

Juska Pekkanen

List of Publications by Year in descending order

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Version: 2024-02-01

309
papers

10,762
citations

36303

51
h-index

54911

84
g-index

321
all docs

321
docs citations

321
times ranked

8462
citing authors

#	ARTICLE	IF	CITATIONS
1	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
2	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
3	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	1
4	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 290.	3.9	18
5	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	13
6	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, .	4.7	5
7	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.	4.7	12
8	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.	4.7	2
9	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
10	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
11	Measurement of the inclusive $\overline{\text{t}}\text{t}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
12	Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	4.7	2
13	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, .	4.7	4
14	Observation of $B^0 \rightarrow \text{supersymmetry}(2S)K^0_{\text{up}} + \text{up}^+$ and $B^0_{\text{down}} \rightarrow \text{supersymmetry}(2S)K^0_{\text{down}}$ decays. European Physical Journal C, 2022, 82, .	3.9	1
15	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 488.	3.9	35
16	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
17	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
18	Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	11

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19	Study of central exclusive "Equation missing" <!-- No EquationSource Format="TEX", only image --> production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV. European Physical Journal C, 2020, 80, 718.	3.9	7
20	Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and $\langle \mathcal{M} \rangle$ Collisions at $\sqrt{s} = 5.02$ and 13 TeV. European Physical Journal C, 2020, 80, 718.	7.8	9
21	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.	3.9	11
22	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	3.9	198
23	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8$ TeV with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	3.9	5
24	Measurement of $\sigma_{\text{had}}^{\text{had}}(\sqrt{s})$ normalised 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.	3.9	33
25	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two \tilde{l} , leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	33
26	Search for a $W\tilde{e}^2$ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
27	Search for top quark partners with charge $5/3$ in the same-sign dilepton and single-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
28	Inclusive search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV using razor variables and boosted object identification in zero and one lepton final states. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
29	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	17
30	Search for excited leptons in \tilde{e}, \tilde{e}^* final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
31	Search for new particles decaying to a jet and an emerging jet. Journal of High Energy Physics, 2019, 2019, 1.	4.7	24
32	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.	3.9	9
33	Measurement of exclusive ρ^0 photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 702.	3.9	33
34	Measurement of exclusive Υ photoproduction from protons in $p\text{-Pb}$ collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 277.	3.9	35
35	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 564.	3.9	50
36	Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	8

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37	Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s = 13 \text{ TeV}$ and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.	3.9	40
38	Performance of missing transverse momentum reconstruction in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ using the CMS detector. Journal of Instrumentation, 2019, 14, P07004-P07004.	1.2	83
39	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in \sqrt{s} collisions at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s = 13 \text{ TeV}$. European Physical Journal C, 2019, 79, 313.	3.9	8
40	Search for a Light Charged Higgs Boson Decaying to a W Boson and a C -Odd Higgs Boson in Final States with D Mesons in Pb-Pb Collisions at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s = 13 \text{ TeV}$. Physical Review Letters, 2019, 123, 022001.	7.8	21
41	Search for charged Higgs bosons in the $H_{\pm} \rightarrow \tau^{\pm} \bar{\nu}_{\tau}$ decay channel in proton-proton collisions at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	7.8	17
42	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ $s = 13 \text{ TeV}$. European Physical Journal C, 2019, 79, 305.	3.9	4
43	Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
44	Search for Dark Matter Particles Produced in Association with a Top Quark Pair at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s = 13 \text{ TeV}$. Physical Review Letters, 2019, 122, 011803.	7.8	12
45	Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s = 13 \text{ TeV}$. Physical Review Letters, 2019, 122, 021801.	7.8	37
46	Search for a low-mass \tilde{J}_{\pm} resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	9
47	Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ via Higgs boson decays to \tilde{J}_{\pm} , leptons. Journal of High Energy Physics, 2019, 2019, 1.	4.7	7
48	Search for the pair production of light top squarks in the $e\tilde{J}_{\pm}^{\pm}/4$ final state in proton-proton collisions at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
49	Measurement of associated production of a W boson and a charm quark in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ $s = 13 \text{ TeV}$. European Physical Journal C, 2019, 79, 269.	3.9	35
50	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s = 13 \text{ TeV}$. European Physical Journal C, 2019, 79, 421.	3.9	355
51	Search for supersymmetry in events with a photon, jets, b -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s = 13 \text{ TeV}$. European Physical Journal C, 2019, 79, 444.	3.9	11
52	Measurements of the $pp \rightarrow WZ$ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
53	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 $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s = 13 \text{ TeV}$. European Physical Journal C, 2019, 79, 368.	3.9	68

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55	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.	3.9	12
56	Search for nonresonant Higgs boson pair production in the $\overline{b}b$ final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11
57	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.	3.9	29
58	Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
59	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 364.	3.9	48
60	Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 121803.	7.8	102
61	Search for Higgs boson pair production in the $\overline{b}b$ final state at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 121803.	7.8	24
62	Search for Higgs boson decays to three charged pions. Physical Review Letters, 2019, 122, 151802.	7.8	4
63	Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 90.	3.9	34
64	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.	3.9	11
65	Search for rare decays of Z and Higgs bosons to J/ψ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 94.	3.9	20
66	Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	15
67	Measurements of $\overline{t}t$ differential cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV using events containing two leptons. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
68	Search for $\overline{t}tH$ production in the $H \rightarrow \overline{b}b$ decay channel with leptonic $\overline{t}t$ decays in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
69	Search for Narrow H^{\pm} Resonances in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 081804.	7.8	3
70	Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	6
71	Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
72	Search for resonant $\overline{t}t$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	23

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73	Observation 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, 2019, 2019, 1.	7.8	30
74	Observation of Two Excited B_c States and Measurement of the B_c Stretchy="false"> ($\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	7.8	62
75	Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
76	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.	4.7	12
77	Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	40
78	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.	3.9	18
79	Search for resonances decaying to a pair of Higgs bosons in the $b\bar{b}q\bar{q}$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	10
80	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 969.	3.9	6
81	Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	18
82	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 893.	3.9	12
83	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.	3.9	16
84	Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 123, 231803.	7.8	23
85	Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair. Physical Review Letters, 2018, 120, 071802.	7.8	40
86	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.	7.8	86
87	Search for 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.	7.8	39
88	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.	3.9	10
89	Measurement of the Splitting Function in pp Collisions at the LHC. Physical Review Letters, 2018, 120, 142302.	7.8	70
90	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.	4.7	8

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91	Suppression of Excited $\overline{\chi}_1^0$ States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2018, 120, 142301.	7.8	38
92	Search for resonant and nonresonant Higgs boson pair production in the $b\overline{b}\ell\ell$ final state in proton-proton collisions at $s = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	36
93	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. <i>European Physical Journal C</i> , 2018, 78, 291.	3.9	27
94	Measurements of the $\sigma(\text{pp} \rightarrow \text{ZZ})$ production cross section and the $\text{BR}(\text{Z} \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 165.	3.9	52
95	Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2018, 78, 287.	3.9	16
96	Measurement of the inclusive $\sigma(\text{pp} \rightarrow \text{Z} + \text{lepton})$ cross section in pp collisions at $\sqrt{s} = 5.02$ TeV using final states with at least one charged lepton. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	5
97	Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	0
98	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	5
99	Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $s = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	6
100	Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	57
101	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	63
102	Measurement of differential cross sections in the kinematic angular variable ϕ^* for inclusive Z boson production in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	4
103	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s} = 5.02$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	12
104	Measurement of normalized differential $\sigma(\text{pp} \rightarrow \text{Z} + \text{lepton})$ cross sections in the dilepton channel from pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	18
105	Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $s = 8$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	17
106	Search for ZZ resonances in the $2\ell\ell$ final state in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	4
107	Search for $\sigma(\text{pp} \rightarrow \text{Z} + \text{H})$ production in the all-jet final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	20
108	Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	9

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109	Measurement of the groomed jet mass in PbPb and pp collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
110	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.	4.7	11
111	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	19
112	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.	4.7	43
113	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
114	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two \tilde{l}_ν leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	34
115	Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	26
116	Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
117	Charged-particle nuclear modification factors in XeXe collisions at $\sqrt{s_{\mathrm{NN}}} = 5.44$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
118	Measurement of the top quark mass with lepton+jets final states using $\mathrm{p} \rightarrow \mathrm{p} \rightarrow \mathrm{p}$ collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 891.	3.9	34
119	Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
120	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	57
121	Event shape variables measured using multijet final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
122	Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 241802.	7.8	50
123	Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	23
124	Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter mediators and other new particles. Journal of High Energy Physics, 2018, 2018, 1.	4.7	82
125	Search for $Z\tilde{1}^3$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
126	Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17

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127	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	14
128	Search for supersymmetry in events with a \tilde{l} , lepton pair and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	21
129	Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV Using Isolated Photon-Tagged Jets. Physical Review Letters. 2018. 121, 242301.	7.8	32
130	Search for the decay of a Higgs boson in the $h \rightarrow a_1 \rightarrow 3\pi$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
131	Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters. 2018. 121, 221802.	7.8	14
132	Search for third-generation scalar leptoquarks decaying to a top quark and a τ , lepton at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 707.	3.9	46
133	Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 965.	3.9	39
134	Studies of $B \rightarrow K^* \mu^+ \mu^-$ (5840) and $B \rightarrow K^* \tau^+ \tau^-$ (5840) and $B \rightarrow K^* \mu^+ \mu^-$ (5840) and $B \rightarrow K^* \tau^+ \tau^-$ (5840)		

#	ARTICLE	IF	CITATIONS
145	Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	42
146	Search for dark matter produced in association with a Higgs boson decaying to $\tilde{\chi}_1^0$ or $\tilde{\chi}_1^\pm$, $\tilde{\nu}^*$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
147	Search for additional neutral MSSM Higgs bosons in the $\tilde{\chi}_1^0$, $\tilde{\chi}_1^\pm$, final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	73
148	Search for Pair-Produced Resonances Each Decaying into at Least Four Quarks in Proton-Proton Collisions at $s=13$ TeV. Physical Review Letters, 2018, 121, 141802.	7.8	4
149	Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
150	Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	34
151	Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\bar{u}\mathcal{Q}\overline{\mathcal{Q}}$ final state. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
152	Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	35
153	Search for beyond the standard model Higgs bosons decaying into a $\mathcal{B}\overline{\mathcal{B}}$ pair in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	21
154	Observation of the $\tilde{\chi}_1^0(3P)$ and $\tilde{\chi}_2^0(3P)$ and Measurement of their Masses. Physical Review Letters, 2018, 121, 092002.	7.8	19
155	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $p\bar{p}$ collisions at 8 TeV. European Physical Journal C, 2018, 78, 701.	3.9	58
156	Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s}=5.02$ TeV collisions at 5.02 TeV. European Physical Journal C, 2018, 78, 509.	3.9	83
157	Search for lepton flavour violating decays of the Higgs boson to $\tilde{\chi}_1^0\tilde{\nu}_\tau$, and $e\tilde{\nu}_\tau$, in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
158	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $\tilde{\chi}_1^0$, leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
159	Observation of Higgs Boson Decay to Bottom Quarks. Physical Review Letters, 2018, 121, 121801.	7.8	219
160	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.	3.9	17
161	Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
162	Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20

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163	Search for single production of vector-like quarks decaying to a b quark and a Higgs boson. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
164	Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	23
165	Search for a singly produced third-generation scalar leptoquark decaying to a \bar{l} , lepton and a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	15
166	Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
167	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
168	Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	31
169	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	86
170	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.	7.8	36
171	Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2018, 120, 202301.	7.8	70
172	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	42
173	Jet properties in PbPb and pp collisions at $\sqrt{s_{NN}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
174	Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	37
175	Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of Instrumentation, 2018, 13, P06015-P06015.	1.2	180
176	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 140.	3.9	44
177	Search for $p\bar{p}$ and $Pb\bar{Pb}$ Collisions at $\sqrt{s}=8$ TeV. Physical Review Letters, 2018, 121, 082301.	7.8	48
178	Measurement of b hadron lifetimes in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2018, 78, 457.	3.9	15
179	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.	7.8	22
180	Observation of $t\bar{t}H$ Production. Physical Review Letters, 2018, 120, 231801.	7.8	209

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181	Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at 13 TeV. <i>Physical Review Letters</i> , 2018, 120, 241801.	7.8	19
182	Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2018, 120, 221801.	7.8	160
183	Measurement of the $\sigma(\text{pp} \rightarrow \text{X})$ production cross section and the $\text{Br}(\text{Z} \rightarrow \ell\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2018, 120, 221801.	7.8	47
184	Measurements of the $\sigma(\text{pp} \rightarrow \text{Z})$ production cross section and the $\text{Br}(\text{Z} \rightarrow \ell\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2018, 120, 221801.		3
185	Measurement of b hadron lifetimes in pp collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2018, 120, 221801.		1
186	Search for Dark Matter and Supersymmetry with a Compressed Mass Spectrum in the Vector Boson Fusion Topology in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2017, 118, 021802.	7.8	24
187	Measurements of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}})$ production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections. <i>European Physical Journal C</i> , 2017, 77, 15.	3.9	34
188	Measurement of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}})$ production cross section using events in the $\mu\mu$ final state in pp collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2017, 77, 172.	3.9	40
189	Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $\sqrt{s} = 8$ TeV and cross section ratios to 2.76 and 7 TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	54
190	Search for electroweak production of charginos in final states with two $\tilde{\ell}$, leptons in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	11
191	Measurement of the production cross section of a W boson in association with two b jets in pp collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2017, 77, 92.	3.9	16
192	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. <i>European Physical Journal C</i> , 2017, 77, 236.	3.9	37
193	Measurement of prompt and nonprompt J/ψ production in pp collisions at $\sqrt{s} = 5.02$ TeV. <i>European Physical Journal C</i> , 2017, 77, 269.	3.9	53
194	A search for new phenomena in pp collisions at $\sqrt{s} = 13$ TeV in final states with missing transverse momentum and at least one jet using the α_T variable. <i>European Physical Journal C</i> , 2017, 77, 294.	3.9	29
195	The CMS trigger system. <i>Journal of Instrumentation</i> , 2017, 12, P01020-P01020.	1.2	307
196	Observation of Charge-Dependent Azimuthal Correlations in Pb-Pb Collisions and Its Implication for the Search for the Chiral Magnetic Effect. <i>Physical Review Letters</i> , 2017, 118, 122301.	7.8	107
197	Measurement of the $R_{\text{AA}}(\text{pp} \rightarrow \text{B})$ production cross section in Pb-Pb Collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. <i>Physical Review Letters</i> , 2017, 118, 122301.	7.8	15
198	Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. <i>Physical Review Letters</i> , 2017, 119, 152301.	7.8	62

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199	Search for new physics in the monophoton final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
200	Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s}=8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459.	3.9	52
201	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.	3.9	23
202	Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2017, 119, 141802.	7.8	54
203	Correlations in Pb-Pb and pPb Collisions at $\sqrt{s_{NN}}=2.76$ and $2.76 < \sqrt{s_{NN}} < 5.02$ TeV. Physical Review Letters, 2017, 119, 111802.	7.8	32
204	Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2017, 119, 111802.	7.8	35
205	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	103
206	Search for $t\overline{t}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
207	Search for associated production of dark matter with a Higgs boson decaying to $b\overline{b}$ or $\tau^+\tau^-$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
208	Observation of Top Quark Production in Proton-Nucleus Collisions. Physical Review Letters, 2017, 119, 242001.	7.8	23
209	Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	48
210	Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	35
211	Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	13
212	Measurement of the semileptonic $t\overline{t} + \tau^+\tau^-$ production cross section in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	11
213	Measurements of the $pp \rightarrow \tau^+\tau^- W^{\pm} Z$ and $pp \rightarrow \tau^+\tau^- Z^{\pm} Z$ cross sections and limits on anomalous quartic gauge couplings at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
214	Search for new phenomena with the M_{T2} variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 710.	3.9	98
215	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.	4.7	14
216	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.	4.7	23

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217	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.	4.7	14
218	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.	4.7	23
219	Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	3.9	82
220	Searches for pair production of third-generation squarks in $\sqrt{s} = 13$ TeV pp collisions. European Physical Journal C, 2017, 77, 327.	3.9	32
221	Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 354.	3.9	23
222	Relative Modification of Prompt J/ψ Production in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2017, 119, 221802.	7.8	24
223	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.	4.7	95
224	Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
225	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 845.	3.9	38
226	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.	7.8	40
227	Measurement of electroweak-induced production of Wt^3 with two jets in pp collisions at $\sqrt{s} = 8$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
228	Searches for $W\tilde{\chi}^0$ 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.	4.7	8
229	Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
230	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.	4.7	22
231	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.	4.7	15
232	Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	27
233	Search for top squark pair production in pp collisions at $\sqrt{s} = 13$ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31
234	Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15

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236	Search for a heavy resonance decaying to a top quark and a vector-like top quark at $s = 13 \sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	5
237	Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2017, 77, 578.	3.9	57
238	Search for top quark partners with charge $5/3$ in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	3
239	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	29
240	Measurements of jet charge with dijet events in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
241	Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	21
242	Search for new physics with dijet angular distributions in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
243	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.	4.7	62
244	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 $s = 13 \sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	41
245	Search for new phenomena with multiple charged leptons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2017, 77, 1.	3.9	2
246	Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2017, 77, 636.	3.9	38
247	Search for high-mass $Z\bar{\nu}\nu$ resonances in $e^+e^- \rightarrow \bar{\nu}\nu$ and $\bar{\nu}\nu + \bar{\nu}\nu$ final states in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	7
248	Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying \bar{l}_ν , leptons and two jets in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
249	Search for CP violation in $t\bar{t}$ production and decay in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	4
250	Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ and constraints on parton distribution functions. European Physical Journal C, 2017, 77, 746.	3.9	23
251	Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
252	Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14

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253	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	101
254	Particle-flow reconstruction and global event description with the CMS detector. Journal of Instrumentation, 2017, 12, P10003-P10003.	1.2	348
255	Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 751.	3.9	30
256	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.	4.7	11
257	Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
258	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.	4.7	18
259	Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 451.	3.9	55
260	Measurement of the W^+W^- cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.	3.9	74
261	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371.	3.9	33
262	Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width. Journal of High Energy Physics, 2016, 2016, 1.	4.7	17
263	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.	3.9	16
264	Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	5
265	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.	4.7	31
266	Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	27
267	Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	7
268	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
269	Search for Narrow Resonances in Dijet Final States at $\sqrt{s} = 8$ TeV. Physical Review Letters. 2016. 117. 031802.	7.8	74
270	Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 325.	3.9	25

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272	Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 117, 051802.	7.8	73
273	Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 116, 052002.	7.8	139
274	Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 116, 052002.	7.8	34
275	Measurement of dijet azimuthal decorrelation in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 536.	3.9	16
276	Search for dark matter particles in proton-proton collisions at $\sqrt{s} = 8$ TeV using the razor variables. Journal of High Energy Physics, 2016, 2016, 1.	4.7	4
277	Search for s channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	14
278	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.	3.9	29
279	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.	4.7	19
280	Measurement of the $t\bar{t}$ production cross section in the $e\bar{\nu}_e$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	41
281	Search for new physics with the M_{T2} variable in all-jets final states produced in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	17
282	Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
283	Evidence for exclusive $\tilde{\chi}_1^0 \tilde{\chi}_1^0 W + W \tilde{\chi}_1^0$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	42
284	Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV in the single-lepton final state using the sum of masses of large-radius jets. Journal of High Energy Physics, 2016, 2016, 1.	4.7	14
285	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.	3.9	18
286	Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	20
287	Phenomenological MSSM interpretation of CMS searches in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	12
288	Measurement of the mass of the top quark in decays with a J/ψ meson in pp collisions at 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	6

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289	Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 2.76, \text{ext } \{TeV\}$ $s = 2.76 \text{ TeV}$. European Physical Journal C, 2016, 76, 1.	3.9	26
290	Measurement of $\overline{\text{t}} \text{t} \hat{\text{A}}^-$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8, \text{ext } \{TeV\}$ $s = 8 \text{ TeV}$. European Physical Journal C, 2016, 76, 379.	3.9	34
291	Measurement of the differential cross section and charge asymmetry for inclusive $\text{p} \rightarrow \text{W}^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	3.9	83
292	Observation of top quark pairs produced in association with a vector boson in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	23
293	Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	29
294	Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	5
295	Search for excited leptons in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	16
296	Measurement of the $\overline{\text{t}} \text{t} \hat{\text{A}}^-$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 128.	3.9	41
297	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	3.9	499
298	Search for massive $\text{W} \rightarrow \text{b} \overline{\text{b}}$ resonances decaying into the $\text{b} \overline{\text{b}} \hat{\text{A}}^-$ final state at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 237.	3.9	30
299	Measurement of top quark polarisation in t-channel single top quark production. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
300	Search for heavy Majorana neutrinos in $\text{e}^{\pm} \text{e}^{\pm} \text{jets}$ and $\text{e}^{\pm} \hat{\text{A}}^{\pm} \text{jets}$ events in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	35
301	Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2016, 116, 071801.	7.8	114
302	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 $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
303	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s} = 8, \text{ext } \{TeV\}$ $s = 8 \text{ TeV}$. European Physical Journal C, 2016, 76, 13.	3.9	62
304	Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	8
305	Search for a charged Higgs boson in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	81
306	Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	12

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307	Search for a light charged Higgs boson decaying to $c\bar{s}$ in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1-37.	4.7	44
308	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1.	4.7	30
309	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.	4.7	10