

# Leonid Levchuk

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

525  
papers

14,237  
citations

57  
h-index

93  
g-index

553  
ext. papers

16,665  
ext. citations

5  
avg, IF

1.23  
L-index

#	Paper	IF	Citations
525	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
524	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
523	Study of high-p T charged particle suppression in PbPb compared to pp collisions at ( $\sqrt{s_{\text{NN}}}=2.76\text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	316
522	Observation of a new boson with mass near 125 GeV in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	261
521	Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 235	4.2	250
520	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
519	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
518	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
517	Suppression of non-prompt $J/\psi$ and ( $\Upsilon$ ) (1S) in PbPb collisions at ( $\sqrt{s_{\text{NN}}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	184
516	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
515	Search for top-squark pair production in the single-lepton final state in pp collisions at ( $\sqrt{s}=8\text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	162
514	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at ( $\sqrt{s_{\text{NN}}}=2.76\text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	158
513	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
512	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
511	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
510	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
509	Study of the inclusive production of charged pions, kaons, and protons in pp collisions at ( $\sqrt{s} = 0.9, 2.76, \text{ and } 7\text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	133

508	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
507	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
506	Prompt and non-prompt J/ $\psi$ production in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	118
505	A search for a doubly-charged Higgs boson in pp collisions at ( $\sqrt{s} = 7$ mbox{TeV}). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	111
504	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
503	Measurement of differential top-quark-pair production cross sections in pp collisions at ( $\sqrt{s} = 7$ mathrm{TeV}). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	102
502	Evidence for the 125 GeV Higgs boson decaying to a pair of $\tau$ leptons. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	101
501	Search for a light charged Higgs boson in top quark decays in pp collisions at ( $\sqrt{s} = 7$ ;TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	101
500	CMS tracking performance results from early LHC operation. <i>European Physical Journal C</i> , <b>2010</b> , 70, 116541192	4.2	99
499	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
498	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
497	Search for supersymmetry in hadronic final states using M T2 in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	92
496	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
495	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at ( $\sqrt{s_{\text{NN}}} = 2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	87
494	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
493	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
492	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
491	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

490	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
489	Searches for invisible decays of the Higgs boson in pp collisions at ( $\sqrt{s}$ ) = 7, 8, and 13 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	74
488	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
487	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
486	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
485	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
484	Measurement of the single-top-quark t-channel cross section in pp collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	70
483	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
482	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
481	$J/\psi$ and $\psi(2S)$ production in pp collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	69
480	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at ( $\sqrt{s_{\mathrm{NN}}}$ ) = 5.02 TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1	4-2	67
479	Search for anomalous production of multilepton events in pp collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	65
478	Charged-particle nuclear modification factors in PbPb and pPb collisions at ( $\sqrt{s_{\mathrm{NN}}}$ ) = 5.02 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	64
477	Measurement of the ( $\overline{t}t$ ) production cross section in the dilepton channel in pp collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	64
476	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
475	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
474	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
473	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

472	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
471	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
470	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
469	Search for anomalous ( $\overline{t}t$ ) production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	57
468	Study of exclusive two-photon production of $W+W\gamma$ in pp collisions at ( $\sqrt{s}=7$ ) TeV and constraints on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	56
467	Measurement of the $W+W\gamma$ cross section in pp collisions at ( $\sqrt{s} = 7$ TeV) and limits on anomalous $WW\gamma$ and $WWZ$ couplings. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4-2	56
466	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
465	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
464	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
463	Search for ( $B_{\text{s}}^0 \rightarrow \mu^+ \mu^-$ ) and $B^0 \rightarrow \mu^+ \mu^-$ decays. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	52
462	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
461	Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at ( $\sqrt{s} = 7$ TeV) and first determination of the strong coupling constant in the TeV range. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4-2	50
460	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
459	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
458	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
457	Measurement of the ( $\overline{t}t$ ) production cross section and the top quark mass in the dilepton channel in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5-4	48
456	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
455	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

454	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
453	Search for new physics with jets and missing transverse momentum in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5-4	46
452	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
451	Exclusive $\tilde{\chi}_1^0 \tilde{\chi}_1^0$ production in proton-proton collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	45
450	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
449	Search for exclusive or semi-exclusive $\tilde{\chi}_1^0$ production and observation of exclusive and semi-exclusive $e^+e^- \tilde{\chi}_1^0$ production in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	45
448	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
447	Measurement of the X(3872) production cross section via decays to $J/\psi \eta$ in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	44
446	Search for heavy bottom-like quarks in 4.9 fb $^{-1}$ of pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	44
445	Charged particle transverse momentum spectra in pp collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5-4	44
444	Measurement of the ( $\overline{t}$ ) 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
443	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
442	Search for leptonic decays of $W^\pm$ bosons in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	43
441	Event activity dependence of ( $\Upsilon$ )(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
440	Search for additional neutral MSSM Higgs bosons in the $\tau\tau$ 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	42
439	Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. <i>European Physical Journal C</i> , <b>2015</b> , 75, 186	4-2	41
438	Measurement of prompt $J/\psi$ pair production in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5-4	41
437	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

436	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
435	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
434	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
433	Study of the underlying event at forward rapidity in pp collisions at ( $\sqrt{s}=0.9, 2.76, 7$ TeV). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	39
432	Measurement of the ZZ production cross section and search for anomalous couplings in $2\mu\mu$ 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
431	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
430	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
429	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
428	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
427	Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at ( $\sqrt{s} = 7$ TeV). <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5-4	38
426	Measurement of the $\sigma_{\text{had}}^{\text{had}}$ cross section in pp collisions at $\sqrt{s}$ TeV and limits on anomalous gauge couplings. <i>European Physical Journal C</i> , <b>2016</b> , 76, 401	4-2	38
425	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s}$ TeV. <i>European Physical Journal C</i> , <b>2015</b> , 75, 288	4-2	37
424	Measurement of the differential cross section and charge asymmetry for inclusive $\sigma_{\text{had}}^{\text{had}}$ production at $\sqrt{s}$ TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 469	4-2	37
423	Measurement of associated W + charm production in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5-4	37
422	Jet production rates 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	37
421	Measurement of masses in the $\sigma_{\text{had}}^{\text{had}}$ system by kinematic endpoints in pp collisions at $\sqrt{s}$ TeV. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2494	4-2	37
420	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
419	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at ( $\sqrt{s} = 8$ ) TeV by the CMS and TOTEM experiments. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1	4-2	37

4 <sup>18</sup>	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
4 <sup>17</sup>	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
4 <sup>16</sup>	Measurement of the top-quark mass in ( $\overline{\text{t}}$ ) events with dilepton final states in pp collisions at ( $\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4-2	36
4 <sup>15</sup>	First measurement of the underlying event activity at the LHC with ( $\sqrt{s} = 0.9$ ) TeV. <i>European Physical Journal C</i> , <b>2010</b> , 70, 555-572	4-2	36
4 <sup>14</sup>	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
4 <sup>13</sup>	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
4 <sup>12</sup>	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
4 <sup>11</sup>	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
4 <sup>10</sup>	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
4 <sup>09</sup>	Measurement of the ( $\overline{\text{t}}$ ) 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
4 <sup>08</sup>	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
4 <sup>07</sup>	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
4 <sup>06</sup>	Search for microscopic black holes in pp collisions at ( $\sqrt{s} = \text{7TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	34
4 <sup>05</sup>	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
4 <sup>04</sup>	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
4 <sup>03</sup>	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
4 <sup>02</sup>	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
4 <sup>01</sup>	Search for a light charged Higgs boson decaying to ( $\overline{\text{c}}$ ) in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-37	5-4	33



400	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
399	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
398	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
397	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
396	Measurement of the ( $\overline{\text{t}}\text{t}$ ) production cross section in the $e\bar{e}$ channel in proton-proton collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5-4	30
395	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
394	Inclusive b-jet production in pp collisions at ( $\sqrt{s} = 7\text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	30
393	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
392	Measurement of the top-quark mass in ( $\overline{\text{t}}\text{t}$ ) events with lepton+jets final states in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	30
391	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at ( $\sqrt{s} = 7\text{TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4-2	30
390	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
389	Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or 3 b-quark jets in 7 TeV pp collisions using the variable $\cancel{E}_T$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	29
388	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
387	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
386	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
385	Search for heavy Majorana neutrinos in $e\bar{e}\mu\mu$ jets and $e\bar{e}\tau\tau$ 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
384	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5-4	28
383	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

382	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
381	Evidence for exclusive $\bar{t}W + W\bar{t}$ production and constraints on anomalous quartic gauge couplings in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	27
380	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at ( $\sqrt{s}=7$ ;TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	27
379	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
378	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
377	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
376	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
375	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
374	Measurement of the W-boson helicity in top-quark decays from ( $\overline{\text{t}}\text{t}$ ) production in lepton+jets events in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	25
373	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
372	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
371	Search for resonant ( $\overline{\text{t}}\text{t}$ ) production in lepton+jets events in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	25
370	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. <i>European Physical Journal C</i> , <b>2016</b> , 76, 371	4.2	25
369	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
368	Search for charged Higgs bosons in the $H\bar{H} \rightarrow \bar{t}t$ decay 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
367	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
366	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
365	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $[Formula: see text]$ . <i>European Physical Journal C</i> , <b>2016</b> , 76, 372	4.2	24

364	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
363	Measurement of the $Z/\bar{\nu} + b$ -jet cross section in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	24
362	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
361	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 2\mu\mu$ channel in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	24
360	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
359	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P10017-P10017	1	23
358	Search for $W \rightarrow b$ 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
357	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
356	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $\tau$ leptons at ( $\sqrt{s} = 13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	23
355	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
354	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
353	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
352	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
351	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
350	Measurement of the WZ production cross section in pp collisions at [Formula: see text] and 8 [Formula: see text] and search for anomalous triple gauge couplings at [Formula: see text]. <i>European Physical Journal C</i> , <b>2017</b> , 77, 236	4.2	21
349	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
348	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
347	Correlations between jets and charged particles in PbPb and pp collisions at ( $\sqrt{s_{\text{NN}}} = 2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	21

346	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
345	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
344	Measurement of the top-quark mass in all-jets [Formula: see text] events in pp collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2758	4.2	21
343	Measurement of the ( $\overline{\text{t}}\text{t}$ ) production cross section in the $\overline{\text{t}}\text{t}$ jets channel in pp collisions at ( $\sqrt{s}=7$ mbox{TeV}). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	21
342	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
341	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
340	Search for a Higgs boson in the decay channel $H \rightarrow ZZ^* \rightarrow q(\overline{q}) \mu\mu$ in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	21
339	Inclusive b-hadron production cross section with muons in pp collisions at ( $\sqrt{s} = 7$ ; {TeV}). <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	21
338	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
337	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at ( $\sqrt{s_{\text{NN}}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	21
336	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
335	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
334	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
333	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
332	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
331	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
330	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
329	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

328	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
327	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
326	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
325	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
324	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
323	Search for resonant and nonresonant Higgs boson pair production in the ( $\overline{b}b\ell\ell$ ) 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
322	Search for massive WH resonances decaying into the [Formula: see text] final state at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 237	4.2	19
321	Measurement of exclusive photoproduction from protons in Pb collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 277	4.2	19
320	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
319	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
318	Search for third-generation scalar leptoquarks in the $t\bar{t}$ channel in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	19
317	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
316	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
315	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
314	Search for lepton flavour violating decays of the Higgs boson to $\tau\mu$ and $e\mu$ in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	19
313	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
312	Study of Z production in PbPb and pp collisions at ( $\sqrt{s_{\text{NN}}}=2.76$ ) TeV in the dimuon and dielectron decay channels. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	18
311	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

310	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two leptons and two jets in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	18
309	. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	18
308	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
307	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
306	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
305	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
304	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
303	Search for ( $\overline{\text{H}}\text{H}$ ) production in the ( $\text{H}\text{to}\overline{\text{b}}\text{b}$ ) decay channel with leptonic ( $\overline{\text{H}}\text{to}\text{t}\overline{\text{t}}$ ) decays in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	17
302	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$ . <i>European Physical Journal C</i> , <b>2018</b> , 78, 291	4.2	17
301	Search for ( $\overline{\text{H}}\text{H}$ ) 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
300	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
299	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
298	Search for stopped long-lived particles produced in pp collisions at ( $\sqrt{s} = \{7\text{TeV}\}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	17
297	Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at ( $\sqrt{s} = 7 \text{ TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	17
296	Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	17
295	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
294	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
293	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

292	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\ell$ leptons in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	16
291	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
290	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
289	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
288	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
287	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
286	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
285	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
284	Measurements of ( $\overline{\mathrm{t}}\mathrm{t}$ ) 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
283	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
282	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
281	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
280	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
279	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
278	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
277	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
276	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
275	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

274	Measurement of the jet mass in highly boosted [Formula: see text] events from pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2017</b> , 77, 467	4.2	14
273	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
272	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
271	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
270	Measurement of the ( $\Lambda_{\text{b}}^0$ ) lifetime in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	14
269	Measurement of the ( $\overline{\text{t}}\text{t}$ ) production cross section in the all-jet final state in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	14
268	Measurement of the ( $\overline{\text{t}}\text{t}$ ) production cross section using events with one lepton and at least one jet in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	14
267	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
266	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
265	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
264	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two leptons in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	14
263	Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	14
262	Search for supersymmetry in events with a lepton pair and missing transverse momentum in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	14
261	Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	14
260	Search for resonant ( $\overline{\text{t}}\text{t}$ ) production in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	13
259	Measurement of the ratio of the production cross sections times branching fractions of $B \rightarrow J/\psi$ and $B \rightarrow \psi(2S)$ and $(\mathcal{B}(\text{B} \rightarrow \text{J}/\psi \text{ or } \psi(2S) \text{ or } \psi(3770) \text{ or } \psi(4040) \text{ or } \psi(4180) \text{ or } \psi(4360) \text{ or } \psi(4440) \text{ or } \psi(4660) \text{ or } \psi(4750) \text{ or } \psi(5040) \text{ or } \psi(5440) \text{ or } \psi(5770) \text{ or } \psi(6040) \text{ or } \psi(6330) \text{ or } \psi(6500) \text{ or } \psi(6897) \text{ or } \psi(7460) \text{ or } \psi(7674) \text{ or } \psi(7725) \text{ or } \psi(8438) \text{ or } \psi(8538) \text{ or } \psi(8710) \text{ or } \psi(8936) \text{ or } \psi(9120) \text{ or } \psi(9460) \text{ or } \psi(9593) \text{ or } \psi(9750) \text{ or } \psi(9843) \text{ or } \psi(10002) \text{ or } \psi(10393) \text{ or } \psi(10539) \text{ or } \psi(10940) \text{ or } \psi(11020) \text{ or } \psi(11200) \text{ or } \psi(11400) \text{ or } \psi(11650) \text{ or } \psi(11800) \text{ or } \psi(12000) \text{ or } \psi(12200) \text{ or } \psi(12400) \text{ or } \psi(12600) \text{ or } \psi(12800) \text{ or } \psi(13000) \text{ or } \psi(13200) \text{ or } \psi(13400) \text{ or } \psi(13600) \text{ or } \psi(13800) \text{ or } \psi(14000) \text{ or } \psi(14200) \text{ or } \psi(14400) \text{ or } \psi(14600) \text{ or } \psi(14800) \text{ or } \psi(15000) \text{ or } \psi(15200) \text{ or } \psi(15400) \text{ or } \psi(15600) \text{ or } \psi(15800) \text{ or } \psi(16000) \text{ or } \psi(16200) \text{ or } \psi(16400) \text{ or } \psi(16600) \text{ or } \psi(16800) \text{ or } \psi(17000) \text{ or } \psi(17200) \text{ or } \psi(17400) \text{ or } \psi(17600) \text{ or } \psi(17800) \text{ or } \psi(18000) \text{ or } \psi(18200) \text{ or } \psi(18400) \text{ or } \psi(18600) \text{ or } \psi(18800) \text{ or } \psi(19000) \text{ or } \psi(19200) \text{ or } \psi(19400) \text{ or } \psi(19600) \text{ or } \psi(19800) \text{ or } \psi(20000))$ ) in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	13
258	Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	13
257	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



256	Measurement of exclusive $\bar{p}$ photoproduction in ultraperipheral pPb collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 702	4.2	13
255	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
254	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
253	Search for a fermiophobic Higgs boson in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	13
252	Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	13
251	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
250	Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	13
249	Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at ( $\sqrt{s_{\mathrm{N};\mathrm{N}}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	13
248	Search for ( $\overline{\mathrm{t}}\mathrm{t}\mathrm{H}$ ) production in the all-jet final state in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	13
247	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
246	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 280	4.2	12
245	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
244	Measurement of normalized differential ( $\overline{\mathrm{t}}\mathrm{t}$ ) cross sections in the dilepton channel from pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	12
243	Measurement of the production cross section for ( $\mathrm{Z}\gamma$ to $\nu\overline{\nu}\gamma$ ) in pp collisions at ( $\sqrt{s} = 7$ ) TeV and limits on $\mathrm{ZZ}$ and $\mathrm{ZZ}\gamma$ triple gauge boson couplings. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	12
242	Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	12
241	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
240	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
239	Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at ( $\sqrt{s}=7$ ;TeV ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	12

238	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
237	Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	12
236	Studies of $\rho$ and mesons including the observation of the decay in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 939	4.2	12
235	Electroweak production of two jets in association with a Z boson in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1	4.2	12
234	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
233	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
232	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
231	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
230	Phenomenological MSSM interpretation of CMS searches in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	11
229	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
228	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
227	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
226	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
225	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
224	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
223	Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	11
222	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 4\ell$ decay channel in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	11
221	Measurements of differential Z boson production cross sections in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	11

220	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P02027-P02027	1	11
219	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
218	Search for $Z\bar{\nu}$ resonances using leptonic and hadronic final states in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	11
217	Search for the decay of a Higgs boson in the $\bar{\nu}\nu$ channel in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	11
216	Search for beyond the standard model Higgs bosons decaying into a $(\bar{\mathbf{b}}\overline{\mathbf{b}})$ pair in pp collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	11
215	Measurements of the pp $\rightarrow WZ$ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	10
214	Search for new neutral Higgs bosons through the $(\mathbf{H})\rightarrow\mathbf{Z}\mathbf{A}\rightarrow\{\ell\}^{\{+\}\}\{\ell\}^{\{-}\}\bar{\mathbf{b}}\overline{\mathbf{b}})$ process in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	10
213	A multi-dimensional search for new heavy resonances decaying to boosted $\tau\tau$ , $W\tau$ , or boson pairs in the dijet final state at 13 TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 237	4.2	10
212	Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at $(\sqrt{s}=8)$ TeV using $\mathbf{H}\rightarrow\mathbf{W}\mathbf{W}$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	10
211	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
210	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
209	Search for physics beyond the standard model in events with leptons, jets, and large transverse momentum imbalance in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2493	4.2	10
208	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
207	Search for associated production of a Z boson with a single top quark and for $tZ$ flavour-changing interactions in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	10
206	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
205	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
204	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
203	Nuclear effects in positive pion electroproduction on the deuteron near threshold. <i>European Physical Journal A</i> , <b>2004</b> , 21, 29-36	2.5	10

202	Measurement of properties of $(\mathbf{B})_{\mathbf{s}}^0$ decays and search for $B_0$ with the CMS experiment. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	10
201	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	10
200	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
199	Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	10
198	Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	9
197	A search for the standard model Higgs boson decaying to charm quarks. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	9
196	Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	9
195	Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	9
194	Measurement of b hadron lifetimes in pp collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 457	4.2	9
193	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
192	Search for associated production of dark matter with a Higgs boson decaying to $(\mathbf{b})_{\mathbf{b}}$ or $\mathbf{t}$ at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	9
191	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
190	Measurement of electroweak-induced production of $W$ with 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
189	Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	9
188	Search for a light pseudoscalar Higgs boson in the boosted $\mathbf{f}$ final state in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	9
187	Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $[\text{Formula: see text}]$ pair in proton-proton collisions at $[\text{Formula: see text}]$ . <i>European Physical Journal C</i> , <b>2016</b> , 76, 317	4.2	9
186	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	9
185	Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 697	4.2	9

184	Search for a singly produced third-generation scalar leptoquark decaying to a $\mu$ lepton and a bottom quark in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	9
183	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
182	Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8
181	Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8
180	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
179	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at ( $\sqrt{s_{\text{NN}}}=5.02$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	8
178	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
177	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8
176	Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	8
175	Measurement of the top quark mass using single top quark events in proton-proton collisions at [Formula: see text]TeV. <i>European Physical Journal C</i> , <b>2017</b> , 77, 354	4.2	8
174	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
173	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
172	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
171	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
170	Search for electroweak production of charginos in final states with two $\mu$ leptons in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	7
169	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
168	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at ( $\sqrt{s}=13$ ,text {TeV}). <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	7
167	Search for rare decays of and Higgs bosons to and a photon in proton-proton collisions at = 13. <i>European Physical Journal C</i> , <b>2019</b> , 79, 94	4.2	7

166	Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5-4	7
165	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
164	Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV and constraints on anomalous quartic couplings. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	7
163	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	7
162	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
161	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
160	Jet properties in PbPb and pp collisions at ( $\sqrt{s_{\text{N};\text{N}}}=5.02$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	7
159	Measurement of the semileptonic ( $\text{t}\overline{\text{t}} + \text{b}\overline{\text{b}}$ ) 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
158	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
157	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
156	Measurement of the $Z\text{b}\overline{\text{b}}$ 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
155	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
154	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
153	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
152	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
151	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
150	Search for a heavy resonance decaying into a Z boson and a Z or W boson in $Z\text{b}\overline{\text{b}}$ final states at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	7
149	Search for dark matter produced in association with a Higgs boson decaying to $\text{b}\overline{\text{b}}$ ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	7

148	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
147	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
146	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
145	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
144	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
143	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
142	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\bar{\nu}e$ and $e\nu$ in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	6
141	Measurement of dijet azimuthal decorrelation in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 536	4-2	6
140	Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at ( $\sqrt{s} = 13$ ,text {TeV}). <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4-2	6
139	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
138	Search for the associated production of the Higgs boson with a top-quark pair <b>2014</b> , 2014, 1		6
137	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
136	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
135	Measurement of the differential Drell-Yan cross section in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5-4	6
134	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
133	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
132	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
131	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

130	Search for a heavy resonance decaying into a Z boson and a vector boson in the $(\nu_{\overline{\mathbf{q}}}\overline{\mathbf{q}})$ final state. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	6
129	Measurement of the mass of the top quark in decays with a $J/\psi$ meson in pp collisions at 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5-4	5
128	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
127	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
126	Comparison of the $Z/\psi + \text{jets}$ to $\psi$ 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
125	Measurement of energy flow at large pseudorapidities in pp collisions at $(\sqrt{s} = 0.9)$ and 7 TeV <b>2011</b> , 2011, 1		5
124	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
123	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
122	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
121	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
120	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
119	Search for resonances decaying to a pair of Higgs bosons in the $b(\overline{\mathbf{q}})\mathbf{q}$ final state in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5-4	5
118	Search for top squark pair production using dilepton final states in collision data collected at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 3	4-2	5
117	Measurement of the groomed jet mass in PbPb and pp collisions at $(\sqrt{s_{\mathbf{NN}}}=5.02)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	5
116	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	5-4	5
115	Measurement of the cross section in pp collisions at and validation of lepton analysis techniques. <i>European Physical Journal C</i> , <b>2018</b> , 78, 708	4-2	5
114	Search for a low-mass $\psi$ 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	5-4	4
113	Search for the pair production of light top squarks in the $e\psi\psi$ final state in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5-4	4



112	Search for nonresonant Higgs boson pair production in the ( $\overline{b\overline{b}}$ ) final state at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5-4	4
111	Study of the underlying event in top quark pair production in collisions at 13. <i>European Physical Journal C</i> , <b>2019</b> , 79, 123	4-2	4
110	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 20	4-2	4
109	Distributions of topological observables in inclusive three- and four-jet events in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 302	4-2	4
108	Evidence for ( $W$ ) production from double-parton interactions in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4-2	4
107	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 242	4-2	4
106	Pseudorapidity distributions of charged hadrons in proton-lead collisions at ( $\sqrt{s_{NN}}$ ) = 5.02 and 8.16 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	4
105	Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	4
104	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	5-4	4
103	Search for a heavy resonance decaying to a top quark and a vector-like top quark at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	4
102	Search for high-mass $Z$ resonances in $e^+e^-$ and $W^+W^-$ final states in proton-proton collisions at ( $\sqrt{s}$ ) = 8 and 13 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	4
101	Search for CP violation in ( $t\overline{t}$ ) 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
100	Measurement of differential cross sections and charge ratios for $s$ -channel single top quark production in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 370	4-2	4
99	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
98	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
97	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
96	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
95	Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1	4-2	4

94	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
93	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 $\ell$ leptons. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	3
92	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
91	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
90	Measurement of the inclusive ( $\overline{\text{t}}\text{t}$ ) 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
89	Search for ZZ resonances in the $2\ell$ final state in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	3
88	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
87	Search for top quark partners with charge 5/3 in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	3
86	Study of hadronic event-shape variables in multijet final states in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	3
85	Measurement of the cross section for production of ( $\overline{\text{b}}\text{X}$ ) decaying to muons in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	3
84	Measurements of the ( $\text{p}\text{p}\rightarrow\text{Z}\text{Z}$ ) production cross section and the ( $\text{Z}\rightarrow 4\ell$ ) branching fraction, and constraints on anomalous triple gauge couplings at ( $\sqrt{s} = 13, \text{TeV}$ ) <b>2018</b> , 78, 1		3
83	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
82	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
81	Measurement of the ( $\overline{\text{t}}\text{t}$ ) production cross section in the dilepton channel in pp collisions at ( $\sqrt{s}$ ) = 8 TeV <b>2014</b> , 2014, 1		3
80	Dependence of inclusive jet production on the anti-kT distance parameter in pp collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	3
79	Investigation into the event-activity dependence of $\langle n_S \rangle$ relative production in proton-proton collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	3
78	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
77	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

76	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5-4	3
75	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
74	Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\bar{\nu}$ 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
73	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
72	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
71	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
70	Search for decays of the 125 GeV Higgs boson into a Z boson and a $\tau$ meson. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	2
69	Determination of the strong coupling constant $\alpha_s(m_Z)$ from measurements of inclusive $W\bar{W}$ and Z boson production cross sections in proton-proton collisions at ( $\sqrt{s}$ ) = 7 and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	2
68	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	2
67	Measurement of differential cross sections in the kinematic angular variable $\theta^*$ 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
66	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
65	Search for $W\tau$ in proton-proton collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5-4	2
64	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
63	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
62	Search for excited leptons in $\ell\bar{\nu}$ 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
61	Measurements of the $pp \rightarrow W\bar{W}$ and $pp \rightarrow Z\bar{Z}$ cross 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
60	Search for new phenomena with multiple charged leptons in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>European Physical Journal C</i> , <b>2017</b> , 77, 1	4-2	2
59	Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the $B\bar{b}$ final state at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5-4	2

58	Search for new physics in events with same-sign dileptons and b jets in pp collisions at ( $\sqrt{s}=8$ ) TeV <b>2013</b> , 2013, 1		2
57	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
56	The production of isolated photons in PbPb and pp collisions at ( $\sqrt{s_{\mathrm{NN}}}$ ) = 5.02 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	2
55	Bose-Einstein correlations of charged hadrons in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	2
54	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
53	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
52	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
51	Angular analysis of the decay $B^+ \rightarrow \mu^+ \nu_{\mu} \pi^0$ in proton-proton collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5-4	2
50	First measurement of large area jet transverse momentum spectra in heavy-ion collisions. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5-4	2
49	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
48	Search for supersymmetry in events with a photon, jets, $\bar{j}$ -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
47	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
46	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
45	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
44	Measurement of b hadron lifetimes in pp collisions at ( $\sqrt{s} = 8$ ) ( $\sqrt{s}$ ) TeV <b>2018</b> , 78, 1		1
43	Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb <sup>-1</sup> 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 $pp \rightarrow W\mu\mu$ and $pp \rightarrow Z\mu\mu$ cross sections at ( $\sqrt{s}$ ) = 13 TeV and limits on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5-4	1
41	Study of the ( $B^+ \rightarrow J/\psi \bar{\Lambda} p$ ) 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 $(\overline{t}t)$ 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 HERWIG++ 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 $\mu \rightarrow e \gamma$ in proton-proton collisions at $(\sqrt{s}) = 13$ 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	0
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	0
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. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
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 $(\sqrt{s_{\text{NN}}}) = 8.16$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
25	In-medium modification of dijets in PbPb collisions at $(\sqrt{s_{\text{NN}}}) = 5.02$ 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	0
23	Search for a heavy vector resonance decaying to a $\Upsilon$ boson and a Higgs boson in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 688	4.2	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	○
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	○
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	○
19	Search for long-lived particles produced 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	○
18	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	○
17	Measurement of the inclusive and differential $t\bar{t}$ cross sections in the single-lepton channel and EFT interpretation at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
16	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	○
15	Probing effective field theory operators in the associated production of top quarks with a Z boson in multilepton final states at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
14	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	○
13	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	○
12	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	○
11	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	○
10	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	○
9	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	○
8	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	
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