

# Christopher Tully

## List of Publications by Year in descending order

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508  
papers

21,774  
citations

11651  
70  
h-index

19749  
117  
g-index

515  
all docs

515  
docs citations

515  
times ranked

10414  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inexpensive Multipatient Respiratory Monitoring System for Helmet Ventilation During COVID-19 Pandemic. Journal of Medical Devices, Transactions of the ASME, 2022, 16, .	0.7	3
2	Impact of Warm Dark Matter on the Cosmic Neutrino Background Anisotropies. Universe, 2022, 8, 118.	2.5	3
3	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
4	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
5	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.	3.9	14
6	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
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.	3.9	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.	4.7	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, .	4.7	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.	4.7	12
11	The muon Smasher's guide. Reports on Progress in Physics, 2022, 85, 084201.	20.1	56
12	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
13	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
14	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
15	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.	4.7	5
16	Measurement of the inclusive $t\bar{t}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
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, .	4.7	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, .	4.7	4

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19	Observation of $B^0 \rightarrow \psi(2S) K^0_{\text{S}} \ell^+ \ell^-$ and $B^0_{\text{S}} \rightarrow \psi(2S) K^0_{\text{S}} \ell^+ \ell^-$ decays. European Physical Journal C, 2022, 82, .	3.9	1
20	Search for dark matter produced in association with a leptonically decaying $\mathcal{Z}$ boson in proton–proton collisions at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 13.	3.9	33
21	Search for top squark pair production using dilepton final states in $\text{ext}\{p\}\text{ext}\{p\}$ collision data collected at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 3.	3.9	33
22	Measurements of $\mathcal{P} \rightarrow \mathcal{P} \rightarrow \mathcal{Z} \mathcal{Z}$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 200.	3.9	24
23	Development and validation of HERWIG <sup>7</sup> tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	3.9	12
24	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 378.	3.9	40
25	Multi-messenger astrophysics with the cosmic neutrino background. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 053.	5.4	4
26	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton–proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 488.	3.9	35
27	High hydrogen coverage on graphene via low temperature plasma with applied magnetic field. Carbon, 2021, 177, 244-251.	10.3	17
28	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
29	MUSiC: a model-unspecific search for new physics in proton–proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 629.	3.9	18
30	Search for a heavy vector resonance decaying to a $\mathcal{Z}_{\text{Higgs}}$ boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 688.	3.9	9
31	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton–proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 723.	3.9	19
32	Measurements of angular distance and momentum ratio distributions in three-jet and $\mathcal{Z} + \text{two-jet}$ final states in $\text{ext}\{p\}\text{ext}\{p\}$ collisions. European Physical Journal C, 2021, 81, 852.	3.9	2
33	Increasing Iridium Oxide Activity for the Oxygen Evolution Reaction with Hafnium Modification. Journal of the American Chemical Society, 2021, 143, 15616-15623.	13.7	82
34	Precision luminosity measurement in proton–proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
35	Calorimetry at FCC-ee. European Physical Journal Plus, 2021, 136, 1.	2.6	8
36	Combined searches for the production of supersymmetric top quark partners in proton–proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ . European Physical Journal C, 2021, 81, 970.	3.9	18

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37	High-yield monolayer graphene grids for near-atomic resolution cryoelectron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1009-1014.	7.1	84
38	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.	2.9	21
39	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P02027-P02027.	1.2	27
40	Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P05002-P05002.	1.2	3
41	Study of central exclusive "Equation missing" $\rightarrow$ production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV. European Physical Journal C, 2020, 80, 718.	3.9	7
42	Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 752.	3.9	23
43	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
44	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	21
45	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.	4.7	20
46	Search for direct pair production of supersymmetric partners to the $\tau$ lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 189.	3.9	22
47	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV. European Physical Journal C, 2020, 80, 534.	3.9	14
48	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
49	Evidence for $W$ production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	3.9	10
50	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.	3.9	78
51	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.	3.9	70
52	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
53	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.	4.7	14
54	A multi-dimensional search for new heavy resonances decaying to boosted $W$ or $Z$ boson pairs in the dijet final state at 13 TeV. European Physical Journal C, 2020, 80, 237.	3.9	31

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55	Measurement of single-diffractive dijet production in proton–proton collisions at $\sqrt{s} = 8, \sqrt{s} = 13$ TeV with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	3.9	5
56	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.	3.9	22
57	Measurement of normalised multi-differential cross sections in $\sqrt{s} = 13$ TeV collisions, 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
58	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two $\ell$ , leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	33
59	Search for a $W \rightarrow q \bar{q}'$ 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
60	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
61	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
62	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
63	Search for excited leptons in $\ell \ell \ell$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
64	Search for new particles decaying to a jet and an emerging jet. Journal of High Energy Physics, 2019, 2019, 1.	4.7	24
65	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
66	Measurement of exclusive $\gamma \gamma \rightarrow \ell \ell$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 702.	3.9	33
67	Measurement of exclusive $\gamma \gamma \rightarrow \ell \ell$ photoproduction from protons in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 277.	3.9	35
68	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
69	Plasmon-Free Surface-Enhanced Raman Spectroscopy Using Metallic 2D Materials. ACS Nano, 2019, 13, 8312-8319.	14.6	94
70	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
71	Measurement of the top quark mass in the all-jets final state at $\sqrt{s} = 13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.	3.9	40
72	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $\sqrt{s} = 13$ TeV collisions. European Physical Journal C, 2019, 79, 773.	3.9	8

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73	Search for charged Higgs bosons in the $H \rightarrow \tau^+ \tau^-$ decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	54
74	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 305.	3.9	4
75	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 $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
76	Search for a low-mass $\tilde{t}, \tilde{t}^*$ resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	9
77	Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s} = 13$ TeV via Higgs boson decays to $\tau, \tau^*$ leptons. Journal of High Energy Physics, 2019, 2019, 1.	4.7	7
78	Search for the pair production of light top squarks in the $e^+e^- \rightarrow \tilde{t} \tilde{t}^*$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
79	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 421.	3.9	355
80	Search for supersymmetry in events with a photon, jets, $\cancel{E}_T$ , and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 444.	3.9	11
81	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.	4.7	14
82	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.	3.9	68
83	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
84	Search for nonresonant Higgs boson pair production in the $b\bar{b}b\bar{b}$ final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11
85	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
86	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
87	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
88	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
89	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
90	Search for rare decays of $Z$ and Higgs bosons to $J/\psi \gamma$ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 94.	3.9	20



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91	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
92	Measurements of $\overline{\mathrm{t}}\mathrm{t}$ 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
93	Search for $\overline{\mathrm{t}}\mathrm{t}\mathrm{H}$ production in the $\mathrm{H}\rightarrow\mathrm{b}\overline{\mathrm{b}}$ decay channel with leptonic $\overline{\mathrm{t}}\mathrm{t}$ decays in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
94	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
95	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
96	Search for resonant $\overline{\mathrm{t}}\mathrm{t}$ production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	23
97	Nitrogen-plasma treated hafnium oxyhydroxide as an efficient acid-stable electrocatalyst for hydrogen evolution and oxidation reactions. Nature Communications, 2019, 10, 1543.	12.8	50
98	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
99	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
100	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
101	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
102	Search for resonances decaying to a pair of Higgs bosons in the $\mathrm{b}\overline{\mathrm{b}}\mathrm{q}\overline{\mathrm{q}}\mathrm{a}_1^{0,\pm}$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	10
103	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in $\mathrm{pp}$ collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 969.	3.9	6
104	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
105	Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11
106	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
107	Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1.	4.7	54
108	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

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109	Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
110	Search for supersymmetry using Higgs boson to diphoton decays at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	4
111	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
112	Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	15
113	Study of the $\mathrm{B}^+ \rightarrow \mu^+ \nu \mu^+ \nu$ decay in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
114	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
115	Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV and 8.16 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	8
116	Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b} \rightarrow \mu^+ \mu^- \mu^+ \mu^-$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	36
117	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.	3.9	27
118	Measurements of the $\mathrm{pp} \rightarrow \mathrm{Z} \mathrm{pp} \rightarrow \mathrm{Z} \mathrm{pp}$ production cross section and the $\mathrm{Z} \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	3.9	52
119	Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 287.	3.9	16
120	Measurement of the inclusive $\mathrm{t}\bar{\mathrm{t}}$ 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.	4.7	5
121	Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	0
122	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	5
123	Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	6
124	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.	4.7	57
125	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	63
126	Measurement of differential cross sections in the kinematic angular variable $\tilde{\phi}^*$ for inclusive Z boson production in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4



127	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
128	Measurement of normalized differential $\overline{\sigma}(\mathrm{t})$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
129	Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $s=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
130	Search for ZZ resonances in the $2\ell, 2\ell^{1/2}$ final state in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
131	Search for $\overline{\mathrm{t}}\mathrm{t}\mathrm{H}$ production in the all-jet final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
132	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. Journal of High Energy Physics, 2018, 2018, 1.	4.7	9
133	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
134	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
135	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
136	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
137	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two $\bar{\ell}, \ell$ leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	34
138	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
139	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
140	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
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144	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

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146	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
147	Search for $Z\tilde{l}^3$ 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
148	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
149	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
150	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
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153	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
154	Studies of $B^0 \rightarrow B^0 \gamma$ and $B^0 \rightarrow B^0 \pi^0$ and $B^0 \rightarrow B^0 \pi^0$		

163	Measurement of the $\sigma(\mathrm{Z}/\gamma \rightarrow \mu\mu) / \sigma(\mathrm{Z}/\gamma \rightarrow \tau\tau)$ , cross section in pp collisions at $\sqrt{s} = 13$ TeV and validation of $\sigma(\mathrm{Z}/\gamma \rightarrow \tau\tau)$ . European Physical Journal C, 2018, 78, 708.	3.9	10
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165	Search for dark matter produced in association with a Higgs boson decaying to $\tilde{\chi}_1^0 \tilde{\chi}_1^0$ or $\tilde{\chi}_1^\pm \tilde{\chi}_2^\mp$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
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167	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
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178	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
179	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
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183	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
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185	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
186	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	42
187	Jet properties in PbPb and pp collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
188	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
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206	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
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223	Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
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225	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
226	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
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287	Search for the production of an excited bottom quark decaying to $tW$ in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	5
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293	Measurement of top quark polarisation in t-channel single top quark production. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
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318	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 147.	3.9	88
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359	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.	4.7	31
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380	Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at $\sqrt{s}=7 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	4.7	15
381	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	4.7	33
382	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. Journal of High Energy Physics, 2013, 2013, 1.	4.7	32
383	Search for exotic resonances decaying into WZ/ZZ in pp collisions at $\sqrt{s}=7 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	4.7	20
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386	Measurement of the production cross section for $\text{Z} \gamma \text{ or } \overline{\text{u}} \gamma$ in pp collisions at $\sqrt{s}=7 \text{ TeV}$ and limits on $\text{ZZI}^3$ and $\text{ZI}^3$ triple gauge boson couplings. Journal of High Energy Physics, 2013, 2013, 1.	4.7	14
387	Measurement of the W-boson helicity in top-quark decays from $\overline{\text{t}} \rightarrow \text{W} \gamma$ production in lepton+jets events in pp collisions at $\sqrt{s}=7 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	4.7	30
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389	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 $\sqrt{s}=7 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	4.7	16
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392	Measurement of the $\text{t} \rightarrow \text{W} \gamma$ production cross section in the $\tilde{\ell}$ ,+jets channel in pp collisions at $\sqrt{s}=7 \text{ TeV}$ . European Physical Journal C, 2013, 73, 1.	3.9	24
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399	Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	4.7	46
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408	Inclusive b-jet production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	39
409	Search for quark compositeness in dijet angular distributions from pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	18
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413	Measurement of the $Z/\gamma^* \rightarrow b\bar{b}$ cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	39
414	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	31

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417	Search for leptonic decays of $W^{\pm 2}$ bosons in pp collisions at $\sqrt{s} = \{7\} \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	49
418	Search for stopped long-lived particles produced in pp collisions at $\sqrt{s} = \{\text{ext}\{7\text{TeV}\}\}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	17
419	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	30
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422	Search for dark matter and large extra dimensions in monojet events in pp collisions at $\sqrt{s} = \{7\} \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	168
423	Search for a fermiophobic Higgs boson in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	15
424	Search for supersymmetry in hadronic final states using $M_{T2}$ in pp collisions at $\sqrt{s}=7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	95
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428	Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at $\sqrt{s}=7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	7
429	Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s}=7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	41
430	Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at $\sqrt{s}=7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	11
431	Search for resonant $t\bar{t}$ production in lepton+jets events in pp collisions at $\sqrt{s}=7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	26
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434	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.	4.7	14
435	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.	4.7	38
436	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.	3.9	33
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