

# Emilio Meschi

## List of Publications by Citations

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523  
papers

17,933  
citations

64  
h-index

111  
g-index

548  
ext. papers

20,070  
ext. citations

4.6  
avg, IF

2.15  
L-index

#	Paper	IF	Citations
523	Observation of Top Quark Production in p-barp Collisions with the Collider Detector at Fermilab. <i>Physical Review Letters</i> , <b>1995</b> , 74, 2626-2631	7.4	1067
522	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 [Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 212	4.2	399
521	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. <i>Journal of High Energy Physics</i> , <b>2010</b> , 2010, 1	5.4	389
520	Evidence for top quark production in p-barp collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review D</i> , <b>1994</b> , 50, 2966-3026	4.9	384
519	Evidence for top quark production in p-barp collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , <b>1994</b> , 73, 225-231	7.4	338
518	Study of high-p T charged particle suppression in PbPb compared to pp collisions at ( $\sqrt{s_{\text{NN}}} = 2.76 \text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	316
517	Observation of a new boson with mass near 125 GeV in pp collisions at ( $\sqrt{s} = 7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	261
516	Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 235	4.2	250
515	Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , <b>2016</b> , 76, 155	4.2	250
514	Observation of the diphoton decay of the Higgs boson and measurement of its properties. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3076	4.2	239
513	First look at the physics case of TLEP. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	233
512	Inclusive J/psi, psi(2S), and b-quark production in p-barp collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , <b>1992</b> , 69, 3704-3708	7.4	230
511	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at ( $\sqrt{s} = 0.9$ ) and 2.36 TeV. <i>Journal of High Energy Physics</i> , <b>2010</b> , 2010, 1	5.4	201
510	Suppression of non-prompt J/psi and ( $\Upsilon$ )(1S) in PbPb collisions at ( $\sqrt{s_{\text{NN}}} = 2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	184
509	Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3036	4.2	183
508	Measurement of the antiproton-proton total cross section at $\sqrt{s} = 546$ and 1800 GeV. <i>Physical Review D</i> , <b>1994</b> , 50, 5550-5561	4.9	164
507	Search for top-squark pair production in the single-lepton final state in pp collisions at ( $\sqrt{s} = 8 \text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	162

506	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at ( $\sqrt{s_{NN}} = 2.76$ mbox{TeV}). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	158
505	Search for dark matter and large extra dimensions in monojet events in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	155
504	Combined measurements of Higgs boson couplings in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 421	4.2	153
503	Search for heavy neutrinos and [Formula: see text] bosons with right-handed couplings in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3149	4.2	149
502	Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	144
501	Study of the inclusive production of charged pions, kaons, and protons in pp collisions at ( $\sqrt{s} = 0.9, 2.76$ , mbox{ and }7~mbox{TeV}). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	133
500	Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2980	4.2	131
499	Study of four-jet events and evidence for double parton interactions in pp-bar collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review D</i> , <b>1993</b> , 47, 4857-4871	4.9	131
498	Measurement of small angle antiproton-proton elastic scattering at $\sqrt{s} = 546$ and 1800 GeV. <i>Physical Review D</i> , <b>1994</b> , 50, 5518-5534	4.9	124
497	Measurement of the inclusive W and Z production cross sections in pp collisions at ( $\sqrt{s} = 7$ ) TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	121
496	Prompt and non-prompt J/ $\Upsilon$ production in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	118
495	Search for squarks and gluinos from p-barp collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , <b>1992</b> , 69, 3439-3443	7.4	117
494	Measurement of the B Meson Differential Cross Section $d\sigma/dp_T$ in pp-bar Collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , <b>1995</b> , 75, 1451-1455	7.4	116
493	The CDF Silicon Vertex Trigger. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2004</b> , 518, 532-536	1.2	113
492	A search for a doubly-charged Higgs boson in pp collisions at ( $\sqrt{s} = 7$ mbox{TeV}). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	111
491	Measurements of inclusive W and Z cross sections in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	104
490	Measurement of differential top-quark-pair production cross sections in pp collisions at ( $\sqrt{s} = 7$ mathrm{TeV}). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	102
489	Evidence for the 125 GeV Higgs boson decaying to a pair of $\Upsilon$ leptons. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	101

488	Search for a light charged Higgs boson in top quark decays in pp collisions at ( $\sqrt{s} = 7$ ;TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	101
487	CMS tracking performance results from early LHC operation. <i>European Physical Journal C</i> , <b>2010</b> , 70, 1165-1192	4.2	99
486	Measurement of the differential cross section for top quark pair production in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 542	4.2	98
485	Searches for long-lived charged particles in pp collisions at ( $\sqrt{s}$ ) =7 and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	96
484	Measurement of p-barp single diffraction dissociation at $\sqrt{s} = 546$ and 1800 GeV. <i>Physical Review D</i> , <b>1994</b> , 50, 5535-5549	4.9	96
483	Search for supersymmetry in hadronic final states using M T2 in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	92
482	Precision measurement of the prompt photon cross section in pp-bar collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , <b>1994</b> , 73, 2662-2666	7.4	91
481	Charged particle multiplicities in pp interactions at ( $\sqrt{s} = 0.9$ ), 2.36, and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	89
480	Measurement of the W boson mass. <i>Physical Review D</i> , <b>1995</b> , 52, 4784-4827	4.9	89
479	Inclusive $\chi_c$ and b-quark production in p-barp collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , <b>1993</b> , 71, 2537-2541	7.4	89
478	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at ( $\sqrt{s_{NN}} = 2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	87
477	Search for supersymmetry in hadronic final states with missing transverse energy using the variables and b-quark multiplicity in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2568	4.2	82
476	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	81
475	Strange particle production in pp collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	78
474	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	77
473	Upsilon production in pp-bar collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1995</b> , 75, 4358-4363	7.4	77
472	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	74
471	Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	73

470	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at ( $\sqrt{s_{\mathrm{NN}}}$ ) = 2.76 ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	73
469	Measurement of the W boson mass. <i>Physical Review Letters</i> , <b>1995</b> , 75, 11-16	7-4	73
468	Study of the production of charged pions, kaons, and protons in pPb collisions at [Formula: see text]5.02[Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2847	4-2	71
467	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5-4	70
466	Measurement of the single-top-quark t-channel cross section in pp collisions at ( $\sqrt{s}$ )=7 ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	70
465	Measurement of the underlying event activity at the LHC with ( $\sqrt{s}$ ) = 7 ) TeV and comparison with ( $\sqrt{s}$ ) = 0.9 ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5-4	70
464	Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at ( $\sqrt{s}$ )=8 ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5-4	69
463	J/ψ and ϒ(S) production in pp collisions at ( $\sqrt{s}$ ) = 7{text{TeV}} ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	69
462	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at ( $\sqrt{s_{\mathrm{NN}}}$ ) = 5.02 ) (,text {TeV}). <i>European Physical Journal C</i> , <b>2014</b> , 74, 1	4-2	67
461	Search for anomalous production of multilepton events in pp collisions at ( $\sqrt{s}$ ) = 7,TeV ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	65
460	Measurement of bottom quark production in 1.8 TeV pp-bar collisions using muons from b-quark decays. <i>Physical Review Letters</i> , <b>1993</b> , 71, 2396-2400	7-4	65
459	Charged-particle nuclear modification factors in PbPb and pPb collisions at ( $\sqrt{s_{\mathrm{N};\mathrm{N}}}$ )=5.02 ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	64
458	Measurement of the ( $\overline{\mathrm{t}}\mathrm{t}$ ) production cross section in the dilepton channel in pp collisions at ( $\sqrt{s}$ )=7 ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	64
457	Observation of rapidity gaps in p-barp collisions at 1.8 TeV. <i>Physical Review Letters</i> , <b>1995</b> , 74, 855-859	7-4	64
456	Search for high-mass resonances in dilepton final states in proton-proton collisions at ( $\sqrt{s}$ )=13 ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	63
455	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. <i>European Physical Journal C</i> , <b>2020</b> , 80, 4	4-2	61
454	Study of double parton scattering using W + 2-jet events in proton-proton collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5-4	61
453	Search for a charged Higgs boson in pp collisions at ( $\sqrt{s}$ )=8 ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5-4	61

452	Prompt photon cross section measurement in p-p collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , <b>1993</b> , 48, 2998-3025	4.9	61
451	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at ( $\sqrt{s_{NN}}$ ) = 2.76 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	60
450	Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	59
449	Measurement of $\sigma_B(W \rightarrow e \nu)$ and $\sigma_B(Z^0 \rightarrow e^+e^-)$ in p-p collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1996</b> , 76, 3070-3075	7.4	59
448	Suppression and azimuthal anisotropy of prompt and nonprompt [Formula: see text] production in PbPb collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2017</b> , 77, 252	4.2	58
447	Search for anomalous ( $\tau$ ) production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	57
446	Measurement of W-photon couplings in p-p collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1995</b> , 74, 1936-1940	7.4	57
445	Study of exclusive two-photon production of $W+W$ in pp collisions at ( $\sqrt{s}=7$ ) TeV and constraints on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	56
444	Measurement of the $W+W$ cross section in pp collisions at ( $\sqrt{s} = 7$ TeV) and limits on anomalous $WW$ and $WWZ$ couplings. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	56
443	Long-range and short-range dihadron angular correlations in central PbPb collisions at ( $\sqrt{s_{NN}}$ ) = 2.76 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	56
442	Search for new particles decaying to dijets in p-p collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1995</b> , 74, 3538-3543	7.4	56
441	Charge asymmetry in W-boson decays produced in p-p collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1995</b> , 74, 850-854	7.4	56
440	Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. <i>European Physical Journal C</i> , <b>2015</b> , 75, 251	4.2	55
439	Search for new phenomena with the variable in the all-hadronic final state produced in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2017</b> , 77, 710	4.2	54
438	Search for ( $B_{\tau}^0 \rightarrow \tau \mu$ ) and $B^0 \rightarrow \tau \mu$ decays. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	52
437	Limits on $WWZ$ and $WW$ gamma couplings from $WW$ and $WZ$ production in p-p collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1995</b> , 75, 1017-1022	7.4	51
436	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 147	4.2	50
435	Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at ( $\sqrt{s} = 7$ TeV) and first determination of the strong coupling constant in the TeV range. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	50

434	Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2469	4.2	49
433	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 237	4.2	48
432	Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	48
431	Measurement of the $(\bar{t}t)$ production cross section and the top quark mass in the dilepton channel in pp collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	48
430	Measurement of the relative prompt production rate of $t\bar{t}$ and $t\bar{t} + b\bar{b}$ in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2251	4.2	46
429	Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	46
428	Search for new physics with jets and missing transverse momentum in pp collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	46
427	Exclusive $t\bar{t} + b\bar{b}$ production in proton-proton collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	45
426	Search for the associated production of the Higgs boson with a top-quark pair. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	45
425	Search for exclusive or semi-exclusive $t\bar{t}$ production and observation of exclusive and semi-exclusive $e^+e^-t\bar{t}$ production in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	45
424	Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2283	4.2	45
423	Measurement of the ratio $\sigma_B(pp\text{-bar}\rightarrow W\rightarrow e\nu)/\sigma_B(pp\text{-bar}\rightarrow Z\rightarrow ee)$ in pp-bar collisions at $\sqrt{s}=1800$ GeV. <i>Physical Review D</i> , <b>1995</b> , 52, 2624-2655	4.9	45
422	Measurement of the X(3872) production cross section via decays to $J/\psi + \chi_{c0}$ in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	44
421	Search for heavy bottom-like quarks in $4.9\text{ fb}^{-1}$ of pp collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	44
420	Charged particle transverse momentum spectra in pp collisions at $(\sqrt{s} = 0.9)$ and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	44
419	Measurement of the $(\overline{t}t)$ production cross section in the dilepton channel in pp collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	43
418	Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	43
417	Search for leptonic decays of $W^\pm$ bosons in pp collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	43

4 <sup>16</sup>	Event activity dependence of $(Y)(nS)$ production in $(\sqrt{s_{NN}}) = 5.02$ TeV pPb and $(\sqrt{s}) = 2.76$ TeV pp collisions. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5-4	42
4 <sup>15</sup>	Search for charged bosons heavier than the W boson in pp-bar collisions at $\sqrt{s}=1800$ GeV. <i>Physical Review Letters</i> , <b>1995</b> , 74, 2900-2904	7-4	42
4 <sup>14</sup>	Comparison of jet production in p-barp collisions at $\sqrt{s} = 546$ and 1800 GeV. <i>Physical Review Letters</i> , <b>1993</b> , 70, 1376-1380	7-4	42
4 <sup>13</sup>	Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. <i>European Physical Journal C</i> , <b>2015</b> , 75, 186	4-2	41
4 <sup>12</sup>	Measurement of prompt J/ψ pair production in pp collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5-4	41
4 <sup>11</sup>	Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	41
4 <sup>10</sup>	Measurement of the tt̄ Production Cross Section in pp̄ Collisions at $s=1.8$ TeV. <i>Physical Review Letters</i> , <b>1998</b> , 80, 2773-2778	7-4	41
4 <sup>09</sup>	Measurement of the inelastic proton-proton cross section at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	41
4 <sup>08</sup>	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> , <b>2018</b> , 2018, 1	5-4	40
4 <sup>07</sup>	Measurement of correlated micro-b-bar jet cross sections in pp-bar collisions at $s=1.8$ TeV. <i>Physical Review D</i> , <b>1996</b> , 53, 1051-1065	4-9	40
4 <sup>06</sup>	Studies of jet mass in dijet and W/Z + jet events. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	39
4 <sup>05</sup>	Study of the underlying event at forward rapidity in pp collisions at $(\sqrt{s}=0.9, 2.76, \text{and } 7 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	39
4 <sup>04</sup>	Measurement of the ZZ production cross section and search for anomalous couplings in 200 final states in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	39
4 <sup>03</sup>	Search for same-sign top-quark pair production at $(\sqrt{s} = 7)$ TeV and limits on flavour changing neutral currents in the top sector. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5-4	39
4 <sup>02</sup>	Search for new physics in events with same-sign dileptons and jets in pp collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5-4	38
4 <sup>01</sup>	Search for microscopic black holes in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	38
4 <sup>00</sup>	Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $(\sqrt{s} = 7; \text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5-4	38
399	Measurement of the [Formula: see text] cross section in pp collisions at [Formula: see text] TeV and limits on anomalous gauge couplings. <i>European Physical Journal C</i> , <b>2016</b> , 76, 401	4-2	38



398	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 288	4.2	37
397	Measurement of the differential cross section and charge asymmetry for inclusive [Formula: see text] production at [Formula: see text] TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 469	4.2	37
396	Jet production rates in association with W and Z bosons in pp collisions at ( $\sqrt{s} = 7 \text{ TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	37
395	Measurement of masses in the [Formula: see text] system by kinematic endpoints in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2494	4.2	37
394	Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	37
393	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at ( $\sqrt{s} = 8$ ) TeV by the CMS and TOTEM experiments. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1	4.2	37
392	Measurement of the $B \rightarrow D$ Oscillation Frequency Using B Meson Charge-Flavor Correlations in pp Collisions at $s=1.8\text{TeV}$ . <i>Physical Review Letters</i> , <b>1998</b> , 80, 2057-2062	7.4	37
391	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	37
390	Measurement of prompt and nonprompt charmonium suppression in collisions at 5.02. <i>European Physical Journal C</i> , <b>2018</b> , 78, 509	4.2	37
389	Measurement of the top-quark mass in ( $\overline{t}t$ ) events with dilepton final states in pp collisions at ( $\sqrt{s}=7 \text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	36
388	First measurement of the underlying event activity at the LHC with ( $\sqrt{s} = 0.9$ ) TeV. <i>European Physical Journal C</i> , <b>2010</b> , 70, 555-572	4.2	36
387	Measurement of the double-differential inclusive jet cross section in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 451	4.2	36
386	Search for disappearing tracks in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	35
385	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 13	4.2	35
384	Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	35
383	Measurement of the ( $\overline{t}t$ ) production cross section in pp collisions at ( $\sqrt{s}=7$ ) TeV using the kinematic properties of events with leptons and jets. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	35
382	Search for gluino and squark cascade decays at the Fermilab tevatron collider. <i>Physical Review Letters</i> , <b>1996</b> , 76, 2006-2010	7.4	35
381	Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at ( $\sqrt{s}=8$ ) TeV and cross section ratios to 2.76 and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	34

380	Search for new physics in same-sign dilepton events in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 439	4.2	34
379	Search for microscopic black holes in pp collisions at ( $\sqrt{s} = 7\text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	34
378	Search for heavy stable charged particles in pp collisions at ( $\sqrt{s} = 7\text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	34
377	Measurement of the average lifetime of B hadrons produced in pp-bar collisions at $\sqrt{s} = 1.8\text{TeV}$ . <i>Physical Review Letters</i> , <b>1993</b> , 71, 3421-3426	7.4	34
376	Evidence for color coherence in pp-bar collisions at $\sqrt{s} = 1.8\text{TeV}$ . <i>Physical Review D</i> , <b>1994</b> , 50, 5562-5579	7.4	34
375	Search for decays of stopped long-lived particles produced in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 151	4.2	33
374	Search for new physics in events with same-sign dileptons and b jets in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	33
373	Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	33
372	Search for a light charged Higgs boson decaying to ( $\overline{\text{c}}\text{s}$ ) in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-37	5.4	33
371	Limits on Z-photon couplings from p-p-bar interactions at $\sqrt{s}=1.8\text{TeV}$ . <i>Physical Review Letters</i> , <b>1995</b> , 74, 1941-1945	7.4	33
370	Identification techniques for highly boosted W bosons that decay into hadrons. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	32
369	Search for resonances in the dilepton mass distribution in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	32
368	Search for supersymmetry in pp collisions at ( $\sqrt{s} = 7$ ) TeV in events with a single lepton, jets, and missing transverse momentum. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	32
367	Measurement of the Drell-Yan cross section in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	32
366	Measurement of the ( $\overline{\text{t}}\text{t}$ ) production cross section in the e $\bar{\text{t}}$ channel in proton-proton collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	30
365	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	30
364	Inclusive b-jet production in pp collisions at ( $\sqrt{s} = 7\text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	30
363	Observation of Z decays to four leptons with the CMS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	30

362	Measurement of the top-quark mass in $(\overline{\text{t}}\text{t})$ events with lepton+jets final states in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	30
361	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $(\sqrt{s} = 7\text{-TeV})$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	30
360	Search for first-generation leptoquarks in p-bar-p collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review D</i> , <b>1993</b> , 48, R3939-R3944	4.9	30
359	Measurement of the cross section for production of two isolated prompt photons in pp-bar collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , <b>1993</b> , 70, 2232-2236	7.4	30
358	Measurement of the ratio $\sigma(B(W \rightarrow e\nu))/\sigma(B(Z \rightarrow e^+e^-))$ in p-bar-p collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , <b>1994</b> , 73, 220-224	7.4	30
357	Measurements of the production cross section and the branching fraction, and constraints on anomalous triple gauge couplings at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 165	4.2	29
356	Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or B b-quark jets in 7 TeV pp collisions using the variable $\beta$ T. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	29
355	Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3060	4.2	29
354	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3129	4.2	29
353	Search for new gauge bosons decaying into dielectrons in p-bar-p collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review D</i> , <b>1995</b> , 51, R949-R953	4.9	29
352	Kinematic evidence for top quark pair production in W+multijet events in pp-bar collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review D</i> , <b>1995</b> , 51, 4623-4637	4.9	29
351	Search for excited quarks in pp-bar collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , <b>1994</b> , 72, 3004-3008	4.9	29
350	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	28
349	Measurement of the production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 368	4.2	27
348	Evidence for exclusive $B \rightarrow W + W$ production and constraints on anomalous quartic gauge couplings in pp collisions at $(\sqrt{s}=7)$ and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	27
347	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $(\sqrt{s}=7\text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	27
346	Measurement of $(\overline{B}B)$ angular correlations based on secondary vertex reconstruction at $(\sqrt{s} = 7, \text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	27
345	Search for quark compositeness, axiguons, and heavy particles using the dijet invariant mass spectrum observed in pp-bar collisions. <i>Physical Review Letters</i> , <b>1993</b> , 71, 2542-2546	7.4	27

344	Measurement of prompt and nonprompt [Formula: see text] production in [Formula: see text] and [Formula: see text] collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2017</b> , 77, 269	4.2	26
343	Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	26
342	Searches for supersymmetry using the M T2 variable in hadronic events produced in pp collisions at 8 TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	26
341	Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at $(\sqrt{s} = 7, \text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	26
340	Measurement of Drell-Yan electron and muon pair differential cross sections in p-barp collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review D</i> , <b>1994</b> , 49, R1-R6	4.9	26
339	Measurement of the W-boson helicity in top-quark decays from $(\overline{\text{t}})$ production in lepton+jets events in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	25
338	Search for top squark pair production in pp collisions at $(\sqrt{s}=13)$ TeV using single lepton events. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	25
337	Measurements of the [Formula: see text][Formula: see text] production cross sections in the [Formula: see text] channel in proton-proton collisions at [Formula: see text] and [Formula: see text] and combined constraints on triple gauge couplings. <i>European Physical Journal C</i> , <b>2015</b> , 75, 511	4.2	25
336	Search for resonant $(\overline{\text{t}})$ production in lepton+jets events in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	25
335	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. <i>European Physical Journal C</i> , <b>2016</b> , 76, 371	4.2	25
334	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in collisions at 8. <i>European Physical Journal C</i> , <b>2018</b> , 78, 701	4.2	25
333	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 325	4.2	24
332	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 75	4.2	24
331	Measurement of inclusive jet production and nuclear modifications in pPb collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 372	4.2	24
330	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2674	4.2	24
329	Measurement of the $Z/\gamma + \text{b-jet}$ cross section in pp collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	24
328	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	24
327	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 2\mu\tau$ channel in pp collisions at $(\sqrt{s} = 7, \text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	24

326	Properties of high-mass multijet events at the Fermilab proton-antiproton collider. <i>Physical Review Letters</i> , <b>1995</b> , 75, 608-612	7.4	24
325	Search for flavor-changing neutral current B meson decays in pp-bar collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1996</b> , 76, 4675-4680	7.4	24
324	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P10017-P10017	1	23
323	Search for $W \rightarrow tb$ decays in the lepton + jets final state in pp collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	23
322	Direct measurement of the W boson width. <i>Physical Review Letters</i> , <b>1995</b> , 74, 341-345	7.4	23
321	Measurement of the B+ and B0 meson lifetimes. <i>Physical Review Letters</i> , <b>1994</b> , 72, 3456-3460	7.4	23
320	Measurement of the B meson and b quark cross sections at $\sqrt{s} = 1.8$ TeV using the exclusive decay $B^0 \rightarrow J/\psi K^*(892)^0$ . <i>Physical Review D</i> , <b>1994</b> , 50, 4252-4257	4.9	23
319	Search for third-generation scalar leptoquarks decaying to a top quark and a lepton at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 707	4.2	23
318	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying leptons at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	23
317	Measurement of the [Formula: see text] production cross section using events in the [Formula: see text] final state in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2017</b> , 77, 172	4.2	22
316	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2017</b> , 77, 845	4.2	22
315	Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	22
314	Measurement of Bose-Einstein correlations in pp collisions at $(\sqrt{s} = 0.9)$ and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	22
313	Identification of top quarks using kinematic variables. <i>Physical Review D</i> , <b>1995</b> , 52, R2605-R2609	4.9	22
312	Measurement of the polarization in the decays $B_d \rightarrow J/\psi K^*0$ and $B_s \rightarrow J/\psi \phi$ . <i>Physical Review Letters</i> , <b>1995</b> , 75, 3068-3072	7.4	22
311	Search for second generation leptoquarks in pp-bar collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1995</b> , 75, 1012-1016	7.4	22
310	Reconstruction of $B^0 \rightarrow J/\psi K^0_S$ and measurement of ratios of branching ratios involving $B \rightarrow J/\psi K^*$ and $B^+ \rightarrow J/\psi K^+$ . <i>Physical Review Letters</i> , <b>1996</b> , 76, 2015-2020	7.4	22
309	Measurement of the WZ production cross section in pp collisions at [Formula: see text] and 8[Formula: see text] and search for anomalous triple gauge couplings at [Formula: see text]. <i>European Physical Journal C</i> , <b>2017</b> , 77, 236	4.2	21

308	A search for new phenomena in pp collisions at [Formula: see text] in final states with missing transverse momentum and at least one jet using the [Formula: see text] variable. <i>European Physical Journal C</i> , <b>2017</b> , 77, 294	4.2	21
307	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 66	4.2	21
306	Correlations between jets and charged particles in PbPb and pp collisions at ( $\sqrt{s_{\mathrm{NN}}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	21
305	Measurement of the [Formula: see text] production cross section in the all-jets final state in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 128	4.2	21
304	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	21
303	Measurement of the top-quark mass in all-jets [Formula: see text] events in pp collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2758	4.2	21
302	Measurement of the ( $\bar{\mathrm{t}}\mathrm{t}$ ) production cross section in the $\bar{\mathrm{t}}\mathrm{t}$ jets channel in pp collisions at ( $\sqrt{s}=7$ mbox{TeV}). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	21
301	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. <i>European Physical Journal C</i> , <b>2017</b> , 77, 578	4.2	21
300	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	21
299	Search for a Higgs boson in the decay channel $H \rightarrow ZZ^* \rightarrow q(\overline{\mathrm{q}})$ in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	21
298	Inclusive b-hadron production cross section with muons in pp collisions at ( $\sqrt{s} = 7$ ;{text{TeV}}). <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	21
297	Search for large extra dimensions in the diphoton final state at the Large Hadron Collider. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	21
296	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at ( $\sqrt{s_{\mathrm{NN}}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	21
295	Measurement of [Formula: see text] production with additional jet activity, including [Formula: see text] quark jets, in the dilepton decay channel using pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 379	4.2	20
294	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 140	4.2	20
293	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 564	4.2	20
292	Measurement of the production cross section for pairs of isolated photons in pp collisions at ( $\sqrt{s} = 7$ ;TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	20
291	Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at. <i>European Physical Journal C</i> , <b>2017</b> , 77, 636	4.2	20

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289	Observation of the decay $B_s^0 \rightarrow J/\psi \phi$ in p-barp collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , <b>1993</b> , 71, 1685-1689	7.4	20
288	Search for anomalous single top quark production in association with a photon in pp collisions at ( $\sqrt{s} = 8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	20
287	Measurements of the [Formula: see text] production cross section in lepton+jets final states in pp collisions at 8 [Formula: see text] and ratio of 8 to 7 [Formula: see text] cross sections. <i>European Physical Journal C</i> , <b>2017</b> , 77, 15	4.2	19
286	Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at ( $\sqrt{s} = 8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	19
285	Search for massive WH resonances decaying into the [Formula: see text] final state at [Formula: see text] [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 237	4.2	19
284	Measurement of exclusive photoproduction from protons in Pb collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 277	4.2	19
283	Search for third-generation scalar leptoquarks in the $t\bar{t}$ channel in proton-proton collisions at ( $\sqrt{s} = 8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	19
282	Measurement of energy flow at large pseudorapidities in pp collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	19
281	Silicon vertex tracker: a fast precise tracking trigger for CDF. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2000</b> , 447, 218-222	1.2	19
280	Precision Measurement of the Prompt Photon Cross Section in pp Collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , <b>1995</b> , 74, 1891-1893	7.4	19
279	Measurement of differential cross sections for boson production in association with jets in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 965	4.2	19
278	Search for new physics in dijet angular distributions using proton-proton collisions at and constraints on dark matter and other models. <i>European Physical Journal C</i> , <b>2018</b> , 78, 789	4.2	19
277	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 364	4.2	18
276	Study of Z production in PbPb and pp collisions at ( $\sqrt{s_{\text{NN}}} = 2.76$ ) TeV in the dimuon and dielectron decay channels. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	18
275	Observation of top quark pairs produced in association with a vector boson in pp collisions at ( $\sqrt{s} = 8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	18
274	. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	18
273	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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	18

272	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	18
271	Measurement of the Bs meson lifetime. <i>Physical Review Letters</i> , <b>1995</b> , 74, 4988-4992	7.4	18
270	Study of $t\bar{t}$ collisions using total transverse energy. <i>Physical Review Letters</i> , <b>1995</b> , 75, 3997-4002	7.4	18
269	Search for $(\overline{t}t)$ production in the $(H)$ to $(\overline{b}b)$ decay channel with leptonic $(\overline{t}t)$ decays in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	17
268	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s}=13$ . <i>European Physical Journal C</i> , <b>2018</b> , 78, 291	4.2	17
267	Measurement of the inclusive jet cross section in pp collisions at $(\sqrt{s} = 2.76, \text{TeV})$ . <i>European Physical Journal C</i> , <b>2016</b> , 76, 1	4.2	17
266	Searches for pair production of third-generation squarks in $pp$ collisions. <i>European Physical Journal C</i> , <b>2017</b> , 77, 327	4.2	17
265	Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	17
264	Search for stopped long-lived particles produced in pp collisions at $(\sqrt{s} = \{7\text{TeV}\})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	17
263	Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at $(\sqrt{s} = 7 \text{ TeV})$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	17
262	Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	17
261	Search for charged Higgs boson decays of the top quark using hadronic tau decays. <i>Physical Review D</i> , <b>1996</b> , 54, 735-742	4.9	17
260	Measurement of double-differential cross sections for top quark pair production in pp collisions at $[\text{Formula: see text}][\text{Formula: see text}]$ and impact on parton distribution functions. <i>European Physical Journal C</i> , <b>2017</b> , 77, 459	4.2	16
259	Searches for physics beyond the standard model with the variable in hadronic final states with and without disappearing tracks in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 3	4.2	16
258	Search for new physics with the M T2 variable in all-jets final states produced in pp collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	16
257	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $(\ell\ell)$ in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	16
256	Measurement of WZ and ZZ production in pp collisions at $[\text{Formula: see text}]$ in final states with b-tagged jets. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2973	4.2	16
255	Search for exotic resonances decaying into WZ/ZZ in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	16



254	Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	16
253	Search for the top quark decaying to a charged Higgs boson in p-bar collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1994</b> , 73, 2667-2671	7.4	16
252	Search for the top quark decaying to a charged Higgs boson in p p-bar collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1994</b> , 72, 1977-1981	7.4	16
251	Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	16
250	Measurements of the associated production of a Z boson and b jets in pp collisions at. <i>European Physical Journal C</i> , <b>2017</b> , 77, 751	4.2	15
249	Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	15
248	Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	15
247	Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	15
246	Search for supersymmetry in pp collisions at [Formula: see text] TeV in events with a single lepton, jets, and missing transverse momentum. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2404	4.2	15
245	Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	15
244	Measurements of the B- and B-bar <sup>0</sup> meson lifetimes using semileptonic decays. <i>Physical Review Letters</i> , <b>1996</b> , 76, 4462-4467	7.4	15
243	Measurement of jet multiplicity in W events produced in pp-bar collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1993</b> , 70, 4042-4046	7.4	15
242	Measurement of the dijet mass distribution in pp-bar collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , <b>1993</b> , 48, 998-1008	4.9	15
241	Search for high-mass resonances in final states with a lepton and missing transverse momentum at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	15
240	Measurement of the jet mass in highly boosted [Formula: see text] events from pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2017</b> , 77, 467	4.2	14
239	Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 460	4.2	14
238	Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	14
237	Measurement of the ( $\Lambda_{\text{b}}$ ) lifetime in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	14

236	Measurement of the $(\overline{\text{t}}\text{t})$ production cross section in the all-jet final state in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	14
235	Measurement of the $(\overline{\text{t}}\text{t})$ production cross section using events with one lepton and at least one jet in pp collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	14
234	Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5-4	14
233	Evidence for Higgs boson decay to a pair of muons. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5-4	14
232	Measurement of the ratio of the production cross sections times branching fractions of $B \rightarrow J/\psi \mu^+ \mu^-$ and $B \rightarrow J/\psi \mu^+ \mu^-$ and $(\text{mathcal{B}}\{\text{left}\{\text{mathcal{B}}\}_{\text{mathcal{C}}^{\text{pm}}\text{to mathcal{J}}\}/\text{psi}\{\text{pi}\}^{\text{pm}}\}\{\text{pi}\}^{\text{pm}}\}\{\text{pi}\}^{\text{mp}}\text{right})/\text{mathcal{B}}\{\text{left}\{\text{mathcal{B}}\}_{\text{mathcal{C}}^{\text{pm}}\text{to mathcal{J}}\}/\text{psi}\{\text{pi}\}^{\text{pm}}\text{right})$ in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5-4	13
231	Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 325	4-2	13
230	Measurement of exclusive $\pi$ photoproduction in ultraperipheral pPb collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 702	4-2	13
229	Measurement of the top quark mass in the all-jets final state at and combination with the lepton+jets channel. <i>European Physical Journal C</i> , <b>2019</b> , 79, 313	4-2	13
228	Probing color coherence effects in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2901	4-2	13
227	Search for a fermiophobic Higgs boson in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	13
226	Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	13
225	Measurement of the mass difference between top and antitop quarks. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	13
224	Search for $\Lambda_b \rightarrow J/\psi \Lambda^0$ in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , <b>1993</b> , 47, R2639-R2643	4-9	13
223	Measurement of $(\overline{\text{t}}\text{t})$ normalised multi-differential cross sections in $(\text{pp})$ collisions at $(\sqrt{s}=13, \text{TeV})$ , and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4-2	13
222	Search for $(\overline{\text{t}}\text{t})\text{H}$ production in the all-jet final state in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	13
221	Measurement of the top quark mass with lepton+jets final states using collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 891	4-2	13
220	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 280	4-2	12
219	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	12

218	Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	12
217	Search for quark compositeness in dijet angular distributions from pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	12
216	Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at ( $\sqrt{s}=7$ ;TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	12
215	Search for light resonances decaying into pairs of muons as a signal of new physics. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	12
214	The CMS data acquisition system software. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 219, 022011	0.3	12
213	Studies of $\rho$ and mesons including the observation of the decay in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 939	4.2	12
212	Electroweak production of two jets in association with a Z boson in proton-proton collisions at ( $\sqrt{s}= 13$ TeV). <i>European Physical Journal C</i> , <b>2018</b> , 78, 1	4.2	12
211	Measurement of associated Z + charm production in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 287	4.2	11
210	Measurement of jet multiplicity distributions in $W$ production in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3014	4.2	11
209	Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	11
208	Measurement of the underlying event activity in pp collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV with the novel jet-area/median approach. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	11
207	Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at ( $\sqrt{s}= 7$ ) TeV. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	11
206	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 4\mu$ decay channel in pp collisions at ( $\sqrt{s} = 7$ ;TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	11
205	Observation of Hadronic W Decays in $t\bar{t}$ Events with the Collider Detector at Fermilab. <i>Physical Review Letters</i> , <b>1998</b> , 80, 5720-5725	7.4	11
204	Measurements of differential Z boson production cross sections in proton-proton collisions at ( $\sqrt{s} ) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	11
203	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P02027-P02027	1	11
202	Search for Z resonances using leptonic and hadronic final states in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	11
201	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. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	10

200	A multi-dimensional search for new heavy resonances decaying to boosted $\tau$ , $W$ , or boson pairs in the dijet final state at 13 TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 237	4.2	10
199	Search for excited leptons in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	10
198	Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	10
197	Search for physics beyond the standard model in events with leptons, jets, and large transverse momentum imbalance in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2493	4.2	10
196	Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	10
195	Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	10
194	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	10
193	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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	10
192	Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	9
191	CMS DAQ Event Builder Based on Gigabit Ethernet. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 198-207	4.2	9
190	Search for squarks and gluinos via radiative decays of neutralinos in proton-antiproton collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1995</b> , 75, 613-617	7.4	9
189	Measurement of the mass of the $B_s^0$ meson. <i>Physical Review D</i> , <b>1996</b> , 53, 3496-3505	4.9	9
188	Search for lepton flavour violating decays of heavy resonances and quantum black holes to an [Formula: see text] pair in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 317	4.2	9
187	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	9
186	Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 697	4.2	9
185	The New CMS DAQ System for Run-2 of the LHC. <i>IEEE Transactions on Nuclear Science</i> , <b>2015</b> , 62, 1099-1107	4.2	8
184	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
183	Search for s channel single top quark production in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	8

182	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. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8
181	Measurement of the top quark mass using single top quark events in proton-proton collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , <b>2017</b> , 77, 354	4.2	8
180	Measurement of the triple-differential dijet cross section in proton-proton collisions at and constraints on parton distribution functions. <i>European Physical Journal C</i> , <b>2017</b> , 77, 746	4.2	8
179	10 Gbps TCP/IP streams from the FPGA for the CMS DAQ eventbuilder network. <i>Journal of Instrumentation</i> , <b>2013</b> , 8, C12039-C12039	1	8
178	The Terabit/s Super-Fragment Builder and Trigger Throttling System for the Compact Muon Solenoid Experiment at CERN. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 190-197	1.7	8
177	Performance of the CDF online silicon vertex tracker. <i>IEEE Transactions on Nuclear Science</i> , <b>2002</b> , 49, 1177-1184	1.7	8
176	Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	8
175	Measurement of the production cross section of a $W\bar{b}$ boson in association with two b jets in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2017</b> , 77, 92	4.2	7
174	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at ( $\sqrt{s}=13$ ,text {TeV}). <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	7
173	Search for rare decays of and Higgs bosons to and a photon in proton-proton collisions at $\sqrt{s}=13$ . <i>European Physical Journal C</i> , <b>2019</b> , 79, 94	4.2	7
172	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. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	7
171	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at ( $\sqrt{\text{mathrm{s}}}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	7
170	Search for supersymmetry in pp collisions at ( $\sqrt{s}=13$ ) TeV in the single-lepton final state using the sum of masses of large-radius jets. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	7
169	Measurement of top quark polarisation in t-channel single top quark production. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	7
168	Measurement of the $Z\bar{\nu}$ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	7
167	A programmable associative memory for track finding. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1998</b> , 413, 367-373 <sup>1,2</sup>		7
166	The run control system of the CMS experiment. <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 119, 022010	0.3	7
165	Center-of-mass angular distribution of prompt photons produced in pp-bar collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1993</b> , 71, 679-683	7.4	7

164	Search for dark matter produced in association with a leptonically decaying boson in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 13	4.2	7
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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
162	Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2\bar{q}q$ final states at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
161	Search for dark matter produced in association with a Higgs boson decaying to $\tau\bar{\tau}$ ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
160	Precision luminosity measurement in proton-proton collisions at in 2015 and 2016 at CMS. <i>European Physical Journal C</i> , <b>2021</b> , 81, 800	4.2	7
159	Search for single production of vector-like quarks decaying to a top quark and a boson in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 90	4.2	6
158	Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at ( $\sqrt{s}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	6
157	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in collisions at and 5.02. <i>European Physical Journal C</i> , <b>2020</b> , 80, 534	4.2	6
156	Measurement of electroweak production of a boson in association with two jets in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 43	4.2	6
155	Measurement of dijet azimuthal decorrelation in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 536	4.2	6
154	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 ( $\sqrt{s} = 13$ ,text {TeV}). <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	6
153	Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	6
152	The data-acquisition system of the CMS experiment at the LHC. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 331, 022021	0.3	6
151	The CDF silicon vertex tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 477, 451-455	1.2	6
150	Search for the rare decay $W^{+/-} \rightarrow \pi^{+/-} \gamma$ . <i>Physical Review Letters</i> , <b>1996</b> , 76, 2852-2857	7.4	6
149	Search for the associated production of the Higgs boson with a top-quark pair <b>2014</b> , 2014, 1		6
148	Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	6
147	Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	6

146	Measurement of the differential Drell-Yan cross section in proton-proton collisions at ( $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	6
145	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 893	4.2	6
144	Search for new physics in top quark production in dilepton final states in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 886	4.2	6
143	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
142	Search for a heavy resonance decaying into a Z boson and a vector boson in the ( $\nu \overline{\nu} + \text{q} \overline{\text{q}}$ ) final state. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
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140	The DAQ needle in the big-data haystack. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 664, 082032	0.3	5
139	Comparison of the $Z/\overline{D} + \text{jets}$ to $\overline{D}$ jets cross sections in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	5
138	The CMS event builder and storage system. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 219, 022038	0.3	5
137	Initial experience with the CDF SVT trigger. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2003</b> , 501, 201-206	1.2	5
136	W boson+jet angular distribution in pp-bar collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1994</b> , 73, 2296-2300	7.4	5
135	Measurement of energy flow at large pseudorapidities in pp collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV <b>2011</b> , 2011, 1		5
134	Measurements of production cross sections and constraints on anomalous triple gauge couplings at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 200	4.2	5
133	Construction and commissioning of CMS CE prototype silicon modules. <i>Journal of Instrumentation</i> , <b>2021</b> , 16, T04002	1	5
132	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 378	4.2	5
131	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 488	4.2	5
130	Search for resonant and nonresonant new phenomena in high-mass dilepton final states at ( $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	5
129	Search for top squark pair production using dilepton final states in collision data collected at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 3	4.2	5

128	Measurement of the cross section in pp collisions at and validation of lepton analysis techniques. <i>European Physical Journal C</i> , <b>2018</b> , 78, 708	4.2	5
127	Search for the pair production of light top squarks in the $e\bar{e}$ final state in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	4
126	Study of the underlying event in top quark pair production in collisions at 13. <i>European Physical Journal C</i> , <b>2019</b> , 79, 123	4.2	4
125	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 20	4.2	4
124	Distributions of topological observables in inclusive three- and four-jet events in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 302	4.2	4
123	Evidence for $(W)W$ production from double-parton interactions in proton-proton collisions at ( $\sqrt{s} = 13$ , text {TeV}). <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	4
122	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 242	4.2	4
121	A Comprehensive Zero-Copy Architecture for High Performance Distributed Data Acquisition Over Advanced Network Technologies for the CMS Experiment. <i>IEEE Transactions on Nuclear Science</i> , <b>2013</b> , 60, 4595-4602	1.7	4
120	First Operational Experience With a High-Energy Physics Run Control System Based on Web Technologies. <i>IEEE Transactions on Nuclear Science</i> , <b>2012</b> , 59, 1597-1604	1.7	4
119	Monitoring the CMS data acquisition system. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 219, 022042	0.3	4
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117	Measurement of the associated $\mu\mu$ production cross section in pp collisions at $s=1.8$ TeV. <i>Physical Review D</i> , <b>1999</b> , 60,	4.9	4
116	A real-time tracker for hadronic collider experiments. <i>IEEE Transactions on Nuclear Science</i> , <b>1999</b> , 46, 947-952	1.7	4
115	Measurement of differential cross sections and charge ratios for $\gamma$ -channel single top quark production in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 370	4.2	4
114	Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	4
113	Search for new physics in top quark production with additional leptons in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV using effective field theory. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	4
112	Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at ( $\sqrt{s}=13$ ~hbox {TeV}). <i>European Physical Journal C</i> , <b>2018</b> , 78, 1	4.2	4
111	MUSIC: a model-unspecific search for new physics in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 629	4.2	4



110	Search for direct pair production of supersymmetric partners to the lepton in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 189	4.2	3
109	The CMS Data Acquisition - Architectures for the Phase-2 Upgrade. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 898, 032019	0.3	3
108	Search for pair production of excited top quarks in the lepton + jets final state. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	3
107	Study of hadronic event-shape variables in multijet final states in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	3
106	Measurement of the cross section for production of ( $\overline{b} X$ ) decaying to muons in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	3
105	The CMS High Level Trigger System. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 172-175	1.7	3
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103	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 970	4.2	3
102	Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	3
101	Measurement of the ( $\overline{t} t$ ) production cross section in the dilepton channel in pp collisions at ( $\sqrt{s} = 8$ TeV) <b>2014</b> , 2014, 1		3
100	Dependence of inclusive jet production on the anti-kT distance parameter in pp collisions at ( $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	3
99	Investigation into the event-activity dependence of $\langle n_S \rangle$ relative production in proton-proton collisions at ( $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	3
98	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. <i>Computing and Software for Big Science</i> , <b>2020</b> , 4, 10	6	3
97	Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at ( $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	3
96	The DAQ system of the 12,000 channel CMS high granularity calorimeter prototype. <i>Journal of Instrumentation</i> , <b>2021</b> , 16, T04001	1	3
95	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at ( $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	3
94	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 723	4.2	3
93	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 305	4.2	2

92	Search for decays of the 125 GeV Higgs boson into a Z boson and a $\tau$ meson. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
91	Performance of the CMS Event Builder. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 898, 032020	0.3	2
90	New operator assistance features in the CMS Run Control System. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 898, 032028	0.3	2
89	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. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	2
88	Search for $W \rightarrow tb$ in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	2
87	Search for the production of an excited bottom quark decaying to $tW$ in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	2
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85	Prototype of a File-Based High-Level Trigger in CMS. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 513, 012025	0.3	2
84	Automating the CMS DAQ. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 513, 012031	0.3	2
83	Search for new phenomena with multiple charged leptons in proton-proton collisions at ( $\sqrt{s}=13$ ) (,text {TeV}). <i>European Physical Journal C</i> , <b>2017</b> , 77, 1	4.2	2
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80	The CMS High Level Trigger System: Experience and Future Development. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 396, 012008	0.3	2
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77	Jet pseudorapidity distribution in direct photon events in pp collisions at $s=1.8$ TeV. <i>Physical Review D</i> , <b>1998</b> , 57, 1359-1365	4.9	2
76	A prototype of programmable associative memory for track finding		2
75	Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the $B\bar{b}$ final state at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2

74	Search for new physics in events with same-sign dileptons and b jets in pp collisions at ( $\sqrt{s}=8$ ) TeV <b>2013</b> , 2013, 1		2
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72	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. <i>European Physical Journal C</i> , <b>2020</b> , 80, 752	4.2	2
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70	Angular analysis of the decay $B^+ \rightarrow K^{*0} \mu^+ \mu^-$ in proton-proton collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
69	First measurement of large area jet transverse momentum spectra in heavy-ion collisions. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
68	Performance of the new DAQ system of the CMS experiment for run-2 <b>2016</b> ,		2
67	Search for supersymmetry in events with a photon, jets, $\bar{b}$ -jets, and missing transverse momentum in proton-proton collisions at 13. <i>European Physical Journal C</i> , <b>2019</b> , 79, 444	4.2	1
66	Search for supersymmetry in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV in events with high-momentum Z bosons and missing transverse momentum. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
65	Online data handling and storage at the CMS experiment. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 664, 082009	0.3	1
64	A New Event Builder for CMS Run II. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 664, 082035	0.3	1
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62	Achieving High Performance With TCP Over 40 GbE on NUMA Architectures for CMS Data Acquisition. <i>IEEE Transactions on Nuclear Science</i> , <b>2015</b> , 62, 1091-1098	1.7	1
61	Recent experience and future evolution of the CMS High Level Trigger System <b>2012</b> ,		1
60	Studies of future readout links for the CMS experiment. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 331, 022004	0.3	1
59	An Analysis of the Control Hierarchy Modelling of the CMS Detector Control System. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 331, 022010	0.3	1
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57	Upgrade of the CMS Event Builder. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 396, 012039	0.3	1

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55	Dynamic configuration of the CMS Data Acquisition cluster. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 219, 022003	0.3	1
54	Flexible custom designs for CMS DAQ. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>2007</b> , 172, 174-177		1
53	CMS DAQ Event Builder Based on Gigabit Ethernet <b>2007</b> ,		1
52	A large associative memory system for the CDF level 2 trigger		1
51	A prototype of programmable associative memory for track finding. <i>IEEE Transactions on Nuclear Science</i> , <b>1999</b> , 46, 940-946	1.7	1
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49	Measurements of the $pp \rightarrow W\mu\mu$ and $pp \rightarrow Z\tau\tau$ cross sections at $(\sqrt{s}) = 13$ TeV and limits on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
48	DAQExpert the service to increase CMS data-taking efficiency. <i>EPJ Web of Conferences</i> , <b>2020</b> , 245, 01028.	0.3	1
47	Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
46	Measurement of differential cross sections for Z bosons produced in association with charm jets in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
45	Development and validation of HERWIG <sup>++</sup> tunes from CMS underlying-event measurements. <i>European Physical Journal C</i> , <b>2021</b> , 81, 312	4.2	1
44	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 969	4.2	1
43	Operational experience with the new CMS DAQ-Expert. <i>EPJ Web of Conferences</i> , <b>2019</b> , 214, 01015	0.3	1
42	Search for the lepton flavor violating decay $\mu \rightarrow 3\pi$ in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
41	DAQExpert - An expert system to increase CMS data-taking efficiency. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1085, 032021	0.3	1
40	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. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	1
39	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. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1

38	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 773	4.2	○
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36	Measurement of single-diffractive dijet production in proton-proton collisions at with the CMS and TOTEM experiments. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1164	4.2	○
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34	Measurement of b jet shapes in proton-proton collisions at $(\sqrt{s}) = 5.02$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
33	Study of Drell-Yan dimuon production in proton-lead collisions at $(\sqrt{s_{\mathrm{NN}}}) = 8.16$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
32	The Phase-2 Upgrade of the CMS Data Acquisition. <i>EPJ Web of Conferences</i> , <b>2021</b> , 251, 04023	0.3	○
31	Search for a heavy vector resonance decaying to a $\Upsilon$ boson and a Higgs boson in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 688	4.2	○
30	Measurements of angular distance and momentum ratio distributions in three-jet and + two-jet final states in collisions. <i>European Physical Journal C</i> , <b>2021</b> , 81, 852	4.2	○
29	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. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
28	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at .. <i>European Physical Journal C</i> , <b>2022</b> , 82, 153	4.2	○
27	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at .. <i>European Physical Journal C</i> , <b>2022</b> , 82, 290	4.2	○
26	Measurement of the inclusive and differential $t\bar{t}$ cross sections in the single-lepton channel and EFT interpretation at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
25	Measurement of the top quark mass using events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
24	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. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
23	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. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
22	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
21	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. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○

20	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
19	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
18	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
17	A Scalable Online Monitoring System Based on Elasticsearch for Distributed Data Acquisition in Cms. <i>EPJ Web of Conferences</i> , <b>2019</b> , 214, 01048	0.3	
16	Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	
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7	Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P05002-P05002	1	
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4	The CMS Event-Builder System for LHC Run 3 (2021-23). <i>EPJ Web of Conferences</i> , <b>2019</b> , 214, 01006	0.3	
3	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	

- 2 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 5·4
- 1 Measurement of the inclusive  $\overline{\text{charm}}$  production cross section in proton-proton collisions at  $\sqrt{s} = 5.02$  TeV. *Journal of High Energy Physics*, **2022**, 2022, 1 5·4