

Thomas Bergauer

List of Publications by Year in descending order

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Version: 2024-02-01

664
papers

35,952
citations

6840

81
h-index

6349

163
g-index

670
all docs

670
docs citations

670
times ranked

12433
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for $X(3872)$ in Pb-Pb Collisions and Studies of its Prompt Production at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2022, 128, 032001.	2.9	23
2	Different radiographic imaging modalities with a proton computed tomography demonstrator. Journal of Instrumentation, 2022, 17, C01010.	0.5	2
3	4H-silicon carbide as particle detector for high-intensity ion beams. Journal of Instrumentation, 2022, 17, C01060.	0.5	4
4	Fragmentation of jets containing a prompt J/ψ meson in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 825, 136842.	1.5	4
5	Search for $W\tilde{l}^3$ resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV using hadronic decays of Lorentz-boosted W bosons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 825, 136842.	1.5	1
6	Measurement of the Inclusive and Differential Higgs Boson Production Cross Sections in the Decay Mode to a Pair of τ Leptons in pp Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	2.9	9
7	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	6
8	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
9	Search for WZ resonances decaying to WZ or ZZ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	10
10	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 153.	1.4	14
11	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	1
12	Feasibility study of a proton CT system based on 4D-tracking and residual energy determination via time-of-flight. Physics in Medicine and Biology, 2022, 67, 095005.	1.6	8
13	Using Z Boson Events to Study Parton-Medium Interactions in Pb-Pb Collisions. Physical Review Letters, 2022, 128, 122301.	2.9	11
14	Measurement of the Inclusive and Differential Higgs Boson Production Cross Sections in the Decay Mode to a Pair of τ Leptons in pp Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	4
15	A new calibration method for charm jet identification validated with proton-proton collision events at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2022, 17, P03014.	0.5	6
16	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 290.	1.4	18
17	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	13
18	Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with a dedicated high-rate data stream. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5

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19	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	12
20	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
21	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	6
22	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
23	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.	1.6	2
24	Precision measurement of the W boson decay branching fractions in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, .	1.6	5
25	Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	1.6	2
26	Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	1.6	4
27	Search for invisible decays of the Higgs boson produced via vector boson fusion in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, .	1.6	30
28	Observation of $B \rightarrow \psi(2S) K^0_{\text{S}}$ and $B \rightarrow \psi(2S) K^0_{\text{L}}$ decays. European Physical Journal C, 2022, 82, .	1.4	1
29	Measurement of the $Zb\bar{b}$ cross section for jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2022, 129, .	1.6	2
30	Observation of the B_c meson in Pb-Pb and pp collisions at $\sqrt{s} = 2.76$ and 13 TeV. Physical Review Letters, 2022, 129, .	2.9	3
31	Inclusive nonresonant multilepton probes of new phenomena at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2022, 105, .	1.6	14
32	Design and characterization of depleted monolithic active pixel sensors within the RD50 collaboration. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1039, 167020.	0.7	2
33	LGAD technology for HADES, accelerator and medical applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, , 167046.	0.7	1
34	First Search for Exclusive Diphoton Production at High Mass with Tagged Protons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2022, 129, .	2.9	7
35	Probing Charm Quark Dynamics via Multiparticle Correlations in Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2022, 129, .	2.9	5
36	Charge collection efficiency study on neutron-irradiated planar silicon carbide diodes via UV-TCT. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1040, 167218.	0.7	4

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37	Search for Flavor-Changing Neutral Current Interactions of the Top Quark and Higgs Boson in Final States with Two Photons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2022, 128, .	2.9	10
38	Identification of hadronic tau lepton decays using a deep neural network. <i>Journal of Instrumentation</i> , 2022, 17, P07023.	0.5	12
39	Search for high-mass resonances decaying to a jet and a Lorentz-boosted resonance in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 832, 137263.	1.5	0
40	Measurements of proton beam attenuation radiographs at a clinical facility. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2022, 1040, 167069.	0.7	0
41	Search for the lepton flavor violating decay $\tilde{t} \rightarrow \tilde{b} \tau^+ \nu_\tau$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	3
42	Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , 2021, 103, .	1.5	20
43	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 13.	1.4	33
44	Evidence for Higgs boson decay to a pair of muons. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	54
45	Search for top squark pair production using dilepton final states in $\sqrt{s} = 13$ TeV collision data collected at the LHC. <i>European Physical Journal C</i> , 2021, 81, 3.	1.4	33
46	The CMS Phase-1 pixel detector upgrade. <i>Journal of Instrumentation</i> , 2021, 16, P02027-P02027.	0.5	25
47	Studies of charm and beauty hadron long-range correlations in pp and pPb collisions at LHC energies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 813, 136036.	1.5	13
48	Measurement of differential production cross sections using top quarks at large transverse momenta in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , 2021, 103, .	1.6	7
49	Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	14
50	Measurements of $p\bar{p} \rightarrow Z\bar{Z}$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 200.	1.4	24
51	Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	15
52	Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	26
53	Search for new physics in top quark production with additional leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV using effective field theory. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	12

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55	First application of the GPU-based software framework TIGRE for proton CT image reconstruction. <i>Physica Medica</i> , 2021, 84, 56-64.	0.4	6
56	Measurement of differential cross sections for Z bosons produced in association with charm jets in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	5
57	Construction and commissioning of CMS CE prototype silicon modules. <i>Journal of Instrumentation</i> , 2021, 16, T04002.	0.5	10
58	Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	28
59	Development and validation of HERWIG ⁷ tunes from CMS underlying-event measurements. <i>European Physical Journal C</i> , 2021, 81, 312.	1.4	12
60	The DAQ system of the 12,000 channel CMS high granularity calorimeter prototype. <i>Journal of Instrumentation</i> , 2021, 16, T04001.	0.5	7
61	Angular analysis of the decay $B \rightarrow \bar{c} \ell^+ \ell^- (892)^+ \ell^+ \ell^-$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	9
62	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 378.	1.4	40
63	Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC. <i>Journal of Instrumentation</i> , 2021, 16, P05014.	0.5	62
64	Measurement of prompt D^0 and D^+ meson azimuthal anisotropy and search for strong electric fields in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Physics Letters, Section B: Nuclear Physics</i> , 2021, 811, 135001.	1.5	12
65	Measurement of b jet shapes in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	4
66	First measurement of large area jet transverse momentum spectra in heavy-ion collisions. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	11
67	Study of Drell-Yan dimuon production in proton-lead collisions at $\sqrt{s_{NN}} = 8.16$ TeV. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	3
68	Measurement of the CP-violating phase β_s in the $B \rightarrow D^* \ell^+ \ell^-$ decay. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.5	12
69	Measurements of the differential cross sections of the production of Z + jets and $\tilde{\chi}^0 + jets$ and of Z boson emission collinear with a jet in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	2
70	Measurement of the Z boson differential production cross section using its invisible decay mode (Z $\rightarrow \nu \bar{\nu}$). <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	2
71	Measurement of the $W\tilde{\chi}^0$ Production Cross Section in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV and Constraints on Effective Field Theory Coefficients. <i>Physical Review Letters</i> , 2021, 126, 252002.	2.9	13
72	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 488.	1.4	35

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73	Observation of a New Excited Beauty Strange Baryon Decaying to $\Lambda_c^+ \bar{c} s$. Physical Review Letters, 2021, 126, 252003.	2.9	22
74	Performance of the CMS muon trigger system in proton-proton collisions at $\sqrt{s} = 13$. Journal of Instrumentation, 2021, 16, P07001.	0.5	6
75	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	27
76	Search for resonant and nonresonant new phenomena in high-mass dilepton final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	62
77	Search for long-lived particles using displaced jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, 112007.	1.6	25
78	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 629.	1.4	18
79	Search for the rare decay of the W boson into a pion and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, 2021, 819, 136446.	1.5	3
80	Search for top squarks in final states with two top quarks and several light-flavor jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, 112007.	1.6	4
81	Search for Z -Boson Yields and Azimuthal Anisotropy at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2021, 127, 112002.	2.9	5
82	Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 688.	1.4	9
83	Search for Λ baryons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2021, 127, 112002.	1.5	13
84	Hard color-singlet exchange in dijet events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, 112007.	1.6	3
85	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 723.	1.4	19
86	Search for lepton-flavor violating decays of the Higgs boson in the $h \rightarrow \tau \mu$ and $h \rightarrow \tau e$ channels. Physical Review Letters, 2021, 127, 112002.	1.6	25
87	Search for $h \rightarrow \tau \mu$ and $h \rightarrow \tau e$ decays in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, 2021, 819, 136446.	1.5	33
88	Commissioning of low particle flux for elemental Particle at MedAustron. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1010, 165570.	0.7	7
89	Search for $h \rightarrow \tau \mu$ and $h \rightarrow \tau e$ decays in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, 2021, 819, 136535.	1.5	9
90	Calculating ΔR for most likely path estimates for protons and helium ions using an analytical model. Physica Medica, 2021, 89, 169-175.	0.4	0

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91	Measurement of the cross section for top quark pair production with additional charm jets using dileptonic final states in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 104, .	1.5	5
92	Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production and decay using the four-lepton final state. Physical Review D, 2021, 104, .	1.6	16
93	Search for long-lived particles decaying to jets with displaced vertices in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, .	1.6	8
94	Measurements of angular distance and momentum ratio distributions in three-jet and Z + two-jet final states in pp collisions. European Physical Journal C, 2021, 81, 852.	1.4	2
95	Observation of Forward Neutron Multiplicity Dependence of Dimuon Acoplanarity in Ultraperipheral Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2021, 127, 122001.	2.9	16
96	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.	1.4	123
97	Search for top squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Evidence for electroweak production of four charged leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Measurement of the electroweak production of Z and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on anomalous quartic gauge couplings. Physical Review D, 2021, 104, .	1.6	20
98	Measurements of the electroweak production of Z and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on anomalous quartic gauge couplings. Physical Review D, 2021, 104, .	1.5	18
99	Correlations of azimuthal anisotropy Fourier harmonics with subevent cumulants in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV. Physical Review C, 2021, 103, .	1.1	1
100	Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb^{-1} of proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	8
101	Measurements of the electroweak production of Z and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on anomalous quartic gauge couplings. Physical Review D, 2021, 104, .	1.6	13
102	Measurements of the $pp \rightarrow W^{\pm} Z$ and $pp \rightarrow Z$ cross sections at $\sqrt{s} = 13$ TeV and limits on anomalous quartic gauge couplings. Journal of High Energy Physics, 2021, 2021, 1.	1.6	7
103	Study of Z boson plus jets events using variables sensitive to double-parton scattering in pp collisions at 13 TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	1
104	Measurements of the Electroweak Diboson Production Cross Sections in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV Using Leptonic Decays. Physical Review Letters, 2021, 127, 191801.	2.9	6
105	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 970.	1.4	18
106	Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the $\tau\tau, \tau\tau, b\bar{b}$ final state at 13 TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	11
107	Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	36
108	Selection of the silicon sensor thickness for the Phase-2 upgrade of the CMS Outer Tracker. Journal of Instrumentation, 2021, 16, P11028.	0.5	3

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109	Measurement of differential production cross sections in the full kinematic range using $\hat{\sigma}(\sqrt{s}) = \int d\Omega \frac{d\sigma}{d\Omega}(\sqrt{s}, \Omega)$ production cross sections in the full kinematic range using $\hat{\sigma}(\sqrt{s}) = \int d\Omega \frac{d\sigma}{d\Omega}(\sqrt{s}, \Omega)$	1.6	16
110	Observation of tW production in the single-lepton channel in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	2
111	Measurement of prompt open-charm production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	2
112	Measurement of the top quark mass using events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	5
113	Search for Long-Lived Particles Decaying in the CMS End Cap Muon Detectors in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2021, 127, 261804.	2.9	17
114	Search for a heavy resonance decaying to a top quark and a W boson at $\sqrt{s} = 13$ TeV in the fully hadronic final state. Journal of High Energy Physics, 2021, 2021, 1.	1.6	1
115	Imaging with Ion Beams at MedAustron. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162246.	0.7	1
116	Energy loss of protons from MedAustron in silicon strip sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162280.	0.7	0
117	Measurements and simulations of surface radiation damage effects on IFX and HPK test structures. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162794.	0.7	5
118	Observation of nuclear modifications in $W\hat{\pm}$ boson production in pPb collisions at $\sqrt{s_{NN}}=8.16$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135048.	1.5	18
119	Search for high-mass boson pairs produced from decays of $W\hat{\pm}$ bosons in final states with two muons and two nearby tracks in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135048.	1.5	28
120	Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135042.	1.5	12
121	Field effect transistor test structures for inter-strip isolation studies in silicon strip detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162233.	0.7	0
122	Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 151802.	2.9	20
123	Beam test performance of prototype silicon detectors for the Outer Tracker for the Phase-2 Upgrade of CMS. Journal of Instrumentation, 2020, 15, P03014-P03014.	0.5	6
124	Measurements of production cross sections of WZ and same-sign WW boson pairs in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135048.	1.5	37
125	Imaging with protons at MedAustron. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 978, 164407.	0.7	8
126	Strange hadron production in pp and pPb collisions at $\sqrt{s} = 13$ TeV. Physical Review C, 2020, 101, .	1.1	10

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127	The production of isolated photons in PbPb and pp collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	4
128	Measurement of CKM matrix elements in single top quark t-channel production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135609.	1.5	8
129	Investigation into the event-activity dependence of $\tilde{\Gamma}(nS)$ relative production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	12
130	Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	11
131	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.	1.3	21
132	Experimental study of different silicon sensor options for the upgrade of the CMS Outer Tracker. Journal of Instrumentation, 2020, 15, P04017-P04017.	0.5	5
133	boson pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2020, 102, ...	1.6	13
134	Search for electroweak production of a vector-like T quark using fully hadronic final states. Journal of High Energy Physics, 2020, 2020, 1.	1.6	14
135	Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	14
136	Measurement of properties of $\mathrm{B}_s^0 \rightarrow \tau^+ \tau^-$ decays and search for $\mathrm{B}_s^0 \rightarrow \tau^+ \tau^-$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	1.6	41
137	Search for a light pseudoscalar Higgs boson in the boosted $\tau^+ \tau^-$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	23
138	Production and the $\tau^+ \tau^-$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	2.9	38
139	Measurements of surface and bulk radiation damage effects in silicon detectors for Phase-2 CMS Outer Tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 980, 164423.	0.7	2
140	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P02027-P02027.	0.5	27
141	Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	10
142	Measurement of the cross section for $\mathrm{t}\overline{\mathrm{t}}$ production with additional jets and b jets in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	5
143	Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	41
144	Measurement of the $\Upsilon(1S)$ pair production cross section and search for resonances decaying to $\Upsilon(1S) \tau^+ \tau^-$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135578.	1.5	27

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146	Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P05002-P05002.	0.5	3
147	Measurement of the jet mass distribution and top quark mass in hadronic decays of boosted top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 152001.	1.6	11
148	Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2020, 102, .	2.9	13
149	Study of central exclusive "Equation missing" production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV. European Physical Journal C, 2020, 80, 718.	2.9	14
150	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.	1.6	10
151	Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.4	7
152	Pileup mitigation at CMS in 13 TeV data. Journal of Instrumentation, 2020, 15, P09018-P09018.	2.9	9
153	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.6	25
154	Search for decays of the 125 GeV Higgs boson into a Z boson and a $\tilde{\chi}^0$ or $\tilde{\chi}^\pm$ meson. Journal of High Energy Physics, 2020, 2020, 1.	0.5	47
155	Measurement of $B_c(2S)^+$ and $B_c^*(2S)^+$ cross section ratios in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2020, 102, .	0.5	84
156	Measurements of the W boson rapidity, helicity, double-differential cross sections, and charge asymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 102001.	1.6	6
157	Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	25
158	Measurement of the top quark Yukawa coupling from kinematic distributions in the dilepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 222001.	1.6	13
159	Evidence for Top Quark Production in Nucleus-Nucleus Collisions. Physical Review Letters, 2020, 125, 222001.	1.6	10
160	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.	2.9	7
161	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	1.6	21

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164	Search for bottom-type, vectorlike quark pair production in a fully hadronic final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2020, 102, .	1.6	21
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166	Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter. Journal of Instrumentation, 2020, 15, P06009-P06009.	0.5	5
167	Charge collection and electrical characterization of neutron irradiated silicon pad detectors for the CMS High Granularity Calorimeter. Journal of Instrumentation, 2020, 15, P09031-P09031.	0.5	3
168	Search for supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in events with high-momentum Z bosons and missing transverse momentum. Journal of High Energy Physics, 2020, 2020, 1.	1.6	4
169	Search for resonant pair production of Higgs bosons in the $b\bar{b}Z$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	10
170	Search for a light charged Higgs boson in the $H\hat{A}^{\pm}c\bar{s}$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	20
171	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	20
172	Running of the top quark mass from proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135448.	1.5	18
173	Search for a light charged Higgs boson in the $H\hat{A}^{\pm}c\bar{s}$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135448.	1.5	6
174	Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	2
175	Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135448.	1.5	40
176	Search for new neutral Higgs bosons through the HoZAb process in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	27
177	Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 189.	1.4	22
178	Multiparticle correlation studies in $p\bar{p}$ collisions at $\sqrt{s} = 13$ TeV. Physical Review C, 2020, 101, .	1.1	9
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180	Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on anomalous quartic couplings. Journal of High Energy Physics, 2020, 2020, 1.	1.6	20

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183	Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at $\sqrt{s}=13$,ext {TeV}. European Physical Journal C, 2020, 80, 43.	1.4	11
184	Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	1
185	Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 124, 041803.	2.9	6
186	Evidence for W production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$,ext {TeV}. European Physical Journal C, 2020, 80, 1.	1.4	10
187	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 75.	1.4	78
188	Characterization of irradiated p-type silicon detectors for TCAD surface radiation damage model validation. Journal of Instrumentation, 2020, 15, C01029-C01029.	0.5	3
189	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 $\sqrt{s}=13$,ext {TeV}. European Physical Journal C, 2020, 80, 3.	1.4	70
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192	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\tau\mu$, and $e\tau$, in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	15
193	A search for the standard model Higgs boson decaying to charm quarks. Journal of High Energy Physics, 2020, 2020, 1.	1.6	20
194	Search for a narrow resonance lighter than 200 GeV decaying to a pair of muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 124, 111801.	1.5	6
195	Search for a narrow resonance lighter than 200 GeV decaying to a pair of muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 124, 131802.	2.9	61
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197	Study of excited $\bar{b}0$ states decaying to $\bar{b}0\gamma$ in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 803, 135345.	1.5	24
198	A measurement of the Higgs boson mass in the diphoton decay channel. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135425.	1.5	63

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202	Measurement of the top quark pair production cross section in dilepton final states containing one \bar{l} , lepton in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	2
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204	Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.5	16
205	Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	26
206	Dependence of inclusive jet production on the anti- k_T distance parameter in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	8
207	Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	13
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211	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.	1.4	5
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213	Measurement of 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.	1.4	33
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216	Search for a $W\epsilon^2$ 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.	1.6	5

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218	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.	1.6	3
219	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	17
220	Search for excited leptons in $\hat{a}, \hat{a}, \hat{f}^3$ final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	3
221	Search for new particles decaying to a jet and an emerging jet. Journal of High Energy Physics, 2019, 2019, 1.	1.6	24
222	Centrality and pseudorapidity dependence of the transverse energy density in p - Pb collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 100.	1.1	6
223	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	10
224	Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at $s=13$ TeV. Physical Review D, 2019, 99, .	1.6	20
225	Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	9
226	Search for pair production of second-generation leptoquarks at $s=13$ TeV. Physical Review D, 2019, 99, .	1.6	32
227	Search for pair production of first-generation scalar leptoquarks at $s=13$ TeV. Physical Review D, 2019, 99, .	1.6	31
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229	Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 76-99.	1.5	6
230	Measurement of exclusive Υ photoproduction from protons in p - Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 277.	1.4	35
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233	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.	1.6	8
234	Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.	1.4	40

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236	Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134952.	1.5	17
237	Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134985.	1.5	36
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241	Measurement of the top quark Yukawa coupling from $t\bar{t}\hat{A}^-$ kinematic distributions in the lepton+jets final state in proton-proton collisions at $s = 13$ TeV. Physical Review D, 2019, 100, .	1.6	6
242	Charged-particle angular correlations in XeXe collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2019, 100, .	0.5	10
243	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 49, 17001.	1.4	8
244	Search for a Light Charged Higgs Boson Decaying to a W Boson and a C Boson and a P Boson in Final States with $W \rightarrow \mu \nu$. Physical Review D, 2019, 100, 035011.	2.9	21
245	Mesons in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2019, 123, 022001.	2.9	17
246	Search for charged Higgs bosons in the $H \rightarrow \tau^+ \tau^- \tilde{l}_1 \tilde{l}_1^*$ decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	54
247	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, 49, 17002.	1.4	4
248	Evidence for light-by-light scattering and searches for axion-like particles in ultraperipheral PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2019, 123, 022001.	1.5	87
249	Search for Higgs bosons decaying to J/ψ or Y pairs in the four-muon final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134811.	1.5	36
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251	A search for pair production of new light bosons decaying into muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 796, 131-154.	1.5	27
252	Measurement of meson production in pp and PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2019, 123, 022001.	1.5	14

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254	Search for Dark Matter Particles Produced in Association with a Top Quark Pair at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 011803.	2.9	12
255	Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 021801.	2.9	37
256	Search for supersymmetric partners of electrons and muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 140-166.	1.5	47
257	CMS Collaboration. Nuclear Physics A, 2019, 982, 1010-1035.	0.6	0
258	Non-Gaussian elliptic-flow fluctuations in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 413-416.	1.5	12
259	Measurement of the associated production of a Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 345-368.	1.6	28
260	Search for an \tilde{L} gauge boson using $Z\tilde{\nu}\tilde{\nu}^*$ events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 345-368.	1.5	49
261	Search for a low-mass \tilde{L}, \tilde{L}^* resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	9
262	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 \tilde{L}, \tilde{L}^* . Journal of High Energy Physics, 2019, 2019, 1.	1.6	7
263	Search for the pair production of light top squarks in the $e\tilde{L}\tilde{L}^*$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	5
264	Measurement of associated production of a W boson and a charm quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 269.	1.4	35
265	Observation of prompt J/ψ meson elliptic flow in high-multiplicity pPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 172-194.	1.5	21
266	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 421.	1.4	355
267	Search for supersymmetry in events with a photon, jets, b -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 444.	1.4	11
268	Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton final state. Physical Review D, 2019, 99, .	1.6	69
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270	Measurements of properties of the Higgs boson decaying to a W boson pair in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 96-129.	1.5	44

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272	Measurement of the $t\bar{t}$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368.	1.4	68
273	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	12
274	Measurement of inclusive very forward jet cross sections in proton-lead collisions at $\sqrt{s}=5.02$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	8
275	Search for nonresonant Higgs boson pair production in the $b\bar{b}$ final state at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	11
276	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 280.	1.4	29
277	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.	1.6	13
278	Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 320-347.	1.5	53
279	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 364.	1.4	48
280	Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 520-551.	1.6	11
281	Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	2.9	102
282	Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and p-Pb Collisions at $\sqrt{s_{NN}}=2.76$ and 5.02 TeV. Physical Review Letters, 2019, 122, 152001.	2.9	24
283	Search for W Boson Decays to Three Charged Pions. Physical Review Letters, 2019, 122, 151802.	2.9	4
284	Measurement of prompt $T(2S)$ production cross sections in proton-lead and proton-proton collisions at $\sqrt{s}=5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 509-532.	1.5	15
285	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.	1.4	34
286	Study of the underlying event in top quark pair production in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 123.	1.4	11
287	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.	1.4	20
288	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.	1.6	15

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291	Search for $\overline{\mathcal{M}}^{\mathcal{M}}\mathcal{H}$ production in the $\mathcal{H}\mathcal{b}\overline{\mathcal{M}}$ decay channel with leptonic $\overline{\mathcal{M}}$ decays in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 1.	1.6	28
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293	Search for resonant $\overline{\mathcal{M}}^{\mathcal{M}}$ production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	23
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296	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.	1.6	14
297	Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	12
298	Measurement of nuclear modification factors of $\mathcal{P}(1S)$, $\mathcal{P}(2S)$, and $\mathcal{P}(3S)$ mesons in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physics Letters Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 270-293.	1.6	16
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300	Search for pair-produced three-jet resonances in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 99, .	1.6	5
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302	The DAQ and control system for the CMS Phase-1 pixel detector upgrade. Journal of Instrumentation, 2019, 14, P10017-P10017.	0.5	2
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304	Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2019, 122, 132003.	1.5	9
305	Search for vectorlike leptons in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 100, .	1.6	34
306	Search for pair production of vectorlike quarks in the fully hadronic final state. Physical Review D, 2019, 100, .	1.6	35

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309	Probing the chiral magnetic wave in and PbPb collisions at 2.76 TeV using charge-dependent azimuthal anisotropies. Physical Review C, 2019, 100, .	1.6	20
310	Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.1	8
311	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.	1.6	18
312	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.	1.4	12
313	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.	1.6	54
314	Search for Physics beyond the Standard Model in Events with Overlapping Photons and Jets. Physical Review Letters, 2019, 123, 241801.	2.9	1
315	Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 886.	1.4	16
316	Search for long-lived particles using delayed photons in proton-proton collisions at 13 TeV. Physical Review D, 2019, 100, .	1.6	14
317	Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 123, 231803.	2.9	23
318	History, status and prospects of producing silicon sensors for HEP experiments at Infineon Technologies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 924, 1-6.	0.7	3
319	Search for Higgs boson pair production in the final state. Journal of High Energy Physics, 2019, 2019, 1.	1.5	40
320	Measurement of differential cross sections for Z boson pair production in association with jets at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 13-14.	1.6	10
321	Process quality control for large-scale silicon sensor productions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 924, 38-43.	0.7	2
322	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.	1.6	13
323	Search for supersymmetry using Higgs boson to diphoton decays at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	4

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326	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.	1.6	15
327	Study of the $\mathcal{B}(\mathbb{B}^0 \rightarrow \mu^+ \mu^- \gamma)$ decay in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	3
328	Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair. Physical Review Letters, 2018, 120, 071802.	2.9	40
329	Observation of Electroweak Production of Same-Sign W^+W^+ Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 092301.	2.9	86
330	Observation of Correlated Azimuthal Anisotropy Fourier Harmonics in W^+W^+ and W^+Z Collisions at the LHC. Physical Review Letters, 2018, 120, 092301.	2.9	39
331	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2018, 78, 242.	1.4	10
332	Measurement of the Splitting Function in pp and Pb-Pb Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 092301.	2.9	70
333	Measurement of quarkonium production cross sections in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 092301.	1.6	10
334	Observation of the Higgs boson decay to a pair of τ , leptons with the CMS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 283-316.	1.5	125
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337	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 291.	1.4	27
338	Measurements of the $\sigma(\mathbb{B}^0 \rightarrow \mu^+ \mu^- \gamma)$ production cross section and the $\mathcal{B}(\mathbb{B}^0 \rightarrow \mu^+ \mu^- \gamma)$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 165.	1.4	52
339	Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 287.	1.4	16
340	Measurement of the inclusive $\sigma(\mathbb{B}^0 \rightarrow \mu^+ \mu^- \gamma)$ cross section in pp collisions at $\sqrt{s} = 5.02$ TeV using final states with at least one charged lepton. Journal of High Energy Physics, 2018, 2018, 1.	1.6	5
341	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.	1.6	6
342	Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	57

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344	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	12
345	Measurement of normalized differential $\overline{\sigma}$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	18
346	Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
347	Search for ZZ resonances in the $2\hat{\alpha}, "2\hat{1}/2$ final state in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	4
348	Search for massive resonances decaying into W , Z in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	27
349	Measurement of the production cross section for W bosons in association with missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.5	11
350	Search for $\overline{\sigma}\text{H}$ production in the all-jet final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	20
351	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	11
352	Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1.	1.6	43
353	Charged-particle nuclear modification factors in XeXe collisions at $\sqrt{s_{\text{NN}}} = 5.44$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
354	Measurement of the top quark mass with lepton+jets final states using $p\text{H}$ collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 891.	1.4	34
355	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.	1.6	18
356	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	57
357	Measurement of jet substructure observables in W events from proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	24
358	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.	1.6	82
359	Search for Z^3 resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
360	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.	1.6	17

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362	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.	1.6	21
363	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.	2.9	32
364	Performance of reconstruction and identification of \tilde{l} , leptons decaying to hadrons and ν_{τ} in pp collisions at $\sqrt{s}=13$ TeV. Journal of Instrumentation, 2018, 13, P10005-P10005.	0.5	69
365	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.	1.4	46
366	Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 965.	1.4	39
367	Studies of $B_s^0 \rightarrow B^0 \mu^+ \mu^-$ and $B_s^0 \rightarrow B^0 \tau^+ \tau^-$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.4	39

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380	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.	1.6	35
381	Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s}=13$ TeV collisions at 5.02 TeV. European Physical Journal C, 2018, 78, 509.	1.4	83
382	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying W , leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	38
383	Observation of Higgs Boson Decay to Bottom Quarks. Physical Review Letters, 2018, 121, 121801.	2.9	219
384	Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at $\sqrt{s}=13$ TeV. Physical Review D, 2018, 98, .	1.6	39
385	Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 1.	1.4	17
386	Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	20
387	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.	1.6	16
388	Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	13
389	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	62
390	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.	1.6	31
391	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	86
392	Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Charm quark and a neutralino in proton-proton collisions at $\sqrt{s}=13$ TeV. Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 501-532.	1.5	55
393	Measurement of Prompt χ_{c0} Production in $\sqrt{s}=13$ TeV Collisions. Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 501-532.	1.5	19
394	Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s}=2.76$ TeV. Physical Review Letters, 2018, 120, 202301.	2.9	70
395	Search for supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV using identified top quarks. Physical Review D, 2018, 97, .	1.6	23
396	Evidence for the Higgs boson decay to a bottom quark-antiquark pair. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 501-532.	1.5	63

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398	Nuclear modification factor of D0 mesons in PbPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 440-467.	1.5	13
399	Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ using b jets in a final state with a single jet in $\sqrt{s} = 5.02 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 440-467.	1.5	13
400	Search for new physics in final states with an energetic jet or a hadronically decaying W boson and transverse momentum imbalance at $\sqrt{s} = 13 \text{ TeV}$. Physical Review D, 2018, 97, 114005.	1.5	17
401	Search for pair production of vector-like quarks in the $b\bar{b}W$ final state in $\sqrt{s} = 13 \text{ TeV}$ proton-proton collisions. Physical Review D, 2018, 97, 114005.	1.6	30
402	Measurement of the associated production of a single top quark and a Z boson in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 356-384.	1.6	78
403	Jet properties in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	1.6	13
404	Measurement of the associated production of a single top quark and a Z boson in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 356-384.	1.5	37
405	Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of Instrumentation, 2018, 13, P06015-P06015.	0.5	180
407	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2018, 78, 140.	1.4	44
408	Measurement of b hadron lifetimes in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2018, 78, 457.	1.4	15
409	Study of jet quenching with isolated-photon+jet correlations in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 14-29.	1.6	30
410	Search for top squarks and dark matter particles in opposite-charge dilepton final states at $\sqrt{s} = 13 \text{ TeV}$. Physical Review D, 2018, 97, 114005.	1.6	36
411	Observation of Λ^0 baryons in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. Physical Review Letters, 2018, 120, 221801.	2.9	209
412	Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at $\sqrt{s} = 13 \text{ TeV}$. Physical Review Letters, 2018, 120, 221801.	2.9	160
413	Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 574-600.	1.5	36
414	Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 244-269.	1.5	33

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416	Search for Dark Matter and Supersymmetry with a Compressed Mass Spectrum in the Vector Boson Fusion Topology in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2017, 118, 021802.	2.9	24
417	Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 766, 268-290.	1.5	25
418	Measurements of the $t\bar{t}$ production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections. <i>European Physical Journal C</i> , 2017, 77, 15.	1.4	34
419	Measurement of the $t\bar{t}$ production cross section using events in the $e\bar{\nu}_e$ final state in pp collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2017, 77, 172.	1.4	40
420	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.	1.6	54
421	Search for electroweak production of charginos in final states with two \tilde{l} , leptons in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	11
422	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.	1.4	37
423	Measurement of prompt and nonprompt J/ψ production in pp and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. <i>European Physical Journal C</i> , 2017, 77, 269.	1.4	53
424	Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV. <i>Journal of Instrumentation</i> , 2017, 12, P02014-P02014.	0.5	216
425	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 \cancel{E}_T variable. <i>European Physical Journal C</i> , 2017, 77, 294.	1.4	29
426	Search for single production of a heavy vector-like T quark decaying to a Higgs boson and a top quark with a lepton and jets in the final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 771, 80-105.	1.5	14
427	The CMS trigger system. <i>Journal of Instrumentation</i> , 2017, 12, P01020-P01020.	0.5	307
428	Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at $\sqrt{s} = 8$ TeV using the \cancel{E}_T variable. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 767, 403-430.	1.5	17
429	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 768, 137-162.	1.5	17
430	Evidence for collectivity in pp collisions at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 765, 193-220.	1.5	243
431	Measurement of the meson nuclear modification factor in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Physical Review Letters</i> , 2017, 118, 022301.	2.9	62
432	Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review D</i> , 2017, 96, .	1.6	19

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435	Measurement of the top quark mass in the dileptonic decay channel using the mass observables $M_{b\bar{b}}$ and $M_{b\bar{c}}$. Physical Review C, 2017, 96, .	1.6	12
436	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, 467.	1.4	52
437	Measurement of the jet mass in highly boosted $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 467.	1.4	23
438	Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV. Physical Review D, 2017, 96, .	1.6	61
439	Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at $\sqrt{s} = 13.6$ TeV. Physical Review Letters, 2017, 119, 141802.	2.9	54
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445	Search for WZ resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV using jet substructure techniques. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 489-511.	1.5	17
446	Coherent J/ψ photoproduction in ultra-peripheral PbPb collisions at $\sqrt{s_{NN}} = 2.76$ and 13 TeV using jet substructure techniques. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 489-511.	1.6	22
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448	Search for single production of vector-like quarks decaying into a b quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 489-511.	1.5	14
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454	Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 1-24.	1.5	40
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456	Combination of searches for heavy resonances decaying to WW , WZ , ZZ , WH , and ZH boson pairs in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 533-558.	1.5	26
457	Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
458	Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. European Physical Journal C, 2017, 77, 252.	1.4	82
459	Searches for pair production of third-generation squarks in $\sqrt{s} = 13 \text{ TeV}$ pp collisions. European Physical Journal C, 2017, 77, 327.	1.4	32
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489	Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at 8 TeV. Physical Review D, 2016, 94, .	1.6	47
490	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.	1.6	5
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501	Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 439.	1.4	64

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526	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 13.	1.4	62
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533	Limits on the Higgs boson lifetime and width from its decay to four charged leptons. Physical Review D, 2015, 92, .	1.6	55
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538	Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	12
539	Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. Journal of High Energy Physics, 2015, 2015, 1.	1.6	24
540	Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1.	1.6	92

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543	Search for new resonances decaying via WZ to leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 542.	1.4	191
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549	Search for a standard model-like Higgs boson in the ZZ production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 184-207.	1.6	46
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565	Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2014, 89, .	2.9	94
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567	Measurement of the muon charge asymmetry in inclusive muonâ€“muon collisions at $\sqrt{s} = 8$ TeV. Physical Review C, 2014, 89, .	1.6	37
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588	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	39
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600	Measurement of the $X(3872)$ production cross section via decays to $J/\psi + \bar{\psi}\psi$ in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	73
601	Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s}=0.9, 2.76, \text{and } 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	50
602	Search for exotic resonances decaying into WZ/ZZ in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	20
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605	Observation of a diffractive contribution to dijet production in proton-proton collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2013, 87, .	1.6	24
606	Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	16
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614	Measurement of the prompt J and \tilde{I} and \tilde{I} and \tilde{I}		

#	ARTICLE	IF	CITATIONS
631	Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 30-61. Search for Heavy Neutrinos and W Bosons with Right-Handed Couplings in a Left-Right Symmetric Model in pp Collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 68-90.	1.5	6,177
632	A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider. Science, 2012, 338, 1569-1575.	2.9	53
633	Search for neutral Higgs bosons decaying to tau pairs in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 68-90.	6.0	85
634	Search for heavy neutrinos and W bosons with right-handed couplings in a left-right symmetric model in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 68-90.	1.5	120
635	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.5	83
636	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	33
637	Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV. European Physical Journal C, 2012, 72, 1.	1.4	154
638			

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649	Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	25
650	First measurement of the cross section for top-quark pair production in proton-proton collisions at $\sqrt{s} = 0.9$ and 7 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 424-443.	1.5	90
651	Collisions at $\sqrt{s} = 0.9$ and 7 TeV. Dijet Azimuthal Decorrelations in Collisions at $\sqrt{s} = 0.9$ and 7 TeV. Physical Review Letters, 2011, 106, 122003.	2.9	62
652	Bosons with Large Transverse Momenta in W and Z Production. Measurement of the t -Channel Single Top Quark Production Cross Section in Collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	2.9	60
653	Measurement of the t -Channel Single Top Quark Production Cross Section in Collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	2.9	46
654	Collisions at $\sqrt{s} = 0.9$ and 7 TeV. Measurement of energy flow at large pseudorapidities in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV. , 2010, , .	2.9	70
655	Measurement of energy flow at large pseudorapidities in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV. , 2011, 2011, 1.		5
656	BEAM TEST RESULTS FOR FINE PITCHED MULTIGEOMETRY SILICON STRIP DETECTORS. , 2010, , .		0
657	First measurement of the underlying event activity at the LHC with $\sqrt{s} = 0.9$ TeV. European Physical Journal C, 2010, 70, 555-572.	1.4	50
658	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	1.4	120
659	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ and 2.36 TeV. Journal of High Energy Physics, 2010, 2010, 1.	1.6	230
660	First Measurement of Bose-Einstein Correlations in Proton-Proton Collisions at $\sqrt{s} = 0.9$ and 2.36 TeV at the LHC. Physical Review Letters, 2010, 105, 032001.	2.9	49
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662	The CMS experiment at the CERN LHC. Journal of Instrumentation, 2008, 3, S08004-S08004.	0.5	2,192
663	The silicon sensors for the Compact Muon Solenoid tracker design and qualification procedure. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 517, 77-93.	0.7	37
664	Development of an automatic characterisation system for silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 485, 61-66.	0.7	8