

# Alberto Zucchetta

## List of Publications by Year in descending order

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Version: 2024-02-01

315  
papers

13,248  
citations

24978

57  
h-index

35952

97  
g-index

329  
all docs

329  
docs citations

329  
times ranked

8785  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.4	541
2	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	1.4	499
3	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 421.	1.4	355
4	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	1.4	342
5	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.	1.6	320
6	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.	1.4	320
7	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.	1.4	241
8	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	1.4	198
9	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.	1.4	191
10	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.	1.4	179
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#	ARTICLE	IF	CITATIONS
19	Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	118
20	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.	1.6	103
21	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.	1.6	101
22	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	100
23	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.	1.4	98
24	Search for supersymmetry in hadronic final states using $M_{T2}$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	95
25	Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8,$ and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	95
26	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.	1.6	92
27	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.	1.4	88
28	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.	1.6	86
29	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.	1.6	85
30	Study of double parton scattering using W + 2-jet events in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	85
31	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.	1.6	85
32	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 2847.	1.4	85
33	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	0.5	84
34	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.	1.4	83
35	Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s_{NN}} = 5.02$ TeV collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509.	1.4	83
36	Suppression and azimuthal anisotropy of prompt and nonprompt $J/\psi$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	1.4	82

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37	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	1.6	81
38	Search for a charged Higgs boson in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2015, 2015, 1.	1.6	81
39	Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2015, 2015, 1.	1.6	78
40	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2020, 80, 75.	1.4	78
41	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	77
42	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ . European Physical Journal C, 2014, 74, 1.	1.4	75
43	Measurement of the $W^+W^-$ cross section in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.	1.4	74
44	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.	1.4	73
45	Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	70
46	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 $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2020, 80, 3.	1.4	70
47	Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	69
48	Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	68
49	Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186.	1.4	68
50	Measurement of the $t\bar{t}$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368.	1.4	68
51	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . European Physical Journal C, 2014, 74, 3129.	1.4	65
52	Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2016, 76, 439.	1.4	64
53	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	63
54	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2016, 76, 13.	1.4	62

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55	Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	62
56	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	62
57	Measurement of prompt $J/\psi$ pair production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	61
58	Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.	1.6	58
59	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$ . European Physical Journal C, 2015, 75, 237.	1.4	58
60	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $p\bar{p}$ collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2018, 78, 701.	1.4	58
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73	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13,\text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2019, 79, 564.	1.4	50
74	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.	1.4	49
75	Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	48
76	Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	48
77	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13,\text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2019, 79, 364.	1.4	48
78	Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	47
79	Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2015, 2015, 1.	1.6	46
80	Search for third-generation scalar leptoquarks decaying to a top quark and a $\tau, \mu, e$ lepton at $\sqrt{s}=13,\text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2018, 78, 707.	1.4	46
81	Search for microscopic black holes in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	44
82	Search for a light charged Higgs boson decaying to $c\bar{s}$ in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2015, 2015, 1-37.	1.6	44
83	Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s} = 8,\text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2015, 75, 151.	1.4	44
84	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13,\text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2018, 78, 140.	1.4	44
85	Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8,\text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2014, 74, 3060.	1.4	43
86	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	1.6	43
87	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8,\text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2015, 75, 325.	1.4	43
88	Evidence for exclusive $\tilde{t}\tilde{t}^* \rightarrow W + W^*$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 7$ and $8 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.	1.6	42
89	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	42
90	Measurement of the $t\bar{t}$ production cross section in the $e^+e^-$ channel in proton-proton collisions at $\sqrt{s} = 7$ and $8 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.	1.6	41

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91	Measurement of the $\overline{\text{t}}\text{t}\hat{\Lambda}^-$ production cross section in the all-jets final state in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 128.	1.4	41
92	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 $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	41
93	Measurement of the $\overline{\text{t}}\text{t}\hat{\Lambda}^-$ production cross section using events in the $\text{e}\mu e^{1/4}$ final state in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 172.	1.4	40
94	Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.	1.4	40
95	Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.	1.4	40
96	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.	1.4	40
97	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.	1.6	39
98	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $s = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	39
99	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.	1.4	39
100	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.	1.4	38
101	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.	1.4	38
102	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $\tau$ , leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	38
103	Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	37
104	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.	1.4	37
105	Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\hat{\Lambda}^{\pm}\hat{\Lambda}^{\mp}$ final state in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	36
106	Search for heavy Majorana neutrinos in $e\hat{\Lambda}^{\pm}\hat{\Lambda}^{\pm}$ jets and $e\hat{\Lambda}^{\pm}\hat{\Lambda}^{\pm}$ jets events in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	35
107	Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $s = 7$ and $8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	35
108	Measurement of exclusive $\text{p}\text{p}\rightarrow\text{p}\text{p}\text{b}\text{b}\text{p}$ photoproduction from protons in $\text{p}\text{p}\rightarrow\text{p}\text{p}\text{b}\text{b}\text{p}$ collisions at $\sqrt{s}=5.02$ TeV. European Physical Journal C, 2019, 79, 277.	1.4	35



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109	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 488.	1.4	35
110	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.	1.6	34
111	Measurement of $\overline{\text{tt}}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8, \text{ext } \{\text{TeV}\}$ $s = 8$ TeV. European Physical Journal C, 2016, 76, 379.	1.4	34
112	Measurements of the $\overline{\text{tt}}$ production cross section in lepton+jets final states in pp collisions at 8 $\text{ext } \{\text{TeV}\}$ TeV and ratio of 8 to 7 $\text{ext } \{\text{TeV}\}$ TeV cross sections. European Physical Journal C, 2017, 77, 15.	1.4	34
113	Measurement of the top quark mass with lepton+jets final states using $\text{pp}$ collisions at $\sqrt{s}=13, \text{ext } \{\text{TeV}\}$ . European Physical Journal C, 2018, 78, 891.	1.4	34
114	Search for single production of vector-like quarks decaying to a top quark and a $W$ boson in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$ $s = 13$ TeV. European Physical Journal C, 2019, 79, 90.	1.4	34
115	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	33
116	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371.	1.4	33
117	Measurement of exclusive $\rho^0$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02, \text{ext } \{\text{TeV}\}$ . European Physical Journal C, 2019, 79, 702.	1.4	33
118	Search for dark matter produced in association with a leptonically decaying $Z$ boson in proton-proton collisions at $\sqrt{s}=13, \text{ext } \{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 13.	1.4	33
119	Search for top squark pair production using dilepton final states in $\text{pp}$ collision data collected at $\sqrt{s}=13, \text{ext } \{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 3.	1.4	33
120	Measurement of $\text{pp}$ normalised multi-differential cross sections in $\text{pp}$ collisions at $\sqrt{s}=13, \text{ext } \{\text{TeV}\}$ , and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1.	1.4	33
121	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at $\sqrt{s} = 7 \text{ ext } \{\text{TeV}\}$ . European Physical Journal C, 2013, 73, 2674.	1.4	32
122	Measurements of the $Z$ production cross sections in the $2u$ channel in proton-proton collisions at $\sqrt{s} = 7$ and $8$ . European Physical Journal C, 2015, 75, 511.	1.4	32
123	Searches for pair production of third-generation squarks in $\sqrt{s}=13$ TeV pp collisions. European Physical Journal C, 2017, 77, 327.	1.4	32
124	Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	31
125	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=8, \text{ext } \{\text{TeV}\}$ $s = 8$ TeV. European Physical Journal C, 2015, 75, 66.	1.4	31
126	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.	1.6	31



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127	Search for top squark pair production in pp collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	1.6	31
128	A multi-dimensional search for new heavy resonances decaying to boosted $W$ , $Z$ , or $Z$ boson pairs in the dijet final state at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2020, 80, 237.	1.4	31
129	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	30
130	Measurement of the W-boson helicity in top-quark decays from $\overline{t} \rightarrow W b$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	30
131	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1.	1.6	30
132	Search for massive WH resonances decaying into the $u \overline{b}$ final state at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2016, 76, 237.	1.4	30
133	Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2017, 77, 751.	1.4	30
134	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ . European Physical Journal C, 2016, 76, 372.	1.4	29
135	Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.	1.6	29
136	A search for new phenomena in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ in final states with missing transverse momentum and at least one jet using the $\alpha_T$ variable. European Physical Journal C, 2017, 77, 294.	1.4	29
137	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	29
138	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2019, 79, 280.	1.4	29
139	Search for $\overline{t} \overline{b} \rightarrow \overline{t} \overline{b} H$ production in the $\overline{t} \rightarrow \overline{t} \gamma$ decay channel with leptonic $\overline{t} \rightarrow \overline{t} \gamma$ decays in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	1.6	28
140	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	1.6	28
141	Study of Z production in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ in the dimuon and dielectron decay channels. Journal of High Energy Physics, 2015, 2015, 1.	1.6	27
142	Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.	1.6	27
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 $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	27
144	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2018, 78, 291.	1.4	27

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145	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.	0.5	27
146	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.	1.6	27
147	Search for $W \rightarrow tb$ decays in the lepton + jets final state in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	26
148	Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	26
149	Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 2.76, \text{ext } \{TeV\}$ $\sqrt{s} = 2.76$ TeV. European Physical Journal C, 2016, 76, 1.	1.4	26
150	Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 8, \text{ext } \{TeV\}$ $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 325.	1.4	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.	1.6	25
152	Measurement of the $t\bar{t}$ production cross section in the $t\bar{t} + \text{jets}$ channel in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	1.4	24
153	Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	24
154	Search for third-generation scalar leptoquarks in the $t\bar{t}$ channel in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	24
155	Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. Journal of High Energy Physics, 2015, 2015, 1.	1.6	24
156	Measurements of $pp \rightarrow ZZ$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13, \text{ext } \{TeV\}$ $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.	1.4	24
157	Measurement of WZ and ZZ production in pp collisions at $\sqrt{s} = 8, \text{ext } \{TeV\}$ $\sqrt{s} = 8$ TeV in final states with b-tagged jets. European Physical Journal C, 2014, 74, 2973.	1.4	23
158	Observation of top quark pairs produced in association with a vector boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	23
159	Measurement of the jet mass in highly boosted $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8, \text{ext } \{TeV\}$ $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 467.	1.4	23
160	Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
161	Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
162	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.	1.4	23

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163	Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s}=8$ , $\sqrt{s}=8$ TeV and constraints on parton distribution functions. European Physical Journal C, 2017, 77, 746.	1.4	23
164	Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s}=13$ , $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 752.	1.4	23
165	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.	1.6	23
166	Search for physics beyond the standard model in events with $\bar{l}$ , leptons, jets, and large transverse momentum imbalance in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2493.	1.4	22
167	Search for $t\bar{t}\tilde{A}^0$ 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.	1.6	22
168	Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
169	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.	1.6	22
170	Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying $\bar{l}$ , leptons and two jets in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
171	Search for direct pair production of supersymmetric partners to the $\tau^{\pm}$ lepton in proton-proton collisions at $\sqrt{s}=13$ , $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 189.	1.4	22
172	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13$ , $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 370.	1.4	22
173	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.	1.6	21
174	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.	1.3	21
175	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.	1.6	21
176	Measurements of the $\overline{\mathcal{M}}^{\pm}$ charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	20
177	Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	20
178	Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $s = 7$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	20
179	Search for $\overline{\mathcal{M}}^{\pm}\mathcal{M}^{\pm}$ production in the all-jet final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	20
180	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.	1.6	20

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182	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.	1.6	20
183	Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	19
184	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\tilde{l}, \tilde{\nu}_\tau$ leptons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	19
185	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 723.	1.4	19
186	Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	18
187	Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 460.	1.4	18
188	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 20.	1.4	18
189	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.	1.6	18
190	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 629.	1.4	18
191	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.	1.4	18
192	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.	1.4	18
193	Search for stopped long-lived particles produced in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	17
194	Measurement of the $\Lambda_b^0$ lifetime in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	17
195	Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	17
196	Probing color coherence effects in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2901.	1.4	17
197	Measurement of the ratio of the production cross sections times branching fractions of $B_c \rightarrow \psi \ell \ell$ and $B_c \rightarrow \psi \ell \ell$ and $B_c \rightarrow \psi \ell \ell$ and $B_c \rightarrow \psi \ell \ell$ . $\mathcal{B}(\mathcal{B} \rightarrow \psi \ell \ell) / \mathcal{B}(\mathcal{B} \rightarrow \psi \ell \ell)$ $\approx 0.78 \pm 0.14$ (stat) $\pm 0.17$ (syst) $\pm 0.17$ (th). ETQq1 1 0.784314 rgBT /Overlock	1.6	17
198	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.	1.6	17

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200	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.	1.6	17
201	Measurement of electroweak-induced production of $W\bar{t}^3$ with two jets in pp collisions at $\sqrt{s} = 8$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2017, 2017, 1.	1.6	17
202	Measurements of jet charge with dijet events in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	17
203	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.	1.6	17
204	Search for $Z\bar{t}^3$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
205	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.	1.4	17
206	Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 1.	1.4	17
207	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.	1.6	17
208	Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	16
209	Measurement of jet multiplicity distributions in $t\bar{t}$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 3014.	1.4	16
210	Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $e\mu$ pair in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 317.	1.4	16
211	Measurement of dijet azimuthal decorrelation in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 536.	1.4	16
212	Search for excited leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	16
213	Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	16
214	Measurement of the production cross section of a $Wb$ boson in association with two b jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 92.	1.4	16
215	Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 287.	1.4	16
216	Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 886.	1.4	16



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218	Measurement of top quark polarisation in t-channel single top quark production. Journal of High Energy Physics, 2016, 2016, 1.	1.6	15
219	Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	15
220	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.	1.6	15
221	Measurement of the $t\bar{t}\hat{A}^0$ production cross section using events with one lepton and at least one jet in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	15
222	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.	1.6	15
223	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.	1.6	14
224	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.	1.6	14
225	Search for associated production of dark matter with a Higgs boson decaying to $b\bar{b}\hat{A}^0$ or $\hat{I}^0$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
226	Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
227	Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
228	Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
229	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.	1.6	14
230	Measurements of the pp $\hat{t}\bar{t}'$ 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.	1.6	14
231	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in $\sqrt{s_{NN}}=2.76$ and 5.02 TeV collisions. European Physical Journal C, 2020, 80, 534.	1.4	14
232	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	14
233	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2022, 82, 153.	1.4	14
234	Measurement of the underlying event activity in pp collisions at $\sqrt{s}=0.9$ and 7 TeV with the novel jet-area/median approach. Journal of High Energy Physics, 2012, 2012, 1.	1.6	13

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236	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.	1.6	13
237	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 $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	13
238	Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	13
239	Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	13
240	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2022, 2022, 1.	1.6	13
241	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.	1.6	12
242	Phenomenological MSSM interpretation of CMS searches in pp collisions at $s = 7 \sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	12
243	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	12
244	Search for dark matter produced in association with a Higgs boson decaying to $\hat{\nu}^3$ or $\tilde{l}, +\tilde{l}, \hat{\nu}$ at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	12
245	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2019, 79, 1.	1.4	12
246	Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	12
247	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2019, 79, 893.	1.4	12
248	Development and validation of HERWIG7 tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	1.4	12
249	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2022, 2022, 1.	1.6	12
250	Measurement of the $Z\hat{\nu}^3$ 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.	1.6	11
251	Search for electroweak production of charginos in final states with two $\tilde{l},$ leptons in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	11
252	Measurement of the semileptonic $t \hat{t} + \hat{\nu}^3$ production cross section in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	11



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253	Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at $\sqrt{s}=8$ TeV using $H \rightarrow WW$ decays. Journal of High Energy Physics, 2017, 2017, 1.	1.6	11
254	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	11
255	Search for supersymmetry in events with a photon, jets, $\mathcal{B}$ -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 444.	1.4	11
256	Study of the underlying event in top quark pair production in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 123.	1.4	11
257	Measurement of electroweak production of a $W$ boson in association with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 43.	1.4	11
258	Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at $\sqrt{s}=2.76$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	10
259	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.	1.6	10
260	Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	10
261	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2018, 78, 242.	1.4	10
262	Measurement of the $Z/\gamma \rightarrow \mu\mu$ cross section in pp collisions at $\sqrt{s}=13$ TeV and validation of $Z/\gamma \rightarrow \mu\mu$ . European Physical Journal C, 2018, 78, 708.	1.4	10
263	Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\bar{u}$ final state. Journal of High Energy Physics, 2018, 2018, 1.	1.6	10
264	Evidence for $W$ production from double-parton interactions in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 1.	1.4	10
265	Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 1.	1.4	9
266	Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	9
267	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.	1.4	9
268	Searches for $W$ 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.	1.6	8
269	Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s_{NN}}=5.02$ and 8.16 TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	8
270	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.	1.6	8

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271	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $\{p\}\{ext\{p\}\}$ collisions at $\sqrt{s}=13,\text{ext}\{TeV\}\{ext\{V\}$ TeV. European Physical Journal C, 2019, 79, 773.	1.4	8
272	Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13 \sqrt{s}=13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	8
273	Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	7
274	Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	7
275	Search for high-mass $Z\hat{1}^3$ resonances in $e+e\hat{1}^3$ and $\hat{1}/4 + \hat{1}/4 \hat{1}^3$ final states in proton-proton collisions at $s = 8 \sqrt{s}=8$ and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	7
276	Study of central exclusive "Equation missing" $\langle !- \text{No EquationSource Format="TEX", only image --} \rangle$ production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV. European Physical Journal C, 2020, 80, 718.	1.4	7
277	Comparison of the $Z\hat{1}^3 \hat{1}^- + \text{jets}$ to $\hat{1}^3 + \text{jets}$ cross sections in pp collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	6
278	Distributions of topological observables in inclusive three- and four-jet events in pp collisions at $\sqrt{s} = 7$ and $s = 7 \sqrt{s}=7$ TeV. European Physical Journal C, 2015, 75, 302.	1.4	6
279	Measurement of the mass of the top quark in decays with a $J/\psi$ meson in pp collisions at 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	6
280	Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $s = 13 \sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	6
281	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in $\{p\}\{mathrm\{p\}\}$ collisions at $\sqrt{s} = 8,\text{ext}\{TeV\}$ TeV. European Physical Journal C, 2019, 79, 969.	1.4	6
282	Search for the associated production of the Higgs boson with a top-quark pair. , 2014, 2014, 1.		6
283	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.	1.6	6
284	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.	1.6	6
285	Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	5
286	Search for the production of an excited bottom quark decaying to $tW$ in proton-proton collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	5
287	Search for a heavy resonance decaying to a top quark and a vector-like top quark at $s = 13 \sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	5
288	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13 \sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	5

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289	Search for the pair production of light top squarks in the $e^{\pm}\mu^{\pm}$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	5
290	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.	1.4	5
291	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.	1.6	5
292	Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with a dedicated high-rate data stream. Journal of High Energy Physics, 2022, 2022, .	1.6	5
293	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.	1.6	5
294	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.	1.6	5
295	Search for pair production of excited top quarks in the lepton + jets final state. Journal of High Energy Physics, 2014, 2014, 1.	1.6	4
296	Search for dark matter particles in proton-proton collisions at $s = 8$ $\sqrt{s}=8$ TeV using the razor variables. Journal of High Energy Physics, 2016, 2016, 1.	1.6	4
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