

Antonio Perez-Calero Yzquierdo

List of Publications by Year in descending order

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Version: 2024-02-01

460
papers

18,930
citations

15466

65
h-index

21474

114
g-index

474
all docs

474
docs citations

474
times ranked

10000
citing authors

#	ARTICLE	IF	CITATIONS
1	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	6
2	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
13	Measurement of the inclusive $\overline{t}t$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
14	Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
15	Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	4
16	Observation of $B^0 \rightarrow \mu^+ \mu^- (2S) K^0_{\text{short}}$ and $B^0_{\text{short}} \rightarrow \mu^+ \mu^- (2S) K^0_{\text{short}}$ decays. European Physical Journal C, 2022, 82, 1.	1.4	1
17	Search for the lepton flavor violating decay $\tilde{L} \rightarrow \ell \tau^+ \tau^-$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	3
18	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 13.	1.4	33

#	ARTICLE	IF	CITATIONS
19	Search for top squark pair production using dilepton final states in $\{pp\}$ collision data collected at $\sqrt{s}=13, \text{ext}\{TeV\}$. European Physical Journal C, 2021, 81, 3.	1.4	33
20	Measurements of $\{pp\} \rightarrow \{ZZ\}$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13, \text{ext}\{TeV\}$. European Physical Journal C, 2021, 81, 200.	1.4	24
21	Development and validation of HERWIG ^{2.7} tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	1.4	12
22	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13, \text{ext}\{TeV\}$. European Physical Journal C, 2021, 81, 378.	1.4	40
23	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. European Physical Journal C, 2021, 81, 488.	1.4	35
24	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2021, 2021, 1.	1.6	27
25	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. European Physical Journal C, 2021, 81, 629.	1.4	18
26	Search for a heavy vector resonance decaying to a $\{Z\}_\rho$ boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. European Physical Journal C, 2021, 81, 688.	1.4	9
27	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. European Physical Journal C, 2021, 81, 723.	1.4	19
28	Measurements of angular distance and momentum ratio distributions in three-jet and $\{ZZ\}$ + two-jet final states in $\{pp\}$ collisions. European Physical Journal C, 2021, 81, 852.	1.4	2
29	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$ in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	1.4	123
30	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. European Physical Journal C, 2021, 81, 970.	1.4	18
31	Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s} = 13, \text{ext}\{TeV\}$. Physical Review Letters, 2020, 125, 151802.	2.9	20
32	Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1.	1.6	11
33	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
34	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
35	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 $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1.	1.6	14
36	Measurement of properties of $\{B\}_s^0$ decays and search for $B_0 \rightarrow \tau^+ \tau^-$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	1.6	41

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37	Search for a light pseudoscalar Higgs boson in the boosted $\hat{t}\hat{t}^*$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	23
38	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
39	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.	1.6	37
40	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
41	Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in pp Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	2.9	13
42	Observation of the $B \rightarrow X \tau \nu$ decay in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 152001.	2.9	14
43	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.	1.4	23
44	Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 102001.	2.9	9
45	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
46	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	0.5	84
47	Evidence for Top Quark Production in Nucleus-Nucleus Collisions. Physical Review Letters, 2020, 125, 222001.	2.9	7
48	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
49	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
50	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
51	Search for new neutral Higgs bosons through the $h \rightarrow Z \gamma$ process in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	27
52	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.	1.4	22
53	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
54	Determination of the strong coupling constant $\hat{\alpha}_S(m_Z)$ from measurements of inclusive $W\hat{\Delta}$ 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.	1.6	6

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55	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.	1.6	7
56	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
57	Evidence for $\text{ext}\{W\}\text{ext}\{W\}$ production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	1.4	10
58	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
59	Searches for physics beyond the standard model with the M_{T2} variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 3.	1.4	70
60	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	1.4	198
61	Constraints on the $\text{ext}\{W\}\text{ext}\{W\}$ production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	1.4	61
62	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\tau\tau$, and $e\tau$, in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	15
63	A search for the standard model Higgs boson decaying to charm quarks. Journal of High Energy Physics, 2020, 2020, 1.	1.6	20
64	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
65	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.	1.6	25
66	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	14
67	A multi-dimensional search for new heavy resonances decaying to boosted $\text{ext}\{W\}\text{ext}\{W\}$, $\text{ext}\{W\}\text{ext}\{Z\}$, or $\text{ext}\{Z\}\text{ext}\{Z\}$ boson pairs in the dijet final state at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 237.	1.4	31
68	Measurement of the top quark pair production cross section in dilepton final states containing one τ , lepton in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	2
69	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
70	Evolution of the CMS Global Submission Infrastructure for the HL-LHC Era. EPJ Web of Conferences, 2020, 245, 03016.	0.1	1
71	Exploiting network restricted compute resources with HTCondor: a CMS experiment experience. EPJ Web of Conferences, 2020, 245, 09007.	0.1	2
72	CMS strategy for HPC resource exploitation. EPJ Web of Conferences, 2020, 245, 09012.	0.1	5

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73	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 370.	1.4	22
74	Measurement of $\sigma_{\text{t}}/\sigma_{\text{pp}}$ 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
75	CMS data access and usage studies at PIC Tier-1 and CIEMAT Tier-2. EPJ Web of Conferences, 2020, 245, 04028.	0.1	0
76	Exploiting CRIC to streamline the configuration management of GlideinWMS factories for CMS support. EPJ Web of Conferences, 2020, 245, 03023.	0.1	0
77	Lightweight site federation for CMS support. EPJ Web of Conferences, 2020, 245, 03013.	0.1	1
78	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two \bar{l} , leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	33
79	Search for a $W\tilde{e}^2$ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state. Journal of High Energy Physics, 2019, 2019, 1.	1.6	5
80	Search for top quark partners with charge $5/3$ in the same-sign dilepton and single-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	13
81	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
82	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
83	Search for excited leptons in $\tilde{e}, \tilde{\mu}, \tilde{\tau}$ final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	3
84	Search for new particles decaying to a jet and an emerging jet. Journal of High Energy Physics, 2019, 2019, 1.	1.6	24
85	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
86	Measurement of exclusive $\gamma\gamma \rightarrow \rho^0 \gamma$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. European Physical Journal C, 2019, 79, 702.	1.4	33
87	Measurement of exclusive $\gamma\gamma \rightarrow \rho^0 \gamma$ photoproduction from protons in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. European Physical Journal C, 2019, 79, 277.	1.4	35
88	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 564.	1.4	50
89	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
90	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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91	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in \sqrt{s} collisions at $\sqrt{s}=13$, \sqrt{s} TeV. European Physical Journal C, 2019, Search for a Light Charged Higgs Boson Decaying to a W Boson and a C Boson and a P -Odd Higgs Boson in Final States with e bosons in the $H_{\pm} \rightarrow \tau, \tau, \tau/2$ decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.4	8
92	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13$, \sqrt{s} TeV. European Physical Journal C, 2019, 79, 305.	2.9	21
93	Search for the chiral magnetic effect at the LHC with the CMS experiment. Nuclear Physics A, 2019, 982, 527-530.	1.6	54
94	Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.4	4
95	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.	0.6	3
96	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 $\tilde{l},$ leptons. Journal of High Energy Physics, 2019, 2019, 1.	1.6	9
97	Search for the pair production of light top squarks in the $e\tilde{t}^*/4\tilde{t}^*$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	7
98	Search for the pair production of light top squarks in the $e\tilde{t}^*/4\tilde{t}^*$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	5
99	Measurement of associated production of a W boson and a charm quark in proton-proton collisions at $\sqrt{s} = 13$, \sqrt{s} TeV. European Physical Journal C, 2019, 79, 269.	1.4	35
100	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$, \sqrt{s} TeV. European Physical Journal C, 2019, 79, 421.	1.4	355
101	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} TeV. European Physical Journal C, 2019, 79, 444.	1.4	11
102	Measurements of the $pp \rightarrow WZ$ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.4	14
103	Measurement of the $\overline{t}t \hat{\rightarrow} t \hat{A}^-$ 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.	1.6	68
104	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s} = 13$, \sqrt{s} TeV. European Physical Journal C, 2019, 79, 1.	1.4	12
105	Search for nonresonant Higgs boson pair production in the $\overline{b}b\overline{b}b$ final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.4	11
106	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s}=13$, \sqrt{s} TeV. European Physical Journal C, 2019, 79, 280.	1.4	29
107	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.	1.4	13
108		1.6	13

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109	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$, $\sqrt{s} = 13$ Te. European Physical Journal C, 2019, 79, 364.	1.4	48
110	Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and $p\bar{p}$ Collisions at $\sqrt{s} = 2.76$ and $\sqrt{s} = 7.42$ TeV. Physical Review Letters, 2019, 122, 152001.	2.9	24
111	Search for $W \rightarrow \pi^+ \pi^- \pi^0$ Boson Decays to Three Charged Pions. Physical Review Letters, 2019, 122, 151802.	2.9	4
112	Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$, $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 90.	1.4	34
113	Study of the underlying event in top quark pair production in $p\bar{p}$ collisions at $\sqrt{s} = 13$ Te. European Physical Journal C, 2019, 79, 123.	1.4	11
114	Search for rare decays of Z and Higgs bosons to J/ψ and a photon in proton-proton collisions at $\sqrt{s} = 13$, $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 94.	1.4	20
115	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
116	Measurements of $\overline{\text{differential cross sections}}$ in proton-proton collisions at $\sqrt{s} = 13$ TeV using events containing two leptons. Journal of High Energy Physics, 2019, 2019, 1.	1.6	28
117	Search for $\overline{\text{production}}$ in the $\text{H} \rightarrow \text{b}\overline{\text{b}}$ decay channel with leptonic $\overline{\text{decays}}$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	28
118	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.	1.6	6
119	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.	1.6	14
120	Search for resonant $\overline{\text{production}}$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	23
121	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, 152001.	2.9	30
122	Observation of Two Excited B_c States and Measurement of the $B_c \rightarrow \text{B} \ell \nu$ Stretch. Physical Review Letters, 2019, 122, 152001.	2.9	62
123	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
124	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
125	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.	1.6	40
126	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s} = 13$, $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 20.	1.4	18

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127	Search for resonances decaying to a pair of Higgs bosons in the $b\bar{b}\gamma$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	10
128	Improving efficiency of analysis jobs in CMS. EPJ Web of Conferences, 2019, 214, 03006.	0.1	2
129	Exploring GlideinWMS and HTCondor scalability frontiers for an expanding CMS Global Pool. EPJ Web of Conferences, 2019, 214, 03002.	0.1	1
130	Improving the Scheduling Efficiency of a Global Multi-Core HTCondor Pool in CMS. EPJ Web of Conferences, 2019, 214, 03056.	0.1	1
131	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.	1.4	6
132	Producing Madgraph5_aMC@NLO gridpacks and using TensorFlow GPU resources in the CMS HTCondor Global Pool. EPJ Web of Conferences, 2019, 214, 03004.	0.1	0
133	Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	18
134	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	11
135	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s} = 13, 13.6$ TeV. European Physical Journal C, 2019, 79, 893.	1.4	12
136	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
137	Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s} = 13, 13.6$ TeV. European Physical Journal C, 2019, 79, 886.	1.4	16
138	Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $\sqrt{s} = 13, 13.6$ TeV. Physical Review Letters, 2019, 123, 231803.	2.9	23
139	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
140	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	28
141	Study of the $B_s \rightarrow \mu\mu$ decay in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	3
142	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s} = 7, 13, 13.6$ TeV. European Physical Journal C, 2018, 78, 242.	1.4	10
143	Measurement of the Splitting Function in pp and Pb-Pb Collisions at $\sqrt{s} = 2.76, 7, 13, 13.6$ TeV. Physical Review Letters, 2018, 120, 142302.	2.9	70
144	Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s_{NN}} = 5.02, 8.16$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	8

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145	Suppression of Excited Υ' States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. <i>Physical Review Letters</i> , 2018, 120, 142301.	2.9	38
146	Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\ell\ell$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	36
147	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 291.	1.4	27
148	Measurements of the $pp \rightarrow Z\gamma$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 165.	1.4	52
149	Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2018, 78, 287.	1.4	16
150	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. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	5
151	Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	0
152	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. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	6
153	Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	57
154	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	63
155	Measurement of differential cross sections in the kinematic angular variable $\tilde{\chi}_*^*$ for inclusive Z boson production in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	4
156	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	12
157	Measurement of normalized differential $t\bar{t}$ cross sections in the dilepton channel from pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	18
158	Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	17
159	Search for ZZ resonances in the $2\ell\ell$ final state in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	4
160	Search for $t\bar{t}H$ production in the all-jet final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	20
161	Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	9
162	Measurement of the groomed jet mass in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	12

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163	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
164	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.	1.6	19
165	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
166	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	12
167	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two $\bar{\nu}_\tau$ leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	34
168	Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	26
169	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.	1.6	13
170	Charged-particle nuclear modification factors in XeXe collisions at $\sqrt{s_{\mathrm{NN}}}=5.44$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
171	Measurement of the top quark mass with lepton+jets final states using $\mathcal{M}_{\mathrm{pT}}$ collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 891.	1.4	34
172	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
173	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
174	Event shape variables measured using multijet final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	4
175	Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 241802.	2.9	50
176	Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	23
177	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
178	Search for $Z\bar{1}^3$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
179	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
180	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	14

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181	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
182	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
183	Search for the decay of a Higgs boson in the $\tilde{a}, \tilde{a}, \tilde{a}^3$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
184	Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 221802.	2.9	14
185	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
186	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
187	Studies of $B \rightarrow K^* \mu^+ \mu^-$ (5840^0) and $B \rightarrow K^* \mu^+ \mu^-$ (5840^0) and $B \rightarrow K^* \mu^+ \mu^-$ (5840^0)		

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199	Search for dark matter produced in association with a Higgs boson decaying to $\hat{\nu}\hat{\nu}^3$ or $\tilde{l}, +\tilde{l}, \hat{\nu}$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	12
200	Search for additional neutral MSSM Higgs bosons in the \tilde{l}, \tilde{l} , final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	73
201	Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	11
202	Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	34
203	Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\overline{u}\overline{q}\overline{q}$ final state. Journal of High Energy Physics, 2018, 2018, 1.	1.6	10
204	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
205	Search for beyond the standard model Higgs bosons decaying into a $\overline{b}b$ pair in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	21
206	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $p\overline{p}$ collisions at 8 TeV. European Physical Journal C, 2018, 78, 701.	1.4	58
207	Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s}=5.02$ TeV collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 509.	1.4	83
208	Search for lepton flavour violating decays of the Higgs boson to $\hat{\nu}\tilde{l}$, and $e\tilde{l}$, in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	29
209	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying \tilde{l} , leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	38
210	Observation of Higgs Boson Decay to Bottom Quarks. Physical Review Letters, 2018, 121, 121801.	2.9	219
211	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
212	Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. Journal of High Energy Physics, 2018, 2018, 1.	1.6	29
213	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
214	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
215	Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	23
216	Search for a singly produced third-generation scalar leptoquark decaying to a \tilde{l} , lepton and a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	15

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217	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
218	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	62
219	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
220	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
221	Search for Narrow Resonances in the $b\bar{b}$ -Tagged Dijet Mass Spectrum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	2.9	36
222	Measurement of Prompt D^0 Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2018, 120, 202301.	2.9	70
223	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	42
224	Jet properties in PbPb and pp collisions at $\sqrt{s_{NN}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	13
225	Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	37
226	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 140.	1.4	44
227	Measurement of b hadron lifetimes in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2018, 78, 457.	1.4	15
228	Observation of $t\bar{t}H$ Production. Physical Review Letters, 2018, 120, 231801.	2.9	209
229	Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 120, 241801.	2.9	19
230	Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 120, 221801.	2.9	160
231	Measurements of the $\sigma(\text{pp} \rightarrow \text{Z} \rightarrow \text{e}^+\text{e}^-)$ production cross section and the $\text{BR}(\text{Z} \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	2.9	47
232	Measurements of the $\sigma(\text{pp} \rightarrow \text{Z} \rightarrow \text{e}^+\text{e}^-)$ production cross section and the $\text{BR}(\text{Z} \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.		3
233	Measurements of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}}\text{e}^+\text{e}^-)$ production cross section in lepton+jets final states in pp collisions at $\sqrt{s}=8$ TeV and ratio of 8 to 7 TeV cross sections. European Physical Journal C, 2017, 77, 15.	1.4	34
234	Measurement of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}}\text{e}^+\text{e}^-)$ production cross section using events in the e^+e^- final state in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 172.	1.4	40

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235	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. Journal of High Energy Physics, 2017, 2017, 1.	1.6	54
236	Search for electroweak production of charginos in final states with two \tilde{l} , leptons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	11
237	Measurement of the production cross section of a $W\tilde{A}$ boson in association with two b jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 92.	1.4	16
238	Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 236.	1.4	37
239	Measurement of prompt and nonprompt J/ψ production in pp and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.	1.4	53
240	A search for new phenomena in pp collisions at $\sqrt{s} = 13$ TeV in final states with missing transverse momentum and at least one jet using the α_T variable. European Physical Journal C, 2017, 77, 294.	1.4	29
241	Observation of Charge-Dependent Azimuthal Correlations in Pb-Pb Collisions and Its Implication for the Search for the Chiral Magnetic Effect. Physical Review Letters, 2017, 119, 152301.	2.9	62
242	Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2017, 119, 152301.	2.9	62
243	Search for new physics in the monophoton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	17
244	Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459.	1.4	52
245	Measurement of the jet mass in highly boosted $\overline{t}t$ events from pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 467.	1.4	23
246	Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 119, 111802.	2.9	35
247	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	103
248	Search for $t\overline{t}\tilde{A}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
249	Search for associated production of dark matter with a Higgs boson decaying to $b\overline{b}$ or $\tilde{\chi}^0_3$ at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
250	Observation of Top Quark Production in Proton-Nucleus Collisions. Physical Review Letters, 2017, 119, 242001.	2.9	23
251	Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	48
252	Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	35

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253	Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	13
254	Measurement of the semileptonic $t \bar{t} \rightarrow \tau^+ \tau^- + \bar{\nu}_\tau$ production cross section in pp collisions at $s = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	11
255	Measurements of the $pp \rightarrow t \bar{t} W^{\pm 3}$ and $pp \rightarrow t \bar{t} Z^{\pm 3}$ cross sections and limits on anomalous quartic gauge couplings at $s = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	10
256	Search for new phenomena with the M_{T2} variable in the all-hadronic final state produced in proton-proton collisions at $s = 13 \text{ TeV}$. European Physical Journal C, 2017, 77, 710.	1.4	98
257	Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $s = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
258	Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
259	Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
260	Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $s = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
261	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
262	Searches for pair production of third-generation squarks in $s = 13 \text{ TeV}$ pp collisions. European Physical Journal C, 2017, 77, 327.	1.4	32
263	Measurement of the top quark mass using single top quark events in proton-proton collisions at $s = 8 \text{ TeV}$. European Physical Journal C, 2017, 77, 354.	1.4	23
264	Searches for invisible decays of the Higgs boson in pp collisions at $s = 7, 8, \text{ and } 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	95
265	Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
266	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $s = 13 \text{ TeV}$. European Physical Journal C, 2017, 77, 845.	1.4	38
267	Measurement of electroweak-induced production of $W^{\pm 3}$ with two jets in pp collisions at $s = 8 \text{ TeV}$ and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2017, 2017, 1.	1.6	17
268	Searches for $W^{\pm 2}$ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV . Journal of High Energy Physics, 2017, 2017, 1.	1.6	8
269	Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	10
270	Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22

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271	Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	15
272	Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	27
273	Search for top squark pair production in pp collisions at $s = 13$ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	1.6	31
274	Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	15
275	Measurement of the $t\bar{t}\hat{A}^-$ production cross section using events with one lepton and at least one jet in pp collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	15
276	Search for a heavy resonance decaying to a top quark and a vector-like top quark at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	5
277	Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 578.	1.4	57
278	Search for top quark partners with charge $5/3$ in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	3
279	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	29
280	Measurements of jet charge with dijet events in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	17
281	Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	21
282	Search for new physics with dijet angular distributions in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	15
283	Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	62
284	Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	41
285	Search for new phenomena with multiple charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 1.	1.4	2
286	Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 636.	1.4	38
287	Search for high-mass $Z\hat{1}^3$ resonances in $e^+e^-\hat{1}^3$ and $\hat{1}^3/4 + \hat{1}^3/4$ final states in proton-proton collisions at $s = 8$ TeV and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	7
288	Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying $\hat{1}_l$, leptons and two jets in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22

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289	Search for CP violation in $t\bar{t}$ production and decay in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	4
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