

# David Vannerom

## List of Publications by Year in descending order

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471  
papers

13,742  
citations

28274

55  
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56724

83  
g-index

477  
all docs

477  
docs citations

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times ranked

8802  
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.	7.8	23
2	Fragmentation of jets containing a prompt $J/\psi$ 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.	4.1	4
3	Search for $W\tilde{\chi}^0_1$ 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.	4.1	1
4	Search for heavy resonances decaying to $WZ$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2022, 128, 122301.	4.7	10
5	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	1
6	Using $Z$ Boson Events to Study Parton-Medium Interactions in Pb-Pb Collisions. Physical Review Letters, 2022, 128, 122301.	7.8	11
7	differential cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, 014011.	4.7	4
8	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.	1.2	6
9	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
10	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
11	Measurement of the inclusive $\overline{t}t$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
12	Precision measurement of the $W$ boson decay branching fractions in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, 014011.	4.7	5
13	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, 014011.	4.7	30
14	Observation of $B \rightarrow \psi(2S) K^0_{\text{short}}$ and $B \rightarrow \psi(2S) K^0_{\text{long}}$ decays. European Physical Journal C, 2022, 82, .	3.9	1
15	Inclusive nonresonant multilepton probes of new phenomena at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, 014011.	4.7	14
16	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, .	7.8	7
17	Probing Charm Quark Dynamics via Multiparticle Correlations in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2022, 129, .	7.8	5
18	Search for heavy resonances decaying to $Z$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2022, 129, .	7.8	5

#	ARTICLE	IF	CITATIONS
19	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. European Physical Journal C, 2021, 81, 13.	4.1	20
20	Search for dark matter produced in association with a leptonically decaying $Z$ boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 13.	3.9	33
21	Search for top squark pair production using dilepton final states in collision data collected at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 3.	3.9	33
22	Measurement of differential $t\bar{t}$ production cross sections using top quarks at large transverse momenta in $pp$ collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 103, .	4.7	7
23	Measurements of $pp \rightarrow Z Z$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.	3.9	24
24	Development and validation of HERWIG7 tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	3.9	12
25	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 378.	3.9	40
26	Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC. Journal of Instrumentation, 2021, 16, P05014.	1.2	62
27	Measurement of the CP-violating phase $\beta_s$ in the $B_s \rightarrow D^* \mu^+ \mu^-$ decay. Physics Letters, Section B, 2021, 912, 135117.	4.1	12
28	Measurement of the $B_s \rightarrow D^* \mu^+ \mu^-$ decay. Physics Letters, Section B, 2021, 912, 135117.	4.1	12
29	Measurement of the $W$ Production Cross Section in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV and Constraints on Effective Field Theory Coefficients. Physical Review Letters, 2021, 126, 252002.	7.8	13
30	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 488.	3.9	35
31	Observation of a New Excited Beauty Strange Baryon Decaying to $\Lambda_c^+ \bar{K}^0$ . Physical Review Letters, 2021, 126, 252003.	7.8	22
32	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
33	Search for long-lived particles using displaced jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, .	4.7	25
34	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 629.	3.9	18
35	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, Particle and High Energy Physics, 2021, 912, 135117.	4.1	3
36	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, .	4.7	4

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37	Constraints on the Initial State of Pb-Pb Collisions via Measurements of $Z$ -Boson Yields and Azimuthal Anisotropy at $\sqrt{s} = 2.76$ TeV. European Physical Journal C, 2021, 81, 688.	7.8	5
38	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, 683.	3.9	9
39	Measurement of the electroweak production of $Z$ bosons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 812, 135992.	4.1	13
40	Hard color-singlet exchange in dijet events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, .	4.7	3
41	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.	3.9	19
42	Search for lepton-flavor violating decays of the Higgs boson in the $Z\tau\tau$ and $Z\tau\nu\tau$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136535.	4.7	25
43	Search for $W\tau\nu$ bosons decaying to a top and a bottom quark at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 819, 136446.	4.1	33
44	Search for $W\tau\nu$ bosons decaying to a top and a bottom quark at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136535.	4.1	9
45	Search for $W\tau\nu$ bosons decaying to a top and a bottom quark at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 819, 136446.	4.1	5
46	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, .	4.7	16
47	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, .	4.7	8
48	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.	7.8	16
49	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
50	Search for top squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, .	4.7	20
51	Measurement of the electroweak production of $Z$ bosons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 812, 135992.	4.1	18
52	Correlations of azimuthal anisotropy Fourier harmonics with subevent cumulants in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV. Physical Review C, 2021, 103, .	2.9	1
53	Search for top squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, .	4.7	13
54	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.	7.8	6



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55	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.	3.9	18
56	Measurement of differential production cross sections in the full kinematic range using $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135048.	4.7	16
57	Observation of nuclear modifications in $W$ 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.	4.1	18
58	Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson 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, 135042.	4.1	28
59	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.	4.1	12
60	Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 151802.	7.8	20
61	Beam test performance of prototype silicon detectors for the Outer Tracker for the Phase-2 Upgrade of CMS. Journal of Instrumentation, 2020, 15, P03014.	1.2	6
62	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, 808, 135609.	4.1	37
63	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, 808, 135609.	2.9	10
64	The production of isolated photons in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
65	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.	4.1	8
66	Investigation into the event-activity dependence of $\bar{p}(nS)$ relative production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
67	Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	11
68	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
69	Experimental study of different silicon sensor options for the upgrade of the CMS Outer Tracker. Journal of Instrumentation, 2020, 15, P04017.	1.2	5
70	Search for electroweak production of a vector-like $T$ quark using fully hadronic final states. Journal of High Energy Physics, 2020, 2020, 1.	4.7	13
71	Search for electroweak production of a vector-like $T$ quark using fully hadronic final states. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
72	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.	4.7	14

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73	Measurement of properties of $B_s^0 \rightarrow \mu^+ \mu^-$ decays and search for $B_s^0 \rightarrow \mu^+ \mu^-$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	41
74	Search for a light pseudoscalar Higgs boson in the boosted $t\bar{t}$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	23
75	Production and the $H \rightarrow \mu^+ \mu^-$ Structure of the Yukawa	7.8	38
76	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
77	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.	4.7	10
78	Measurement of the cross section for $t\bar{t}$ production with additional jets and b jets in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	5
79	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.	4.7	41
80	Measurement of the $Y(1S)$ pair production cross section and search for resonances decaying to $Y(1S) \rightarrow \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135578.	4.1	27
81	Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	37
82	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
83	Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV. Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in $t\bar{t}$ Collisions at $\sqrt{s} = 13$ TeV.	4.7	11
84	Collisions at $\sqrt{s} = 13$ TeV.	7.8	13
85	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, .	7.8	14
86	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, .	4.7	10
87	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
88	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
89	Search for physics beyond the standard model in dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 102001.	7.8	9
90	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.	4.7	25

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91	Pileup mitigation at CMS in 13 TeV data. Journal of Instrumentation, 2020, 15, P09018-P09018.	1.2	47
92	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
93	Search for decays of the 125 GeV Higgs boson into a Z boson and a $\bar{c}c$ meson. Journal of High Energy Physics, 2020, 2020, 1.	4.7	6
94	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, .	4.7	4
95	Measurements of the $W$ boson rapidity, helicity, double-differential cross sections, and charge asymmetry in $pp$ collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2020, 102, .	4.7	13
96	Measurement of the top quark Yukawa coupling from $t\bar{t}$ kinematic distributions in the dilepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 222001.	4.7	10
97	Evidence for Top Quark Production in Nucleus-Nucleus Collisions. Physical Review Letters, 2020, 125, 222001.	7.8	7
98	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
99	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	66
100	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, .	4.7	21
101	Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques. Journal of Instrumentation, 2020, 15, P06005-P06005.	1.2	56
102	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.	1.2	5
103	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.	4.7	4
104	Search for resonant pair production of Higgs bosons in the $b\bar{b}Z$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2020, 102, .	4.7	10
105	Search for dijet resonances using events with three jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 222001.	4.7	20
106	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
107	Search for dijet resonances using events with three jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 222001.	4.1	18
108	Search for dijet resonances using events with three jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135448.	4.1	6

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109	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.	4.7	2
110	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, 806, 135502.	4.1	40
111	Search for new neutral Higgs bosons through the $\text{H} \rightarrow \text{ZZ} \rightarrow \text{e}^+ \text{e}^- \text{b} \bar{\text{b}}$ process in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	27
112	Search for direct pair production of supersymmetric partners to the $\tilde{\tau}_1$ lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 189.	3.9	22
113	Multiparticle correlation studies in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review C, 2020, 101, ...	2.9	9
114	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in $\text{PbPb}$ collisions at $\sqrt{s_{NN}} = 2.76$ and $5.02$ TeV. European Physical Journal C, 2020, 80, 534.	3.9	14
115	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.	4.7	20
116	Determination of the strong coupling constant $\hat{\alpha}_S(m_Z)$ from measurements of inclusive $W_{\pm}$ and Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 7$ and $8$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	6
117	Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	7
118	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
119	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.	4.7	1
120	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.	7.8	6
121	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
122	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
123	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
124	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
125	Polarizations in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 124, ...	7.8	6
126	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\tau \mu$ and $e \mu$ , in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	15



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127	A search for the standard model Higgs boson decaying to charm quarks. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
128	Study of meson production inside jets in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.1	6
129	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	7.8	61
130	Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	25
131	Study of excited $\tilde{b}_0$ states decaying to $\tilde{b}_0 \tilde{\ell} \tilde{\ell}^*$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 803, 135345.	4.1	24
132	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.	4.1	63
133	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
134	A multi-dimensional search for new heavy resonances decaying to boosted $W$ boson pairs in the dijet final state at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 237.	3.9	31
135	Measurement of the production cross section of baryons in proton-proton and lead-lead collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.1	28
136	Measurement of the top quark pair production cross section in dilepton final states containing one $\tilde{l}$ , lepton in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	2
137	Measurement of the production cross section of $b\bar{c}$ baryons in proton-proton and lead-lead collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.1	16
138	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.	4.7	26
139	Dependence of inclusive jet production on the anti-kT distance parameter in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	8
140	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.	4.7	13
141	Observation of the $\tilde{b}_0 \rightarrow \tilde{l} \tilde{l}^*$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 802, 135203.	4.1	6
142	Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton interactions. Journal of Instrumentation, 2020, 15, P10002-P10002.	1.2	9
143	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8$ TeV with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	3.9	5
144	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

#	ARTICLE	IF	CITATIONS
145	Measurement of $\sigma_{\text{t}}^{\text{ar}}(\text{t})$ normalised multi-differential cross sections in $\text{pp}$ collisions at $\sqrt{s}=13, \text{TeV}$ , and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	33
146	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two $\tilde{l}$ , leptons and two jets in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	33
147	Search for a $W\tilde{e}^2$ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	5
148	Search for top quark partners with charge $5/3$ in the same-sign dilepton and single-lepton final states in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	13
149	Inclusive search for supersymmetry in $\text{pp}$ collisions at $\sqrt{s}=13 \text{ TeV}$ using razor variables and boosted object identification in zero and one lepton final states. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	3
150	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	17
151	Search for excited leptons in $\tilde{e}, \tilde{\mu}$ final states in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	3
152	Search for new particles decaying to a jet and an emerging jet. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	24
153	Centrality and pseudorapidity dependence of the transverse energy density in $\text{pPb}$ collisions at $\sqrt{s}=2.76 \text{ TeV}$ . <i>Physical Review Letters</i> , 2019, 122, 1.	2.9	6
154	Search for the production of $W\tilde{e}^{\pm}$ events at $\sqrt{s}=13 \text{ TeV}$ . <i>Physical Review D</i> , 2019, 100, .	4.7	10
155	Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ . <i>Physical Review D</i> , 2019, 99, .	4.7	20
156	Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in $\text{pp}$ collisions at $\sqrt{s}=13 \text{ TeV}$ . <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	9
157	Search for pair production of second-generation leptoquarks at $\sqrt{s}=13 \text{ TeV}$ . <i>Physical Review D</i> , 2019, 99, .	4.7	32
158	Search for pair production of first-generation scalar leptoquarks at $\sqrt{s}=13 \text{ TeV}$ . <i>Physical Review D</i> , 2019, 99, .	4.7	31
159	Measurement of exclusive $\rho^0$ photoproduction in ultraperipheral $\text{pPb}$ collisions at $\sqrt{s_{\text{NN}}}=5.02, \text{TeV}$ . <i>European Physical Journal C</i> , 2019, 79, 702.	3.9	33
160	Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at $13 \text{ TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 795, 76-99.	4.1	6
161	Measurement of exclusive $\Upsilon$ photoproduction from protons in $\text{pPb}$ collisions at $\sqrt{s_{\text{NN}}}=5.02, \text{TeV}$ . <i>European Physical Journal C</i> , 2019, 79, 277.	3.9	35
162	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13, \text{TeV}$ . <i>European Physical Journal C</i> , 2019, 79, 564.	3.9	50

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163	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 398-423.	4.1	41
164	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
165	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
166	Search for long-lived particles using nonprompt jets and missing transverse momentum with proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134876.	4.1	26
167	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.	4.1	17
168	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.	4.1	36
169	Search for a light charged Higgs boson decaying to a $W$ boson and a $C$ boson in final states with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134992.	4.1	19
170	An embedding technique to determine $\tilde{t}, \tilde{t}^*$ backgrounds in proton-proton collision data. Journal of Instrumentation, 2019, 14, P06032-P06032.	1.2	12
171	Performance of missing transverse momentum reconstruction in proton-proton collisions at $\sqrt{s}=13$ TeV using the CMS detector. Journal of Instrumentation, 2019, 14, P07004-P07004.	1.2	83
172	Measurement of the top quark Yukawa coupling from $t\bar{t}$ kinematic distributions in the lepton+jets final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 100, .	4.7	6
173	Charged-particle angular correlations in XeXe collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review C, 2019, 100, .	2.9	10
174	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $\sqrt{s}=13$ TeV collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 773.	3.9	8
175	Search for a light charged Higgs boson decaying to a $W$ boson and a $C$ boson in final states with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134992.	7.8	21
176	Studies of Beauty Suppression via Nonprompt $\tilde{t}$ Decays in Final States with Two Jets in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 123, 022001.	7.8	17
177	Search for charged Higgs bosons in the $H\tilde{A}\tilde{A}^*$ decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	54
178	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
179	Search for a light charged Higgs boson decaying to a $W$ boson and a $C$ boson in final states with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134992.	4.1	87
180	Measurement of electroweak $WZ$ boson production and search for new physics in $WZ$ + two jets events in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 281-307.	4.1	36

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181	Search for Higgs and Z boson decays to $J/\psi$ or Y pairs in the four-muon final state in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134811.	4.1	12
182	A search for pair production of new light bosons decaying into muons in proton-proton collisions at $13\sqrt{s}\text{TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 796, 131-154.	4.1	27
183	Search for meson production in pp and PbPb collisions at $\sqrt{s}=13\sqrt{s}\text{TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 796, 158-190.	4.1	14
184	Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
185	Search for Dark Matter Particles Produced in Association with a Top Quark Pair at $\sqrt{s}=13\text{TeV}$ . Physical Review Letters, 2019, 122, 011803.	7.8	12
186	Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at $\sqrt{s}=13\text{TeV}$ . Physical Review Letters, 2019, 122, 021801.	7.8	37
187	Search for supersymmetric partners of electrons and muons in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 140-166.	4.1	47
188	CMS Collaboration. Nuclear Physics A, 2019, 982, 1010-1035.	1.5	0
189	Non-Gaussian elliptic-flow fluctuations in PbPb collisions at $\sqrt{s}=13\sqrt{s}\text{TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 369-396.	4.1	32
190	Measurement and interpretation of differential cross sections for Higgs boson production at $\sqrt{s}=13\sqrt{s}\text{TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 369-396.	4.1	28
191	Search for an $L\alpha_e$ gauge boson using $Z\alpha_e$ events in proton-proton collisions at $\sqrt{s}=13\sqrt{s}\text{TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 345-368.	4.1	49
192	Search for a low-mass $\tilde{t}, \tilde{t}^*$ resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s}=13\sqrt{s}\text{TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	9
193	Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s}=13\sqrt{s}\text{TeV}$ via Higgs boson decays to $\tilde{l}, \tilde{l}^*$ leptons. Journal of High Energy Physics, 2019, 2019, 1.	4.7	7
194	Search for the pair production of light top squarks in the $e\tilde{t}\tilde{t}^*$ final state in proton-proton collisions at $\sqrt{s}=13\sqrt{s}\text{TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
195	Measurement of associated production of a $W$ boson and a charm quark in proton-proton collisions at $\sqrt{s}=13\sqrt{s}\text{TeV}$ . European Physical Journal C, 2019, 79, 269.	3.9	35
196	Observation of prompt $J/\psi$ meson elliptic flow in high-multiplicity pPb collisions at $\sqrt{s}=13\sqrt{s}\text{TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 172-194.	4.1	21
197	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13\sqrt{s}\text{TeV}$ . European Physical Journal C, 2019, 79, 421.	3.9	355
198	Search for supersymmetry in events with a photon, jets, $b$ -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13\sqrt{s}\text{TeV}$ . European Physical Journal C, 2019, 79, 444.	3.9	11



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200	Measurements of the pp $\hat{t}'$ WZ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 1.	4.7	14
201	Search for 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, 792, 107-131.	4.1	44
202	Search for a W $\hat{e}$ boson decaying to a $\mu$ , lepton and a neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 107-131.	4.1	28
203	Measurement of the $\mathcal{B}(\text{t} \rightarrow \text{W} b)$ 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
204	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
205	Measurement of inclusive very forward jet cross sections in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	8
206	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.	4.7	11
207	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
208	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
209	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.	4.1	53
210	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
211	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, 792, 520-551.	4.1	146
212	Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 121803.	7.8	102
213	Search for a Higgs boson decaying to a $\mu$ and $e$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 121801.	7.8	24
214	Search for a Higgs boson decaying to a $\mu$ and $e$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 151802.	7.8	4
215	Measurement of inclusive very forward jet cross sections in proton-lead and proton-proton collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 509-532.	4.1	15
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217	Study of the underlying event in top quark pair production in $p\bar{p}$ collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 123.	3.9	11
218	Search for rare decays of $Z$ and Higgs bosons to $J/\psi$ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 94.	3.9	20
219	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
220	Search for long-lived particles decaying into displaced jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 99, .	4.7	28
221	Measurements of $t\bar{t}$ 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
222	Search for $t\bar{t}H$ production in the $H \rightarrow b\bar{b}$ decay channel with leptonic $t\bar{t}$ decays in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
223	Search for Narrow $H^{\pm}$ Resonances in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 081804.	7.8	3
224	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
225	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
226	Search for resonant $t\bar{t}$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	23
227	Observation of Single Top Quark Production in Association with a $Z$ Boson in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 081804.	7.8	30
228	Observation of Two Excited $B_c$ States and Measurement of the $B_c \rightarrow \mu^+ \mu^-$ Decay. Physical Review Letters, 2019, 122, 081804.	7.8	62
229	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
230	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
231	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
232	Measurement of nuclear modification factors of $\rho(1S)$ , $\rho(2S)$ , and $\rho(3S)$ 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.	4.7	16
233	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
234	Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 99, .	4.7	16

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236	Search for resonances decaying to a pair of Higgs bosons in the $b\bar{b}$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	10
237	The DAQ and control system for the CMS Phase-1 pixel detector upgrade. Journal of Instrumentation, 2019, 14, P10017-P10017.	1.2	2
238	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in $pp$ collisions at $\sqrt{s} = 8, 13$ TeV. European Physical Journal C, 2019, 79, 969.	3.9	6
239	Search for pair-produced distributions of charged hadrons in xenon-xenon collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review D, 2019, 100, .	4.1	9
240	Search for vectorlike leptons in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 100, .	4.7	34
241	Search for pair production of vectorlike quarks in the fully hadronic final state. Physical Review D, 2019, 100, .	4.7	35
242	Measurement of the top quark polarization and spin correlations in $t\bar{t}$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 100, .	4.7	33
243	Constraints on anomalous $ttH$ couplings from the production of Higgs bosons decaying to $\tau\tau$ . Physical Review D, 2019, 100, .	4.7	21
244	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 100, .	4.7	20
245	Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 100, .	2.9	8
246	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
247	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
248	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
249	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
250	Search for Physics beyond the Standard Model in Events with Overlapping Photons and Jets. Physical Review Letters, 2019, 123, 241801.	7.8	1
251	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
252	Search for long-lived particles using delayed photons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 100, .	4.7	14

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254	Search for Higgs boson pair production in the $W\gamma$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.1	40
255	Measurement of differential cross sections for Z boson pair production in association with jets at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 19-44.	4.7	10
256	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
257	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
258	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
259	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
260	Study of the $\Lambda_b^0 \rightarrow \Lambda_c^+ \mu^- \bar{\nu}_\mu$ decay in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
261	Dark Matter searches with CMS. , 2019, , .		1
262	Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair. Physical Review Letters, 2018, 120, 071802.	7.8	40
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264	Observation of Correlated Azimuthal Anisotropy Fourier Harmonics in $pp$ Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 092301.	7.8	39
265	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
266	Measurement of the Splitting Function in $pp$ and Pb-Pb Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 071802.	7.8	70
267	Measurement of quarkonium production cross sections in $pp$ collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 071802.	4.7	34
268	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
269	Observation of the Higgs boson decay to a pair of $\tau$ , leptons with the CMS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 283-316.	4.1	125
270	Suppression of Excited $\Lambda(1520)$ States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2018, 120, 142301.	7.8	38



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272	Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	36
273	Search for heavy resonances decaying to a top quark and a bottom quark in the lepton+jets final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and Experimental Physics, 2018, 2018, 1.	4.1	16
274	Measurements of the $pp \rightarrow Z + \text{charm}$ production cross sections in association with $b$ jets and inclusive jets and their ratio using dilepton final states in $pp$ collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 291.	4.1	16
275	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
276	Measurements of the $pp \rightarrow Z + \text{charm}$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 165.	3.9	52
277	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
278	Measurement of the inclusive $t\bar{t}$ 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
279	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
280	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
281	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
282	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
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287	Search for ZZ resonances in the $2\ell, 2\ell\gamma$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
288	Search for massive resonances decaying into $WZ$ or $WZ$ final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	27

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292	Measurement of the groomed jet mass in PbPb and pp collisions at $\sqrt{s_{NN}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
293	Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at $s=13$ TeV. Physical Review D, 2018, 98, .	4.7	16
294	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
295	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	19
296	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
297	Pseudorapidity and transverse momentum dependence of flow harmonics in $p$ and PbPb collisions. Physical Review C, 2018, 98, .	2.9	8
298	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
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301	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
302	Charged-particle nuclear modification factors in XeXe collisions at $\sqrt{s_{NN}}=5.44$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
303	Precision measurement of the structure of the CMS inner tracking system using nuclear interactions. Journal of Instrumentation, 2018, 13, P10034-P10034.	1.2	11
304	Measurement of the top quark mass with lepton+jets final states using $p$ collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 891.	3.9	34
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308	Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
309	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	57
310	Event shape variables measured using multijet final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
311	Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physical Review D, 2018, 98, .	4.7	24
312	Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physical Review Letters, 2018, 121, 241802.	7.8	50
313	Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physical Review D, 2018, 98, .	4.7	17
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316	Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ and constraints on dark matter mediators and other new particles. Journal of High Energy Physics, 2018, 2018, 1.	4.7	82
317	Search for $Z^{\prime 3}$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
318	Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
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320	Search for supersymmetry in events with a $\tilde{l}$ , lepton pair and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	21
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322	Search for the decay of a Higgs boson in the $h \rightarrow \tau^+ \tau^-$ channel in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
323	Performance of reconstruction and identification of $\tilde{l}$ , leptons decaying to hadrons and $\tilde{l} \rightarrow \nu \tilde{l}$ in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of Instrumentation, 2018, 13, P10005-P10005.	1.2	69
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326	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
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351	Search for lepton flavour violating decays of the Higgs boson to $\tau\mu$ , and $e\tau$ , in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
352	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $\tilde{t}$ , leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
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354	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two b quarks and two $\tilde{l}$ , leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 462-488.	4.1	13
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356	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, .	4.7	39
357	Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 1.	3.9	17
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359	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
360	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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364	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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369	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, Elementary Particle and High-Energy Physics, 2018, 778, 349-370.	4.1	19
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381	Measurement of differential cross sections for the production of top quark pairs and of additional jets in $pp$ collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 440-467.	2.9	29
382	Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 440-467.	4.7	30
383	Search for pair production of vector-like quarks in the $pp$ collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 440-467.	4.7	78
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385	Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 440-467.	4.1	37
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394	Measurement of $b$ hadron lifetimes in $pp$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 457.	3.9	15
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400	Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at $\sqrt{s}$ . Physical Review Letters, 2018, 120, 221801.	7.8	160
401	Search for vectorlike light-flavor quark partners in proton-proton collisions at $\sqrt{s}$ . Physical Review Letters, 2018, 120, 221801.	4.7	10
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417	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.	3.9	23
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419	Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV. Physical Review D, 2017, 96, .	4.7	61
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