

Patrick Dunne

List of Publications by Year in descending order

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Version: 2024-02-01

355
papers

18,757
citations

13865

67
h-index

19190

118
g-index

365
all docs

365
docs citations

365
times ranked

10020
citing authors

#	ARTICLE	IF	CITATIONS
1	<p>Continued Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV. European Physical Journal C, 2015, 75, 212.</p>	7.8	1,062
2	<p>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.</p>	3.9	541
3	<p>Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.</p>	3.9	499
4	<p>Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.</p>	4.7	473
5	<p>Performance of electron reconstruction and selection with the CMS detector in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of Instrumentation, 2015, 10, P06005-P06005.</p>	1.2	410
6	<p>Observation of the rare $B_s \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data. Nature, 2015, 522, 68-72.</p>	27.8	390
7	<p>Particle-flow reconstruction and global event description with the CMS detector. Journal of Instrumentation, 2017, 12, P10003-P10003.</p>	1.2	348
8	<p>Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.</p>	3.9	342
9	<p>Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 235.</p>	3.9	320
10	<p>Constraint on the matter-antimatter symmetry-violating phase in neutrino oscillations. Nature, 2020, 580, 339-344.</p>	27.8	313
11	<p>The CMS trigger system. Journal of Instrumentation, 2017, 12, P01020-P01020.</p>	1.2	307
12	<p>Evidence for collectivity in pp collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 765, 193-220.</p>	4.1	243
13	<p>Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. European Physical Journal C, 2014, 74, 3036.</p>	3.9	241
14	<p>Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV. Journal of Instrumentation, 2017, 12, P02014-P02014.</p>	1.2	216
15	<p>Search for lepton-flavour-violating decays of the Higgs boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 337-362.</p>	4.1	193
16	<p>Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 542.</p>	3.9	191
17	<p>Constraints on the spin-parity and anomalous Higgs boson couplings of the Higgs boson in proton collisions at 7 and 8 TeV. Physical Review D, 2015, 92, 012004.</p>	4.7	185
18	<p>Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2014, 74, 3149.</p>	3.9	179

#	ARTICLE	IF	CITATIONS
19	Evidence for Collective Multiparticle Correlations in $p \rightarrow \text{Pb}$ collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2015, 115, 012301.	7.8	177
20	Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes. European Physical Journal C, 2014, 74, 2980.	3.9	171
21	Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of Instrumentation, 2015, 10, P08010-P08010.	1.2	168
22	Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 91, .	4.7	167
23	Search for $C \rightarrow P$ Violation in Neutrino and Antineutrino Oscillations by the T2K Experiment with $2.2 \lesssim \Delta E < 10 < 21 < \dots$	7.8	165
24	Evidence for transverse-momentum- and pseudorapidity-dependent event-plane fluctuations in PbPb and $p \rightarrow \text{Pb}$ collisions. Physical Review C, 2015, 92, .	2.9	140
25	$p \rightarrow p$ Collisions at $p \rightarrow p < 13 < \dots$	7.8	139
26	Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 64-85.	4.1	129
27	Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at $\sqrt{s} = 8 < \dots$		
28	Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $s < \dots$	7.8	114
29	Observation of Charge-Dependent Azimuthal Correlations in $p \rightarrow \text{Pb}$ Collisions and Its Implication for the Search for the Chiral Magnetic Effect. Physical Review Letters, 2017, 118, 122301.	7.8	107
30	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
31	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
32	Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8, \text{ and } 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	95
33	Measurement of neutrino and antineutrino oscillations by the T2K experiment including a new additional sample of $\nu_{\mu} \rightarrow \nu_{\tau}$ interactions at the far detector. Physical Review D, 2017, 96, .	4.7	95
34	Measurement of the top quark mass using proton-proton data at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 116, 071801.	4.7	94
35	Performance of the CMS missing transverse momentum reconstruction in pp data at $\sqrt{s} = 8$ TeV. Journal of Instrumentation, 2015, 10, P02006-P02006.	1.2	93
36	Long-baseline neutrino oscillation physics potential of the DUNE experiment. European Physical Journal C, 2020, 80, 1.	3.9	93

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37	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
38	Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 91, 112004.	4.7	90
39	Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 520-542.	4.1	90
40	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 147.	3.9	88
41	Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 560-582.	4.1	87
42	Angular analysis of the decay $B \rightarrow K^* \ell^+ \ell^-$ from pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 424-448.	4.1	87
43	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 489-511.	4.7	87
44	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
45	Reconstruction and identification of τ , lepton decays to hadrons and $\tau \rightarrow \mu \nu_\mu$ at CMS. Journal of Instrumentation, 2016, 11, P01019-P01019.	1.2	85
46	Measurement of the differential cross section and charge asymmetry for inclusive $p \rightarrow W^+ X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	3.9	83
47	Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	3.9	82
48	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	81
49	Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	81
50	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
51	Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	78
52	Long-range two-particle correlations of strange hadrons with charged particles in pPb and PbPb collisions at LHC energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 200-224.	4.1	77
53	Physics potentials with the second Hyper-Kamiokande detector in Korea. Progress of Theoretical and Experimental Physics, 2018, 2018, .	6.6	77
54	Measurement of the $W^+ W^-$ cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.	3.9	74

#	ARTICLE	IF	CITATIONS
55	Search for Narrow Resonances in Dijet Final States at $\sqrt{s} = 7$ TeV xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" $\sqrt{s} = 7$ TeV Suppression of $\Upsilon(1S)$, $\Upsilon(2S)$ and $\Upsilon(3S)$ quarkonium states in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" $\sqrt{s_{NN}} = 2.76$ TeV Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s} = 7$ TeV display="inline" $\sqrt{s} = 7$ TeV Physical Review D, 2015, 91, ..	7.8	74
56	Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. European Physical Journal C, 2015, 75, 251.	3.9	73
59	Search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 7$ TeV xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" $\sqrt{s} = 7$ TeV Physical Review D, 2016, 94, ..	4.7	73
60	Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" $\sqrt{s} = 7$ TeV and $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 117, 051802.	7.8	73
61	Search for Λ^0 baryons in proton-proton collisions at $\sqrt{s} = 7$ TeV display="inline" $\sqrt{s} = 7$ TeV		



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73	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
74	Improved constraints on neutrino mixing from the T2K experiment with $\langle \theta_{13} \rangle < 10^\circ$ on target. Physical Review D, 2021, 103, .	4.7	64
75	Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at $s=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 98-119.	4.1	63
76	Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton-proton collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 187-209.	4.1	63
77	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
78	Measurement of the Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2017, 119, 152301.	7.8	62
79	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
80	Supernova neutrino burst detection with the Deep Underground Neutrino Experiment. European Physical Journal C, 2021, 81, 1.	3.9	62
81	Measurement of prompt J/ψ pair production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	61
82	Search for pair production of third-generation scalar leptoquarks and top squarks in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 739, 229-249.	4.1	61
83	Search for pair production of new light bosons decaying into muons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 752, 146-168.	4.7	61
84	Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV. Physical Review D, 2017, 96, .	4.7	61
85	Measurement of inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2017, 96, .	7.8	60
86	A search for pair production of new light bosons decaying into muons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 752, 146-168.	4.1	59
87	Measurement of inclusive jet cross sections in proton-proton and PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2017, 96, .	2.9	59
88	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2015, 75, 237.	3.9	58
89	Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 371-397.	4.1	57
90	Angular coefficients of Z bosons produced in pp collisions at $\sqrt{s}=8$ TeV and decaying to $l\bar{l}$ and $l\nu_l\bar{\nu}_l$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 154-175.	4.1	57

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91	Differential cross section measurements for the production of a W boson in association with jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 77, 578.	4.1	57
92	Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 578.	3.9	57
93	Limits on the Higgs boson lifetime and width from its decay to four charged leptons. Physical Review D, 2015, 92, .	4.7	55
94	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
95	Search for narrow resonances in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 13$ TeV and combination with 8 TeV data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 221-243.	4.1	54
96	Search for a pseudoscalar boson decaying into a Z boson and the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 221-243.	4.1	54
97	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 288.	3.9	54
98	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
99	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
100	Searches for a heavy scalar boson H decaying to a pair of 125 GeV Higgs bosons hh or for a heavy pseudoscalar boson A decaying to Zh, in the final states with h or Z. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 217-244.	4.1	53
101	Measurement of prompt and nonprompt J/ψ production in pp and pPb collisions at $\sqrt{s} = 5.02$ TeV. Physical Review Letters, 2017, 119, 141802.	3.9	53
102	Measurement of the prompt J/ψ production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 119, 141802.	4.1	52
103	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
104	Searches for heavy Higgs bosons in two-Higgs-doublet models and for χ decay using multilepton and diphoton final states in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2014, 90, .	4.7	51
105	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
106	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
107	Search for new resonances decaying via WZ to leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 740, 83-104.	4.1	49
108	Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	48

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109	Measurement of charged pion, kaon, and proton production in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Physical Review D, 2017, 96.	4.7	48
110	Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV/c in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, Section: Nuclear Energy, Particles and High-Energy Physics, 2018, 776, 195-216.	4.8	5.02
111	Yield Ratios in Pb-Pb and p-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, Section: Nuclear Energy, Particles and High-Energy Physics, 2018, 776, 195-216.	7.8	47
112	Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2016, 94, .	4.7	47
113	Nanosecond white-light Laue diffraction measurements of dislocation microstructure in shock-compressed single-crystal copper. Nature Communications, 2012, 3, 1224.	12.8	46
114	Measurement of the ratio R_{pPb} of the nuclear modification factor R_{pPb} to the nuclear modification factor R_{pPb} in proton-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, Section: Nuclear Energy, Particles and High-Energy Physics, 2018, 776, 195-216.		

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127	Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3060.	3.9	43
128	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	43
129	Search for the standard model Higgs boson produced through vector boson fusion and decaying to $b\bar{b}$. Physical Review D, 2015, 92, .	4.7	43
130	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 325.	3.9	43
131	Search for pair production of first and second generation leptoquarks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2016, 93, .	4.7	43
132	Search for new phenomena in monophoton final states in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 102-124.	4.1	43
133	Study of W boson production in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 565-586.	4.1	42
134	Evidence for exclusive $\bar{t}t' W + W \bar{\nu}$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	42
135	Search for pair-produced vectorlike quarks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2016, 93, .	4.7	41
136	Measurement of the $t\bar{t}$ production cross section in the $e\bar{\nu}$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	41
137	Measurement of the $t\bar{t}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 128.	3.9	41
138	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
139	Measurement of the $t\bar{t}$ production cross section using events in the $e\bar{\nu}$ final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 172.	3.9	40
140	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.	4.7	40
141	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 845.	3.9	38
142	Suppression of Excited States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2018, 120, 142301.	7.8	38
143	Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	37
144	Combined search for anomalous pseudoscalar HVV couplings in VH production in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	37

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145	Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 236.	3.9	37
146	Search for Monotop Signatures in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2015, 114, 101801.	7.8	36
147	Search for heavy Majorana neutrinos in $e^+e^- \rightarrow \text{jets} + e^+e^-$ jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	35
148	Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 103-129.	4.1	35
149	Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	35
150	Searches for anomalous quartic gauge couplings in $pp \rightarrow W^+W^-Z$ production and constraints on anomalous quartic gauge couplings in $pp \rightarrow W^+W^-Z$ production.	4.1	34
151	Searches for supersymmetry using the M _{T2} variable in hadronic events produced in pp collisions at 8 TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	34
152	Measurements of the $pp \rightarrow Z\gamma$ production cross section at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2016, 116, 052002.	4.1	34
153	Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 379.	7.8	34
154	Measurement of $t\bar{t}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 379.	3.9	34
155	Measurements of the $t\bar{t}$ production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections. European Physical Journal C, 2017, 77, 15.	3.9	34
156	Measurement of the cross section for electroweak production of $Z\gamma$ in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 770, 380-402.	4.1	34
157	Search for the production of a heavy resonance in proton-proton collisions at $\sqrt{s} = 8$ TeV decaying to a Z and a Higgs boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 255-277.	4.1	33
158	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371.	3.9	33
159	Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 758, 152-180.	4.1	33
160	Measurements of the $Z\gamma$ production cross sections in the $2\ell 2\gamma$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. European Physical Journal C, 2015, 75, 511.	3.9	32
161	Correlations in Pb-Pb and pp collisions at $\sqrt{s} = 2.76$ and 7 TeV. Physical Review Letters, 2016, 116, 052002.	7.8	32
162	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

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163	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=8$, ext {TeV} $s = 8$ TeV. European Physical Journal C, 2015, 75, 66.	3.9	31
164	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	31
165	Search for heavy gauge $W\hat{\epsilon}^2$ bosons in events with an energetic lepton and large missing transverse momentum at $\sqrt{s}=13$, ext {TeV} $s = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 278-301.	4.1	31
166	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1.	4.7	30
167	Measurements of spin correlations and top quark polarization using dilepton final states in $\sqrt{s}=8$, ext {TeV} $s = 8$ TeV. European Physical Journal C, 2016, 76, 237.	4.7	30
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173	Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	29
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175	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
176	Study of Z production in PbPb and pp collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV in the dimuon and dielectron decay channels. Journal of High Energy Physics, 2015, 2015, 1.	4.7	27
177	Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	27
178	Search for single production of scalar leptoquarks in proton-proton collisions at $\sqrt{s}=13$, ext {TeV} $s = 13$ 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.	4.7	27
179	Transverse momentum spectra of inclusive b jets in pPb collisions at $\sqrt{s_{\text{NN}}}=5.02$, mathrm{TeV} $s = 5.02$ NN. European Physical Journal C, 2016, 76, 372.	4.1	27
180	Search for anomalous couplings in boosted $Z\rightarrow\tau\tau$ decays. Journal of High Energy Physics, 2017, 2017, 1.	4.1	27

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182	Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	26
183	Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 2.76$ TeV. European Physical Journal C, 2016, 76, 1.	3.9	26
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187	Search for a low-mass pseudoscalar Higgs boson produced in association with a W boson in proton-proton collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 512-534.	4.1	25
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195	Measurement of the charge asymmetry in top quark pair production in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 074013.	4.7	24
196	Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 074013.	4.7	24
197	Measurement of the charge asymmetry in top quark pair production in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 074013.	4.1	24
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200	Search for excited quarks in the final state in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 433-456.	7.8	24
201	Simultaneous measurement of the muon neutrino charged-current cross section on oxygen and carbon without pions in the final state at T2K. <i>Physical Review D</i> , 2020, 101, .	4.7	24
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205	Updated T2K measurements of muon neutrino and antineutrino disappearance using protons on target. <i>Physical Review D</i> , 2017, 96, .	4.7	23
206	Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	23
207	Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	23
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211	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. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	23
212	Measurement of the ZZ production cross section and Z $\hat{1}/2\hat{1}/4$ branching fraction in pp collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 280-303.	4.1	22
213	Search for $\overline{\text{t}}\text{t}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	22
214	Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	22
215	Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying $\hat{1}/2\hat{1}/4$, leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	22
216	Search for light sterile neutrinos with the T2K far detector Super-Kamiokande at a baseline of 295 km. <i>Physical Review D</i> , 2019, 99, .	4.7	22

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218	Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	21
219	First combined measurement of the muon neutrino and antineutrino charged-current cross section without pions in the final state at T2K. Physical Review D, 2020, 101, .	4.7	21
220	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	4.1	20
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228	Principal-component analysis of two-particle azimuthal correlations in $Pb\text{-}Pb$ and $p\text{-}Pb$ collisions at CMS. Physical Review C, 2017, 96, .	4.7	19
229	Neutrino interaction classification with a convolutional neural network in the DUNE far detector. Physical Review D, 2020, 102, .	4.7	19
230	Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 503-525.	4.1	18
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233	Search for $W \rightarrow \tau \nu$ decaying to tau lepton and neutrino in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 196-216.	4.1	18
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236	Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	17
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239	Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width. Journal of High Energy Physics, 2016, 2016, 1.	4.7	17
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242	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 137-162.	4.1	17
243	Search for new physics in the monophoton final state in proton-proton collisions at $s = 13 \sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
244	Measurement of electroweak-induced production of $W^{\pm 3}$ with two jets in pp collisions at $s = 8 \sqrt{s}=8$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
245	Measurements of jet charge with dijet events in pp collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
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249	Measurement of dijet azimuthal decorrelation in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 536.	3.9	16
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251	Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	16
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254	Measurement of associated Z + charm production in proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 287.	3.9	16
255	Measurement of the cross section ratio $\sigma(\text{pp} \rightarrow \text{Z} + \text{charm}) / \sigma(\text{pp} \rightarrow \text{Z})$ in association with a lepton and inclusive jets and their ratio using dilepton final states in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 287.	4.7	15
256	Search for a Higgs boson decaying into $\tau^+\tau^-$ at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 341-362.	4.1	15
257	Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
258	Measurement of top quark polarisation in t-channel single top quark production. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
259	Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV in the single-lepton final state using the sum of masses of large-radius jets. Journal of High Energy Physics, 2017, 2017, 1.	7.8	15
260	Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
261	Measurement of the $t\bar{t} \rightarrow \tau^+\tau^-$ production cross section using events with one lepton and at least one jet in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
262	Search for new physics with dijet angular distributions in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
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264	Search for s channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	14
265	Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV in the single-lepton final state using the sum of masses of large-radius jets. Journal of High Energy Physics, 2016, 2016, 1.	4.7	14
266	Measurement of spin correlations in $t\bar{t} \rightarrow \tau^+\tau^-$ production using the matrix element method in the muon+jets final state in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 341-362.	4.1	14
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274	Measurement of the charged-current electron (anti-)neutrino inclusive cross-sections at the T2K off-axis near detector ND280. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
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276	Measurement of the top quark mass using charged particles in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Physical Review D, 2016, 93, .	4.7	13
277	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
278	Search for exotic decays of a Higgs boson into undetectable particles and one or more photons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 363-388.	4.1	13
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281	Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	12
282	Phenomenological MSSM interpretation of CMS searches in pp collisions at $s = 7 \sqrt{s} = 7 \text{ TeV}$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	12
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285	Search for high-mass Z^0 resonances in proton-antiproton collisions at $\sqrt{s} = 13 \text{ TeV}$ and 13 TeV using jet substructure techniques. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 363-387.	4.7	12
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287	Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Physical Review D, 2017, 95, .	4.7	12
288	Measurement of the Z^0 production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. Journal of High Energy Physics, 2015, 2015, 1.	4.7	11

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290	Search for electroweak production of charginos in final states with two \tilde{l} , leptons in pp collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	11
291	Search for standard model production of four top quarks in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 336-358.	4.1	11
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295	T2K measurements of muon neutrino and antineutrino disappearance using $\bar{\nu}_\mu$ protons on target. Physical Review D, 2021, 103, .	4.7	11
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297	Search for supersymmetry in final states with two photons in pp collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2017, 96, .	4.7	10
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299	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
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306	Inclusive search for supersymmetry using razor variables in pp collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2017, 95, .	4.7	9

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308	Measurement of the muon neutrino charged-current single $\hat{I}\epsilon+$ production on hydrocarbon using the T2K off-axis near detector ND280. Physical Review D, 2020, 101, .	4.7	9
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313	Measurement of the muon neutrino charged-current cross sections on water, hydrocarbon and iron, and their ratios, with the T2K on-axis detectors. Progress of Theoretical and Experimental Physics, 2019, 2019, .	6.6	8
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315	Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at $s = 8 \text{ TeV}$. Physical Review D, 2015, 92, .	4.7	7
316	Search for supersymmetry with photons in pp collisions at $s = 8 \text{ TeV}$. Physical Review D, 2015, 92, .	4.7	7
317	Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $s = 8 \text{ TeV}$. Journal of High Energy Physics, 2016, 2016, 1.	4.7	7
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322	Search for jet extinction in the inclusive jet- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 6 \langle \text{mml:mspace} \rangle \langle \text{mml:math} \rangle$ production from proton-proton collisions at $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 6 \langle \text{mml:mspace} \rangle \langle \text{mml:math} \rangle$ TeV. Physical Review D, 2014, 90, .	4.7	6
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324	Distributions of topological observables in inclusive three- and four-jet events in pp collisions at $s = 7 \text{ TeV}$. European Physical Journal C, 2015, 75, 302.	3.9	6

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325	Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 757, 6-31.	4.1	6
326	$\tilde{l}^*(nS)$ polarizations versus particle multiplicity in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 761, 31-52.	4.1	6
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328	Search for supersymmetry in electroweak production with photons and large missing transverse energy in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 479-500.	4.1	6
329	Measurement of the mass of the top quark in decays with a J/ψ meson in pp collisions at 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	6
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344	Commissioning of a High Pressure Time Projection Chamber with Optical Readout. <i>Instruments</i> , 2021, 5, 22.	1.8	4
345	Study of hadronic event-shape variables in multijet final states in pp collisions at $s = 7 \sqrt{s} = 7 \sqrt{s} \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	3
346	Search for $W\bar{e}^2 \hat{a}^1 t b$ in proton-proton collisions at $s = 8 \sqrt{s} = 8 \sqrt{s} \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	3
347	Observation of the decay $B \rightarrow a_1^+ T(2S) \bar{l} (1020) K^+$ in pp collisions at $\sqrt{s} = 8 \sqrt{s} \text{ TeV}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 764, 66-86.		
348	Search for top quark partners with charge $5/3$ in proton-proton collisions at $s = 13 \sqrt{s} = 13 \sqrt{s} \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	3
349	Search for new phenomena with multiple charged leptons in proton-proton collisions at $\sqrt{s} = 13 \sqrt{s} = 13 \sqrt{s} \text{ TeV}$. <i>European Physical Journal C</i> , 2017, 77, 1.	3.9	2
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