

Badder Marzocchi

List of Publications by Year in descending order

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Version: 2024-02-01

260
papers

9,502
citations

44069

48
h-index

56724

83
g-index

265
all docs

265
docs citations

265
times ranked

8139
citing authors

#	ARTICLE	IF	CITATIONS
1	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
2	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
3	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} ext {V}. European Physical Journal C, 2022, 82, 153.	3.9	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.	4.7	1
5	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV}. European Physical Journal C, 2022, 82, 290.	3.9	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.	4.7	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, .	4.7	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.	4.7	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.	4.7	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.	4.7	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.	4.7	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.	4.7	5
13	Measurement of the inclusive $\overline{\text{t}}\text{t}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
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, .	4.7	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, .	4.7	4
16	Observation of $B^0 \rightarrow \text{supersymmetry}(2S)K^0_{\text{up}} + \text{up}^+ \text{up}^-$ and $B^0_{\text{up}} \rightarrow \text{supersymmetry}(2S)K^0_{\text{up}}$ decays. European Physical Journal C, 2022, 82, .	3.9	1
17	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} ext {V}. European Physical Journal C, 2021, 81, 13.	3.9	33
18	Search for top squark pair production using dilepton final states in $\text{pp} \rightarrow \text{pp}$ collision data collected at $\sqrt{s} = 13$, ext {TeV}. European Physical Journal C, 2021, 81, 3.	3.9	33

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19	Measurements of $\sigma(\text{pp} \rightarrow \text{ZZ})$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 200.	3.9	24
20	Development and validation of HERWIG tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	3.9	12
21	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 378.	3.9	40
22	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 488.	3.9	35
23	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
24	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 629.	3.9	18
25	Search for a heavy vector resonance decaying to a ZZ boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 688.	3.9	9
26	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 723.	3.9	19
27	Measurements of angular distance and momentum ratio distributions in three-jet and $\text{ZZ} + \text{two-jet}$ final states in pp collisions. European Physical Journal C, 2021, 81, 852.	3.9	2
28	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$ in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
29	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 970.	3.9	18
30	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
31	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of Instrumentation, 2020, 15, P02027-P02027.	1.2	27
32	Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13 \text{ TeV}$. Journal of Instrumentation, 2020, 15, P05002-P05002.	1.2	3
33	Study of central exclusive "Equation missing" production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV . European Physical Journal C, 2020, 80, 718.	3.9	7
34	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 $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2020, 80, 752.	3.9	23
35	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
36	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

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37	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
38	Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s}=13$, ext {TeV} TeV. European Physical Journal C, 2020, 80, 189.	3.9	22
39	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV, ext {TeV} TeV. European Physical Journal C, 2020, 80, 534.	3.9	14
40	Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at $\sqrt{s}=13$, ext {TeV} TeV. European Physical Journal C, 2020, 80, 43.	3.9	11
41	Evidence for W production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} TeV. European Physical Journal C, 2020, 80, 1.	3.9	10
42	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, ext {TeV} TeV. European Physical Journal C, 2020, 80, 75.	3.9	78
43	Searches for physics beyond the standard model with the M_{T2} variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13$, ext {TeV} TeV. European Physical Journal C, 2020, 80, 3.	3.9	70
44	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
45	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
46	A multi-dimensional search for new heavy resonances decaying to boosted W boson pairs, W boson pairs, W boson pairs, or Z boson pairs in the dijet final state at $\sqrt{s}=13$ TeV, ext {TeV} TeV. European Physical Journal C, 2020, 80, 237.	3.9	31
47	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8$, ext {TeV} TeV with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	3.9	5
48	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13$ TeV, ext {TeV} TeV. European Physical Journal C, 2020, 80, 370.	3.9	22
49	Measurement of t -channel normalised multi-differential cross sections in pp collisions at $\sqrt{s}=13$, ext {TeV} TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1.	3.9	33
50	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	17
51	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 $\sqrt{s} = 13$, ext {TeV} TeV. European Physical Journal C, 2019, 79, 1.	3.9	9
52	Simulation of the CMS electromagnetic calorimeter response at the energy and intensity frontier. Journal of Physics: Conference Series, 2019, 1162, 012007.	0.4	0
53	Measurement of exclusive ρ^0 photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02$, ext {TeV} TeV. European Physical Journal C, 2019, 79, 702.	3.9	33
54	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13$, ext {TeV} TeV. European Physical Journal C, 2019, 79, 564.	3.9	50

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55	Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13$, ext {TeV} $s = 13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.	3.9	40
56	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $\sqrt{s}=13$, ext {TeV} $s = 13$ TeV collisions at $\sqrt{s}=13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 773.	3.9	8
57	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 305.	3.9	4
58	Search for the pair production of light top squarks in the e^+e^- final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
59	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 421.	3.9	355
60	Search for supersymmetry in events with a photon, jets, \mathcal{B} -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 444.	3.9	11
61	Measurements of the $pp \rightarrow WZ$ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
62	Measurement of the $t\bar{t}$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368.	3.9	68
63	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	12
64	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s}=13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 280.	3.9	29
65	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 364.	3.9	48
66	Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 90.	3.9	34
67	Study of the underlying event in top quark pair production in pp collisions at $\sqrt{s}=13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 123.	3.9	11
68	Search for rare decays of Z and Higgs bosons to J/ψ and a photon in proton-proton collisions at $\sqrt{s}=13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 94.	3.9	20
69	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
70	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
71	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 20.	3.9	18
72	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

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73	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s}=13, \text{ext \{TeV\}}$. European Physical Journal C, 2019, 79, 893.	3.9	12
74	Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s} = 13, \text{ext \{TeV\}}$. European Physical Journal C, 2019, 79, 886.	3.9	16
75	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
76	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s}=7 \text{ TeV}$. European Physical Journal C, 2018, 78, 242.	3.9	10
77	Pseudorapidity distributions of charged hadrons in proton-lead collisions at $s_{NN}=5.02$ and 8.16 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	8
78	Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\gamma\gamma$ final state in proton-proton collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	36
79	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2018, 78, 291.	3.9	27
80	Measurements of the $\sigma(\text{pp} \rightarrow \text{ZZ})$ production cross section and the $\sigma(\text{pp} \rightarrow \text{Z}\gamma\gamma)$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	3.9	52
81	Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2018, 78, 287.	3.9	16
82	Measurement of the inclusive $\sigma(\text{pp} \rightarrow \text{Z}\ell\bar{\ell})$ cross section in pp collisions at $\sqrt{s}=5.02 \text{ TeV}$ using final states with at least one charged lepton. Journal of High Energy Physics, 2018, 2018, 1.	4.7	5
83	Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s}=8 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	0
84	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	5
85	Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	6
86	Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	57
87	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	63
88	Measurement of differential cross sections in the kinematic angular variable $\tilde{\chi}^*$ for inclusive Z boson production in pp collisions at $\sqrt{s}=8 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
89	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $s_{NN}=5.02 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
90	Measurement of normalized differential $\sigma(\text{pp} \rightarrow \text{Z}\ell\bar{\ell})$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18

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91	Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
92	Search for ZZ resonances in the $2\ell, 2\ell\gamma$ final state in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
93	Search for $\overline{t}tH$ production in the all-jet final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
94	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
95	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
96	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
97	Measurement of the top quark mass with lepton+jets final states using $pp \rightarrow p\bar{p} + \text{jet} + \text{jet} + \text{lepton} + \text{jet} + \text{jet}$ collisions at $\sqrt{s} = 13, \text{ext } \{TeV\}$. European Physical Journal C, 2018, 78, 891.	3.9	34
98	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	57
99	Search for Z^3 resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
100	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	14
101	Search for third-generation scalar leptoquarks decaying to a top quark and a τ, μ, e , lepton at $\sqrt{s} = 13, \text{ext } \{TeV\}$ $s = 13$ Te. European Physical Journal C, 2018, 78, 707.	3.9	46
102	Measurement of differential cross sections for $Z + Z$ boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{TeV\}$ $s = 13$ TeV. European Physical Journal C, 2018, 78, 965.	3.9	39
103	Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2\ell, 2q$ final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	8
104	Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{TeV\}$ $s = 13$ TeV. European Physical Journal C, 2018, 78, 697.	3.9	17
105	Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\gamma$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	9
106	Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s} = 13 \text{ to } 130 \text{ TeV}$ and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.	3.9	40
107	Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s} = 13 \text{ to } 130 \text{ TeV}$ $s = 13$ TeV. European Physical Journal C, 2018, 78, 1.	3.9	9
108	Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	25

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109	Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
110	Measurement of the $\sigma(\mathrm{Z}/\gamma^* \rightarrow \mu\mu)$ cross section in pp collisions at $\sqrt{s} = 13$ TeV and validation of $\sigma(\mathrm{Z}/\gamma^* \rightarrow \mu\mu)$. European Physical Journal C, 2018, 78, 708.	3.9	10
111	Search for dark matter produced in association with a Higgs boson decaying to $\tilde{\chi}^0_1$ or $\tilde{\chi}^{\pm}_1$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
112	Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
113	Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\bar{u} \rightarrow \mathrm{q}\bar{\mathrm{q}}$ final state. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
114	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $\mathrm{p}\bar{\mathrm{p}} \rightarrow \mathrm{p}\bar{\mathrm{p}}$ collisions at 8 TeV. European Physical Journal C, 2018, 78, 701.	3.9	58
115	Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s}=5.02$ TeV PbPb collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 509.	3.9	83
116	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying l , leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
117	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
118	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
119	Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
120	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
121	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	86
122	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	42
123	Jet properties in PbPb and pp collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
124	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 140.	3.9	44
125	Measurements of the $\sigma(\mathrm{p}\bar{\mathrm{p}} \rightarrow \mathrm{Z}\mathrm{Z})$ production cross section and the $\sigma(\mathrm{Z} \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at $(\sqrt{s} = 13, \text{TeV})$. , 2018, 78, 1.		3
126	Measurements of the $\sigma(\mathrm{t}\bar{\mathrm{t}} \rightarrow \mathrm{t}\bar{\mathrm{t}}\gamma)$ production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections. European Physical Journal C, 2017, 77, 15.	3.9	34

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127	Measurement of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}})$ production cross section using events in the $\text{e}\mu$ final state in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 172.	3.9	40
128	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.	4.7	54
129	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.	4.7	11
130	Measurement of the production cross section of a $W\hat{A}$ boson in association with two b jets in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 92.	3.9	16
131	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.	3.9	37
132	Measurement of prompt and nonprompt J/ψ production in pp and pPb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. European Physical Journal C, 2017, 77, 269.	3.9	53
133	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.	3.9	29
134	Search for new physics in the monophoton final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
135	Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s}=8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459.	3.9	52
136	Measurement of the jet mass in highly boosted $\text{t}\bar{\text{t}}$ events from pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 467.	3.9	23
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138	Search for $\text{t}\bar{\text{t}}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
139	Search for associated production of dark matter with a Higgs boson decaying to $b\bar{b}$ or $\tau^+\tau^-$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
140	Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	48
141	Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	35
142	Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	13
143	Measurement of the semileptonic $\text{t}\bar{\text{t}}$ production cross section in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	11
144	Measurements of the $\text{pp} \rightarrow \text{t}\bar{\text{t}}\hat{A}$ and $\text{pp} \rightarrow \text{t}\bar{\text{t}}\hat{Z}$ cross sections and limits on anomalous quartic gauge couplings at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10

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147	Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
148	Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
149	Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
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153	Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8,$ and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	95
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157	Searches for Wt^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.	4.7	8
158	Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
159	Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
160	Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
161	Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	27
162	Search for top squark pair production in pp collisions at $\sqrt{s} = 13$ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31

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164	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 $s = 13 \sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
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168	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	29
169	Measurements of jet charge with dijet events in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
170	Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	21
171	Search for new physics with dijet angular distributions in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
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182	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	101
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196	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
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205	Search for new physics with the M_{T2} variable in all-jets final states produced in pp collisions at $s = 13 \sqrt{s}=13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	17
206	Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
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221	Measurement of the $\overline{\text{t}} \text{t} \hat{A}^-$ production cross section in the all-jets final state in pp collisions at $\sqrt{s}=8 \text{ TeV}$. European Physical Journal C, 2016, 76, 128.	3.9	41
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259	Measurement of the $\sigma(\overline{t}t)$ production cross section in the dilepton channel in pp collisions at $(\sqrt{s}) = 8$ TeV. , 2014, 2014, 1.		3
260	Search for the associated production of the Higgs boson with a top-quark pair. , 2014, 2014, 1.		6