

# Thiago Rafael Fernandez Perez Tomei

## List of Publications by Year in descending order

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489  
papers

29,560  
citations

5248

83  
h-index

9553

142  
g-index

498  
all docs

498  
docs citations

498  
times ranked

10702  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of the Inclusive and Differential Higgs Boson Production Cross Sections in the Decay Mode to a Pair of Leptons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	2.9	9
2	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
3	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
4	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
5	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	1
6	Search for strongly interacting massive particles generating trackless jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 213.	1.4	3
7	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
8	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	13
9	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.	1.6	5
10	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	12
11	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
12	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
13	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
14	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
15	Measurement of the inclusive $\overline{t}t$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
16	Precision measurement of the W boson decay branching fractions in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, 1.	1.6	5
17	Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
18	Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	4

#	ARTICLE	IF	CITATIONS
19	Search for invisible decays of the Higgs boson produced via vector boson fusion in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2022, 105, .	1.6	30
20	Observation of $B \rightarrow s \psi(2S) K^0_{\text{short}}$ and $B \rightarrow s \psi(2S) K^0_{\text{long}}$ decays. European Physical Journal C, 2022, 82, .	1.4	1
21	Meson in Pb-Pb and $B \rightarrow c \bar{c} \psi(2S)$ collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2022, 105, .	2.9	3
22	Inclusive nonresonant multilepton probes of new phenomena at $\sqrt{s}=13$ TeV. Physical Review D, 2022, 105, .	1.6	14
23	Search for dark matter produced in association with a leptonically decaying $Z$ boson in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 13.	1.4	33
24	Search for top squark pair production using dilepton final states in collision data collected at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 3.	1.4	33
25	Measurement of differential top quark production cross sections using top quarks at large transverse momenta in $\sqrt{s}=13$ TeV collisions. European Physical Journal C, 2021, 103, .	1.6	7
26	Measurements of $p\bar{p} \rightarrow Z\gamma$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 200.	1.4	24
27	Development and validation of HERWIG <sup>2</sup> tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	1.4	12
28	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
29	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 488.	1.4	35
30	Observation of a New Excited Beauty Strange Baryon Decaying to $\Lambda^0 \bar{c} b$ . Physical Review Letters, 2021, 126, 252003.	2.9	22
31	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
32	Search for long-lived particles using displaced jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2021, 104, .	1.6	25
33	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
34	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
35	Hard color-singlet exchange in dijet events in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2021, 104, .	1.6	3
36	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

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37	Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production and decay using the four-lepton final state. Physical Review D, 2021, 104, .	1.6	16
38	Measurements of angular distance and momentum ratio distributions in three-jet and $Z + \text{two-jet}$ final states in $pp$ collisions. European Physical Journal C, 2021, 81, 852.	1.4	2
39	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, \sqrt{s} = 8$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	1.4	123
40	Measurement of the electroweak production of $Z + \text{two jets}$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 852.	1.6	13
41	Measurements of the Electroweak Diboson Production Cross Sections in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV Using Leptonic Decays. Physical Review Letters, 2021, 127, 191801.	2.9	6
42	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
43	Measurement of the $Z + \text{two jets}$ production cross sections in the full kinematic range using strange hadron production in $pp$ collisions at $\sqrt{s} = 13$ TeV. Physical Review C, 2020, 101, .	1.6	16
44	Search for $Z + \text{two jets}$ production in $pp$ collisions at $\sqrt{s} = 13$ TeV. Physical Review C, 2020, 101, .	1.1	10
45	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
46	Observation of the $Z + \text{two jets}$ production in $pp$ collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 152001.	2.9	14
47	Study of central exclusive production in proton-proton collisions at $\sqrt{s} = 5.02$ TeV and 13 TeV. European Physical Journal C, 2020, 80, 718.	1.4	7
48	Evidence for Top Quark Production in Nucleus-Nucleus Collisions. Physical Review Letters, 2020, 125, 222001.	2.9	7
49	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
50	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
51	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in $PbPb$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV and 5.02 TeV. European Physical Journal C, 2020, 80, 534.	1.4	14
52	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 75.	1.4	78
53	Searches for physics beyond the standard model with the $M_{T2}$ variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 3.	1.4	70
54	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

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55	Search for a narrow resonance lighter than 200 GeV decaying to a pair of muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	2.9	61
56	Search for a narrow resonance lighter than 200 GeV decaying to a pair of muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	2.9	61
57	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
58	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8$ , $13$ , and $14$ TeV with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	1.4	5
59	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 370.	1.4	22
60	Measurement of normalized multi-differential cross sections in $pp$ collisions at $\sqrt{s} = 13$ 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
61	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
62	Centrality and pseudorapidity dependence of the transverse energy density in $pp$ collisions at $\sqrt{s} = 13$ TeV. Physical Review C, 2019, 100, .	1.1	6
63	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
64	Measurement of exclusive $\rho^0$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 702.	1.4	33
65	Search for Dark Matter Particles Produced in Association with a Top Quark Pair at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 011803.	2.9	12
66	Search for the pair production of light top squarks in the $e^+e^-$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	5
67	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
68	Measurements of the $pp \rightarrow WZ$ 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
69	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 $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 368.	1.4	68
70	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	12
71	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 280.	1.4	29
72	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 364.	1.4	48

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73	Search for $\overline{p}p \rightarrow \overline{p}p$ collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 1.	2.9	24
74	Search for $\overline{p}p \rightarrow \overline{p}p$ production in the $\overline{p}p$ decay channel with leptonic $\overline{p}p$ decays in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 1.	1.6	28
75	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.	2.9	62
76	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
77	Search for long-lived particles using delayed photons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 100, .	1.6	14
78	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	28
79	Study of the $\overline{p}p \rightarrow \overline{p}p$ decay in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	3
80	Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair. Physical Review Letters, 2018, 120, 071802.	2.9	40
81	Observation of Electroweak Production of Same-Sign $W$ Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 092301.	2.9	86
82	Search for $\overline{p}p \rightarrow \overline{p}p$ and $\overline{p}p \rightarrow \overline{p}p$ collisions at the LHC. Physical Review Letters, 2018, 120, 092301.	2.9	39
83	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
84	Measurement of the Splitting Function in $\overline{p}p$ and Pb-Pb Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 142302.	2.9	70
85	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
86	Suppression of Excited $\overline{p}p$ States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2018, 120, 142301.	2.9	38
87	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 291.	1.4	27
88	Measurements of the $\overline{p}p \rightarrow \overline{p}p$ production cross section and the $\overline{p}p \rightarrow \overline{p}p$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 165.	1.4	52
89	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
90			

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91	Measurement of the inclusive $\sigma(\overline{\ell\ell})$ cross section in pp collisions at $\sqrt{s}=5.02$ TeV using final states with at least one charged lepton. Journal of High Energy Physics, 2018, 2018, 1.	1.6	5
92	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
93	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
94	Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	57
95	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	63
96	Measurement of differential cross sections in the kinematic angular variable $\tilde{\eta}^*$ for inclusive Z boson production in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	4
97	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	12
98	Measurement of normalized differential $\sigma(\overline{\ell\ell})$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	18
99	Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
100	Search for ZZ resonances in the $2\hat{\alpha}, "2\hat{1}/2$ final state in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	4
101	Measurement of the polarization and angular parameters in $\sigma(\overline{\ell\ell})$ 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	15
102	Search for $\sigma(\overline{\ell\ell})\mathcal{H}$ production in the all-jet final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	20
103	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
104	Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1.	1.6	43
105	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	12
106	Measurement of the top quark mass with lepton+jets final states using $\sigma(\overline{\ell\ell})\mathcal{H}$ collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 891.	1.4	34
107	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	57
108	Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2018, 98, .	1.6	24

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109	Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 241802.	2.9	50
110	Search for $Z\bar{1}^3$ 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
111	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
112	Search for third-generation scalar leptoquarks decaying to a top quark and a $\tau$ lepton at $\sqrt{s}=13$ Te. European Physical Journal C, 2018, 78, 707.	1.4	46
113	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
114	Studies of $B_s^0 \rightarrow B_s^0 \gamma$ and $B_s^0 \rightarrow B_s^0 \gamma^*$ decays.		



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127	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $l$ , leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	38
128	Observation of Higgs Boson Decay to Bottom Quarks. Physical Review Letters, 2018, 121, 121801.	2.9	219
129	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
130	Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	13
131	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	62
132	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
133	Search for Narrow Resonances in the $b\bar{b}$ -Tagged Dijet Mass Spectrum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 120, 201801.	2.9	36
134	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	42
135	Jet properties in PbPb and pp collisions at $\sqrt{s_{NN}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	13
136	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 140.	1.4	44
137	Constraining Gluon Distributions in Nuclei Using Dijets in Proton-Proton and Proton-Lead Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 062002.	2.9	22
138	Observation of $t\bar{t}H$ Production. Physical Review Letters, 2018, 120, 231801.	2.9	209
139	Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 120, 241801.	2.9	19
140	Search for the $X$ production cross section and the $X \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 1.	2.9	47
141	Measurements of the $(p\bar{p}) \rightarrow Z\bar{Z}$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 1.		3
142	Measurements of the $t\bar{t}$ production cross section in lepton+jets final states in pp collisions at $\sqrt{s}=8$ TeV and ratio of 8 to 7 TeV cross sections. European Physical Journal C, 2017, 77, 15.	1.4	34
143	Measurement of the $t\bar{t}$ production cross section using events in the $e\mu$ final state in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 172.	1.4	40
144	Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $\sqrt{s}=8$ TeV and cross section ratios to 7 TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	54

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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.	1.4	37
146	Measurement of prompt and nonprompt $J/\psi$ production in pp and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.	1.4	53
147	A search for new phenomena in pp collisions at $\sqrt{s} = 13$ TeV in final states with missing transverse momentum and at least one jet using the $\alpha_T$ variable. European Physical Journal C, 2017, 77, 294.	1.4	29
148	Measurement of the Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2017, 119, 141802.	2.9	62
149	Measurement of the 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.	1.1	6
150	Measurement of the jet mass in highly boosted $\overline{t}t$ events from pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 467.	1.4	23
152	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.	2.9	54
153	Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 119, 111802.	2.9	35
154	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
155	Observation of Top Quark Production in Proton-Nucleus Collisions. Physical Review Letters, 2017, 119, 242001.	2.9	23
156	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
157	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
158	Relative Modification of Prompt $J/\psi$ Production in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2017, 119, 221802.	2.9	24
159	Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 119, 221802.	2.9	40
160	Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
161	Principal-component analysis of two-particle azimuthal correlations in PbPb and pPb collisions at CMS. Physical Review C, 2017, 96, .	1.4	11
162	Search for top squark pair production in pp collisions at $\sqrt{s} = 13$ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	1.6	31

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163	Measurement of the $t\bar{t}$ 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
164	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.	1.6	29
165	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
166	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
167	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
168	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.	1.4	55
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170	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	31
171	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.	1.6	27
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174	Search for Narrow Resonances in Dijet Final States at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 117, 031802.	2.9	74
175	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.	1.4	64
176	Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 117, 051802.	2.9	73
177	Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 117, 051802.	2.9	20
178	Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 116, 052002.	2.9	34
179	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2016, 76, 372.	1.4	29
180	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

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183	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.	1.4	34
184	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
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186	Search for excited leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	16
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188	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	1.4	499
189	Measurement of top quark polarisation in t-channel single top quark production. Journal of High Energy Physics, 2016, 2016, 1.	1.6	15
190	Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2016, 116, 071801.	2.9	114
191	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\tau\tau$ , leptons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	19
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194	Evidence for Collective Multiparticle Correlations in $p$ -Pb collisions. Physical Review Letters, 2015, 115, 012301.	2.9	177
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197	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
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202	Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	81
203	Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	12
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210	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
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215	Search for Monotop Signatures in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2015, 114, 101801.	2.9	36
216	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

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218	Measurement of the ratio of the production cross sections times branching fractions of $B_c \rightarrow \mu^+ \mu^- \gamma$ and $B_c \rightarrow \mu^+ \mu^- \gamma$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2015, 75, 66.	2.9	60
219	Study of Vector Boson Scattering and Search for New Physics in Events with Two Same-Sign Leptons and Two Jets. <i>Physical Review Letters</i> , 2015, 114, 051801.	2.9	80
220	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2015, 75, 66.	1.4	31
221	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2015, 75, 147.	1.4	88
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224	Measurement of the ratio of the production cross sections times branching fractions of $B_c \rightarrow \mu^+ \mu^- \gamma$ and $B_c \rightarrow \mu^+ \mu^- \gamma$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2015, 75, 66.	1.6	17
225	Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	46
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227	Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	78
228	Observation of the rare $B_s \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data. <i>Nature</i> , 2015, 522, 68-72.	13.7	390
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232	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. <i>European Physical Journal C</i> , 2015, 75, 237.	1.4	58
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237	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.	1.4	43
238	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 3129.	1.4	65
239	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.	1.4	49
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241	Measurement of prompt $J/\psi$ pair production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	61
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243	Measurement of jet fragmentation in PbPb and pPb collisions. Physical Review Letters, 2014, 112, 161802.	1.1	113
244	Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions. Physical Review C, 2014, 89, 054907.	1.1	133
245	Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays. Physical Review Letters, 2014, 112, 161802.	2.9	45
246	Measurement of inclusive $W$ and $Z$ Boson Production Cross Sections in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 112, 171801.	2.9	94
247	Measurement of $W$ and $Z$ Boson Production Cross Sections in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 112, 171801.	2.9	63
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250	Search for Flavor-Changing Neutral Currents in Top-Quark Decays. Physical Review Letters, 2014, 112, 171801.	1.6	64
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255	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
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260	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{\{s_{NN}\}} = 2.76$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	77
261	Measurement of associated W + charm production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	55
262	Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	48
263	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 1.	1.4	75
264	Measurement of WZ and ZZ production in pp collisions at $\sqrt{s} = 8$ TeV in final states with b-tagged jets. European Physical Journal C, 2014, 74, 2973.	1.4	23
265	Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes. European Physical Journal C, 2014, 74, 2980.	1.4	171
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269	Search for $W\hat{\epsilon}^{\pm}tb$ 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
270	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



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273	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	39
274	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
275	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
276	Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	69
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286	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
287	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
288	Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.	1.6	58

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293	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
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295	Search for exotic resonances decaying into WZ/ZZ in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	20
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297	Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469.	1.4	68
298	Measurement of neutral strange particle production in the underlying event in proton-proton collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2013, 88, .	1.6	7
299	Observation of a diffractive contribution to dijet production in proton-proton collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2013, 87, .	1.6	24
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302	Search for supersymmetry in hadronic final states with missing transverse energy using the variables $\hat{t}$ and b-quark multiplicity in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2013, 73, 2568.	1.4	147
303	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
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305	Search for physics beyond the standard model in events with $\bar{\nu}_\tau$ , 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
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326	Search for Top Squarks in Parity-Violating Supersymmetry Using Three or More Leptons and Tagged Jets. Physical Review Letters, 2013, 111, 221801.	2.9	47
327	Search for $Z^0$ resonances decaying to dilepton+jets final states in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 87, .	1.6	34
328	Measurements of differential jet cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the CMS detector. Physical Review D, 2013, 87, .	1.6	115
329	Search for new physics in final states with a lepton and missing transverse energy in $pp$ collisions at the LHC. Physical Review D, 2013, 87, .	1.6	11
330	Search for fractionally charged particles in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 87, .	1.6	41
331	Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2013, 110, 042301.	2.9	82
332	Evidence for Associated Production of a Single Top Quark and W Boson in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2013, 110, 022003.	2.9	61
334	Search for pair-produced dijet resonances in four-jet final states in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2013, 110, 022003.	2.9	43
335	Search for Pair-Production of Third-Generation Leptoquarks and Top Squarks in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2013, 110, 022003.	1.6	12
336	Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network. Physical Review D, 2013, 87, .	2.9	44
337	Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2013, 87, .	1.1	185
339	Search for supersymmetry in final states with a single lepton, b-quark jets, and missing transverse energy in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 87, .	1.6	9
340	Measurement of associated production of vector bosons and top quark-antiquark pairs in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2013, 110, 022003.	2.9	45
341	Identification of b-quark jets with the CMS experiment. Journal of Instrumentation, 2013, 8, P04013-P04013.	0.5	418
342	The performance of the CMS muon detector in proton-proton collisions at $\sqrt{s} = 7$ TeV at the LHC. Journal of Instrumentation, 2013, 8, P11002-P11002.	0.5	119

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344	Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2012, 109, 171803.	2.9	62
345	Azimuthal Anisotropy of Charged Particles at High Transverse Momenta in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2012, 109, 171803.	2.9	62
346	Search for a $WZ$ or $ZZ$ decay channel in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 109, 071803.	2.9	29
347	Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 109, 171803.	2.9	118
348	Search for New Physics with Same-Sign Isolated Dilepton Events with Jets and Missing Transverse Energy. Physical Review Letters, 2012, 109, 071803.	2.9	49
349	Search for the Standard Model Higgs Boson in the Decay Channel $Z\gamma$ in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 109, 171803.	2.9	97
350	Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 109, 171803.	2.9	65
351	Inclusive search for squarks and gluinos in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 109, 171803.	2.9	95
352	Search for supersymmetry in events with $b$ -quark jets and missing transverse energy in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2012, 86, .	1.6	18
353	Inclusive search for squarks and gluinos in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 109, 171803.	1.6	41
354	Study of the Dijet Mass Spectrum in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 109, 251801.	1.6	15
355	Search for Dark Matter and Large Extra Dimensions in $pp$ Collisions Yielding a Photon and Missing Transverse Energy. Physical Review Letters, 2012, 108, 261803.	2.9	126
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357	Observation of a New $\Lambda$ Baryon. Physical Review Letters, 2012, 108, 252002.	2.9	65
358	Performance of $\tau, q$ -lepton reconstruction and identification in CMS. Journal of Instrumentation, 2012, 7, P01001-P01001.	0.5	91
359	Inclusive $b$ -jet production in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	39
360	Search for quark compositeness in dijet angular distributions from $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	18

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363	Measurement of the cross section for production of $b$ decaying to muons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	6
364	Measurement of the $Z \rightarrow b\bar{b}$ -jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	39
365	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	31
366	Search for anomalous production of multilepton events in pp collisions at $\sqrt{s} = 7, \text{TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	68
367	Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7; \text{TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	117
368	Search for leptonic decays of $W \rightarrow e\bar{e}$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	49
369	Search for stopped long-lived particles produced in pp collisions at $\sqrt{s} = 7 \text{TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	17
370	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	30
371	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
372	Search for anomalous $t$ production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1.	1.6	58
373	Search for dark matter and large extra dimensions in monojet events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	168
374	Search for a fermiophobic Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	15
375	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
376	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	85
377	Measurement of the $t$ production cross section in the dilepton channel in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	69
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381	Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	11
382	Search for resonant $\overline{\text{t}}\text{t}$ production in lepton+jets events in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26
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384	Measurement of the single-top-quark t-channel cross section in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	83
385	Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	14
386	Measurement of the top-quark mass in $\overline{\text{t}}\text{t}$ events with lepton+jets final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	38
387	Search for Heavy Neutrinos and $\overline{\text{t}}\text{t}$ production cross section in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	35
388	Search for Heavy Neutrinos and $\overline{\text{t}}\text{t}$ production cross section in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	2.9	53
389	A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider. Science, 2012, 338, 1569-1575.	6.0	85
390	Measurement of the underlying event in the Drellâ€“Yan process in protonâ€“proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	33
391	Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	154
392	A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	129
393	Measurement of the top-quark mass in $\overline{\text{t}}\text{t}$ events with dilepton final states in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	42
394	Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in protonâ€“proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	26
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398	Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.	1.4	11
399	$J/\psi$ and $\Upsilon(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	81
400	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 2\gamma, 2l, 2l, 2l$ channel in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	26
401	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow \gamma\gamma, \gamma\gamma, \gamma\gamma, \gamma\gamma, \gamma\gamma, \gamma\gamma$ decay channel in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	11
402	Search for $B \rightarrow \mu^+ \mu^- + \mu^+ \mu^-$ and $B \rightarrow \mu^+ \mu^- + \mu^+ \mu^-$ decays. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	57
403	Search for microscopic black holes in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	34
404	Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	16
405	Measurement of the mass difference between top and antitop quarks. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	15
406	Study of high-p <sub>T</sub> charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.	1.4	369
407	Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	58
408	Exclusive $\Upsilon(3S) \rightarrow \mu^+ \mu^- + \mu^+ \mu^-$ production in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	56
409	Measurement of the production cross section for pairs of isolated photons in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	26
410	Measurement of the production cross section for pairs of isolated photons in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	45
411	Measurement of the production cross section for pairs of isolated photons in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	88
412	Measurement of the differential cross section for isolated prompt photon production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review D</i> , 2011, 84, .	1.6	65
413	Measurement of the differential cross section for isolated prompt photon production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review D</i> , 2011, 84, .	1.6	35
414	Observation and studies of jet quenching in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Physical Review C</i> , 2011, 84, .	1.1	455



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416	Measurement of Dijet Angular Distributions and Search for Quark Compositeness in $pp$ Collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2011, 106, 201804.	2.9	54
417	Missing transverse energy performance of the CMS detector. <i>Journal of Instrumentation</i> , 2011, 6, P09001-P09001.	0.5	102
418	Prompt and non-prompt $J/\psi$ production in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2011, 71, 1.	1.4	135
419	Measurement of the $\tau$ production cross section in $pp$ collisions at $\sqrt{s} = 7$ TeV using the kinematic properties of events with leptons and jets. <i>European Physical Journal C</i> , 2011, 71, 1.	1.4	37
420	Charged particle multiplicities in $pp$ interactions at $\sqrt{s} = 0.9, 2.36,$ and $7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	106
421	Measurements of inclusive $W$ and $Z$ cross sections in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	122
422	Search for heavy stable charged particles in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	38
423	Inclusive $b$ -hadron production cross section with muons in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	23
424	Measurement of $\overline{B}B$ angular correlations based on secondary vertex reconstruction at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	32
425	Measurement of the lepton charge asymmetry in inclusive $W$ production in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	59
426	Measurement of Bose-Einstein correlations in $pp$ collisions at $\sqrt{s} = 0.9$ and $7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	30
427	Strange particle production in $pp$ collisions at $\sqrt{s} = 0.9$ and $7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	139
428	Search for large extra dimensions in the diphoton final state at the Large Hadron Collider. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	22
429	Search for resonances in the dilepton mass distribution in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	39
430	Search for physics beyond the standard model in opposite-sign dilepton events in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	26
431	Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	46
432	Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in $pp$ collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	10

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434	Long-range and short-range dihadron angular correlations in central PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	65
435	Search for light resonances decaying into pairs of muons as a signal of new physics. Journal of High Energy Physics, 2011, 2011, 1.	1.6	13
436	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	1.6	29
437	Search for same-sign top-quark pair production at $\sqrt{s} = 7$ TeV and limits on flavour changing neutral currents in the top sector. Journal of High Energy Physics, 2011, 2011, 1.	1.6	40
438	Charged particle transverse momentum spectra in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	56
439	Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	20
440	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	99
441	Search for new physics with jets and missing transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	49
442	Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in events with a single lepton, jets, and missing transverse momentum. Journal of High Energy Physics, 2011, 2011, 1.	1.6	32
443	Measurement of the underlying event activity at the LHC with $\sqrt{s} = 7$ TeV and comparison with $\sqrt{s} = 0.9$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	97
444	Measurement of the Drell-Yan cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	36
445	Measurement of the inclusive W and Z production cross sections in pp collisions at $\sqrt{s} = 7$ TeV with the CMS experiment. Journal of High Energy Physics, 2011, 2011, 1.	1.6	158
446	Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	25
447	Measurement of the inclusive prompt photon production cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	2.9	62
448	Measurement of the inclusive prompt photon production cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	2.9	80
449	Search for $B_s \rightarrow \tau^+\tau^-$ and $B \rightarrow \tau^+\tau^-$ Decays in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 1071802.	2.9	17
450	Search for Pair Production of Second-Generation Scalar Leptoquarks in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 201803.	2.9	17

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452	Study of $Z$ Boson Production in PbPb Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2011, 106, 212301.	2.9	80
453	Search for Supersymmetry in pp Collisions at $\sqrt{s} = 7$ TeV Events with Two Photons and Missing Transverse Energy. Physical Review Letters, 2011, 106, 211802.	2.9	47
454	Search for Pair Production of First-Generation Scalar Leptoquarks in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 201802.	2.9	21
455	Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC. Physical Review D, 2011, 84, .	1.6	51
456	Search for New Physics with a Monojet and Missing Transverse Energy in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 201804.	2.9	53
457	Measurement of the Inclusive Jet Cross Section in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 201801.	2.9	59
458	Search for New Physics with a Monojet and Missing Transverse Energy in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 201801.	2.9	125
459	Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 231801.	2.9	61
460	Search for Three-Jet Resonances in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 101801.	2.9	34
461	Publisher's Note: Search for Dijet Resonances in $pp$ Collisions at CMS [Phys. Rev. Lett. 105, 211801 (2010)]. Physical Review Letters, 2011, 106, .	2.9	9
462	Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 231801.	2.9	74
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464	Measurement of the Polarization of $W$ Bosons with Large Transverse Momenta in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 201802.	2.9	46
465	Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 231801.	2.9	70
466	Measurement of energy flow at large pseudorapidities in $pp$ collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV. Physical Review Letters, 2011, 107, 201801.		5
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468	Performance of CMS hadron calorimeter timing and synchronization using test beam, cosmic ray, and LHC beam data. Journal of Instrumentation, 2010, 5, T03013-T03013.	0.5	20

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471	Performance study of the CMS barrel resistive plate chambers with cosmic rays. Journal of Instrumentation, 2010, 5, T03017-T03017.	0.5	25
472	Performance of the CMS cathode strip chambers with cosmic rays. Journal of Instrumentation, 2010, 5, T03018-T03018.	0.5	20
473	Aligning the CMS muon chambers with the muon alignment system during an extended cosmic ray run. Journal of Instrumentation, 2010, 5, T03019-T03019.	0.5	19
474	Alignment of the CMS silicon tracker during commissioning with cosmic rays. Journal of Instrumentation, 2010, 5, T03009-T03009.	0.5	59
475	Commissioning of the CMS experiment and the cosmic run at four tesla. Journal of Instrumentation, 2010, 5, T03001-T03001.	0.5	37
476	Fine synchronization of the CMS muon drift-tube local trigger using cosmic rays. Journal of Instrumentation, 2010, 5, T03004-T03004.	0.5	18
477	Alignment of the CMS muon system with cosmic-ray and beam-halo muons. Journal of Instrumentation, 2010, 5, T03020-T03020.	0.5	23
478	Precise mapping of the magnetic field in the CMS barrel yoke using cosmic rays. Journal of Instrumentation, 2010, 5, T03021-T03021.	0.5	36
479	Performance of CMS muon reconstruction in cosmic-ray events. Journal of Instrumentation, 2010, 5, T03022-T03022.	0.5	52
480	CMS data processing workflows during an extended cosmic ray run. Journal of Instrumentation, 2010, 5, T03006-T03006.	0.5	19
481	First measurement of the underlying event activity at $\sqrt{s} = 0.9$ TeV. European Physical Journal C, 2010, 70, 555-572.	1.4	50
482	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	1.4	120
483	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ and 2.36 TeV. Journal of High Energy Physics, 2010, 2010, 1.	1.6	230
484	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1.	1.6	497
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