions at \$ sqrt{s}=0.9,2.76,;mathrm{and};7;mathrm{TeV} \$. Journal of High Energy Physics, 2013, 2013, 1.	4.7	50
78	Search for new physics with jets and missing transverse momentum in pp collisions at $\$$ sqrt $\{s\} = 7 \$$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	49
79	Search for leptonic decays of $W\hat{a}\in ^2$ bosons in pp collisions at \$ sqrt {s} = {7} \$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	49
80	Measurement of pseudorapidity distributions of charged particles in proton–proton collisions at \$\$sqrt{s} = 8\$\$ s = 8 ÂTeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.	3.9	49
81	Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $ \text{sqrt} $ $ $	4.7	47
82	Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	4.7	46
83	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
84	Search for heavy bottom-like quarks in 4.9 fb \hat{a} of pp collisions at \$ sqrt {s} = 7 \$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	45
85	Search for microscopic black holes in pp collisions at $q=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	44
86	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	43
87	Measurement of the top-quark mass in $\frac{t}{v}$ where t is a states in pp collisions at $\frac{t}{v}$. European Physical Journal C, 2012, 72, 1.	3.9	42
88	Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at \$ sqrt{s}=7 \$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	41
89	Measurement of the t t \hat{A}^- \$\$ mathrm{t}overline{mathrm{t}} \$\$ production cross section in the ell/4 channel in proton-proton collisions at s = 7 \$\$ sqrt{s}=7 \$\$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	41
90	Search for same-sign top-quark pair production at $\$$ sqrt $\{s\} = 7 \$$ TeV and limits on flavour changing neutral currents in the top sector. Journal of High Energy Physics, 2011, 2011, 1.	4.7	40

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91	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 $\{s\} = 13$,ext $\{Te\}$ ext $\{V\}$ $\$$. European Physical Journal C, 2021, 81, 378.	3.9	40
92	Search for resonances in the dilepton mass distribution in pp collisions at $\$$ sqrt $\{s\}$ = 7 $\$$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	39
93	Inclusive b-jet production in pp collisions at $q = 7 \text{TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	39
94	Measurement of the $Z \hat{j}^*\hat{a} \in \infty + \hat{a} \in \infty$ b-jet cross section in pp collisions at \$ sqrt {s} = 7 \$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	39
95	Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	4.7	39
96	Measurement of the ZZ production cross section and search for anomalous couplings in 2â, "′ final states in pp collisions at \$ sqrt{s}=7 \$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	39
97	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at s $$$ sqrt ${s}$ $$$ = 7 TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	39
98	Measurement of differential cross sections for $\{z\}$ boson production in association with jets in proton-proton collisions at $\{z\}$ = 13,ext $\{z\}$ \$ s = 13 TeV. European Physical Journal C, 2018, 78, 965.	3.9	39
99	Search for heavy stable charged particles in pp collisions at	4.7	38
100	Measurement of the top-quark mass in $\mbox{mathrm{t}}$ werline{mathrm{t}} events with lepton+jets final states in pp collisions at $\mbox{qrt{s}}=7\mbox{TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	38
101	Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\$$ sqrt $\{s\}$ = 13 $\$$ s = 13 $\$$,ext $\{TeV\}$ \$\$ TeV. European Physical Journal C, 2017, 77, 636.	3.9	38
102	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying \ddot{l} , leptons at $$$ sqrt ${s}=13$ $$$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
103	Measurement of the $\frac{t}{t}}$ production cross section in pp collisions at $\frac{s}{t}$. TeV using the kinematic properties of events with leptons and jets. European Physical Journal C, 2011, 71, 1.	3.9	37
104	Measurement of the Drell-Yan cross section in pp collisions at sqrt s = 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	36
105	Discovery potential of top-partners in a realistic composite Higgs model with early LHC data. Journal of High Energy Physics, 2010, 2010, 1.	4.7	35
106	Measurement of the top-quark mass in all-jets $\frac{t}{ar}$ to \hat{A}^- events in pp collisions at $\frac{\hat{A}^-}{ar}$ s = 7 TeV. European Physical Journal C, 2014, 74, 2758.	3.9	35
107	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton–proton collisions at \$\$sqrt{s} = 13,ext {TeV} \$\$. European Physical Journal C, 2021, 81, 488.	3.9	35
108	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

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109	Search for microscopic black holes in pp collisions at $\$$ sqrt $\{s\} = \{ext\{7TeV\}\}\$ \$\$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	34
110	Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or $\hat{a}\% \times 3$ b-quark jets in 7 TeV pp collisions using the variable $\hat{l}\pm T$. Journal of High Energy Physics, 2013, 2013, 1.	4.7	34
111	Measurement of the underlying event in the Drell–Yan process in proton–proton collisions at \$sqrt{s} = 7~mbox{TeV}\$. European Physical Journal C, 2012, 72, 1.	3.9	33
112	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $q=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	33
113	Search for dark matter produced in association with a leptonically decaying \$\${mathrm{Z}} \$\$ boson in proton–proton collisions at \$\$sqrt{s}=13,ext {Te}ext {V} \$\$. European Physical Journal C, 2021, 81, 13.	3.9	33
114	Search for top squark pair production using dilepton final states in $\{p\}$ {ext $\{p\}$ } \$ collision data collected at $\{p\}$ = 13,ext $\{TeV\}$ \$\$. European Physical Journal C, 2021, 81, 3.	3.9	33
115	Measurement of $\{\text{ext}\{B\}\}$ overline $\{\text{ext}\{B\}\}$ angular correlations based on secondary vertex reconstruction at $\{\text{s}\} = 7, \{\text{ext}\{\text{TeV}\}\}$ \$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	32
116	Search for supersymmetry in pp collisions at $\$$ sqrt $\{s\}$ = 7 $\$$ TeV in events with a single lepton, jets, and missing transverse momentum. Journal of High Energy Physics, 2011, 2011, 1.	4.7	32
117	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. Journal of High Energy Physics, 2013, 2013, 1.	4.7	32
118	Jet and underlying event properties as a function of charged-particle multiplicity in proton–proton collisions at \$sqrt {s}= 7 ext{TeV}\$. European Physical Journal C, 2013, 73, 2674.	3.9	32
119	Measurements of the $\pi\{Z\}$ π	3.9	32
120	Searches for pair production of third-generation squarks in $\frac{s}{13} = 13 $, ext {TeV}\$ TeV pp collisions. European Physical Journal C, 2017, 77, 327.	3.9	32
121	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
122	Measurement of the triple-differential cross section for photon $+$ jets production in proton-proton collisions at $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	4.7	31
123	Search for top squark pair production in pp collisions at $s=13 \$\$ $ sqrt $\{s\}=13 \$\$ $ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31
124	Measurement of Bose-Einstein correlations in pp collisions at sqrt s = 0.9 s and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	30
125	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\$ sqrt $\$ s} = 7 $\$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	30
126	Search for a Higgs boson in the decay channel H \hat{a} † ZZ(*) \hat{a} † q\$ overline {ext{q}} \$ \hat{a} , " \hat{a} " \hat{a} " + in pp collisions at \$ sqrt {s} = 7 \$TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	30

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127	Measurement of the W-boson helicity in top-quark decays from $\mbox{mathrm{t}}$ overline{mathrm{t}} \$ production in lepton+jets events in pp collisions at $\mbox{sqrt{s}=7 }$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	30
128	The CMS barrel calorimeter response to particle beams fromÂ2ÂtoÂ350 GeV/c. European Physical Journal C, 2009, 60, 359-373.	3.9	29
129	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	4.7	29
130	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $s=8$ \$\$ sqrt $\{s\}=8$ \$\$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	29
131	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 {Te}ext {V} \$\$ s = 13 Te. European Physical Journal C, 2019, 79, 280.	3.9	29
132	Search for $\$$ mathrm{t}overline{mathrm{t}}mathrm{H} $\$$ production in the $\$$ mathrm{H}o 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.	4.7	28
133	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
134	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} \$\$ s = 13 \$\$,ext {TeV}\$\$ TeV. European Physical Journal C, 2018, 78, 291.	3.9	27
135	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at \hat{a} 's $\langle i \rangle$ s $\langle i \rangle$ = 13 TeV. Journal of Instrumentation, 2020, 15, P02027-P02027.	1.2	27
136	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\$$ sqrt{mathrm{s}} $\$$ = 13 TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
137	Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at $\$ sqrt $\{s\} = 7, \{ext\{TeV\}\}\$ Sournal of High Energy Physics, 2011, 2011, 1.	4.7	26
138	Search for resonant $\mbox{mathrm}\{t\}$ overline{mathrm} $\{t\}$ } production in lepton+jets events in pp collisions at $\mbox{sqrt}\{s\}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	26
139	Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton–proton collisions at \$sqrt{s} = 7 mathrm{TeV}\$. European Physical Journal C, 2012, 72, 1.	3.9	26
140	Search for the standard model Higgs boson in the H â†' ZZ â†' 2â,,"2ν channel in pp collision = {7};{ext{TeV}} \$. Journal of High Energy Physics, 2012, 2012, 1.	s at \$ sqrt 4.7	{ext{s}}
141	Measurement of the production cross section for pairs of isolated photons in pp collisions at $\$ sqrt $\$ {s} = 7;TeV \\$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	26
142	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
143	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
144	Measurement of the $mathrm{t}$ ar $mathrm{t}$ production cross section in the \ddot{i} , +jets channel in pp collisions at q mbox TeV . European Physical Journal C, 2013, 73, 1.	3.9	24

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145	Measurements of $f^{p} {\mathrm{p}} {\mathrm{p}}$	3.9	24
146	Inclusive b-hadron production cross section with muons in pp collisions at sqrt = 7; ext TeV } \$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	23
147	Search for large extra dimensions in the diphoton final state at the Large Hadron Collider. Journal of High Energy Physics, 2011, 2011, 1.	4.7	22
148	Search for physics beyond the standard model in events with \ddot{l} , leptons, jets, and large transverse momentum imbalance in pp collisions at $\frac{s}{r}$ mathrm{TeV}\$. European Physical Journal C, 2013, 73, 2493.	3.9	22
149	Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $s=13$ \$\$ $s=13$ \$\$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
150	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.	2.9	21
151	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
152	Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at sqrt s = 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	20
153	Search for exotic resonances decaying into WZ/ZZ in pp collisions at $\ \sqrt{s}=7 \ TeV$. Journal of High Energy Physics, 2013, 2013, 1.	4.7	20
154	Search for supersymmetry in pp collisions at \$sqrt{s} =7\$ TeV in events with a single lepton, jets, and missing transverse momentum. European Physical Journal C, 2013, 73, 2404.	3.9	20
155	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. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
156	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
157	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at \$\$ sqrt{mathrm{s}} \$\$ = 13 TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
158	Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at $s=7$ \$\$ sqrt{s}=7 \$\$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
159	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into \ddot{l} , leptons in pp collisions at s = 8 \$\$ sqrt{s}=8 \$\$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
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