

# Ivan Heredia-de La Cruz

## List of Publications by Citations

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485 papers	16,952 citations	61 h-index	106 g-index
504 ext. papers	19,002 ext. citations	5 avg, IF	6.44 L-index

#	Paper	IF	Citations
485	Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , <b>2015</b> , 114, 191803	7.4	709
484	Determination of jet energy calibration and transverse momentum resolution in CMS. <i>Journal of Instrumentation</i> , <b>2011</b> , 6, P11002-P11002	1	463
483	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
482	Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. <i>Journal of Instrumentation</i> , <b>2012</b> , 7, P10002-P10002	1	398
481	Identification of b-quark jets with the CMS experiment. <i>Journal of Instrumentation</i> , <b>2013</b> , 8, P04013-P04013		376
480	Observation of the rare $B(s)(0) \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data. <i>Nature</i> , <b>2015</b> , 522, 68-72	50.4	326
479	Study of high- $p_T$ charged particle suppression in PbPb compared to pp collisions at ( $\sqrt{s_{\text{NN}}}=2.76 \sim \text{TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	316
478	Description and performance of track and primary-vertex reconstruction with the CMS tracker. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, P10009-P10009	1	279
477	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
476	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
475	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
474	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
473	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
472	Forward-backward asymmetry in top quark-antiquark production. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	170
471	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
470	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
469	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

468	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
467	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
466	Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of Instrumentation</i> , <b>2015</b> , 10, P08010-P08010	1	141
465	Study of the inclusive production of charged pions, kaons, and protons in pp collisions at ( $\sqrt{s} = 0.9, 2.76, \sqrt{s} = 7-13$ TeV). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	133
464	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
463	Evidence for an anomalous like-sign dimuon charge asymmetry. <i>Physical Review D</i> , <b>2010</b> , 82,	4.9	123
462	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
461	A search for a doubly-charged Higgs boson in pp collisions at ( $\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	111
460	Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of Instrumentation</i> , <b>2013</b> , 8, P09009-P09009	1	111
459	Evidence for a $B_{s1}^{(0)}$ State. <i>Physical Review Letters</i> , <b>2016</b> , 117, 022003	7.4	110
458	Measurement of differential top-quark-pair production cross sections in pp collisions at ( $\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	102
457	Evidence for the 125 GeV Higgs boson decaying to a pair of leptons. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	101
456	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
455	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
454	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
453	Missing transverse energy performance of the CMS detector. <i>Journal of Instrumentation</i> , <b>2011</b> , 6, P09001-P09001		
452	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
451	Measurement of Long-Range Near-Side Two-Particle Angular Correlations in pp Collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , <b>2016</b> , 116, 172302	7.4	90

450	Measurement of the anomalous like-sign dimuon charge asymmetry with 9 fb of pp collisions. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	88
449	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
448	Performance of the CMS missing transverse momentum reconstruction in pp data at $\sqrt{s}$ = 8 TeV. <i>Journal of Instrumentation</i> , <b>2015</b> , 10, P02006-P02006	1	84
447	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
446	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
445	Performance of $\bar{\tau}$ -lepton reconstruction and identification in CMS. <i>Journal of Instrumentation</i> , <b>2012</b> , 7, P01001-P01001	1	81
444	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
443	Reconstruction and identification of $\tau$ -lepton decays to hadrons and $\tau \rightarrow \mu \nu$ at CMS. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, P01019-P01019	1	75
442	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
441	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
440	Observation of Charge-Dependent Azimuthal Correlations in p-Pb Collisions and Its Implication for the Search for the Chiral Magnetic Effect. <i>Physical Review Letters</i> , <b>2017</b> , 118, 122301	7.4	72
439	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
438	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
437	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
436	Measurement of the CP-violating phase $\phi_1^{\text{SJ}}$ using the flavor-tagged decay $B_{\text{S}}^0 \rightarrow \pi^0 \pi^0$ in 8 fb of pp collisions. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	70
435	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
434	$J/\psi$ and $\Upsilon(2S)$ production in pp collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	69
433	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at ( $\sqrt{s_{\text{NN}}}$ ) = 5.02 TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1	4.2	67

432	Search for anomalous production of multilepton events in pp collisions at ( $\sqrt{s} = 7, \text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	65
431	Charged-particle nuclear modification factors in PbPb and pPb collisions at ( $\sqrt{s_{\text{NN}}}=5.02$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	64
430	Measurement of the ( $\overline{\text{t}}\text{t}$ ) 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
429	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
428	Observation of the associated production of a single top quark and a W boson in pp collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , <b>2014</b> , 112, 231802	7.4	62
427	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
426	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
425	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
424	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at ( $\sqrt{s_{\text{NN}}}$ ) = 2.76 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	60
423	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
422	Search for the X(4140) state in $B \rightarrow \frac{3}{2} K$ decays with the D0 detector. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	59
421	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
420	Search for top-quark partners with charge 5/3 in the same-sign dilepton final state. <i>Physical Review Letters</i> , <b>2014</b> , 112, 171801	7.4	58
419	Search for anomalous ( $\overline{\text{t}}\text{t}$ ) production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	57
418	Study of exclusive two-photon production of $W+W$ in pp collisions at ( $\sqrt{s}=7$ ) TeV and constraints on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	56
417	Measurement of the $W+W$ cross section in pp collisions at ( $\sqrt{s} = 7 \text{ TeV}$ ) and limits on anomalous $WW$ and $WWZ$ couplings. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	56
416	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
415	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

414	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
413	Improved determination of the width of the top quark. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	53
412	Combination of $t\bar{t}$ cross section measurements and constraints on the mass of the top quark and its decays into charged Higgs bosons. <i>Physical Review D</i> , <b>2009</b> , 80,	4.9	51
411	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
410	Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at ( $\sqrt{s} = 7 \text{ TeV}$ ) 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
409	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
408	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 237	4.2	48
407	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
406	Measurement of the ( $t\bar{t}$ ) 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
405	Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	47
404	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
403	Measurement of the forward-backward asymmetry in top quark-antiquark production in pp collisions using the lepton+jets channel. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	46
402	Search for flavor-changing neutral currents in top-quark decays $t \rightarrow Zq$ in pp collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , <b>2014</b> , 112, 171802	7.4	46
401	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
400	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
399	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
398	Exclusive $J/\psi$ 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
397	Observation and studies of double $J/\psi$ production at the Tevatron. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	45

396	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
395	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
394	Measurement of the top quark pair production cross section in the lepton+jets channel in proton-antiproton collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2011</b> , 84,	4-9	45
393	Measurement of the $X(3872)$ production cross section via decays to $J/\psi \pi\pi$ in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	44
392	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
391	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
390	Measurement of the ( $\overline{t}t$ ) production cross section in the dilepton channel in pp collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5-4	43
389	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
388	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
387	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
386	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
385	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
384	Measurement of the differential cross section $d\sigma/dt$ in elastic pp scattering at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2012</b> , 86,	4-9	41
383	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
382	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
381	Precision measurement of the top quark mass in lepton + jets final States. <i>Physical Review Letters</i> , <b>2014</b> , 113, 032002	7-4	39
380	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
379	Study of the underlying event at forward rapidity in pp collisions at ( $\sqrt{s}=0.9, 2.76, \text{and } 7 \text{ TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	39



378	Measurement of the ZZ production cross section and search for anomalous couplings in 200 final states in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	39
377	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
376	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
375	Measurement of Prompt $D^0$ Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 120, 202301	7-4	39
374	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
373	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
372	Measurement of prompt $\Upsilon(2S)$ to J/ $\Upsilon$ yield ratios in Pb-Pb and p-p collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review Letters</i> , <b>2014</b> , 113, 262301	7-4	38
371	Search for top squark and Higgsino production using diphoton Higgs boson decays. <i>Physical Review Letters</i> , <b>2014</b> , 112, 161802	7-4	38
370	Measurement of the semileptonic charge asymmetry in $B^0$ meson mixing with the D0 detector. <i>Physical Review D</i> , <b>2012</b> , 86,	4-9	38
369	Measurement of the [Formula: see text] cross section in pp collisions at [Formula: see text] TeV and limits on anomalous gauge couplings. <i>European Physical Journal C</i> , <b>2016</b> , 76, 401	4-2	38
368	Measurement of the $B^0$ Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2017</b> , 119, 152301	7-4	37
367	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 288	4-2	37
366	Measurement of the differential cross section and charge asymmetry for inclusive [Formula: see text] production at [Formula: see text] TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 469	4-2	37
365	Jet production rates in association with W and Z bosons in pp collisions at ( $\sqrt{s}=7$ {text{TeV}}). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	37
364	Measurement of masses in the [Formula: see text] system by kinematic endpoints in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2494	4-2	37
363	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
362	Observation of a narrow mass state decaying into $\Upsilon(1S)+\pi$ in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2012</b> , 86,	4-9	37
361	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



360	Search for the $X(5568)$ State Decaying into $B_s^0 \pi^0$ in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 120, 202005	7.4	36
359	Measurement of the top-quark mass in $(\overline{\text{tt}})$ events with dilepton final states in pp collisions at $(\sqrt{s}=7 \text{ TeV})$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	36
358	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
357	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
356	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
355	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
354	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
353	Measurement of the $(\overline{\text{tt}})$ 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
352	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
351	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
350	Search for microscopic black holes in pp collisions at $(\sqrt{s} = \text{7 TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	34
349	Measurement of the asymmetry in angular distributions of leptons produced in dilepton $\text{tt}$ final states in pp collisions at $s=1.96$ TeV. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	34
348	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
347	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
346	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
345	Search for a light charged Higgs boson decaying to $(\overline{\text{cs}})$ in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-37	5.4	33
344	Measurement of the W boson helicity in top quark decays using 5.4 fb of pp collision data. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	33
343	Inclusive Production of the $X(4140)$ State in pp Collisions at D0. <i>Physical Review Letters</i> , <b>2015</b> , 115, 232001	7.4	32

342	Study of CP-violating charge asymmetries of single muons and like-sign dimuons in pp collisions. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	32
341	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
340	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
339	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
338	Precise measurement of the top-quark mass from lepton+jets events at D0. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	32
337	Evidence for Simultaneous Production of $J/\psi$ and $\eta$ Mesons. <i>Physical Review Letters</i> , <b>2016</b> , 116, 082002	7.4	31
336	Measurement of the ( $\overline{\text{t}}\text{t}$ ) production cross section in the e $\ell$ 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
335	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
334	Inclusive b-jet production in pp collisions at ( $\sqrt{s} = 7$ TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	30
333	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
332	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
331	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at ( $\sqrt{s} = 7\sim 8$ TeV). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	30
330	Measurement of leptonic asymmetries and top-quark polarization in $t\bar{t}$ production. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	30
329	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
328	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 $\beta_T$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	29
327	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
326	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
325	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3129	4.2	29

324	Measurement of the relative branching ratio of $B_s^0 \rightarrow \mu^+ \mu^- (980)$ to $B_s^0 \rightarrow \mu^+ \mu^-$ . <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	29
323	Search for heavy Majorana neutrinos in $e^+e^- \rightarrow \mu^+ \mu^-$ jets and $e^+e^- \rightarrow \mu^+ \mu^-$ 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
322	Measurement of differential $t\bar{t}$ production cross sections in $pp$ collisions. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	28
321	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
320	Measurements of single top quark production cross sections and $ V_{tb} $ in $pp$ collisions at $s=1.96$ TeV. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	28
319	Search for a narrow $t\bar{t}$ resonance in $pp$ collisions at $s=1.96$ TeV. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	28
318	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
317	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
316	Measurement of the Splitting Function in $pp$ and Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 120, 142302	7.4	27
315	Evidence for exclusive $\mu^+W^- + W^0\mu^-$ 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
314	Double parton interactions in $\mu^+3$ jet and $\mu^+b/c$ jet+2 jet events in $pp$ collisions at $s=1.96$ TeV. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	27
313	Shape, transverse size, and charged-hadron multiplicity of jets in $pp$ collisions at $(\sqrt{s}=7;\text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	27
312	Limits on anomalous trilinear gauge boson couplings from $WW$ , $WZ$ and $W\gamma$ production in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 718, 451-459	4.2	27
311	Search for anomalous quartic $WW\gamma\gamma$ couplings in dielectron and missing energy final states in $pp$ collisions at $s=1.96$ TeV. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	27
310	Measurement of the $WZ$ and $ZZ$ production cross sections using leptonic final states in $8.6 \text{ fb}^{-1}$ of $pp$ collisions. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	27
309	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
308	Measurement of the electron charge asymmetry in $pp \rightarrow W+X \rightarrow e\mu X$ decays in $pp$ collisions at $s=1.96$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	26
307	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

306	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
305	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
304	Search for CP violation in $B_s^0 \rightarrow D_s^\pm$ decays in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2010</b> , 82,	4.9	26
303	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
302	Measurements of the $[ \text{Formula: see text} ] [ \text{Formula: see text} ]$ production cross sections in the $[ \text{Formula: see text} ]$ channel in proton-proton collisions at $[ \text{Formula: see text} ]$ and $[ \text{Formula: see text} ]$ and combined constraints on triple gauge couplings. <i>European Physical Journal C</i> , <b>2015</b> , 75, 511	4.2	25
301	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
300	Direct measurement of the mass difference between top and antitop quarks. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	25
299	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
298	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $[ \text{Formula: see text} ]$ . <i>European Physical Journal C</i> , <b>2015</b> , 75, 325	4.2	24
297	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
296	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $[ \text{Formula: see text} ]$ . <i>European Physical Journal C</i> , <b>2016</b> , 76, 372	4.2	24
295	Muon reconstruction and identification with the Run II D0 detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2014</b> , 737, 281-294	1.2	24
294	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at $[ \text{Formula: see text} ]$ . <i>European Physical Journal C</i> , <b>2013</b> , 73, 2674	4.2	24
293	Alignment of the CMS tracker with LHC and cosmic ray data. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, P06009-P06009	4.2	24
292	Measurement of the $Z/\gamma + b$ -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
291	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
290	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
289	Search for $W^\pm \rightarrow b$ 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

288	Measurement of the muon charge asymmetry in $pp \rightarrow W+X \rightarrow \mu X$ events at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	23
287	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
286	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
285	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
284	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
283	Azimuthal decorrelations and multiple parton interactions in $\geq 2$ jet and $\geq 3$ jet events in $pp \rightarrow$ collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	22
282	Measurement of the WZ production cross section in pp collisions at [Formula: see text] and $8 \times$ [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
281	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
280	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
279	Correlations between jets and charged particles in PbPb and pp collisions at $(\sqrt{s_{\mathrm{NN}}})=2.76$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	21
278	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
277	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
276	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
275	Measurement of the $(\mathrm{t})\bar{(\mathrm{t})}$ production cross section in the $\geq 2$ jets channel in pp collisions at $(\sqrt{s}=7 \text{ TeV})$ . <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	21
274	Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2017</b> , 119, 111802	7.4	21
273	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
272	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
271	Search for a Higgs boson in the decay channel $H \rightarrow ZZ^{(*)} \rightarrow q(\overline{q}) \gamma \gamma$ in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	21

270	Measurement of $\sin 2\theta_{ff}$ and Z-light quark couplings using the forward-backward charge asymmetry in $pp \rightarrow Z/\gamma^* \rightarrow e^+e^-$ events with $L=5.0 \text{ fb}^{-1}$ at $s=1.96 \text{ TeV}$ . <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	21
269	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
268	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
267	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
266	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
265	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
264	Jet energy scale determination in the D0 experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2014</b> , 763, 442-475 <sup>1,2</sup>	1.2	20
263	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
262	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
261	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
260	Search for resonant and nonresonant Higgs boson pair production in the ( $\overline{\text{b}}\text{b} \rightarrow \ell \nu \ell \nu$ ) final state in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	19
259	Search for massive WH resonances decaying into the [Formula: see text] final state at [Formula: see text] [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 237	4.2	19
258	Electron and photon identification in the D0 experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2014</b> , 750, 78-95	1.2	19
257	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
256	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
255	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
254	$Z\gamma$ production and limits on anomalous $ZZ\gamma$ and $Z\gamma\gamma$ couplings in $pp \rightarrow Z\gamma$ collisions at $s=1.96 \text{ TeV}$ . <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	19
253	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



252	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
251	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
250	Study of Z production in PbPb and pp collisions at ( $\sqrt{s_{\mathrm{NN}}}=2.76$ ) TeV in the dimuon and dielectron decay channels. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	18
249	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
248	. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	18
247	Measurement of the $pp \rightarrow W+b+X$ production cross section at $s=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 1314-1320	4.2	18
246	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
245	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
244	Simultaneous measurement of forward-backward asymmetry and top polarization in dilepton final states from $tt$ production at the Tevatron. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	18
243	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
242	Measurement of the W boson mass with the D0 detector. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	18
241	Measurement of the forward-backward asymmetry in the distribution of leptons in $tt$ events in the lepton+jets channel. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	18
240	Measurement of the top-quark mass in $pp$ collisions using events with two leptons. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	18
239	Measurement of the top quark mass in final states with two leptons. <i>Physical Review D</i> , <b>2009</b> , 80,	4.9	18
238	Study of the $X(5568)$ state with semileptonic decays of the $B_s^0$ meson. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	18
237	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
236	Measurement of the inclusive jet cross section in pp collisions at ( $\sqrt{s}=2.76$ ,text {TeV}). <i>European Physical Journal C</i> , <b>2016</b> , 76, 1	4.2	17
235	Search for ( $\overline{\mathrm{t}}\mathrm{t}$ ) resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	17

234	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
233	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
232	Search for stopped long-lived particles produced in pp collisions at ( $\sqrt{s} = \{ \text{7 TeV} \}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	17
231	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
230	Measurements of WW and WZ production in W + jets final states in pp collisions. <i>Physical Review Letters</i> , <b>2012</b> , 108, 181803	7.4	17
229	Search for sneutrino production in e <sup>+</sup> e <sup>-</sup> final states in 5.3 fb <sup>-1</sup> of pp collisions at square root s = 1.96 TeV. <i>Physical Review Letters</i> , <b>2010</b> , 105, 191802	7.4	17
228	Measurement of the B <sup>0</sup> lifetime in the exclusive decay B <sup>0</sup> → J/ψ D <sup>0</sup> in pp collisions at s = 1.96 TeV. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	17
227	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
226	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
225	Search for new physics with the M <sub>T2</sub> 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
224	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\ell\ell$ leptons in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	16
223	Improved b quark jet identification at the D0 experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2014</b> , 763, 290-303	1.2	16
222	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
221	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
220	Studies of W boson plus jets production in pp collisions at s = 1.96 TeV. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	16
219	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
218	Combined search for the Higgs boson with the D0 experiment. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	16
217	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

216	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
215	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
214	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
213	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
212	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
211	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
210	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
209	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
208	Measurement of the production fraction times branching fraction $f(b\text{-}B)B(B\text{-}J/\psi)$ . <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	15
207	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
206	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
205	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
204	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
203	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
202	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
201	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
200	Precision measurement of the top-quark mass in lepton+jets final states. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	14
199	Measurement of associated production of z bosons with charm quark jets in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , <b>2014</b> , 112, 042001	7.4	14

198	Measurement of the W boson production charge asymmetry in pp $\rightarrow W+X \rightarrow e\bar{\nu}+X$ events at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , <b>2014</b> , 112, 151803	7.4	14
197	Search for first generation leptoquark pair production in the electron + missing energy + jets final state. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	14
196	Measurement of color flow in $t\bar{t}$ events from pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	14
195	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
194	Measurement of the ratio of the production cross sections times branching fractions of $B \rightarrow J/\psi$ and $B \rightarrow J/\psi$ and $(\mathcal{B}(\mathcal{B} \rightarrow J/\psi)_{\text{BR}}^{\text{measured}}/\mathcal{B}(\mathcal{B} \rightarrow J/\psi)_{\text{BR}}^{\text{SM}})$ in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	13
193	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
192	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
191	Study of double parton interactions in diphoton+dijet events in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	13
190	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
189	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
188	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
187	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
186	Search for the rare decay $B_s^0 \rightarrow \mu^+ \mu^-$ . <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	13
185	Measurement of the ratio of differential cross sections $(\mathcal{B}(\mathcal{B} \rightarrow Z+b \text{ jet})/\mathcal{B}(\mathcal{B} \rightarrow Z+\text{jet}))$ in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	13
184	Measurement of $t\bar{t}$ production in the $b$ -jets topology using pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2010</b> , 82,	4.9	13
183	Measurement of the ratio of inclusive cross sections $(\mathcal{B}(\mathcal{B} \rightarrow Z+b \text{ quark jet})/\mathcal{B}(\mathcal{B} \rightarrow Z+\text{jet}))$ at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	13
182	Measurement of $(\mathcal{B}(\mathcal{B} \rightarrow Z+b \text{ quark jet})/\mathcal{B}(\mathcal{B} \rightarrow Z+\text{jet}))$ normalised multi-differential cross sections in $(\sqrt{s}=13, \text{TeV})$ collisions at $(\sqrt{s}=13, \text{TeV})$ , and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	13
181	Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at $(\sqrt{s_{NN}}=2.76)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	13

180	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
179	Search for Narrow Resonances in the b-Tagged Dijet Mass Spectrum in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 120, 201801	7.4	13
178	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
177	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
176	Suppression of Excited ? States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s}_{NN}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 120, 142301	7.4	12
175	Measurement of normalized differential ( $\overline{\sigma}(\mathbf{t})$ ) 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
174	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
173	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
172	Measurement of the Effective Weak Mixing Angle in $pp[\overline{\nu}_\mu - Z/\gamma^*] - e^+e^-$ Events. <i>Physical Review Letters</i> , <b>2015</b> , 115, 041801	7.4	12
171	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
170	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
169	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
168	Measurement of the ZZ production cross section in $pp[\gamma]$ collisions at $s=1.96$ TeV. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	12
167	Measurement of trilinear gauge boson couplings from $WW+WZ-H$ events in $pp[\gamma]$ collisions at $s=1.96$ TeV. <i>Physical Review D</i> , <b>2009</b> , 80,	4.9	12
166	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
165	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
164	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
163	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

162	Observation of Top Quark Production in Proton-Nucleus Collisions. <i>Physical Review Letters</i> , <b>2017</b> , 119, 242001	7.4	11
161	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
160	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
159	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
158	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
157	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
156	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
155	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
154	Measurement of the $t\bar{t}$ cross section using high-multiplicity jet events. <i>Physical Review D</i> , <b>2010</b> , 82,	4.9	11
153	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
152	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
151	Search for Z resonances using leptonic and hadronic final states in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	11
150	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
149	Measurement of the forward-backward asymmetry in the production of $B(\bar{B})$ mesons in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , <b>2015</b> , 114, 051803	7.4	10
148	A multi-dimensional search for new heavy resonances decaying to boosted $\ell\ell$ 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
147	Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at ( $\sqrt{s}=8$ ) TeV using $H \rightarrow WW$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	10
146	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
145	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



144	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 <sup>4.2</sup>	10
143	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
142	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
141	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
140	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
139	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
138	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
137	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
136	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
135	Measurement of the inclusive $t\bar{t}$ production cross section in pp collisions at $s=1.96$ TeV and determination of the top quark pole mass. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9 9
134	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
133	Search for associated production of dark matter with a Higgs boson decaying to ( $\overline{\mathbf{b}}\mathbf{b}$ ) or $\mathbf{b}\mathbf{t}$ ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4 9
132	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
131	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
130	Measurement of the differential cross section of photon plus jet production in pp collisions at $s=1.96$ TeV. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9 9
129	Measurement of the ZZ production cross section and search for the standard model Higgs boson in the four lepton final state in pp collisions. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9 9
128	Search for associated Higgs boson production using like charge dilepton events in pp collisions at $s=1.96$ TeV. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9 9
127	Study of the decay $B_{s0} \rightarrow \rho^0(1525) \rightarrow \pi^0 \pi^0 K^0$ final states. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9 9

126	Search for lepton flavour violating decays of heavy resonances and quantum black holes to an [Formula: see text] pair in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 317	4.2	9
125	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
124	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
123	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at ( $\sqrt{s_{\mathrm{NN}}}=5.02$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	8
122	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
121	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
120	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
119	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
118	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
117	Search for the standard model Higgs boson in $b\bar{b}$ jets final states in 9.7 fb $^{-1}$ of pp collisions with the D0 detector. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	8
116	Measurement of the top quark mass using the matrix element technique in dilepton final states. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	8
115	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
114	Search for electroweak production of charginos in final states with two $\ell\bar{\ell}$ leptons in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	7
113	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
112	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
111	Measurement of the $\sqrt{s}$ distribution of muon pairs with masses between 30 and 500 GeV in 10.4 fb $^{-1}$ of pp collisions. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	7
110	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
109	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

108	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
107	Jet properties in PbPb and pp collisions at ( $\sqrt{s_{\mathrm{N};\mathrm{N}}}=5.02$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	7
106	Measurement of the semileptonic ( $\mathrm{t}\overline{\mathrm{t}}$ ) + $\ell\bar{\ell}$ 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
105	Searches for W $\gamma$ 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
104	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
103	Measurement of the $Z\ell\bar{\ell}$ 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
102	Search for a Higgs boson in diphoton final states with the D0 detector in 9.6 fb $^{-1}$ of pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2013</b> , 88,	4-9	7
101	Search for charged massive long-lived particles at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2013</b> , 87,	4-9	7
100	Search for $Z\ell\bar{\ell}$ events with large missing transverse energy in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2012</b> , 86,	4-9	7
99	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
98	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
97	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
96	Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2\ell q$ final states at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	7
95	Search for dark matter produced in association with a Higgs boson decaying to $\ell\bar{\ell}\ell\bar{\ell}$ ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	7
94	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
93	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
92	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
91	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

90	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
89	Search for Violation of CPT and Lorentz Invariance in $B_s(0)$ Meson Oscillations. <i>Physical Review Letters</i> , <b>2015</b> , 115, 161601	7.4	6
88	Measurement of the differential $\#2b$ -jet cross section and the ratio $(\#2b\text{-jets})/(\#b\text{-jet})$ in $pp$ collisions at $s=1.96\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 737, 357-365	4.2	6
87	Search for Higgs boson production in oppositely charged dilepton and missing energy final states in $9.7\text{ fb}^{-1}$ of $pp$ collisions at $s=1.96\text{ TeV}$ . <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	6
86	Search for WH associated production in $pp$ collisions at $s=1.96\text{ TeV}$ . <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	6
85	Search for the associated production of the Higgs boson with a top-quark pair <b>2014</b> , 2014, 1		6
84	Precise measurement of the top quark mass in dilepton decays using optimized neutrino weighting. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 752, 18-26	4.2	6
83	Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $(\sqrt{s}=8)\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	6
82	Measurement of the differential Drell-Yan cross section in proton-proton collisions at $(\sqrt{s}) = 13\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	6
81	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $(\sqrt{s}=13)\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
80	Search for a heavy resonance decaying into a Z boson and a vector boson in the $(\overline{\nu}\overline{\text{q}}\overline{\text{q}})$ final state. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
79	Measurement of the $B(s)(0)$ lifetime in the flavor-specific decay channel $B(s)(0)-\overline{D}(s)(-)\ell^{+}\ell^{-}$ . <i>Physical Review Letters</i> , <b>2015</b> , 114, 062001	7.4	5
78	Measurement of the mass of the top quark in decays with a $J/\psi$ meson in $pp$ collisions at $8\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	5
77	Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $(\sqrt{s}=13)\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	5
76	Comparison of the $Z/\gamma^* + \text{jets}$ to $\gamma^* + \text{jets}$ cross sections in $pp$ collisions at $(\sqrt{s}=8)\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	5
75	Measurement of the electric charge of the top quark in $t\bar{t}$ events. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	5
74	Constraints on models for the Higgs boson with exotic spin and parity in $VH \rightarrow V\text{bb}$ final states. <i>Physical Review Letters</i> , <b>2014</b> , 113, 161802	7.4	5
73	Model independent search for new phenomena in $pp$ collisions at $s=1.96\text{ TeV}$ . <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	5

72	Search for the Higgs boson in lepton, tau, and jets final states. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	5
71	Search for $ZH\rightarrow\tau\tau$ production in $9.7\text{ fb}^{-1}$ of $pp$ collisions with the D0 detector. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	5
70	A novel method for modeling the recoil in W boson events at hadron colliders. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2009</b> , 609, 250-262	1.2	5
69	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
68	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
67	$B_s^0$ lifetime measurement in the CP-odd decay channel $B_s^0\rightarrow\tau^+\tau^-$ (980). <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	5
66	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
65	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
64	Search for the pair production of light top squarks in the $e^+e^-$ final state in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	4
63	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
62	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
61	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
60	Pseudorapidity distributions of charged hadrons in proton-lead collisions at ( $\sqrt{s_{\mathrm{NN}}}=5.02$ ) and 8.16 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
59	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
58	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
57	Search for high-mass $Z$ resonances in $e^+e^-$ and $\tau^+\tau^-$ 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
56	Search for CP violation in ( $\overline{t}t$ ) 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
55	Measurement of the W+b-jet and W+c-jet differential production cross sections in $pp$ collisions at $s=1.96\text{ TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 743, 6-14	4.2	4

54	Measurement of the direct CP-violating parameter ACP in the decay $D^+ \rightarrow K^0 \pi^+$ . <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	4
53	Search for Higgs boson production in trilepton and like-charge electron-muon final states with the D0 detector. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	4
52	Measurement of differential cross sections and charge ratios for $\tau$ -channel single top quark production in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 370	4.2	4
51	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
50	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
49	Measurement of top quark polarization in $t\bar{t} \rightarrow \text{lepton} + \text{jets}$ final states. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	3
48	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
47	Measurement of the inclusive ( $\text{t} \rightarrow \text{t} + \text{X}$ ) 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
46	Search for ZZ resonances in the $2\ell\ell$ final state in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	3
45	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
44	Measurement of the forward-backward asymmetry in $\Lambda_b^0$ and $\bar{\Lambda}_b^0$ baryon production in pp collisions at $s=1.96$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	3
43	Measurement of the direct CP-violating charge asymmetry in $D_s \rightarrow \pi^0 \pi^\pm$ decays. <i>Physical Review Letters</i> , <b>2014</b> , 112, 111804	7.4	3
42	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
41	Measurement of the cross section for production of ( $\bar{b} X$ ) decaying to muons in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	3
40	Search for Higgs boson production in oppositely charged dilepton and missing energy events in pp collisions at $s=1.96$ TeV. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	3
39	Measurements of the ( $p p \rightarrow Z Z$ ) production cross section and the ( $Z \rightarrow 4\ell$ ) branching fraction, and constraints on anomalous triple gauge couplings at ( $\sqrt{s} = 13, \text{TeV}$ ) <b>2018</b> , 78, 1		3
38	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
37	Measurement of the ( $\bar{t} t$ ) production cross section in the dilepton channel in pp collisions at ( $\sqrt{s} = 8$ TeV <b>2014</b> , 2014, 1		3



36	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
35	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
34	Measurement of spin correlation between top and antitop quarks produced in $pp$ collisions at $\sqrt{s}=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 757, 199-206	4.2	3
33	Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\ell$ 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
32	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
31	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
30	Measurement of the ratio of inclusive cross sections $(\sigma(pp \rightarrow Z+2b \text{ jets})/(\sigma(pp \rightarrow Z+2 \text{ jets}))$ in $pp$ collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	2
29	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
28	Measurement of differential cross sections in the kinematic angular variable $\phi^*$ 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
27	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
26	Search for $W^\pm \rightarrow tb$ in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	2
25	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
24	Measurements of the $pp \rightarrow W\ell$ and $pp \rightarrow Z\ell$ 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
23	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
22	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
21	Measurement of the direct CP violating charge asymmetry in $B^\pm \rightarrow D^0$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	1
20	Measurement of the forward-backward asymmetry of $\Lambda$ and $\bar{\Lambda}$ production in $pp$ collisions. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	1
19	Measurement of the forward-backward asymmetries in the production of $\Lambda$ and $\bar{\Lambda}$ baryons in $pp$ collisions. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	1

18	Combination of D0 measurements of the top quark mass. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	1
17	Development and validation of HERWIG7 tunes from CMS underlying-event measurements. <i>European Physical Journal C</i> , <b>2021</b> , 81, 312	4.2	1
16	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
15	Search for a heavy vector resonance decaying to a $W$ boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , <b>2021</b> , 81, 688	4.2	0
14	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	0
13	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
12	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , <b>2022</b> , 82, 153	4.2	0
11	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , <b>2022</b> , 82, 290	4.2	0
10	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
9	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
8	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
7	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
6	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
5	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
4	Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	
3	Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	
2	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	
1	Measurement of the inclusive $\overline{t}t$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	

