Jesus Puerta Pelayo

List of Publications by Citations

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531
papers

19,412
citations

67
h-index
g-index

549
ext. papers

22,123
ext. citations

5 6.61
avg, IF
L-index

#	Paper	IF	Citations
531	Combined Measurement of the Higgs Boson Mass in pp Collisions at sqrt[s]=7 and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , 2015 , 114, 191803	7.4	709
530	CMS Physics Technical Design Report, Volume II: Physics Performance. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007 , 34, 995-1579	2.9	602
529	Determination of jet energy calibration and transverse momentum resolution in CMS. <i>Journal of Instrumentation</i> , 2011 , 6, P11002-P11002	1	463
528	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> , 2015 , 75, 212	4.2	399
527	Performance of CMS muon reconstruction in pp collision events at = 7TeV. <i>Journal of Instrumentation</i> , 2012 , 7, P10002-P10002	1	398
526	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1	5.4	389
525	Identification of b-quark jets with the CMS experiment. <i>Journal of Instrumentation</i> , 2013 , 8, P04013-P0	4013	376
524	Study of high-p T charged particle suppression in PbPb compared to pp collisions at (sqrt{s_{mathrm{NN}}}=2.76~mathrm{TeV}). European Physical Journal C, 2012 , 72, 1	4.2	316
523	Description and performance of track and primary-vertex reconstruction with the CMS tracker. <i>Journal of Instrumentation</i> , 2014 , 9, P10009-P10009	1	279
522	Observation of a new boson with mass near 125 GeV in pp collisions at (sqrt{s}=7) and 8 TeV. Journal of High Energy Physics, 2013 , 2013, 1	5.4	261
521	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> , 2015 , 75, 235	4.2	250
520	Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , 2016 , 76, 155	4.2	250
519	Observation of the diphoton decay of the Higgs boson and measurement of its properties. <i>European Physical Journal C</i> , 2014 , 74, 3076	4.2	239
518	Measurement of the Bs(0)-B Ebranching fraction and search for B(0)-B Ewith the CMS experiment. <i>Physical Review Letters</i> , 2013 , 111, 101804	7∙4	220
517	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> , 2010 , 2010, 1	5.4	201
516	Search for supersymmetry at the LHC in events with jets and missing transverse energy. <i>Physical Review Letters</i> , 2011 , 107, 221804	7.4	188
515	Suppression of non-prompt J/🏻prompt J/ឋand (Upsilon)(1S) in PbPb collisions at (sqrt {{{s_{text{NN}}}}} = 2.76) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	184

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514	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> , 2014 , 74, 3036	4.2	183
513	Observation of sequential Buppression in PbPb collisions. <i>Physical Review Letters</i> , 2012 , 109, 222301	7.4	172
512	Search for top-squark pair production in the single-lepton final state in pp collisions at (sqrt{s}=8 mathrm{TeV}). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	162
511	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> , 2012 , 72, 1	4.2	158
510	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> , 2012 , 2012, 1	5.4	155
509	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> , 2014 , 74, 3149	4.2	149
508	Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	144
507	Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at 目 8 TeV. <i>Journal of Instrumentation</i> , 2015 , 10, P08010-P08010	1	141
506	Study of the inclusive production of charged pions, kaons, and protons in pp collisions at (sqrt{s} = $0.9, 2.76, mbox{and} 7\sim mbox{TeV}$). European Physical Journal C, 2012 , 72, 1	4.2	133
505	Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes. <i>European Physical Journal C</i> , 2014 , 74, 2980	4.2	131
504	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> , 2011 , 2011, 1	5.4	121
503	Prompt and non-prompt J/ \mathbb{D} production in pp collisions at (sqrt{s} = 7) TeV. European Physical Journal C, 2011 , 71, 1	4.2	118
502	Search for dijet resonances in 7 TeV pp collisions at CMS. <i>Physical Review Letters</i> , 2010 , 105, 211801	7.4	116
501	Search for dark matter and large extra dimensions in pp collisions yielding a photon and missing transverse energy. <i>Physical Review Letters</i> , 2012 , 108, 261803	7.4	116
500	A search for a doubly-charged Higgs boson in pp collisions at ($sqrt{s} = 7 mbox{TeV}$). European Physical Journal C, 2012 , 72, 1	4.2	111
499	Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at 🛭 7 TeV. <i>Journal of Instrumentation</i> , 2013 , 8, P09009-P09009	1	111
498	Measurements of inclusive W and Z cross sections in pp collisions at (sqrt $\{s\} = 7$) TeV. Journal of High Energy Physics, 2011 , 2011, 1	5.4	104
497	Measurement of differential top-quark-pair production cross sections in pp collisions at $(sqrt\{s\} = 7 mathrm\{TeV\})$. European Physical Journal C, 2013 , 73, 1	4.2	102

496	Evidence for the 125 GeV Higgs boson decaying to a pair of [leptons. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	101
495	Search for a light charged Higgs boson in top quark decays in pp collisions at (sqrt $\{s\}$ = 7;TeV). Journal of High Energy Physics, 2012, 2012, 1	5.4	101
494	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 11	6541219	2 99
493	CMS Physics Technical Design Report: Addendum on High Density QCD with Heavy Ions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007 , 34, 2307-2455	2.9	99
492	Measurement of the differential cross section for top quark pair production in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 542	4.2	98
491	Observation of tt[over []H Production. <i>Physical Review Letters</i> , 2018 , 120, 231801	7.4	96
490	Searches for long-lived charged particles in pp collisions at (sqrt{s}) = 7 and 8 TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	96
489	Missing transverse energy performance of the CMS detector. <i>Journal of Instrumentation</i> , 2011 , 6, P090	001-P09	9094
488	Search for supersymmetry in hadronic final states using M T2 in pp collisions at (sqrt{s}=7) TeV. Journal of High Energy Physics, 2012, 2012, 1	5.4	92
487	Measurement of Long-Range Near-Side Two-Particle Angular Correlations in pp Collisions at sqrt[s]=13 TeV. <i>Physical Review Letters</i> , 2016 , 116, 172302	7.4	90
486	Charged particle multiplicities in pp interactions at (sqrt $\{s\}$ = 0.9), 2.36, and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	89
485	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at (sqrt {{{s_{text{NN}}}}} = 2.76) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	87
484	Performance of the CMS missing transverse momentum reconstruction in pp data at \blacksquare = 8 TeV. Journal of Instrumentation, 2015 , 10, P02006-P02006	1	84
483	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> , 2013 , 73, 2568	4.2	82
482	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> , 2014 , 2014, 1	5.4	81
481	Performance of 🗓-lepton reconstruction and identification in CMS. <i>Journal of Instrumentation</i> , 2012 , 7, P01001-P01001	1	81
480	Observation of Higgs Boson Decay to Bottom Quarks. <i>Physical Review Letters</i> , 2018 , 121, 121801	7.4	79
479	Strange particle production in pp collisions at (sqrt $\{s\}$ = 0.9) and 7 TeV. Journal of High Energy Physics, 2011 , 2011, 1	5.4	78

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478	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> , 2017 , 2017, 1	5.4	77	
477	Searches for new physics using the tt□invariant mass distribution in pp collisions at 🗷=8 TeV. <i>Physical Review Letters</i> , 2013 , 111, 211804	7.4	76	
476	Reconstruction and identification of Ilepton decays to hadrons and Ilt CMS. <i>Journal of Instrumentation</i> , 2016 , 11, P01019-P01019	1	75	
475	The performance of the CMS muon detector in proton-proton collisions at 🛭 7 TeV at the LHC. <i>Journal of Instrumentation</i> , 2013 , 8, P11002-P11002	1	74	
474	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> , 2015 , 2015, 1	5.4	73	
473	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> , 2012 , 2012, 1	5.4	73	
472	Observation of Charge-Dependent Azimuthal Correlations in p-Pb Collisions and Its Implication for the Search for the Chiral Magnetic Effect. <i>Physical Review Letters</i> , 2017 , 118, 122301	7.4	72	
471	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> , 2014 , 74, 2847	4.2	71	
470	A new boson with a mass of 125 GeV observed with the CMS experiment at the Large Hadron Collider. <i>Science</i> , 2012 , 338, 1569-75	33.3	71	
469	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	70	
468	Measurement of the single-top-quark t-channel cross section in pp collisions at (sqrt{s}=7) TeV. Journal of High Energy Physics, 2012 , 2012, 1	5.4	70	
467	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> , 2011 , 2011, 1	5.4	70	
466	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> , 2015 , 2015, 1	5.4	69	
465	J/land (PS) production in pp collisions at (sqrt {s} = 7{text{Tev}}). Journal of High Energy Physics, 2012 , 2012, 1	5.4	69	
464	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at (sqrt{s_{mathrm{NN}}} = 5.02) (,text {TeV}). European Physical Journal C, 2014 , 74, 1	4.2	67	
463	Study of Z Boson Production in PbPb Collisions at B (NN)=2.76 TeV. <i>Physical Review Letters</i> , 2011 , 106, 212301	7.4	66	
462	Search for anomalous production of multilepton events in pp collisions at (sqrt $\{s\}$ = 7,TeV). Journal of High Energy Physics, 2012 , 2012, 1	5.4	65	
461	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> , 2017 , 2017, 1	5.4	64	

460	Measurement of the (mathrm $\{t\}$ overline $\{mathrm\{t\}\}$) production cross section in the dilepton channel in pp collisions at (sqrt $\{s\}=7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	64
459	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> , 2018 , 2018, 1	5.4	63
458	Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at sqrt[s]=13 TeV. <i>Physical Review Letters</i> , 2018 , 120, 221801	7.4	62
457	Observation of the associated production of a single top quark and a W boson in pp collisions at sqrt[s] = 8 TeV. <i>Physical Review Letters</i> , 2014 , 112, 231802	7.4	62
456	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. <i>European Physical Journal C</i> , 2020 , 80, 4	4.2	61
455	Study of double parton scattering using W + 2-jet events in proton-proton collisions at (sqrt $\{s\}$) = 7 TeV. Journal of High Energy Physics, 2014 , 2014, 1	5.4	61
454	Search for a charged Higgs boson in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	61
453	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at (sqrt{{{s_{NN }}}}) =2.76 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	60
452	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> , 2017 , 77, 252	4.2	58
451	Search for top-quark partners with charge 5/3 in the same-sign dilepton final state. <i>Physical Review Letters</i> , 2014 , 112, 171801	7.4	58
450	Search for anomalous (toverline t) production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	57
449	Observation of a new B baryon. <i>Physical Review Letters</i> , 2012 , 108, 252002	7.4	57
448	Study of exclusive two-photon production of W+WDn pp collisions at (sqrt{s}=7) TeV and constraints on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	56
447	Measurement of the W+Wltross section in pp collisions at (sqrt{s} = 7mbox{ TeV}) and limits on anomalous WWland WWZ couplings. <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	56
446	Long-range and short-range dihadron angular correlations in central PbPb collisions at (sqrt {{{s_{text{NN}}}}}) = 2.76 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	56
445	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> , 2015 , 75, 251	4.2	55
444	Measurement of the pseudorapidity and centrality dependence of the transverse energy density in Pb-Pb collisions at (ቴ(NN))=2.76 TeV. <i>Physical Review Letters</i> , 2012 , 109, 152303	7.4	55
443	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> , 2017 , 77, 710	4.2	54

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442	Search for signatures of extra dimensions in the diphoton mass spectrum at the large hadron collider. <i>Physical Review Letters</i> , 2012 , 108, 111801	7.4	53
441	Search for ({text{B}}_{text{s}}^0) - 县	5.4	52
440	Search for a light pseudoscalar Higgs boson in the dimuon decay channel in pp collisions at ☐ = 7 TeV. <i>Physical Review Letters</i> , 2012 , 109, 121801	7.4	51
439	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> , 2015 , 75, 147	4.2	50
438	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 mathrm{TeV}) and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 1	4.2	50
437	Search for narrow and broad dijet resonances in proton-proton collisions at (sqrt{s}=13) TeV and constraints on dark matter mediators and other new particles. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	50
436	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> , 2013 , 73, 2469	4.2	49
435	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> , 2015 , 75, 237	4.2	48
434	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> , 2014 , 2014, 1	5.4	48
433	Measurement of the ($\{\{rm t\}bar\{rm t\}\}$) 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> , 2011 , 2011, 1	5.4	48
432	Measurement of the B0 production cross section in pp collisions at sqrt[s] = 7 TeV. <i>Physical Review Letters</i> , 2011 , 106, 252001	7.4	48
431	Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	46
430	Search for flavor-changing neutral currents in top-quark decays $t - \mathbb{Z}q$ in pp collisions at $sqrt[s] = 8$ TeV. <i>Physical Review Letters</i> , 2014 , 112, 171802	7.4	46
429	Measurement of the relative prompt production rate of and in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2012 , 72, 2251	4.2	46
428	Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	45
427	Exclusive $\Box \Rightarrow \Box$ in proton-proton collisions at (sqrt {s} = {7}) TeV. Journal of High Energy Physics, 2012 , 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> , 2014 , 2014, 1	5.4	45
425	Search for exclusive or semi-exclusive [production and observation of exclusive and semi-exclusive e+elproduction in pp collisions at (sqrt{s}=7) TeV. Journal of High Energy Physics, 2012, 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> , 2013 , 73, 2283	4.2	45
423	Search for supersymmetry in pp collisions at I TeV in events with two photons and missing transverse energy. <i>Physical Review Letters</i> , 2011 , 106, 211802	7.4	45
422	Measurement of the X(3872) production cross section via decays to J/II- IIIn pp collisions at (sqrt{s}=7) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	44
421	Search for heavy bottom-like quarks in 4.9 fb \blacksquare of pp collisions at (sqrt {s} = 7) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	44
420	Charged particle transverse momentum spectra in pp collisions at (sqrt {s} = 0.9) and 7 TeV. Journal of High Energy Physics, 2011 , 2011, 1	5.4	44
419	Search for B(s)(0) -知 🛘 and B(0) -知 🖟 decays in pp collisions at sqrt[s] = 7 TeV. <i>Physical Review Letters</i> , 2011 , 107, 191802	7.4	44
418	Measurement of the (toverline{t}) production cross section in the dilepton channel in pp collisions at (sqrt{s}) = 8 TeV . Journal of High Energy Physics, 2014 , 2014, 1	5.4	43
417	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> , 2013 , 2013, 1	5.4	43
416	Search for leptonic decays of W? bosons in pp collisions at (sqrt $\{s\} = \{7\}$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	43
415	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> , 2014 , 2014, 1	5.4	42
414	Search for additional neutral MSSM Higgs bosons in the III in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	42
413	Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeVand determination of the strong coupling constant in the TeVange. <i>European Physical Journal C</i> , 2015 , 75, 186	4.2	41
412	Measurement of the inelastic proton-proton cross section at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	41
411	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	40
410	Studies of jet mass in dijet and W/Z + jet events. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	39
409	Study of the underlying event at forward rapidity in pp collisions at (sqrt{s}=0.9,2.76,;mathrm{and};7;mathrm{TeV}). <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	39
408	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> , 2013 , 2013, 1	5.4	39
407	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> , 2011 , 2011, 1	5.4	39

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406	Search for natural and split supersymmetry in proton-proton collisions at (sqrt{s}=13) TeV in final states with jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	39	
405	Measurement of Prompt D^{0} Meson Azimuthal Anisotropy in Pb-Pb Collisions at sqrt[s_{NN}]=5.02 TeV. <i>Physical Review Letters</i> , 2018 , 120, 202301	7.4	39	
404	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> , 2014 , 2014, 1	5.4	38	
403	Search for microscopic black holes in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	38	
402	Measurement of prompt (LS) to J/Gield ratios in Pb-Pb and p-p collisions at sqrt[sNN]=2.76 TeV. <i>Physical Review Letters</i> , 2014 , 113, 262301	7.4	38	
401	Search for top squark and Higgsino production using diphoton Higgs boson decays. <i>Physical Review Letters</i> , 2014 , 112, 161802	7.4	38	
400	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> , 2011 , 2011, 1	5.4	38	
399	Measurement of the [Formula: see text] cross section in pp collisions at [Formula: see text] TeVand limits on anomalous gauge couplings. <i>European Physical Journal C</i> , 2016 , 76, 401	4.2	38	
398	Measurement of the B $^{\{\{\}\}}$ Meson Nuclear Modification Factor in Pb-Pb Collisions at sqrt[s_{NN}]=5.02 TeV. <i>Physical Review Letters</i> , 2017 , 119, 152301	7.4	37	
397	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> , 2015 , 75, 288	4.2	37	
396	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> , 2016 , 76, 469	4.2	37	
395	Jet production rates in association with W and Z bosons in pp collisions at (sqrt $\{s\} = 7 \{\text{text}\{\text{TeV}\}\}$). Journal of High Energy Physics, 2012 , 2012, 1	5.4	37	
394	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> , 2013 , 73, 2494	4.2	37	
393	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> , 2013 , 2013, 1	5.4	37	
392	Measurement of pseudorapidity distributions of charged particles in proton β roton collisions at (sqrt{s} = 8) TeV by the CMS and TOTEM experiments. <i>European Physical Journal C</i> , 2014 , 74, 1	4.2	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> , 2018 , 2018, 1	5.4	37	
390	Measurement of prompt and nonprompt charmonium suppression in collisions at 5.02. European Physical Journal C, 2018 , 78, 509	4.2	37	
389	Search for the X(5568) State Decaying into B_{s}^{0} $^{\mathbb{H}}$ in Proton-Proton Collisions at sqrt[s]=8 TeV. <i>Physical Review Letters</i> , 2018 , 120, 202005	7.4	36	

388	Measurement of the top-quark mass in (mathrm $\{t\}$) overline $\{mathrm\{t\}\}$) events with dilepton final states in pp collisions at (sqrt $\{s\}$ =7 mbox $\{TeV\}$). European Physical Journal C, 2012 , 72, 1	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> , 2016 , 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> , 2015 , 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> , 2016 , 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> , 2013 , 2013, 1	5.4	35
383	Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	35
382	Measurement of the (mathrm{{tbar{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> , 2011 , 71, 1	4.2	35
381	Alignment of the CMS silicon tracker during commissioning with cosmic rays. <i>Journal of Instrumentation</i> , 2010 , 5, T03009-T03009	1	35
380	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> , 2017 , 2017, 1	5.4	34
379	Search for new physics in same-sign dilepton events in proton-proton collisions at [Formula: see text]. European Physical Journal C, 2016 , 76, 439	4.2	34
378	Search for microscopic black holes in pp collisions at (sqrt $\{s\} = \{\text{text}\{7\text{TeV}\}\}\)$). Journal of High Energy Physics, 2012, 1	5.4	34
377	Search for heavy stable charged particles in pp collisions at (sqrt $\{s\} = 7; \{\text{text}\{\text{TeV}\}\}$). Journal of High Energy Physics, 2011 , 2011, 1	5.4	34
376	Identification and filtering of uncharacteristic noise in the CMS hadron calorimeter. <i>Journal of Instrumentation</i> , 2010 , 5, T03014-T03014	1	34
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374	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> , 2015 , 2015, 1	5.4	33
373	Search for a light charged Higgs boson decaying to (mathrm{c}overline{mathrm{s}}) in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1-37	5.4	33
372	Identification techniques for highly boosted W bosons that decay into hadrons. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	32
371	Search for resonances in the dilepton mass distribution in pp collisions at (sqrt {s} = 7) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	32

370	Measurement of the Drell-Yan cross section in pp collisions at (sqrt $\{s\} = 7$) TeV. Journal of High Energy Physics, 2011 , 2011, 1	5.4	32	
369	Observation of Two Excited B_{c}^{+} States and Measurement of the B_{c}^{+}(2S) Mass in pp Collisions at $sqrt[s]=13 \ TeV$. <i>Physical Review Letters</i> , 2019 , 122, 132001	7.4	31	
368	Performance and operation of the CMS electromagnetic calorimeter. <i>Journal of Instrumentation</i> , 2010 , 5, T03010-T03010	1	31	
367	Measurement of the (mathrm{t}overline{mathrm{t}}) production cross section in the elthannel in proton-proton collisions at (sqrt{s}=7) and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1	5.4	30	
366	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	30	
365	Measurement of the top-quark mass in (mathrm{t}overline{mathrm{t}}) events with lepton+jets final states in pp collisions at (sqrt{s}=7) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	30	
364	Measurement of the underlying event in the Drell \mathbb{F} an process in proton \mathbb{F} roton collisions at (sqrt{s} = 7~mbox{TeV}). European Physical Journal C, 2012 , 72, 1	4.2	30	
363	Measurements of the production cross section and the branching fraction, and constraints on anomalous triple gauge couplings at. <i>European Physical Journal C</i> , 2018 , 78, 165	4.2	29	
362	Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or $\mathbb B$ b-quark jets in 7 TeV pp collisions using the variable $\mathbb B$ T. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	29	
361	Observation of Y(1S) pair production in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	29	
360	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> , 2014 , 74, 3060	4.2	29	
359	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> , 2014 , 74, 3129	4.2	29	
358	Performance of CMS muon reconstruction in cosmic-ray events. <i>Journal of Instrumentation</i> , 2010 , 5, TO)3 <u>0</u> 22-T	0 3 922	
357	Search for vector-like T and B quark pairs in final states with leptons at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	29	
356	Search for heavy Majorana neutrinos in $e \oplus e \oplus + jets$ and $e \oplus \oplus + jets$ events in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	28	
355	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	28	
354	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	28	
353	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> , 2019 , 79, 368	4.2	27	

352	Measurement of the Splitting Function in pp and Pb-Pb Collisions at sqrt[s_{NN}]=5.02 TeV. <i>Physical Review Letters</i> , 2018 , 120, 142302	7.4	27
351	Evidence for exclusive 日秋 + 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> , 2016 , 2016, 1	5.4	27
350	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at (sqrt{s}=7;TeV). Journal of High Energy Physics, 2012 , 2012, 1	5.4	27
349	Performance of Glass Resistive Plate Chambers for a high-granularity semi-digital calorimeter. Journal of Instrumentation, 2011 , 6, P02001-P02001	1	27
348	Measurement of ($\{\text{text}\{B\}\}\}$) angular correlations based on secondary vertex reconstruction at ($\text{sqrt}\{s\} = 7,\{\text{text}\{\text{TeV}\}\}$). <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	27
347	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> , 2017 , 77, 269	4.2	26
346	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> , 2013 , 2013, 1	5.4	26
345	Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at (sqrt{s}=7) and 8 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	26
344	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> , 2015 , 2015, 1	5.4	26
343	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> , 2011 , 2011, 1	5.4	26
342	Measurement of the W-boson helicity in top-quark decays from (mathrm{t}overline{mathrm{t}}) production in lepton+jets events in pp collisions at (sqrt{s}=7) TeV. Journal of High Energy Physics, 2013, 2013, 1	5.4	25
341	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> , 2017 , 2017, 1	5.4	25
340	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> , 2015 , 75, 511	4.2	25
339	Search for resonant (mathrm{t}overline{mathrm{t}}) production in lepton+jets events in pp collisions at (sqrt{s}=7) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	25
338	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. <i>European Physical Journal C</i> , 2016 , 76, 371	4.2	25
337	Search for charged Higgs bosons in the H⊞ -暑⊞ecay channel in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	24
336	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> , 2015 , 75, 325	4.2	24
335	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> , 2020 , 80, 75	4.2	24

334	Measurement of inclusive jet production and nuclear modifications in pPb collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 372	4.2	24
333	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at [Formula: see text]. European Physical Journal C, 2013, 73, 2674	4.2	24
332	Alignment of the CMS tracker with LHC and cosmic ray data. <i>Journal of Instrumentation</i> , 2014 , 9, P0600	09 <u>1</u> P060	00294
331	Measurement of the Z/\mathbb{E} + b-jet cross section in pp collisions at (sqrt {s} = 7) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	24
330	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> , 2012 , 2012, 1	5.4	24
329	Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	24
328	Performance of the CMS Level-1 trigger in proton-proton collisions at \blacksquare = 13 TeV. <i>Journal of Instrumentation</i> , 2020 , 15, P10017-P10017	1	23
327	Search for W? - \pm b decays in the lepton + jets final state in pp collisions at (sqrt{s}) = 8 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	23
326	Search for third-generation scalar leptoquarks decaying to a top quark and a lepton at. <i>European Physical Journal C</i> , 2018 , 78, 707	4.2	23
325	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> , 2018 , 2018, 1	5.4	23
324	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> , 2017 , 77, 172	4.2	22
323	Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	22
322	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> , 2015 , 2015, 1	5.4	22
321	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]. European Physical Journal C, 2017, 77, 236	4.2	21
320	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> , 2017 , 77, 294	4.2	21
319	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> , 2015 , 75, 66	4.2	21
318	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> , 2016 , 2016, 1	5.4	21
317	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> , 2016 , 76, 128	4.2	21

316	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> , 2014 , 2014, 1	5.4	21
315	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> , 2014 , 74, 2758	4.2	21
314	Measurement of the (mathrm $\{t\}$ bar $\{mathrm\{t\}\}$) production cross section in the $\exists j$ ets channel in pp collisions at (sqrt $\{s\}=7$ mbox $\{TeV\}$). European Physical Journal C, 2013 , 73, 1	4.2	21
313	Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at sqrt[s]=13 TeV. <i>Physical Review Letters</i> , 2017 , 119, 111802	7.4	21
312	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> , 2017 , 77, 578	4.2	21
311	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> , 2017 , 2017, 1	5.4	21
310	Search for a Higgs boson in the decay channel $H - \mathbb{Z}Z(*) - \mathbb{Q}($ overline $\{\text{text}\{q\}\}\)$ \square in pp collisions at (sqrt $\{s\} = 7$)TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	21
309	Inclusive b-hadron production cross section with muons in pp collisions at (sqrt $\{s\} = 7; \{\text{text}\{\text{TeV}\}\}$). Journal of High Energy Physics, 2011 , 2011, 1	5.4	21
308	Search for large extra dimensions in the diphoton final state at the Large Hadron Collider. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	21
307	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> , 2016 , 2016, 1	5.4	21
306	Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	21
305	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at (sqrt $\{s\}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	20
304	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> , 2016 , 76, 379	4.2	20
303	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> , 2018 , 78, 140	4.2	20
302	Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	20
301	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> , 2017 , 77, 636	4.2	20
300	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> , 2016 , 2016, 1	5.4	20
299	Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at sqrt[s]=13 TeV. <i>Physical Review Letters</i> , 2018 , 121, 241802	7.4	20

298	Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	20
297	Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	20
296	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> , 2017 , 77, 15	4.2	19
295	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> , 2015 , 2015, 1	5.4	19
294	Search for resonant and nonresonant Higgs boson pair production in the (mathrm{b}overline{mathrm{b}}mathit{ell nu ell nu }) final state in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	19
293	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> , 2016 , 76, 237	4.2	19
292	Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	19
291	Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	19
29 0	Search for third-generation scalar leptoquarks in the tahannel in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	19
289	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> , 2011 , 2011, 1	5.4	19
288	Measurement of differential cross sections for boson production in association with jets in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 965	4.2	19
287	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> , 2018 , 78, 789	4.2	19
286	Search for lepton flavour violating decays of the Higgs boson to [and elin proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	19
285	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> , 2019 , 79, 364	4.2	18
284	Study of Z production in PbPb and pp collisions at (sqrt{s_{mathrm{NN}}}=2.76) TeV in the dimuon and dielectron decay channels. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	18
283	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> , 2016 , 2016, 1	5.4	18
282	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two leptons and two jets in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	18
281	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> , 2017 , 2017, 1	5.4	18

280	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	18
279	Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	18
278	Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	18
277	Search for (mathrm{t}overline{mathrm{t}}mathrm{H}) production in the (mathrm{H}to mathrm{b}overline{mathrm{b}}) decay channel with leptonic (mathrm{t}overline{mathrm{t}}) decays in proton-proton collisions at (sqrt{s}=13) TeV. Journal of High Energy Physics, 2019, 2019, 1	5.4	17
276	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at = 13. <i>European Physical Journal C</i> , 2018 , 78, 291	4.2	17
275	Measurement of the inclusive jet cross section in pp collisions at ($sqrt{s} = 2.76$, text {TeV}). European Physical Journal C, 2016 , 76, 1	4.2	17
274	Search for (mathrm{t}overline{mathrm{t}}) resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	17
273	Searches for pair production of third-generation squarks in [Formula: see text][Formula: see text] pp collisions. <i>European Physical Journal C</i> , 2017 , 77, 327	4.2	17
272	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> , 2015 , 2015, 1	5.4	17
271	Search for stopped long-lived particles produced in pp collisions at (sqrt $\{s\} = \{\text{text}\{7\text{TeV}\}\}$). Journal of High Energy Physics, 2012 , 2012, 1	5.4	17
270	Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in protonproton collisions at (sqrt{s} = 7 mathrm{TeV}). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	17
269	Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at (sqrt $\{s\} = 7$) TeV. Journal of High Energy Physics, 2011 , 2011, 1	5.4	17
268	Measurement of double-differential cross sections for top quark pair production in pp collisions at [Formula: see text][Formula: see text] and impact on parton distribution functions. <i>European Physical Journal C</i> , 2017 , 77, 459	4.2	16
267	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> , 2020 , 80, 3	4.2	16
266	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> , 2016 , 2016, 1	5.4	16
265	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into [leptons in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	16
264	Measurement of WZ and ZZ production in pp collisions at [Formula: see text] in final states with b-tagged jets. <i>European Physical Journal C</i> , 2014 , 74, 2973	4.2	16
263	Search for exotic resonances decaying into WZ/ZZ in pp collisions at (sqrt{s}=7) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	16

262	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> , 2015 , 2015, 1	5.4	16	
261	Precise mapping of the magnetic field in the CMS barrel yoke using cosmic rays. <i>Journal of Instrumentation</i> , 2010 , 5, T03021-T03021	1	16	
260	Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at (sqrt{mathrm{s}}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	16	
259	Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	16	
258	Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	16	
257	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> , 2018 , 2018, 1	5.4	16	
256	Measurements of (mathrm{t}overline{mathrm{t}}) differential cross sections in proton-proton collisions at (sqrt{mathrm{s}}=13) TeV using events containing two leptons. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	15	
255	Measurements of the associated production of a Z boson and b jets in pp collisions at. <i>European Physical Journal C</i> , 2017 , 77, 751	4.2	15	
254	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> , 2016 , 2016, 1	5.4	15	
253	Search for new particles decaying to a jet and an emerging jet. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	15	
252	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> , 2013 , 2013, 1	5.4	15	
251	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> , 2013 , 73, 2404	4.2	15	
250	Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	15	
249	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> , 2014 , 2014, 1	5.4	15	
248	Commissioning of the CMS experiment and the cosmic run at four tesla. <i>Journal of Instrumentation</i> , 2010 , 5, T03001-T03001	1	15	
247	Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at sqrt[s_{NN}]=5.02 TeV Using Isolated Photon-Tagged Jets. <i>Physical Review Letters</i> , 2018 , 121, 242301	7.4	15	
246	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> , 2018 , 2018, 1	5.4	15	
245	Measurement of the jet mass in highly boosted [Formula: see text] events from pp collisions at [Formula: see text][Formula: see text]. European Physical Journal C, 2017 , 77, 467	4.2	14	

244	Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	14
243	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> , 2016 , 76, 460	4.2	14
242	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> , 2016 , 2016, 1	5.4	14
241	Measurement of the (Lambda_{mathrm{b}}^0) lifetime in pp collisions at (sqrt{s}=7) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	14
240	Measurement of the (mathrm{t}overline{mathrm{t}}) production cross section in the all-jet final state in pp collisions at (sqrt{s}=7) TeV. Journal of High Energy Physics, 2013, 2013, 1	5.4	14
239	Measurement of the (mathrm{t}overline{mathrm{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> , 2017 , 2017, 1	5.4	14
238	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> , 2016 , 2016, 1	5.4	14
237	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> , 2018 , 2018, 1	5.4	14
236	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two [leptons in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
235	Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
234	Search for supersymmetry in events with a [lepton pair and missing transverse momentum in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
233	Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
232	Search for resonant (mathrm{t}overline{mathrm{t}}) production in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	13
231	Measurement of the ratio of the production cross sections times branching fractions of B \oplus - \Rightarrow / \oplus and B \oplus - \Rightarrow / \oplus and (mathrm{mathcal{B}}left({mathrm{B}}_{mathrm{c}}^{pm}to mathrm{J}/psi {pi}^{pm}{pm}{pi}^{mp}right)/mathrm{mathcal{B}}left({mathrm{B}}_{mathrm{c}}^{pm}to mathrm{pm}to	5.4	13
230	Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	13
229	Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 325	4.2	13
228	Measurement of exclusive Iphotoproduction in ultraperipheral pPb collisions at. <i>European Physical Journal C</i> , 2019 , 79, 702	4.2	13
227	Probing color coherence effects in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2014 , 74, 2901	4.2	13

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225	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> , 2012 , 2012, 1	5.4	13	
224	Measurement of the mass difference between top and antitop quarks. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	13	
223	Measurement of (hbox {t}{bar{hbox {t}}}) normalised multi-differential cross sections in ({text {p}}{text {p}}}) 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</i>	4.2	13	
222	Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	13	
221	Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at (sqrt{s_{mathrm{N};mathrm{N}}}=2.76) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	13	
220	Search for (mathrm{t}overline{mathrm{t}}mathrm{H}) production in the all-jet final state in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	13	
219	Measurement of the top quark mass with lepton+jets final states using collisions at. <i>European Physical Journal C</i> , 2018 , 78, 891	4.2	13	
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217	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> , 2019 , 79, 280	4.2	12	
216	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> , 2020 , 2020, 1	5.4	12	
215	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at sqrt[s]=13 TeV. <i>Physical Review Letters</i> , 2020 , 124, 131802	7.4	12	
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212	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> , 2013 , 2013, 1	5.4	12	
211	Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	12	
210	Search for quark compositeness in dijet angular distributions from pp collisions at (sqrt $\{s\} = 7\{\}$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	12	
209	Search for light resonances decaying into pairs of muons as a signal of new physics. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	12	

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205	Search for new physics in the monophoton final state in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	11
204	Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	11
203	Measurement of associated Z + charm production in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 287	4.2	11
202	Phenomenological MSSM interpretation of CMS searches in pp collisions at (sqrt{s}=7) and 8 TeV. Journal of High Energy Physics, 2016 , 2016, 1	5.4	11
201	Measurement of jet multiplicity distributions in [Formula: see text] production in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2014 , 74, 3014	4.2	11
200	Observation of Top Quark Production in Proton-Nucleus Collisions. <i>Physical Review Letters</i> , 2017 , 119, 242001	7.4	11
199	Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	11
198	Search for new physics with dijet angular distributions in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	11
197	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> , 2015 , 2015, 1	5.4	11
196	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> , 2012 , 2012, 1	5.4	11
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194	Search for the standard model Higgs boson in the $H - \mathbb{Z}Z - \mathbb{Z}$ - \mathbb{Z} - Z	5.4	11
193	Measurements of differential Z boson production cross sections in proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	11
192	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at 🛭 = 13 TeV. <i>Journal of Instrumentation</i> , 2020 , 15, P02027-P02027	1	11
191	Charged-particle nuclear modification factors in XeXe collisions at (sqrt{s_{mathrm{NN}}} = 5.44) TeV. Journal of High Energy Physics, 2018 , 2018, 1	5.4	11

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184	Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at (sqrt{s}=8) TeV using H-¾WW decays. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	10
183	Search for excited leptons in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	10
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180	Measurements of jet charge with dijet events in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	10
179	Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	10
178	Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	10
177	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> , 2012 , 2012, 1	5.4	10
176	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> , 2011 , 2011, 1	5.4	10
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174	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> , 2016 , 2016, 1	5.4	10
173	Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	10

172	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> , 2018 , 1	5.4	10
171	Measurement of associated production of a boson and a charm quark in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 269	4.2	9
170	Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	9
169	A search for the standard model Higgs boson decaying to charm quarks. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	9
168	Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	9
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164	Search for top quark partners with charge 5/3 in the same-sign dilepton and single-lepton final states in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	9
163	Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	9
162	Measurement of electroweak-induced production of Wilwith two jets in pp collisions at (sqrt{s}=8) TeV and constraints on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	9
161	Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at (sqrt $\{s\}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	9
160	Search for a light pseudoscalar Higgs boson in the boosted If in al state in proton-proton collisions at (sqrt $\{s\}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	9
159	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> , 2016 , 76, 317	4.2	9
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154	Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and pp Collisions at sqrt[s_{NN}]=5.02 TeV. <i>Physical Review Letters</i> , 2019 , 122, 152001	7.4	8
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152	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at (sqrt{mathrm{s}}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
151	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at (sqrt{s_{mathrm{NN}}}=5.02) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	8
150	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> , 2016 , 2016, 1	5.4	8
149	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> , 2019 , 2019, 1	5.4	8
148	Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	8
147	Measurement of the top quark mass using single top quark events in proton-proton collisions at [Formula: see text][TeV. European Physical Journal C, 2017, 77, 354	4.2	8
146	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> , 2017 , 77, 746	4.2	8
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143	Search for electroweak production of a vector-like T quark using fully hadronic final states. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
142	Search for physics beyond the standard model in multilepton final states in proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
141	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> , 2018 , 2018, 1	5.4	8
140	Search for electroweak production of charginos in final states with two leptons in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
139		5·4 5·4	7
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135	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> , 2016 , 2016, 1	5.4	7
134	Measurement of top quark polarisation in t-channel single top quark production. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	7
133	Jet properties in PbPb and pp collisions at (sqrt{s_{mathrm{N};mathrm{N}}}=5.02) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
132	Searches for W? bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
131	Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
130	Measurement of the Z[production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	7
129	Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at (sqrt $\{s\}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	7
128	Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	7
127	Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at sqrt[s]=13 TeV. <i>Physical Review Letters</i> , 2019 , 123, 231803	7.4	7
126	Search for dark matter produced in association with a leptonically decaying boson in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 13	4.2	7
125	Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at (sqrt{s}=8) and 13 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
124	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> , 2018 , 2018, 1	5.4	7
123	Search for a heavy resonance decaying into a Z boson and a Z or W boson in 2½q final states at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
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121	Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
120	Precision luminosity measurement in proton-proton collisions at in 2015 and 2016 at CMS. <i>European Physical Journal C</i> , 2021 , 81, 800	4.2	7
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109	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> , 2016 , 2016, 1	5.4	6
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107	Search for new physics in top quark production in dilepton final states in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 886	4.2	6
106	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> , 2018 , 2018, 1	5.4	6
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103	Search for a heavy resonance decaying into a Z boson and a vector boson in the (nu overline{nu}mathrm{q}overline{mathrm{q}}) final state. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	6
102	Measurement of the mass of the top quark in decays with a J/Imeson in pp collisions at 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	5
101	Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	5

100	Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	5
99	Comparison of the Z/\mathbb{F} + jets to \mathbb{F} jets cross sections in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	5
98	Performance of CMS hadron calorimeter timing and synchronization using test beam, cosmic ray, and LHC beam data. <i>Journal of Instrumentation</i> , 2010 , 5, T03013-T03013	1	5
97	Measurement of energy flow at large pseudorapidities in pp collisions at (sqrt $\{s\}$ = 0. $\{9\}$) and 7 TeV 2011 , 2011, 1		5
96	Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	5
95	Measurements of production cross sections and constraints on anomalous triple gauge couplings at. <i>European Physical Journal C</i> , 2021 , 81, 200	4.2	5
94	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> , 2021 , 81, 378	4.2	5
93	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> , 2021 , 81, 488	4.2	5
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91	Search for top squark pair production using dilepton final states in collision data collected at. <i>European Physical Journal C</i> , 2021 , 81, 3	4.2	5
90	Measurement of the groomed jet mass in PbPb and pp collisions at (sqrt{s_{mathrm{NN}}}=5.02) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	5
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88	Measurement of the cross section in pp collisions at and validation of lepton analysis techniques. European Physical Journal C, 2018 , 78, 708	4.2	5
87	Search for a low-mass # resonance in association with a bottom quark in proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	4
86	Search for the pair production of light top squarks in the e $\frac{1}{2}$ final state in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	4
85	Search for nonresonant Higgs boson pair production in the (mathrm{b}overline{mathrm{b}}mathrm{b}overline{mathrm{b}}) final state at (sqrt{s}) = 13 TeV. Journal of High Energy Physics, 2019, 2019, 1	5.4	4
84	Study of the underlying event in top quark pair production in collisions at 13. <i>European Physical Journal C</i> , 2019 , 79, 123	4.2	4
83	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> , 2015 , 75, 302	4.2	4

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82	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at. <i>European Physical Journal C</i> , 2018 , 78, 242	4.2	4
81	Pseudorapidity distributions of charged hadrons in proton-lead collisions at (sqrt{s_{mathrm{NN}}}=5.02) and 8.16 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	4
80	Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	4
79	Search for a W? boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	4
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77	Search for CP violation in (toverline{t}) production and decay in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	4
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73	Reconstruction of cosmic and beam-halo muons with the CMS detector. <i>European Physical Journal C</i> , 2008 , 56, 449-460	4.2	4
72	Measurement of differential cross sections and charge ratios for -channel single top quark production in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 370	4.2	4
71	Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	4
70	Observation of the B_{s}^{0}-X(3872)? Decay. <i>Physical Review Letters</i> , 2020 , 125, 152001	7.4	4
69	Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	4
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67	Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at (sqrt{s}) = 13 TeV via Higgs boson decays to [leptons. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	3
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65	Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at (sqrt $\{s\}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	3

64	Measurement of the inclusive (mathrm{t}overline{mathrm{t}}) cross section in pp collisions at (sqrt{s}=5.02) TeV using final states with at least one charged lepton. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	3
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55	Investigation into the event-activity dependence of $?(nS)$ relative production in proton-proton collisions at $(sqrt\{s\}) = 7$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	3
54	Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at sqrt[s_{NN}]=5.02 TeV. <i>Physical Review Letters</i> , 2020 , 125, 102001	7.4	3
53	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at ($sqrt\{mathrm\{s\}\}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	3
52	Event shape variables measured using multijet final states in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	3
51	Search for lepton-flavor violating decays of heavy resonances and quantum black holes to elfinal states in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	3
50	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> , 2021 , 81, 723	4.2	3
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48	Search for decays of the 125 GeV Higgs boson into a Z boson and a lbr? meson. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	2
47	Determination of the strong coupling constant $\exists S(mZ)$ from measurements of inclusive $W\exists$ and Z boson production cross sections in proton-proton collisions at ($sqrt\{mathrm\{s\}\}$) = 7 and 8 TeV. Journal of High Energy Physics, 2020 , 2020, 1	5.4	2

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46	Measurement of differential cross sections in the kinematic angular variable ?* for inclusive Z boson production in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	2
45	Search for dark matter particles in proton-proton collisions at (sqrt{s}=8) TeV using the razor variables. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	2
44	Search for W? -*b in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	2
43	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> , 2016 , 2016, 1	5.4	2
42	Inclusive search for supersymmetry in pp collisions at (sqrt{s}=13) TeV using razor variables and boosted object identification in zero and one lepton final states. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2
41	Search for excited leptons in If inal states in proton-proton collisions at (sqrt{mathrm{s}}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2
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38	Calibration of the CMS drift tube chambers and measurement of the drift velocity with cosmic rays. <i>Journal of Instrumentation</i> , 2010 , 5, T03016-T03016	1	2
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36	CMS data processing workflows during an extended cosmic ray run. <i>Journal of Instrumentation</i> , 2010 , 5, T03006-T03006	1	2
35	Search for supersymmetry using Higgs boson to diphoton decays at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2
34	Observation of the Production of Three Massive Gauge Bosons at sqrt[s]=13 TeV. <i>Physical Review Letters</i> , 2020 , 125, 151802	7.4	2
33	The production of isolated photons in PbPb and pp collisions at (sqrt{s_{mathrm{NN}}}) = 5.02 TeV. Journal of High Energy Physics, 2020 , 2020, 1	5.4	2
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30	Study of central exclusive production in proton-proton collisions at and 13TeV. <i>European Physical Journal C</i> , 2020 , 80, 718	4.2	2
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28	Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2
27	Search for W Boson Decays to Three Charged Pions. <i>Physical Review Letters</i> , 2019 , 122, 151802	7.4	1
26	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> , 2020 , 2020, 1	5.4	1
25	Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at ($sqrt{s}$) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	1
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23	Construction of a technological semi-digital hadronic calorimeter prototype for future linear collider experiments 2011 ,		1
22	Study of the ($\{mathrm\{B\}\}^{+}$ to $mathrm\{J\}$ /uppsi overline $\{Lambda\}$ mathrm $\{p\}$) decay in proton-proton collisions at ($sqrt\{s\}$) = 8 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	1
21	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> , 2020 , 2020, 1	5.4	1
20	Measurement of the cross section for (mathrm{t}overline{mathrm{t}}) production with additional jets and b jets in pp collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	1
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17	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> , 2022 , 2022, 1	5.4	1
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13	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> , 2022 , 2022, 1	5.4	O
12	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at European Physical Journal C, 2022 , 82, 153	4.2	0
11	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at European Physical Journal C, 2022 , 82, 290	4.2	O

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10	momentum in proton-proton collisions at \$\$ sqrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	О
9	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> , 2022 , 2022, 1	5.4	O
8	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> , 2022 , 2022, 1	5.4	O
7	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> , 2022 , 2022, 1	5.4	O
6	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> , 2022 , 2022, 1	5.4	O
5	Search for electroweak production of charginos and neutralinos in proton-proton collisions at \$\$ sqrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	O
4	Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	
3	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> , 2015 , 2015, 1	5.4	
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1	Measurement of the inclusive $\$\$$ mathrm{t}overline{mathrm{t}} $\$\$$ production cross section in proton-proton collisions at $\$\$$ sqrt{s} $\$\$$ = 5.02 TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	