

# Emilio Meschi

## List of Publications by Year in descending order

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Version: 2024-02-01

536  
papers

24,378  
citations

8755

75  
h-index

13771

129  
g-index

548  
all docs

548  
docs citations

548  
times ranked

10066  
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 $\sqrt{s} = 13$ TeV. 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 $\sqrt{s} = 13$ 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, 1.	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 $\overline{t}t$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
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.	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, 1.	4.7	4
16	Observation of $B^0 \rightarrow \psi(2S) K^0_{\text{S}} \mu^+ \mu^-$ and $B^0_{\text{S}} \rightarrow \psi(2S) K^0_{\text{S}} \mu^+ \mu^-$ decays. European Physical Journal C, 2022, 82, 1.	3.9	1
17	Search for the lepton flavor violating decay $\tilde{L} \rightarrow \ell \tau^3/4$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	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.	3.9	33

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19	Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1.	4.7	54
20	The Phase-2 Upgrade of the CMS Data Acquisition. EPJ Web of Conferences, 2021, 251, 04023.	0.3	5
21	Search for top squark pair production using dilepton final states in $\text{pp}$ collision data collected at $\sqrt{s}=13\text{ TeV}$ . European Physical Journal C, 2021, 81, 3.	3.9	33
22	Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$ . Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
23	Measurements of $\text{pp} \rightarrow \text{ZZ}$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13\text{ TeV}$ . European Physical Journal C, 2021, 81, 200.	3.9	24
24	Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at $\sqrt{s} = 13\text{ TeV}$ . Journal of High Energy Physics, 2021, 2021, 1.	4.7	15
25	Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$ . Journal of High Energy Physics, 2021, 2021, 1.	4.7	26
26	Search for new physics in top quark production with additional leptons in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$ using effective field theory. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
27	Measurement of differential cross sections for Z bosons produced in association with charm jets in pp collisions at $\sqrt{s} = 13\text{ TeV}$ . Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
28	Construction and commissioning of CMS CE prototype silicon modules. Journal of Instrumentation, 2021, 16, T04002.	1.2	10
29	Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$ . Journal of High Energy Physics, 2021, 2021, 1.	4.7	28
30	Development and validation of HERWIG <sup>7</sup> tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	3.9	12
31	The DAQ system of the 12,000 channel CMS high granularity calorimeter prototype. Journal of Instrumentation, 2021, 16, T04001.	1.2	7
32	Angular analysis of the decay $B^+ \rightarrow K^+ \pi^+ \pi^-$ in proton-proton collisions at $\sqrt{s} = 8\text{ TeV}$ . Journal of High Energy Physics, 2021, 2021, 1.	4.7	9
33	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13\text{ TeV}$ . European Physical Journal C, 2021, 81, 378.	3.9	40
34	Measurement of b jet shapes in proton-proton collisions at $\sqrt{s} = 5.02\text{ TeV}$ . Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
35	First measurement of large area jet transverse momentum spectra in heavy-ion collisions. Journal of High Energy Physics, 2021, 2021, 1.	4.7	11
36	Study of Drell-Yan dimuon production in proton-lead collisions at $\sqrt{s_{\text{NN}}} = 8.16\text{ TeV}$ . Journal of High Energy Physics, 2021, 2021, 1.	4.7	3

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37	Measurements of the differential cross sections of the production of $Z + \text{jets}$ and $\hat{t} + \text{jets}$ and of $Z$ boson emission collinear with a jet in $pp$ collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	2
38	Measurement of the $Z$ boson differential production cross section using its invisible decay mode ( $Z \rightarrow \nu\bar{\nu}$ ) in $pp$ collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	2
39	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
40	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
41	Search for resonant and nonresonant new phenomena in high-mass dilepton final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	62
42	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
43	Search for a heavy vector resonance decaying to a $Z$ boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 688.	3.9	9
44	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
45	Measurements of angular distance and momentum ratio distributions in three-jet and $Z + \text{two-jet}$ final states in $pp$ collisions. European Physical Journal C, 2021, 81, 852.	3.9	2
46	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
47	Search for chargino-neutralino production in events with Higgs and $W$ bosons using $137 \text{ fb}^{-1}$ of proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
48	Measurements of the $pp \rightarrow W \hat{t} + \text{jets}$ and $pp \rightarrow Z \hat{t} + \text{jets}$ cross sections at $\sqrt{s} = 13$ TeV and limits on anomalous quartic gauge couplings. Journal of High Energy Physics, 2021, 2021, 1.	4.7	7
49	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
50	Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the $\tau\tau, \tau b, b\bar{b}$ final state at 13 TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	11
51	Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	36
52	Observation of $tW$ production in the single-lepton channel in $pp$ collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	2
53	Measurement of prompt open-charm production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	2
54	Measurement of the inclusive and differential $t\bar{t}$ cross sections in the single-lepton channel and EFT interpretation at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3

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55	Measurement of the top quark mass using events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
56	Probing effective field theory operators in the associated production of top quarks with a Z boson in multilepton final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
57	Search for a heavy resonance decaying to a top quark and a W boson at $\sqrt{s} = 13$ TeV in the fully hadronic final state. Journal of High Energy Physics, 2021, 2021, 1.	4.7	1
58	Investigation into the event-activity dependence of $\tilde{\Gamma}(nS)$ relative production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
59	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
60	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
61	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
62	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
63	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
64	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
65	Search for decays of the 125 GeV Higgs boson into a Z boson and a $\tilde{\nu}$ or $\tilde{\nu}^*$ meson. Journal of High Energy Physics, 2020, 2020, 1.	4.7	6
66	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
67	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
68	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
69	Search for direct pair production of supersymmetric partners to the $\tau^{\pm}$ lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 189.	3.9	22
70	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
71	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
72	Evidence for $W^+W^-$ production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	3.9	10

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73	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
74	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
75	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
76	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
77	A multi-dimensional search for new heavy resonances decaying to boosted $W$ , $WZ$ , or $ZZ$ boson pairs in the dijet final state at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 237.	3.9	31
78	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
79	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
80	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
81	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
82	Measurement of normalised multi-differential cross sections in $pp$ collisions at $\sqrt{s}=13$ TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1.	3.9	33
83	DAQExpert the service to increase CMS data-taking efficiency. EPJ Web of Conferences, 2020, 245, 01028.	0.3	1
84	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
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.	3.9	9
86	Measurement of exclusive $\rho^0$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 702.	3.9	33
87	Measurement of exclusive $\Upsilon$ photoproduction from protons in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 277.	3.9	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.	3.9	50
89	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
90	A Scalable Online Monitoring System Based on Elasticsearch for Distributed Data Acquisition in Cms. EPJ Web of Conferences, 2019, 214, 01048.	0.3	1

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91	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $\{p\}\{p\}$ collisions at $\sqrt{s}=13,\text{TeV}$ . European Physical Journal C, 2019, 79, 773.	3.9	8
92	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13,\text{TeV}$ $s = 13\text{ TeV}$ . European Physical Journal C, 2019, 79, 305.	3.9	4
93	Search for the pair production of light top squarks in the $e^{\pm}\mu^{\pm}$ final state in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
94	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13,\text{TeV}$ . European Physical Journal C, 2019, 79, 421.	3.9	355
95	Search for supersymmetry in events with a photon, jets, $\mathcal{E}_{\text{miss}}$ -jets, and missing transverse momentum in proton-proton collisions at $13,\text{TeV}$ . European Physical Journal C, 2019, 79, 444.	3.9	11
96	Measurements of the $pp \rightarrow WZ$ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s} = 13\text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
97	Measurement of the $\sigma(\text{pp} \rightarrow t\bar{t})$ 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
98	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s} = 13,\text{TeV}$ . European Physical Journal C, 2019, 79, 1.	3.9	12
99	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s}=13,\text{TeV}$ $s = 13\text{ Te}$ . European Physical Journal C, 2019, 79, 280.	3.9	29
100	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13,\text{TeV}$ $s = 13\text{ Te}$ . European Physical Journal C, 2019, 79, 364.	3.9	48
101	Search for single production of vector-like quarks decaying to a top quark and a $W$ boson in proton-proton collisions at $\sqrt{s} = 13,\text{TeV}$ $s = 13\text{ TeV}$ . European Physical Journal C, 2019, 79, 90.	3.9	34
102	Study of the underlying event in top quark pair production in $pp$ collisions at $13\text{ Te}$ . European Physical Journal C, 2019, 79, 123.	3.9	11
103	Search for rare decays of $Z$ and Higgs bosons to $J/\psi$ and a photon in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ . European Physical Journal C, 2019, 79, 94.	3.9	20
104	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 $\sqrt{s}=13\text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
105	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 $13\text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	12
106	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s} = 13,\text{TeV}$ $s = 13\text{ TeV}$ . European Physical Journal C, 2019, 79, 20.	3.9	18
107	The CMS Event-Builder System for LHC Run 3 (2021-23). EPJ Web of Conferences, 2019, 214, 01006.	0.3	0
108	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in $pp$ collisions at $\sqrt{s} = 8,\text{TeV}$ . European Physical Journal C, 2019, 79, 969.	3.9	6

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109	Operational experience with the new CMS DAQ-Expert. EPJ Web of Conferences, 2019, 214, 01015.	0.3	1
110	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
111	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV}. European Physical Journal C, 2019, 79, 893.	3.9	12
112	Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV}. European Physical Journal C, 2019, 79, 886.	3.9	16
113	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
114	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s} = 7$ , ext {TeV}. European Physical Journal C, 2018, 78, 242.	3.9	10
115	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV} TeV. European Physical Journal C, 2018, 78, 291.	3.9	27
116	Measurements of the $\sigma(\text{pp} \rightarrow \text{ZZ})$ production cross section and the $\text{BR}(Z \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	3.9	52
117	Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s} = 8$ , ext {TeV} TeV. European Physical Journal C, 2018, 78, 287.	3.9	16
118	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13$ , $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	5
119	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
120	Search for $\text{t}\bar{\text{t}}\text{H}$ production in the all-jet final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
121	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
122	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
123	Measurement of the top quark mass with lepton+jets final states using $\text{pp} \rightarrow \text{t}\bar{\text{t}}\text{H}$ collisions at $\sqrt{s} = 13$ , ext {TeV}. European Physical Journal C, 2018, 78, 891.	3.9	34
124	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
125	Search for $Z\tilde{1}^3$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
126	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



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127	DAQExpert - An expert system to increase CMS data-taking efficiency. Journal of Physics: Conference Series, 2018, 1085, 032021.	0.4	0
128	Search for third-generation scalar leptoquarks decaying to a top quark and a $\tau$ lepton at $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$ $s = 13$ Te. European Physical Journal C, 2018, 78, 707.	3.9	46
129	Measurement of differential cross sections for $Z$ boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{ \text{TeV} \}$ $s = 13$ TeV. European Physical Journal C, 2018, 78, 965.	3.9	39
130	Studies of $B^0 \rightarrow B^0 + \tau^+ \tau^-$ (5840) and $B^0 \rightarrow B^0 + \tau^+ \tau^-$ (5840) 0 and $B^0 \rightarrow B^0 + \tau^+ \tau^-$		

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145	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
146	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
147	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
148	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
149	Measurements of the $(\mathrm{p})\mathrm{p}\rightarrow\mathrm{Z}\mathrm{Z}$ production cross section and the $(\mathrm{Z})\rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $(\sqrt{s}=13,\mathrm{TeV})$ . , 2018, 78, 1.		3
150	Measurements of the $\overline{\mathrm{t}}\mathrm{t}\hat{\mathrm{A}}$ production cross section in lepton+jets final states in pp collisions at $8\sqrt{s},\mathrm{TeV}$ and ratio of $8$ to $7\sqrt{s},\mathrm{TeV}$ cross sections. European Physical Journal C, 2017, 77, 15.	3.9	34
151	Measurement of the $\overline{\mathrm{t}}\mathrm{t}\hat{\mathrm{A}}$ production cross section using events in the $e\mu$ final state in pp collisions at $\sqrt{s}=13,\mathrm{TeV}$ . European Physical Journal C, 2017, 77, 172.	3.9	40
152	Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $s=8\sqrt{s}=8\sqrt{s},\mathrm{TeV}$ and cross section ratios to $2.76$ and $7\sqrt{s},\mathrm{TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	54
153	Measurement of the production cross section of a $W\hat{\mathrm{A}}\mathrm{b}$ boson in association with two b jets in pp collisions at $\sqrt{s}=8,\mathrm{TeV}$ . European Physical Journal C, 2017, 77, 92.	3.9	16
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488	Search for new gauge bosons decaying into dielectrons in $p\bar{p}$ collisions at $\hat{s}=1.8$ TeV. Physical Review D, 1995, 51, R949-R953.	4.7	30
489	Measurement of the Polarization in the Decays $B \rightarrow J/\psi K^0$ and $B \rightarrow J/\psi \eta$ . Physical Review Letters, 1995, 75, 3068-3072.	7.8	23
490	Search for Charged Bosons Heavier than the W Boson in $p\bar{p}$ Collisions at $\sqrt{s}=1800$ GeV. Physical Review Letters, 1995, 74, 2900-2904.	7.8	45
491	Measurement of the B Meson Differential Cross Section $d\Gamma/dp_T$ in $p\bar{p}$ Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1995, 75, 1451-1455.	7.8	123
492	Observation of Rapidity Gaps in $p\bar{p}$ Collisions at 1.8 TeV. Physical Review Letters, 1995, 74, 855-859.	7.8	71
493	Search for Second Generation Leptoquarks in $p\bar{p}$ Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1995, 75, 1012-1016.	7.8	22
494	Measurement of W-Photon Couplings in $p\bar{p}$ Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1995, 74, 1936-1940.	7.8	63
495	Kinematic evidence for top quark pair production in $W$ +multijet events in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review D, 1995, 51, 4623-4637.	4.7	30
496	Study of $t\bar{t}$ Production in $p\bar{p}$ Collisions Using Total Transverse Energy. Physical Review Letters, 1995, 75, 3997-4002.	7.8	19
497	Measurement of the W Boson Mass. Physical Review Letters, 1995, 75, 11-16.	7.8	79
498	Charge Asymmetry in W-Boson Decays Produced in $p\bar{p}$ Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1995, 74, 850-854.	7.8	61
499	Search for Squarks and Gluinos via Radiative Decays of Neutralinos in Proton-Antiproton Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1995, 75, 613-617.	7.8	9
500	Limits on $WWZ$ and $WW\tilde{\chi}^0$ Couplings from $WW$ and $WZ$ Production in $p\bar{p}$ Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1995, 75, 1017-1022.	7.8	53
501	Direct Measurement of the W Boson Width. Physical Review Letters, 1995, 74, 341-345.	7.8	24
502	Observation of Top Quark Production in $p\bar{p}$ Collisions with the Collider Detector at Fermilab. Physical Review Letters, 1995, 74, 2626-2631.	7.8	1,240
503	Measurement of the W boson mass. Physical Review D, 1995, 52, 4784-4827.	4.7	93
504	Measurement of the B <sup>+</sup> and B <sup>0</sup> meson lifetimes. Physical Review Letters, 1994, 72, 3456-3460.	7.8	25

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505	Measurement of $p\bar{A}^-$ single diffraction dissociation at $\hat{s}=546$ and 1800 GeV. Physical Review D, 1994, 50, 5535-5549.	4.7	105
506	Evidence for top quark production in $p\bar{A}^-$ collisions at $\hat{s}=1.8$ TeV. Physical Review D, 1994, 50, 2966-3026.	4.7	400
507	Measurement of small angle antiproton-proton elastic scattering at $\hat{s}=546$ and 1800 GeV. Physical Review D, 1994, 50, 5518-5534.	4.7	139
508	Measurement of the Ratio $\frac{\sigma(B\to e^+\nu_e)}{\sigma(B\to Z\tau^+\nu_\tau)}$ in $p\bar{A}^-$ Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1994, 73, 220-224.	7.8	30
509	Search for excited quarks in $p\bar{A}^-$ collisions at $\hat{s}=1.8$ TeV. Physical Review Letters, 1994, 72, 3004-3008.	7.8	30
510	Search for the Top Quark Decaying to a Charged Higgs Boson in $p\bar{A}^-$ Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1994, 73, 2667-2671.	7.8	16
511	Evidence for top quark production in $p\bar{A}^-$ collisions at $\hat{s}=1.8$ TeV. Physical Review Letters, 1994, 73, 225-231.	7.8	363
512	W Boson + Jet Angular Distribution in $p\bar{A}^-$ Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1994, 73, 2296-2300.	7.8	5
513	Search for the top quark decaying to a charged Higgs boson in $p\bar{A}^-$ collisions at $\hat{s}=1.8$ TeV. Physical Review Letters, 1994, 72, 1977-1981.	7.8	17
514	Measurement of Drell-Yan electron and muon pair differential cross sections in $p\bar{A}^-$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review D, 1994, 49, R1-R6.	4.7	27
515	Evidence for color coherence in $p\bar{A}^-$ collisions at $\hat{s}=1.8$ TeV. Physical Review D, 1994, 50, 5562-5579.	4.7	53
516	Measurement of the B meson and b quark cross sections at $\hat{s}=1.8$ TeV using the exclusive decay $B\to J/\psi K^*(892)^0$ . Physical Review D, 1994, 50, 4252-4257.	4.7	25
517	Precision Measurement of the Prompt Photon Cross Section in $p\bar{A}^-$ Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1994, 73, 2662-2666.	7.8	107
518	Measurement of the antiproton-proton total cross section at $\hat{s}=546$ and 1800 GeV. Physical Review D, 1994, 50, 5550-5561.	4.7	178
519	Comparison of jet production in $p\bar{A}^-$ collisions at $\hat{s}=546$ and 1800 GeV. Physical Review Letters, 1993, 70, 1376-1380.	7.8	47
520	Measurement of jet multiplicity in W events produced in $p\bar{A}^-$ collisions at $\hat{s}=1.8$ TeV. Physical Review Letters, 1993, 70, 4042-4046.	7.8	17
521	Search for first-generation leptoquarks in $p\bar{A}^-$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review D, 1993, 48, R3939-R3944.	4.7	31
522	Search for quark compositeness, axigluons, and heavy particles using the dijet invariant mass spectrum observed in $p\bar{A}^-$ collisions. Physical Review Letters, 1993, 71, 2542-2546.	7.8	29

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523	Inclusive $c$ and $b$ -quark production in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1993, 71, 2537-2541.	7.8	92
524	Prompt photon cross section measurement in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review D, 1993, 48, 2998-3025.	4.7	63
525	Measurement of bottom quark production in 1.8 TeV $p\bar{p}$ collisions using muons from $b$ -quark decays. Physical Review Letters, 1993, 71, 2396-2400.	7.8	66
526	Measurement of the cross section for production of two isolated prompt photons in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1993, 70, 2232-2236.	7.8	31
527	Search for $\tilde{b}\tilde{t}^*$ in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review D, 1993, 47, R2639-R2643.	4.7	14
528	Study of four-jet events and evidence for double parton interactions in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review D, 1993, 47, 4857-4871.	4.7	169
529	Measurement of the dijet mass distribution in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review D, 1993, 48, 998-1008.	4.7	15
530	Center-of-mass angular distribution of prompt photons produced in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1993, 71, 679-683.	7.8	7
531	Measurement of the average lifetime of $B$ hadrons produced in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1993, 71, 3421-3426.	7.8	34
532	Observation of the decay $B_s \rightarrow J/\psi \ell^+ \ell^-$ in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1993, 71, 1685-1689.	7.8	21
533	Search for squarks and gluinos from $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1992, 69, 3439-3443.	7.8	149
534	Inclusive $J/\psi$ , $\psi(2S)$ , and $b$ -quark production in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1992, 69, 3704-3708.	7.8	243
535	A large associative memory system for the CDF level 2 trigger. , 0, , .		7
536	A prototype of programmable associative memory for track finding. , 0, , .		3