# Alexander Tapper

### List of Publications by Citations

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 534<br/>papers
 14,395<br/>citations
 57<br/>h-index
 93<br/>g-index

 561<br/>ext. papers
 16,946<br/>ext. citations
 4.9<br/>avg, IF
 1.36<br/>L-index

#	Paper	IF	Citations
534	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
533	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
532	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, <b>2012</b> , 72, 1	4.2	316
531	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, <b>2013</b> , 2013, 1	5.4	261
530	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
529	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
528	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
527	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
526	Suppression of non-prompt J/ $\square$ prompt J/ $\square$ and ( Upsilon )(1S) in PbPb collisions at ( sqrt {{{s_{text{NN}}}}} = 2.76 ) TeV. Journal of High Energy Physics, <b>2012</b> , 2012, 1	5.4	184
525	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
524	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> , <b>2013</b> , 73, 1	4.2	162
523	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at (sqrt{s_{NN}}= 2.76 mbox{TeV}). European Physical Journal C, <b>2012</b> , 72, 1	4.2	158
522	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
521	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
520	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
519	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
518	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 $\}$ ). European Physical Journal C, <b>2012</b> , 72, 1	4.2	133

517	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
516	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
515	Prompt and non-prompt J/ $\mathbb{I}$ production in pp collisions at (sqrt{s} = 7) TeV. European Physical Journal C, <b>2011</b> , 71, 1	4.2	118
514	A search for a doubly-charged Higgs boson in pp collisions at ( $sqrt{s} = 7 mbox{TeV}$ ). European Physical Journal C, <b>2012</b> , 72, 1	4.2	111
513	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
512	Measurement of differential top-quark-pair production cross sections in pp collisions at $(sqrt\{s\} = 7 mathrm\{TeV\})$ . European Physical Journal C, <b>2013</b> , 73, 1	4.2	102
511	Evidence for the 125 GeV Higgs boson decaying to a pair of [leptons. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	101
510	Search for a light charged Higgs boson in top quark decays in pp collisions at (sqrt {s} = 7;TeV). Journal of High Energy Physics, <b>2012</b> , 2012, 1	5.4	101
509	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 11	6541219	2 99
508	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
507	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
506	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
505	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
504	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at (sqrt {{{s_{kn}}}}} = 2.76) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	87
503	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
502	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
501	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
500	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

499	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
498	Searches for invisible decays of the Higgs boson in pp collisions at (sqrt{s}) = 7, 8, and 13 TeV. Journal of High Energy Physics, <b>2017</b> , 2017, 1	5.4	74
497	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
496	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
495	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
494	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
493	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
492	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
491	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
490	J/land (PS) production in pp collisions at (sqrt {s} = 7{text{Tev}}). Journal of High Energy Physics, 2012, 2012, 1	5.4	69
489	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, <b>2014</b> , 74, 1	4.2	67
488	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
487	Charged-particle nuclear modification factors in PbPb and pPb collisions at ( sqrt{s_{mathrm{N}}}=5.02 ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	64
486	Measurement of the (mathrm $\{t\}$ overline $\{mathrm\{t\}\}$ ) production cross section in the dilepton channel in pp collisions at (sqrt $\{s\}=7$ ) TeV. Journal of High Energy Physics, <b>2012</b> , 2012, 1	5.4	64
485	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
484	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
483	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
482	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

481	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	
480	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	
479	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	
478	Search for anomalous (toverline t) production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	57	
477	Study of exclusive two-photon production of W+Wlin 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	
476	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> , <b>2013</b> , 73, 1	4.2	56	
475	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> , <b>2011</b> , 2011, 1	5.4	56	
474	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	
473	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	
472	Search for ( {text{B}}_{text{s}}^0 ) - 母	5.4	52	
471	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	
470	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	
469	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> , <b>2018</b> , 2018, 1	5.4	50	
468	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	
467	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	
466	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	
465	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> , <b>2011</b> , 2011, 1	5.4	48	
464	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> , <b>2017</b> , 2017, 1	5.4	46	

463	Measurement of the relative prompt production rate of and in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2251	4.2	46
462	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
461	Search for new physics with jets and missing transverse momentum in pp collisions at (sqrt $\{s\} = 7$ ) TeV. Journal of High Energy Physics, <b>2011</b> , 2011, 1	5.4	46
460	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> , <b>2018</b> , 2018, 1	5.4	45
459	Exclusive $\square \oplus \square$ Improduction in proton-proton collisions at (sqrt {s} = {7}) TeV. Journal of High Energy Physics, <b>2012</b> , 2012, 1	5.4	45
458	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
457	Search for exclusive or semi-exclusive [production and observation of exclusive and semi-exclusive e+e[production in pp collisions at (sqrt{s}=7) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	45
456	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
455	Measurement of the X(3872) production cross section via decays to J/ IIIn pp collisions at (sqrt{s}=7) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	44
454	Search for heavy bottom-like quarks in 4.9 fb $\overline{0}$ of pp collisions at (sqrt {s} = 7) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	44
453	Charged particle transverse momentum spectra in pp collisions at (sqrt $\{s\}$ = 0.9) and 7 TeV. Journal of High Energy Physics, <b>2011</b> , 2011, 1	5.4	44
452	Measurement of the (toverline $\{t\}$ ) 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
451	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
450	Search for leptonic decays of W? bosons in pp collisions at ( sqrt $\{s\} = \{7\}$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	43
449	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
448	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> , <b>2018</b> , 2018, 1	5.4	42
447	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> , <b>2015</b> , 75, 186	4.2	41
446	Measurement of prompt J/[þair production in pp collisions at ( sqrt{s} ) = 7 Tev. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	41

445	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
444	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
443	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
442	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
441	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> , <b>2013</b> , 2013, 1	5.4	39
440	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
439	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
438	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> , <b>2018</b> , 2018, 1	5.4	39
437	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
436	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
435	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
434	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> , <b>2016</b> , 76, 401	4.2	38
433	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
432	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
431	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, <b>2012</b> , 2012, 1	5.4	37
430	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
429	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
428	Measurement of pseudorapidity distributions of charged particles in proton <b>p</b> roton 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

427	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
426	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
425	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, <b>2012</b> , 72, 1	4.2	36
424	First measurement of the underlying event activity at the LHC with ( $sqrt{s} = 0.9$ ) TeV. European Physical Journal C, <b>2010</b> , 70, 555-572	4.2	36
423	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
422	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
421	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
420	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
419	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> , <b>2017</b> , 2017, 1	5.4	35
418	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> , <b>2011</b> , 71, 1	4.2	35
417	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
416	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
415	Search for microscopic black holes in pp collisions at ( sqrt $\{s\} = \{\text{text}\{7\text{TeV}\}\}$ ). Journal of High Energy Physics, 2012, 2012, 1	5.4	34
414	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
413	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
412	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
411	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
410	Search for a light charged Higgs boson decaying to (mathrm{c}overline{mathrm{s}}) in pp collisions at (sqrt{s}=8) TeV. Journal of High Energy Physics, 2015, 2015, 1-37	5.4	33

# (2011-2014)

409	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	
408	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	
407	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	
406	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	
405	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. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	30	
404	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	
403	Inclusive b-jet production in pp collisions at (sqrt {s} = 7TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	30	
402	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	
401	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. Journal of High Energy Physics, 2012, 2012, 1	5.4	30	
400	Measurement of the underlying event in the Drell $\S$ an process in proton $\upbeta$ roton collisions at (sqrt{s} = 7~mbox{TeV}). European Physical Journal C, <b>2012</b> , 72, 1	4.2	30	
399	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	
398	Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or <b>B</b> b-quark jets in 7 TeV pp collisions using the variable <b>A</b> T. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	29	
397	Observation of Y(1S) pair production in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	29	
396	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	
395	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	
394	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> , <b>2018</b> , 2018, 1	5.4	29	
393	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> , <b>2016</b> , 2016, 1	5.4	28	
392	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. Journal of High Energy Physics, <b>2011</b> , 2011, 1	5.4	28	

391	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> , <b>2018</b> , 2018, 1	5.4	28
390	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
389	Evidence for exclusive 日本 + W [broduction 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
388	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at (sqrt{s}=7;TeV). Journal of High Energy Physics, <b>2012</b> , 2012, 1	5.4	27
387	Measurement of ( $\{\text{text}\{B\}\}\}$ overline $\{\text{text}\{B\}\}$ ) angular correlations based on secondary vertex reconstruction at ( $\text{sqrt}\{s\} = 7$ , $\{\text{text}\{\text{TeV}\}\}$ ). Journal of High Energy Physics, <b>2011</b> , 2011, 1	5.4	27
386	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
385	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
384	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> , <b>2017</b> , 2017, 1	5.4	26
383	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
382	The design, construction and performance of the MICE scintillating fibre trackers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 659, 136-153	1.2	26
381	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
<b>3</b> 80	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. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	25
379	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
378	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
377	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> , <b>2012</b> , 2012, 1	5.4	25
376	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
375	Search for charged Higgs bosons in the H⊞ -≯Idecay channel in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	24
374	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

373	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	
372	Measurement of inclusive jet production and nuclear modifications in pPb collisions at [Formula: see text]. European Physical Journal C, 2016, 76, 372	4.2	24	
371	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	
370	Measurement of the $Z/\mathbb{Z}$ + b-jet cross section in pp collisions at (sqrt {s} = 7) TeV. Journal of High Energy Physics, <b>2012</b> , 2012, 1	5.4	24	
369	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	
368	Search for the standard model Higgs boson in the H $-\mathbb{Z}Z$ $-\mathbb{Z}\mathbb{Z}$ [thannel in pp collisions at (sqrt {text{s}} = {7};{text{TeV}}). Journal of High Energy Physics, <b>2012</b> , 2012, 1	5.4	24	
367	Long-baseline neutrino oscillation physics potential of the DUNE experiment. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	24	
366	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> , <b>2018</b> , 2018, 1	5.4	24	
365	Performance of the CMS Level-1 trigger in proton-proton collisions at $\blacksquare$ = 13 TeV. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P10017-P10017	1	23	
364	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> , <b>2014</b> , 2014, 1	5.4	23	
363	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	
362	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	
361	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	
360	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> , <b>2018</b> , 2018, 1	5.4	22	
359	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	
358	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	
357	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	
356	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	

355	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
354	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
353	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
352	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
351	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
350	Measurement of the top-quark mass in all-jets [Formula: see text] events in pp collisions at [Formula: see text] TeV. European Physical Journal C, <b>2014</b> , 74, 2758	4.2	21
349	Measurement of the (mathrm $\{t\}$ bar $\{mathrm\{t\}\}$ ) production cross section in the $\exists$ jets channel in pp collisions at (sqrt $\{s\}=7$ mbox $\{TeV\}$ ). European Physical Journal C, <b>2013</b> , 73, 1	4.2	21
348	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
347	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
346	Search for a Higgs boson in the decay channel H $- \frac{1}{2} \mathbb{Z}(*) - \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) = \frac{1}{2} \mathbb{Q}(*) + \frac{1}{2} \mathbb{Q}(*$	5.4	21
345	Inclusive b-hadron production cross section with muons in pp collisions at (sqrt $\{s\} = 7; \{\text{text}\{\text{TeV}\}\}$ ). Journal of High Energy Physics, <b>2011</b> , 2011, 1	5.4	21
344	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
343	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
342	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> , <b>2019</b> , 2019, 1	5.4	21
341	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> , <b>2020</b> , 2020, 1	5.4	20
340	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
339	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
338	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

337	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	
336	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> , <b>2017</b> , 2017, 1	5.4	20	
335	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	
334	An FPGA based track finder for the L1 trigger of the CMS experiment at the High Luminosity LHC. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P12019-P12019	1	20	
333	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	
332	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> , <b>2018</b> , 2018, 1	5.4	20	
331	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> , <b>2018</b> , 2018, 1	5.4	20	
330	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	
329	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	
328	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> , <b>2018</b> , 2018, 1	5.4	19	
327	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	
326	Measurement of exclusive photoproduction from protons in Pb collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 277	4.2	19	
325	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> , <b>2017</b> , 2017, 1	5.4	19	
324	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> , <b>2017</b> , 2017, 1	5.4	19	
323	Search for third-generation scalar leptoquarks in the tithannel in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	19	
322	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	
321	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	
320	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	

319	Search for lepton flavour violating decays of the Higgs boson to Land ellin proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	19
318	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
317	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> , <b>2015</b> , 2015, 1	5.4	18
316	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
315	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two Ileptons and two jets in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	18
314	. Journal of High Energy Physics, <b>2014</b> , 2014, 1	5.4	18
313	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
312	Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying [leptons and two jets in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	18
311	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
310	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> , <b>2020</b> , 2020, 1	5.4	18
309	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> , <b>2018</b> , 2018, 1	5.4	18
308	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
307	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> , <b>2018</b> , 78, 291	4.2	17
306	Measurement of the inclusive jet cross section in pp collisions at ( $sqrt{s} = 2.76$ , text {TeV}). European Physical Journal C, <b>2016</b> , 76, 1	4.2	17
305	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> , <b>2017</b> , 2017, 1	5.4	17
304	Searches for pair production of third-generation squarks in [Formula: see text][Formula: see text] pp collisions. <i>European Physical Journal C</i> , <b>2017</b> , 77, 327	4.2	17
303	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
302	Search for stopped long-lived particles produced in pp collisions at (sqrt {s} = {text{7TeV}}). Journal of High Energy Physics, 2012, 2012, 1	5.4	17

301	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}). European Physical Journal C, 2012, 72, 1	4.2	17
300	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, <b>2011</b> , 2011, 1	5.4	17
299	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> , <b>2017</b> , 77, 459	4.2	16
298	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
297	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
296	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into Ileptons in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	16
295	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> , <b>2014</b> , 74, 2973	4.2	16
294	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
293	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
292	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> , <b>2020</b> , 2020, 1	5.4	16
291	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> , <b>2017</b> , 2017, 1	5.4	16
290	Supernova neutrino burst detection with the Deep Underground Neutrino Experiment. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	16
289	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> , <b>2018</b> , 2018, 1	5.4	16
288	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
287	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> , <b>2019</b> , 2019, 1	5.4	15
286	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
285	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
284	Search for new particles decaying to a jet and an emerging jet. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	15

283	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
282	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
281	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
280	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> , <b>2017</b> , 2017, 1	5.4	15
279	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
278	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
277	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
276	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> , <b>2019</b> , 2019, 1	5.4	14
275	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
274	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
273	Measurement of the ( Lambda_{mathrm{b}}^0 ) lifetime in pp collisions at ( sqrt{s}=7 ) TeV. Journal of High Energy Physics, 2013, 2013, 1	5.4	14
272	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. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	14
271	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> , <b>2017</b> , 2017, 1	5.4	14
270	Prospects for beyond the Standard Model physics searches at the Deep Underground Neutrino Experiment: DUNE Collaboration. <i>European Physical Journal C</i> , <b>2021</b> , 81, 322	4.2	14
269	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
268	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
267	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	14
266	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two ¶eptons in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	14

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261	Measurement of the ratio of the production cross sections times branching fractions of B $\exists$ c - $\exists$ / $\Box$ $\exists$ and B $\exists$ $\exists$ / $\Box$ $\exists$ 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 = 0.5	5.4	13	
260	mathrm{J}/psi {pi}^{pm}right) ) in pp collisions at ( sqrt{s}=7 ) TeV. Journal of High Energy Physics, Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at ( sqrt{s}=8 ) TeV. Journal of High Energy Physics, 2018, 2018, 1	5.4	13	
259	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	
258	Measurement of exclusive Iphotoproduction in ultraperipheral pPb collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 702	4.2	13	
257	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	
256	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	
255	Search for a fermiophobic Higgs boson in pp collisions at (sqrt $\{s\} = 7$ ) TeV. Journal of High Energy Physics, <b>2012</b> , 2012, 1	5.4	13	
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253	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	
252	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	
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249	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. Journal of High Energy Physics, 2018, 2018, 1	5.4	13	
248	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	

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246	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
245	Measurement of normalized differential ( mathrm{t}overline{mathrm{t}}) cross sections in the dilepton channel from pp collisions at ( sqrt{s}=13 ) TeV. Journal of High Energy Physics, 2018, 2018, 1	5.4	12
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242	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> , <b>2017</b> , 2017, 1	5.4	12
241	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
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239	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
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235	Search for single production of vector-like quarks decaying to a b quark and a Higgs boson. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	12
234	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> , <b>2017</b> , 2017, 1	5.4	11
233	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> , <b>2020</b> , 2020, 1	5.4	11
232	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
231	Phenomenological MSSM interpretation of CMS searches in pp collisions at (sqrt{s}=7) and 8 TeV. Journal of High Energy Physics, <b>2016</b> , 2016, 1	5.4	11
230	Measurement of jet multiplicity distributions in [Formula: see text] production in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3014	4.2	11

229	Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	11
228	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> , <b>2017</b> , 2017, 1	5.4	11
227	Search for new physics with dijet angular distributions in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	11
226	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
225	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
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223	Search for the standard model Higgs boson in the H - $ZZ$ -知田因ecay channel in pp collisions at (sqrt {s} = {7};{text{TeV}}). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	11
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221	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at ∃ = 13 TeV. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P02027-P02027	1	11
220	Charged-particle nuclear modification factors in XeXe collisions at (sqrt{s_{mathrm{NN}}} = 5.44) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	11
219	Search for ZIresonances 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
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216	Measurements of the pp -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
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214	A multi-dimensional search for new heavy resonances decaying to boosted , , or boson pairs in the dijet final state at 13 <i>European Physical Journal C</i> , <b>2020</b> , 80, 237	4.2	10
213	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
212	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

211	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, 249	93 <sup>4.2</sup>	10
210	Measurements of jet charge with dijet events in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	10
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208	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> , <b>2017</b> , 2017, 1	5.4	10
207	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
206	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
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203	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> , <b>2018</b> , 2018, 1	5.4	10
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197	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> , <b>2019</b> , 2019, 1	5.4	9
196	Search for associated production of dark matter with a Higgs boson decaying to (mathrm{b}overline{mathrm{b}}) or Lat (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	9
195	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> , <b>2017</b> , 2017, 1	5.4	9
194	Measurement of electroweak-induced production of WIwith two jets in pp collisions at (sqrt{s}=8) TeV and constraints on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	9

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187	Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8
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181	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
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179	Measurement of the top quark mass using single top quark events in proton-proton collisions at [Formula: see text] TeV. European Physical Journal C, <b>2017</b> , 77, 354	4.2	8
178	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
177	Search for electroweak production of a vector-like T quark using fully hadronic final states. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
176	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> , <b>2020</b> , 2020, 1	5.4	8

175	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
174	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> , <b>2017</b> , 2017, 1	5.4	7
173	Measurement of the production cross section of a W[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
172	Measurement of the energy density as a function of pseudorapidity in protonBroton collisions at (sqrt{s} =13,text {TeV}). European Physical Journal C, <b>2019</b> , 79, 1	4.2	7
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169	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
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167	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at (sqrt{mathrm{s}}) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	7
166	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
165	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
164	Jet properties in PbPb and pp collisions at ( sqrt{s_{mathrm{N};mathrm{N}}}=5.02 ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
163	Measurement of the semileptonic (mathrm{t}overline{mathrm{t}}) + [production cross section in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	7
162	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> , <b>2017</b> , 2017, 1	5.4	7
161	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> , <b>2017</b> , 2017, 1	5.4	7
160	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> , <b>2015</b> , 2015, 1	5.4	7
159	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> , <b>2019</b> , 2019, 1	5.4	7
158	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> , <b>2016</b> , 2016, 1	5.4	7

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157	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
156	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> , <b>2018</b> , 2018, 1	5.4	7
155	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
154	Search for a heavy resonance decaying into a Z boson and a Z or W boson in 20q final states at ( sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
153	Search for dark matter produced in association with a Higgs boson decaying to for II-IIIat (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
152	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> , <b>2018</b> , 2018, 1	5.4	7
151	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
150	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
149	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
148	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
147	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
146	Search for lepton flavour violating decays of a neutral heavy Higgs boson to hand elin proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	6
145	Measurement of dijet azimuthal decorrelation in ppleollisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 536	4.2	6
144	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}). European Physical Journal C, <b>2019</b> , 79, 1	4.2	6
143	Development and testing of an upgrade to the CMS level-1 calorimeter trigger. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, C01006-C01006	1	6
142	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
141	Search for the associated production of the Higgs boson with a top-quark pair <b>2014</b> , 2014, 1		6
140	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

139	Triggering on electrons, jets and tau leptons with the CMS upgraded calorimeter trigger for the LHC RUN II. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, C02008-C02008	1	6
138	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
137	Measurement of the differential Drell-Yan cross section in proton-proton collisions at ( sqrt{mathrm{s}} ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	6
136	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
135	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
134	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
133	Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
132	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> , <b>2018</b> , 2018, 1	5.4	6
131	Measurement of the mass of the top quark in decays with a J/lmeson in pp collisions at 8 TeV. Journal of High Energy Physics, <b>2016</b> , 2016, 1	5.4	5
130	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> , <b>2019</b> , 2019, 1	5.4	5
129	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> , <b>2017</b> , 2017, 1	5.4	5
128	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> , <b>2015</b> , 2015, 1	5.4	5
127	Measurement of energy flow at large pseudorapidities in pp collisions at ( sqrt $\{s\}$ = 0. $\{9\}$ ) and 7 TeV <b>2011</b> , 2011, 1		5
126	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> , <b>2020</b> , 2020, 1	5.4	5
125	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
124	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
123	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
122	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

121	Search for resonances decaying to a pair of Higgs bosons in the b( overline{mathrm{b}})q( overline{mathrm{q}}) If inal state in proton-proton collisions at ( sqrt{s} ) = 13 TeV. <i>Journal of High</i> $5.4$ <i>Energy Physics</i> , <b>2019</b> , 2019, 1	5
120	Search for top squark pair production using dilepton final states in collision data collected at.  European Physical Journal C, <b>2021</b> , 81, 3	5
119	Measurement of the groomed jet mass in PbPb and pp collisions at (sqrt{s_{mathrm{NN}}}=5.02) TeV. Journal of High Energy Physics, <b>2018</b> , 2018, 1	5
118	Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5
117	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
116	Search for a low-mass $\blacksquare$ resonance in association with a bottom quark in proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	4
115	Search for the pair production of light top squarks in the ell final state in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	4
114	Search for nonresonant Higgs boson pair production in the ( mathrm{b}overline{mathrm{b}} ) final state at ( sqrt{s} ) = 13 TeV. $5.4$ Journal of High Energy Physics, <b>2019</b> , 2019, 1	4
113	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
112	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
111	Evidence for (text {W}text {W}) production from double-parton interactions in protonproton collisions at (sqrt{s} = 13 ,text {TeV} ). European Physical Journal C, <b>2020</b> , 80, 1	4
110	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at.  European Physical Journal C, <b>2018</b> , 78, 242  4.2	4
109	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> , <b>2018</b> , 2018, 1	4
108	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</i> 5.4 <i>Physics</i> , <b>2018</b> , 2018, 1	4
107	An FPGA-based track finder for the L1 trigger of the CMS experiment at the high luminosity LHC <b>2016</b> ,	4
106	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> , <b>2019</b> , 2019, 1	4
105	Search for a heavy resonance decaying to a top quark and a vector-like top quark at (sqrt{s}=13) TeV. Journal of High Energy Physics, <b>2017</b> , 2017, 1	4
104	The CMS Level-1 Calorimeter Trigger for the LHC Run II. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, C01065-C01065	4

103	Search for high-mass ZIresonances in e+eland I I I I I I I I I I I I I I I I I I I	5.4	4
102	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> , <b>2017</b> , 2017, 1	5.4	4
101	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> , <b>2020</b> , 80, 370	4.2	4
100	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> , <b>2020</b> , 2020, 1	5.4	4
99	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
98	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
97	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> , <b>2016</b> , 2016, 1	5.4	4
96	Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at (sqrt{s}= 13~hbox {TeV}). European Physical Journal C, <b>2018</b> , 78, 1	4.2	4
95	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
94	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> , <b>2019</b> , 2019, 1	5.4	3
93	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
92	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> , <b>2020</b> , 2020, 1	5.4	3
91	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> , <b>2018</b> , 2018, 1	5.4	3
90	Search for ZZ resonances in the 2½ Final state in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	3
89	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
88	Search for top quark partners with charge 5/3 in proton-proton collisions at (sqrt{s}=13) TeV. Journal of High Energy Physics, 2017, 2017, 1	5.4	3
87	Study of hadronic event-shape variables in multijet final states in pp collisions at (sqrt{s} = 7) TeV. Journal of High Energy Physics, <b>2014</b> , 2014, 1	5.4	3
86	Measurement of the cross section for production of (boverline b X) decaying to muons in pp collisions at (sqrt $\{s\} = 7$ ) TeV. Journal of High Energy Physics, 2012, 2012, 1	5.4	3

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85	Measurements of the (mathrm {p}mathrm {p}rightarrow mathrm{ $Z$ } production cross section and the (mathrm{ $Z$ } rightarrow 4ell) branching fraction, and constraints on anomalous triple gauge couplings at (sqrt{s} = 13,text {TeV}) <b>2018</b> , 78, 1		3	
84	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	
83	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	
82	Dependence of inclusive jet production on the anti-kT distance parameter in pp collisions at ( sqrt{mathrm{s}}) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	3	
81	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> , <b>2020</b> , 2020, 1	5.4	3	
80	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	
79	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	
78	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> , <b>2021</b> , 2021, 1	5.4	3	
77	Event shape variables measured using multijet 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	3	
76	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> , <b>2018</b> , 2018, 1	5.4	3	
75	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	
74	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	
73	Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at ( $sqrt\{s\} = 13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2	
72	Search for decays of the 125 GeV Higgs boson into a Z boson and a lbr? meson. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2	
71	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	
70	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> , <b>2018</b> , 2018, 1	5.4	2	
69	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> , <b>2016</b> , 2016, 1	5.4	2	
68	Search for W? -*zb in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	2	

67	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
66	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> , <b>2019</b> , 2019, 1	5.4	2
65	Search for excited leptons in Ifinal states in proton-proton collisions at (sqrt{mathrm{s}}=13) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
64	Measurements of the pp ->Wland pp -코마ross sections and limits on anomalous quartic gauge couplings at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	2
63	The CMS Level-1 electron and photon trigger: for Run II of LHC. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, C02014-C02014	1	2
62	Search for new phenomena with multiple charged leptons in protonproton collisions at (sqrt{s}= 13) (,text {TeV}). European Physical Journal C, <b>2017</b> , 77, 1	4.2	2
61	Performance of the CMS Global Calorimeter Trigger. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 623, 546-54	8 <sup>1.2</sup>	2
60	Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the <b>B</b> b final state at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
59	Search for supersymmetry using Higgs boson to diphoton decays at (sqrt $\{s\}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
58	The production of isolated photons in PbPb and pp collisions at (sqrt{s_{mathrm{NN}}}) = 5.02 TeV. Journal of High Energy Physics, <b>2020</b> , 2020, 1	5.4	2
57	Bose-Einstein correlations of charged hadrons in proton-proton collisions at (sqrt{s}) = 13 TeV. Journal of High Energy Physics, <b>2020</b> , 2020, 1	5.4	2
56	Study of central exclusive production in proton-proton collisions at and 13TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 718	4.2	2
55	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
54	Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
53	Angular analysis of the decay B+ - $\times$ *(892)+ $\boxplus$ In proton-proton collisions at (sqrt{mathrm{s}}) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
52	L1 track finding for a time multiplexed trigger. <i>Nuclear Instruments and Methods in Physics Research,</i> Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, <b>2016</b> , 824, 268-269	1.2	2
51	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> , <b>2019</b> , 2019, 1	5.4	2
50	Search for supersymmetry in events with a photon, jets, -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

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49	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
48	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> , <b>2020</b> , 2020, 1	5.4	1
47	Search for top squark pair production in a final state with two tau leptons 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	Run 2 upgrades to the CMS Level-1 calorimeter trigger. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, C01051-C0	01/051	1
45	A novel FPGA-based track reconstruction approach for the level-1 trigger of the CMS experiment at CERN <b>2017</b> ,		1
44	CMS level-1 upgrade calorimeter trigger prototype development. <i>Journal of Instrumentation</i> , <b>2013</b> , 8, C02013-C02013	1	1
43	Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb[] of proton-proton collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
42	Measurements of the pp - $\frac{1}{2}$ Mand pp - $\frac{1}{2}$ Decrease sections at (sqrt{mathrm{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
41	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> , <b>2019</b> , 2019, 1	5.4	1
40	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
39	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> , <b>2020</b> , 2020, 1	5.4	1
38	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
37	Development and validation of HERWIGI7 tunes from CMS underlying-event measurements. <i>European Physical Journal C</i> , <b>2021</b> , 81, 312	4.2	1
36	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
35	Search for the lepton flavor violating decay $\mathbb{R}$ in proton-proton collisions at (sqrt{mathrm{s}}) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
34	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
33	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
32	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	O

31	Measurement of double-parton scattering in inclusive production of four jets with low 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	0
30	Study of quark and gluon jet substructure in Z+jet and dijet events from pp collisions. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	O
29	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	0
28	Observation of tW production in the single-lepton channel in pp collisions at (sqrt{s}) = 13 TeV. Journal of High Energy Physics, <b>2021</b> , 2021, 1	5.4	O
27	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	0
26	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	O
25	In-medium modification of dijets in PbPb collisions at ( sqrt{s_{mathrm{NN}}} ) = 5.02 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
24	Measurement of the top quark pair production cross section in dilepton final states containing one [lepton in pp collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	O
23	Search for a heavy vector resonance decaying to a lboson and a Higgs boson in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 688	4.2	0
22	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	O
21	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	0
20	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	O
19	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	0
18	Measurement of the inclusive and differential t\$\$ overline{t} \$\$\$\text{\$\text{\$}}\$ ross sections in the single-lepton channel and EFT interpretation at \$\$ \$qrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	O
17	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	0
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15	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	0
14	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	O

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13	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	О
12	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	O
11	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	О
10	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	Ο
9	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> , <b>2018</b> , 2018, 1	5.4	
8	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	
7	Calibration of the CMS hadron calorimeters using proton-proton collision data at ☐ = 13 TeV. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P05002-P05002	1	
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4	The CMS Level-1 trigger for LHC Run II. Journal of Instrumentation, 2018, 13, C02040-C02040	1	
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2	Measurement of prompt open-charm production cross sections in proton-proton collisions at \$\$ sqrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	
1	Measurement of the inclusive $$$ mathrm{t}overline{mathrm{t}} \$\$ production cross section in proton-proton collisions at $$$ sqrt{s} $$$ = 5.02 TeV. Journal of High Energy Physics, <b>2022</b> , 2022, 1	5.4	