

# Andre Sznajder

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/956118/andre-sznajder-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

922  
papers

39,640  
citations

83  
h-index

158  
g-index

955  
ext. papers

45,041  
ext. citations

4.9  
avg, IF

3.71  
L-index

#	Paper	IF	Citations
922	Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 716, 30-61	4.2	5161
921	The CMS experiment at the CERN LHC. <i>Journal of Instrumentation</i> , <b>2008</b> , 3, S08004-S08004	1	1276
920	Observation of long-range, near-side angular correlations in pPb collisions at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 795-814	4.2	452
919	Combined results of searches for the standard model Higgs boson in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 26-48	4.2	437
918	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
917	Observation and studies of jet quenching in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review C</i> , <b>2011</b> , 84,	2.7	395
916	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. <i>Journal of High Energy Physics</i> , <b>2010</b> , 2010, 1	5.4	389
915	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at square root of $s = 7$ TeV. <i>Physical Review Letters</i> , <b>2010</b> , 105, 022002	7.4	353
914	Study of high-p T charged particle suppression in PbPb compared to pp collisions at ( $\sqrt{s_{\mathit{NN}}}=2.76\sim\mathit{TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	316
913	Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 724, 213-240	4.2	315
912	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
911	Measurement of the properties of a Higgs boson in the four-lepton final state. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	260
910	Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 235	4.2	250
909	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
908	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
907	Study of the mass and spin-parity of the Higgs boson candidate via its decays to Z boson pairs. <i>Physical Review Letters</i> , <b>2013</b> , 110, 081803	7.4	235
906	Particle-flow reconstruction and global event description with the CMS detector. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P10003-P10003	1	234

905	Measurement of the $B_s(0) \rightarrow \mu^+ \mu^-$ branching fraction and search for $B(0) \rightarrow \mu^+ \mu^-$ with the CMS experiment. <i>Physical Review Letters</i> , <b>2013</b> , 111, 101804	7.4	220
904	The CMS trigger system. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P01020-P01020	1	210
903	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at ( $\sqrt{s} = 0.9$ ) and 2.36 TeV. <i>Journal of High Energy Physics</i> , <b>2010</b> , 2010, 1	5.4	201
902	Search for supersymmetry at the LHC in events with jets and missing transverse energy. <i>Physical Review Letters</i> , <b>2011</b> , 107, 221804	7.4	188
901	Suppression of non-prompt $J/\psi$ and $(\Upsilon)(1S)$ in PbPb collisions at ( $\sqrt{s_{NN}} = 2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	184
900	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
899	Search for lepton-flavour-violating decays of the Higgs boson. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 749, 337-362	4.2	175
898	FCC Physics Opportunities. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	174
897	Observation of sequential $\mu$ suppression in PbPb collisions. <i>Physical Review Letters</i> , <b>2012</b> , 109, 222301	7.4	172
896	Evidence for collectivity in pp collisions at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 765, 193-220	4.2	171
895	Search for supersymmetry in pp collisions at 7 TeV in events with jets and missing transverse energy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 698, 196-218	4.2	166
894	Search for top-squark pair production in the single-lepton final state in pp collisions at ( $\sqrt{s}=8$ TeV). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	162
893	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at ( $\sqrt{s_{NN}}=2.76$ TeV). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	158
892	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
891	Combined measurements of Higgs boson couplings in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 421	4.2	153
890	Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	152
889	Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV. <i>Journal of Instrumentation</i> , <b>2018</b> , 13, P05011-P05011	1	152
888	Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P02014-P02014	1	149

887	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
886	Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review C</i> , <b>2013</b> , 87,	2.7	148
885	Evidence for Collective Multiparticle Correlations in p-Pb Collisions. <i>Physical Review Letters</i> , <b>2015</b> , 115, 012301	7.4	145
884	Search for the standard model Higgs boson produced in association with a W or a Z boson and decaying to bottom quarks. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	145
883	Jet momentum dependence of jet quenching in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 712, 176-197	4.2	144
882	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
881	Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	142
880	Search for the standard model Higgs boson decaying into two photons in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 403-425	4.2	138
879	Indications of suppression of excited $\chi$ states in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 107, 052302	7.4	137
878	Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $(\sqrt{s} = 0.9, 2.76, \sqrt{s} \sim 7 \text{ TeV})$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	133
877	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
876	Modification of jet shapes in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 730, 243-263	4.2	124
875	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
874	Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of Instrumentation</i> , <b>2018</b> , 13, P06015-P06015	1	118
873	Prompt and non-prompt J/ $\psi$ production in pp collisions at $(\sqrt{s} = 7)$ TeV. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	118
872	Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 736, 64-85	4.2	116
871	Search for dijet resonances in 7 TeV pp collisions at CMS. <i>Physical Review Letters</i> , <b>2010</b> , 105, 211801	7.4	116
870	Search for dark matter and large extra dimensions in pp collisions yielding a photon and missing transverse energy. <i>Physical Review Letters</i> , <b>2012</b> , 108, 261803	7.4	116

869	Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at $s=8\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 750, 494-519	4.2	113
868	Measurement of isolated photon production in pp and PbPb collisions at $s_{NN}=2.76\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 256-277	4.2	111
867	Search for neutral Higgs bosons decaying to tau pairs in pp collisions at $s=7\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 713, 68-90	4.2	111
866	A search for a doubly-charged Higgs boson in pp collisions at ( $\sqrt{s} = 7\text{TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	111
865	Search for resonances in the dijet mass spectrum from 7 TeV pp collisions at CMS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 704, 123-142	4.2	111
864	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 7\text{TeV}$ . <i>Physical Review Letters</i> , <b>2012</b> , 109, 171803	7.4	111
863	Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $s_{NN}=2.76\text{TeV}$ . <i>Physical Review C</i> , <b>2014</b> , 89,	2.7	109
862	Studies of jet quenching using isolated-photon + jet correlations in PbPb and pp collisions at $s_{NN}=2.76\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 773-794	4.2	109
861	Evidence for transverse-momentum- and pseudorapidity-dependent event-plane fluctuations in PbPb and pPb collisions. <i>Physical Review C</i> , <b>2015</b> , 92,	2.7	104
860	Measurements of inclusive W and Z cross sections in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	104
859	Inclusive search for a vector-like T quark with charge . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 729, 149-171	4.2	103
858	Measurement of differential top-quark-pair production cross sections in pp collisions at ( $\sqrt{s} = 7\text{TeV}$ ). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	102
857	Evidence for the 125 GeV Higgs boson decaying to a pair of $\tau$ leptons. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	101
856	Search for a light charged Higgs boson in top quark decays in pp collisions at ( $\sqrt{s} = 7\text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	101
855	CMS tracking performance results from early LHC operation. <i>European Physical Journal C</i> , <b>2010</b> , 70, 116541192 99		
854	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
853	Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s}=13\text{TeV}$ . <i>Physical Review Letters</i> , <b>2016</b> , 116, 071801	7.4	96
852	Observation of $t\bar{t}\overline{\eta}H$ Production. <i>Physical Review Letters</i> , <b>2018</b> , 120, 231801	7.4	96

851	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
850	Azimuthal anisotropy of charged particles at high transverse momenta in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Physical Review Letters</i> , <b>2012</b> , 109, 022301	7.4	95
849	Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 107, 132001	7.4	94
848	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
847	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
846	Measurement of jet fragmentation in PbPb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review C</i> , <b>2014</b> , 90,	2.7	89
845	Charged particle multiplicities in pp interactions at ( $\sqrt{s} = 0.9$ ), 2.36, and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	89
844	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at ( $\sqrt{s_{NN}} = 2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	87
843	Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 793, 520-551	4.2	86
842	Measurement of $W+W$ production and search for the Higgs boson in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 699, 25-47	4.2	86
841	Measurements of differential jet cross sections in proton-proton collisions at $\sqrt{s}=7$ TeV with the CMS detector. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	85
840	Search for the standard model Higgs boson in the decay channel $H \rightarrow ZZ \rightarrow 4\ell$ in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2012</b> , 108, 111804	7.4	85
839	Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	83
838	Observation of a peaking structure in the $J/\psi$ mass spectrum from $B \rightarrow J/\psi K$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 734, 261-281	4.2	83
837	Search for the standard model Higgs boson decaying to $\tau\tau$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 91-113	4.2	83
836	Measurement of the prompt $\tau$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 727, 381-402	4.2	83
835	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
834	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

833	First measurement of the cross section for top-quark pair production in proton-proton collisions at $\sqrt{s}=7\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 695, 424-443	4.2	79
832	Observation of Higgs Boson Decay to Bottom Quarks. <i>Physical Review Letters</i> , <b>2018</b> , 121, 121801	7.4	79
831	Observation of the Higgs boson decay to a pair of $\tau$ leptons with the CMS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 779, 283-316	4.2	78
830	Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 749, 560-582	4.2	78
829	Search for heavy narrow dilepton resonances in pp collisions at $\sqrt{s}=7\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 720, 63-82	4.2	78
828	Strange particle production in pp collisions at $\sqrt{s}=0.9\text{TeV}$ and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	78
827	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13\text{TeV}$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	77
826	Measurement of the rapidity and transverse momentum distributions of Z bosons in pp collisions at $\sqrt{s}=7\text{TeV}$ . <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	77
825	Upsilon production cross section in pp collisions at $\sqrt{s}=7\text{TeV}$ . <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	77
824	Study of W boson production in PbPb and pp collisions at $\sqrt{s_{NN}}=2.76\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 715, 66-87	4.2	76
823	Searches for new physics using the $t\bar{t}$ invariant mass distribution in pp collisions at $\sqrt{s}=8\text{TeV}$ . <i>Physical Review Letters</i> , <b>2013</b> , 111, 211804	7.4	76
822	Search for dijet resonances in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ and constraints on dark matter and other models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 769, 520-542	4.2	74
821	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s}=8\text{TeV}$ . <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	74
820	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=7\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 722, 5-27	4.2	74
819	Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s}=7, 8, \text{ and } 13\text{TeV}$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	74
818	Search for a Higgs boson decaying into a Z and a photon in pp collisions at $\sqrt{s}=7\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 726, 587-609	4.2	73
817	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
816	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{NN}}=2.76\text{TeV}$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	73

815	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
814	Measurement of the $W+W\bar{W}$ and $ZZ$ production cross sections in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 721, 190-211	4.2	72
813	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2847	4.2	71
812	Measurement of the $W$ , $Z$ , and $\gamma$ polarizations in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2013</b> , 110, 081802	7.4	71
811	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
810	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
809	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
808	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
807	Measurement of the top quark mass using proton-proton data at $\sqrt{s}=7$ and 8 TeV. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	69
806	$J/\psi$ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	69
805	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1	4.2	67
804	Search for vectorlike charge $2/3$ T quarks in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	66
803	Study of Z Boson Production in PbPb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 212301	7.4	66
802	Search for anomalous production of multilepton events in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	65
801	Measurement of the electron charge asymmetry in inclusive W production in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2012</b> , 109, 111806	7.4	65
800	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	64
799	Long-range two-particle correlations of strange hadrons with charged particles in pPb and PbPb collisions at LHC energies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 742, 200-224	4.2	64
798	Search for anomalous production of events with three or more leptons in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	64



797	Determination of the top-quark pole mass and strong coupling constant from the . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 728, 496-517	4.2	64
796	Measurement of the $(\overline{t}t)$ production cross section in the dilepton channel in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	64
795	Measurement of the muon charge asymmetry in inclusive pp-W+X production at $\sqrt{s}=7$ TeV and an improved determination of light parton distribution functions. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	63
794	Search for narrow resonances using the dijet mass spectrum in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	63
793	Search for neutral minimal supersymmetric standard model Higgs bosons decaying to tau pairs in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 231801	7.4	63
792	Measurement of the t-channel single top quark production cross section in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 107, 091802	7.4	63
791	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
790	Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	62
789	Study of vector boson scattering and search for new physics in events with two same-sign leptons and two jets. <i>Physical Review Letters</i> , <b>2015</b> , 114, 051801	7.4	62
788	Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 120, 221801	7.4	62
787	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
786	Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 747, 98-119	4.2	62
785	Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	62
784	Evidence of b-jet quenching in PbPb collisions at $(\sqrt{s_{NN}})=2.76$ TeV. <i>Physical Review Letters</i> , <b>2014</b> , 113, 132301	7.4	62
783	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
782	Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s}=8$ and $13\sqrt{\text{TeV}}$ . <i>Physical Review Letters</i> , <b>2016</b> , 117, 051802	7.4	61
781	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
780	Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	61

779	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
778	Search for microscopic black hole signatures at the Large Hadron Collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 697, 434-453	4.2	61
777	Nuclear modification factor of D0 mesons in PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 782, 474-496	4.2	61
776	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at ( $\sqrt{s_{NN}}$ ) = 2.76 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	60
775	Search for a standard model-like Higgs boson in the $\mu\mu$ and $e+e$ decay channels at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 744, 184-207	4.2	59
774	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
773	Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 709, 28-49	4.2	59
772	Search for narrow resonances in dilepton mass spectra in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 714, 158-179	4.2	59
771	Measurement of the $B(+)$ production cross section in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 112001	7.4	59
770	Angular analysis of the decay $B^0 \rightarrow \mu^+ \mu^-$ from pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 753, 424-448	4.2	59
769	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
768	Search for heavy Majorana neutrinos in $\mu\mu +$ jets events in proton-proton collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 748, 144-166	4.2	58
767	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
766	Suppression of $\chi(1S)$ , $\chi(2S)$ , and $\chi(3S)$ quarkonium states in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 770, 357-379	4.2	57
765	Search for Narrow Resonances in Dijet Final States at $\sqrt{s}=8$ TeV with the Novel CMS Technique of Data Scouting. <i>Physical Review Letters</i> , <b>2016</b> , 117, 031802	7.4	57
764	Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 736, 371-397	4.2	57
763	Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 284-306	4.2	57
762	Search for anomalous ( $\tilde{t}$ ) production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	57

761	Inclusive and differential measurements of the $t\bar{t}$ charge asymmetry in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 717, 129-130	4.2	57
760	Measurement of the isolated prompt photon production cross section in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 082001	7.4	57
759	Observation of a new $\Lambda$ baryon. <i>Physical Review Letters</i> , <b>2012</b> , 108, 252002	7.4	57
758	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
757	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
756	Search for pair production of third-generation scalar leptoquarks and top squarks in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 739, 229-249	4.2	56
755	Long-range and short-range dihadron angular correlations in central PbPb collisions at $(\sqrt{s_{NN}})=2.76$ TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	56
754	Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 767, 147-170	4.2	55
753	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
752	Measurement of the pseudorapidity and centrality dependence of the transverse energy density in Pb-Pb collisions at $(\sqrt{s_{NN}})=2.76$ TeV. <i>Physical Review Letters</i> , <b>2012</b> , 109, 152303	7.4	55
751	Search for long-lived charged particles in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	55
750	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
749	Measurement of inclusive W and Z boson production cross sections in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2014</b> , 112, 191802	7.4	54
748	Search for heavy long-lived charged particles in pp collisions at. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 713, 408-433	4.2	54
747	Evidence for associated production of a single top quark and W boson in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2013</b> , 110, 022003	7.4	54
746	Search for signatures of extra dimensions in the diphoton mass spectrum at the large hadron collider. <i>Physical Review Letters</i> , <b>2012</b> , 108, 111801	7.4	53
745	Search for a vectorlike quark with charge 2/3 in $t+Z$ events from pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 107, 271802	7.4	53
744	Search for $(\text{B})_{\text{s}}^0 \rightarrow \text{B}^0$ and $\text{B}^0 \rightarrow \text{B}^0$ decays. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	52

743	Interpretation of searches for supersymmetry with simplified models. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	52
742	A search for pair production of new light bosons decaying into muons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 752, 146-168	4.2	51
741	Search for new physics in final states with an energetic jet or a hadronically decaying W or Z boson and transverse momentum imbalance at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	51
740	Search for a light pseudoscalar Higgs boson in the dimuon decay channel in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2012</b> , 109, 121801	7.4	51
739	Search for narrow resonances in dilepton mass spectra in proton-proton collisions at $\sqrt{s}=13$ TeV and combination with 8 TeV data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 768, 57-80	4.2	50
738	Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	50
737	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
736	Observation of Electroweak Production of Same-Sign W Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 120, 081801	7.4	50
735	Search for supersymmetry in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 733, 328-353	4.2	50
734	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
733	Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 725, 243-270	4.2	50
732	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
731	Measurements of tt spin correlations and top-quark polarization using dilepton final states in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2014</b> , 112, 182001	7.4	49
730	Search for new physics with a monojet and missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 107, 201804	7.4	49
729	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
728	Search for resonant tt production in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	48
727	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
726	Search for a pseudoscalar boson decaying into a Z boson and the 125 GeV Higgs boson in $\mu\mu b\bar{b}$ final states. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 748, 221-243	4.2	48

725	Measurement of the ( $\bar{t}t$ ) production cross section and the top quark mass in the dilepton channel in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	48
724	Measurement of the $B_0$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 252001	7.4	48
723	Dijet azimuthal decorrelations in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 122003	7.4	48
722	Search for new resonances decaying via WZ to leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 740, 83-104	4.2	47
721	Evidence for the Higgs boson decay to a bottom quark-antiquark pair. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 780, 501-532	4.2	47
720	Searches for a heavy scalar boson H decaying to a pair of 125 GeV Higgs bosons hh or for a heavy pseudoscalar boson A decaying to Zh, in the final states with h. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 755, 217-244	4.2	46
719	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
718	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
717	Measurement of the relative prompt production rate of $\tau$ and $\mu$ in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2251	4.2	46
716	Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	46
715	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
714	Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy. <i>Physical Review Letters</i> , <b>2012</b> , 109, 071803	7.4	46
713	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
712	Exclusive $\tau^+\tau^-$ 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
711	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
710	Search for exclusive or semi-exclusive $\tau^+\tau^-$ production and observation of exclusive and semi-exclusive $e^+e^-$ production in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	45
709	Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2283	4.2	45
708	Measurement of dijet angular distributions and search for quark compositeness in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 201804	7.4	45

707	Measurement of the differential cross section for isolated prompt photon production in pp collisions at 7 TeV. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	45
706	Search for supersymmetry in pp collisions at $\sqrt{s}$ TeV in events with two photons and missing transverse energy. <i>Physical Review Letters</i> , <b>2011</b> , 106, 211802	7.4	45
705	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
704	Measurement of the $\sigma_{\text{had}}^{\text{had}}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 727, 101-125	4.2	44
703	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
702	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
701	First measurement of Bose-Einstein correlations in proton-proton collisions at $\sqrt{s}=0.9$ and 2.36 TeV at the LHC. <i>Physical Review Letters</i> , <b>2010</b> , 105, 032001	7.4	44
700	Measurement of the $t\bar{t}$ production cross section in pp collisions at 7 TeV in lepton+jets events using b-quark jet identification. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	44
699	Measurement of the differential dijet production cross section in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 700, 187-206	4.2	44
698	Search for $B(s)(0) \rightarrow \mu^+\mu^-$ and $B(0) \rightarrow \mu^+\mu^-$ decays in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 107, 191802	7.4	44
697	Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at 8 TeV. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	44
696	Measurement of angular parameters from the decay $B^0 \rightarrow \mu^+\mu^-$ in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 781, 517-541 <sup>2</sup>	4.2	44
695	Measurement of the ( $\overline{t}$ ) production cross section in the dilepton channel in pp collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	43
694	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
693	Searches for heavy Higgs bosons in two-Higgs-doublet models and for $t \rightarrow \tau h$ decay using multilepton and diphoton final states in pp collisions at 8 TeV. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	43
692	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
691	Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton final state. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	42
690	Search for new phenomena in monophoton final states in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 755, 102-124	4.2	42

689	Event activity dependence of $(Y)(nS)$ production in $(\sqrt{s_{NN}}) = 5.02$ TeV pPb and $(\sqrt{s}) = 2.76$ TeV pp collisions. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5-4	42
688	Angular coefficients of Z bosons produced in pp collisions at $\sqrt{s}=8$ TeV and decaying to $\mu\mu$ as a function of transverse momentum and rapidity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 750, 154-175	4-2	42
687	Measurement of the $\mu\mu$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 720, 83-104	4-2	42
686	Search for heavy neutrinos and W(R) bosons with right-handed couplings in a left-right symmetric model in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2012</b> , 109, 261802	7-4	42
685	Search for heavy, top-like quark pair production in the dilepton final state in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 716, 103-121	4-2	42
684	Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC. <i>Physical Review D</i> , <b>2011</b> , 84,	4-9	42
683	Measurement of $J/\psi$ and $\psi(2S)$ Prompt Double-Differential Cross Sections in pp Collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2015</b> , 114, 191802	7-4	41
682	Search for supersymmetry using razor variables in events with b-tagged jets in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,	4-9	41
681	Measurement of the ratio $B(t \rightarrow Wb)/B(t \rightarrow Wq)$ in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 736, 33-57	4-2	41
680	Measurement of differential cross sections for top quark pair production using the lepton+jets final state in proton-proton collisions at 13 TeV. <i>Physical Review D</i> , <b>2017</b> , 95,	4-9	41
679	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
678	Measurement of prompt $J/\psi$ pair production in pp collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5-4	41
677	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
676	Search for heavy Majorana neutrinos in $\mu\mu$ +jets and $e\mu$ +jets events in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 717, 109-128	4-2	41
675	Inclusive search for supersymmetry using razor variables in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2013</b> , 111, 081802	7-4	41
674	Search for pair-produced dijet resonances in four-jet final states in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2013</b> , 110, 141802	7-4	41
673	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
672	Measurement of nuclear modification factors of $\rho(1S)$ , $\rho(2S)$ , and $\rho(3S)$ mesons in PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 790, 270-293	4-2	40

671	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
670	Search for pair production of third-generation leptoquarks and top squarks in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2013</b> , 110, 081801	7-4	40
669	Inclusive search for squarks and gluinos in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2012</b> , 85,	4-9	40
668	Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in pPb and PbPb collisions at the CERN Large Hadron Collider. <i>Physical Review C</i> , <b>2018</b> , 97,	2-7	40
667	Measurement of inclusive jet cross sections in pp and PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review C</i> , <b>2017</b> , 96,	2-7	39
666	Search for displaced supersymmetry in events with an electron and a muon with large impact parameters. <i>Physical Review Letters</i> , <b>2015</b> , 114, 061801	7-4	39
665	Search for pair production of first and second generation leptoquarks in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,	4-9	39
664	Performance of missing transverse momentum reconstruction in proton-proton collisions at $\sqrt{s} = 13$ TeV using the CMS detector. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P07004-P07004	1	39
663	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
662	Study of the underlying event at forward rapidity in pp collisions at ( $\sqrt{s}=0.9, 2.76, 7$ TeV). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	39
661	Measurement of the ZZ production cross section and search for anomalous couplings in $2\ell\ell$ 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
660	Search for a Higgs boson decaying into a b-quark pair and produced in association with b quarks in proton-proton collisions at 7 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 722, 207-232	4-2	39
659	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
658	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
657	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
656	Measurement of the pp-ZZ production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 740, 250-272	4-2	38
655	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
654	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



653	Measurement of prompt $(2S)$ to $J/\psi$ 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
652	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
651	Measurement of $W$ and $Z$ production in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 701, 535-555	4.2	38
650	Measurement of the lepton charge asymmetry in inclusive $W$ production in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	38
649	Search for stopped Gluinos in pp collisions at square root $s=7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 011801	7.4	38
648	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
647	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
646	Differential cross section measurements for the production of a $W$ boson in association with jets in proton-proton collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 741, 12-37	4.2	37
645	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $[Formula: see text]$ TeV. <i>European Physical Journal C</i> , <b>2015</b> , 75, 288	4.2	37
644	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
643	Measurement of associated $W +$ charm production in pp collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	37
642	Jet production rates in association with $W$ and $Z$ bosons in pp collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	37
641	Measurement of masses in the $[Formula: see text]$ system by kinematic endpoints in pp collisions at $[Formula: see text]$ TeV. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2494	4.2	37
640	Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	37
639	Search for the standard model Higgs boson produced through vector boson fusion and decaying to $b\bar{b}$ . <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	37
638	Limits on the Higgs boson lifetime and width from its decay to four charged leptons. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	37
637	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
636	Measurement of the polarization of $W$ bosons with large transverse momenta in $W +$ jets events at the LHC. <i>Physical Review Letters</i> , <b>2011</b> , 107, 021802	7.4	37

635	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	37
634	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
633	Study of W boson production in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 750, 565-586	4-2	36
632	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
631	Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton-proton collisions at 8 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 749, 187-209	4-2	36
630	Measurement of the ratio of inclusive jet cross sections using the anti-kT algorithm with radius parameters $R=0.5$ and $0.7$ in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2014</b> , 90,	4-9	36
629	Measurement of the top-quark mass in $(\overline{t}t)$ events with dilepton final states in pp collisions at ( $\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4-2	36
628	First measurement of the underlying event activity at the LHC with ( $\sqrt{s} = 0.9$ ) TeV. <i>European Physical Journal C</i> , <b>2010</b> , 70, 555-572	4-2	36
627	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
626	Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 122, 121803	7-4	35
625	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
624	Search for pair-produced vectorlike B quarks in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,	4-9	35
623	Study of Z boson production in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 36-57	4-2	35
622	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
621	Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity p+Pb Collisions at $\sqrt{s_{NN}}=8.16$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 121, 082301	7-4	35
620	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
619	Angular analysis and branching fraction measurement of the decay $B^0 \rightarrow K^* \pi^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 727, 77-100	4-2	35
618	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

617	Searches for light- and heavy-flavour three-jet resonances in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 730, 193-214	4.2	35
616	Search for top squarks in R-parity-violating supersymmetry using three or more leptons and b-tagged jets. <i>Physical Review Letters</i> , <b>2013</b> , 111, 221801	7.4	35
615	Measurement of the ( $\mathit{\bar{t}}$ ) production cross section in pp collisions at ( $\sqrt{s}=7$ ) TeV using the kinematic properties of events with leptons and jets. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	35
614	Search for quark compositeness with the dijet centrality ratio in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2010</b> , 105, 262001	7.4	35
613	First measurement of hadronic event shapes in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 699, 48-67	4.2	35
612	Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 778, 101-127	4.2	35
611	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
610	Pseudorapidity distribution of charged hadrons in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 751, 143-163	4.2	34
609	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
608	Search for microscopic black holes in pp collisions at ( $\sqrt{s} = \text{7TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	34
607	Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2013</b> , 110, 172002	7.4	34
606	Search for heavy stable charged particles in pp collisions at ( $\sqrt{s} = 7;\text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	34
605	Search for three-jet resonances in pp collisions at square root( $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 107, 101801	7.4	34
604	Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 782, 440-467	4.2	34
603	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
602	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
601	Measurement of charged pion, kaon, and proton production in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	33
600	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

599	Search for a light charged Higgs boson decaying to $(\overline{\text{charm}})$ in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-37	5-4	33
598	Search for pair produced fourth-generation up-type quarks in pp collisions at $s=7$ TeV with a lepton in the final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 718, 307-328	4-2	33
597	Search for heavy lepton partners of neutrinos in proton-proton collisions in the context of the type III seesaw mechanism. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 718, 348-368	4-2	33
596	Search for Z resonances decaying to $t\bar{t}$ in dilepton+jets final states in pp collisions at $s=7$ TeV. <i>Physical Review D</i> , <b>2013</b> , 87,	4-9	33
595	Search for neutral resonances decaying into a Z boson and a pair of b jets or leptons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 369-394	4-2	33
594	Cross section measurement of t-channel single top quark production in pp collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 752-776	4-2	32
593	Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 775, 1-24	4-2	32
592	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
591	Search for fractionally charged particles in pp collisions at $s=7$ TeV. <i>Physical Review D</i> , <b>2013</b> , 87,	4-9	32
590	Search for resonances in the dilepton mass distribution in pp collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5-4	32
589	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
588	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
587	Measurement of the charge ratio of atmospheric muons with the CMS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2010</b> , 692, 83-104	4-2	32
586	Observation of Two Excited $B_{c}^{+}$ States and Measurement of the $B_{c}^{+}(2S)$ Mass in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 122, 132001	7-4	31
585	Search for a new bottomonium state decaying to $\mu\mu$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 727, 57-76	4-2	31
584	Search for a $\mu\mu$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 1229-1251	4-2	31
583	Measurement of the $t\bar{t}$ production cross section in pp collisions at $s=7$ TeV in dilepton final states containing a $\mu\mu$ . <i>Physical Review D</i> , <b>2012</b> , 85,	4-9	31
582	Measurement of the $B_s^0$ Production Cross Section with $B_s^0 \rightarrow \mu\mu$ Decays in pp Collisions at $s=7$ TeV. <i>Physical Review D</i> , <b>2011</b> , 84,	4-9	31

581	Search for narrow high-mass resonances in proton-proton collisions at $\sqrt{s}=8$ TeV decaying to a Z and a Higgs boson. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 748, 255-277	4.2	30
580	Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair. <i>Physical Review Letters</i> , <b>2018</b> , 120, 071802	7.4	30
579	Measurement of the $(\overline{\text{t}}\text{t})$ production cross section in the $e\bar{e}$ channel in proton-proton collisions at $(\sqrt{s}=7)$ and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	30
578	Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 758, 152-180	4.2	30
577	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
576	Event shapes and azimuthal correlations in Z+jets events in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 722, 238-261	4.2	30
575	Inclusive b-jet production in pp collisions at $(\sqrt{s} = 7\text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	30
574	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
573	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
572	Measurement of the $\overline{\text{B}}\text{B}$ cross section and the $\overline{\text{B}}\text{B}$ to $\overline{\text{B}}\text{B}$ ratio with $J/\psi$ decays in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 714, 136-157	4.2	30
571	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $(\sqrt{s} = 7\text{TeV})$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	30
570	Search for an $L\bar{L}$ gauge boson using $Z \rightarrow 4\ell$ events in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 792, 345-368	4.2	29
569	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
568	Search for pair production of vector-like quarks in the $bWb\bar{W}$ channel from proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 779, 82-106	4.2	29
567	Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or $\overline{\text{B}}$ b-quark jets in 7 TeV pp collisions using the variable $\cancel{E}_T$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	29
566	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
565	Measurement of vector boson scattering and constraints on anomalous quartic couplings from events with four leptons and two jets in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 774, 682-705	4.2	29
564	Measurement of diffractive dissociation cross sections in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	29

563	Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3060	4.2	29
562	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3129	4.2	29
561	Performance of reconstruction and identification of $\tau$ leptons decaying to hadrons and $\nu_{\tau}$ in pp collisions at $\sqrt{s}=13$ TeV. <i>Journal of Instrumentation</i> , <b>2018</b> , 13, P10005-P10005	1	29
560	Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2017</b> , 119, 141802	7.4	28
559	Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2016</b> , 116, 052002	7.4	28
558	Combined search for anomalous pseudoscalar HVV couplings in $VH(H\rightarrow b\bar{b})$ production and $H\rightarrow VV$ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 672-696	4.2	28
557	Search for heavy Majorana neutrinos in $e^+e^+\rightarrow$ jets and $e^+e^-\rightarrow$ 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
556	Search for long-lived particles in events with photons and missing energy in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 722, 273-294	4.2	28
555	Measurement of the $W$ and $Z$ inclusive cross sections in pp collisions at $\sqrt{s}=7$ TeV and limits on anomalous triple gauge boson couplings. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	28
554	Search for physics beyond the standard model using multilepton signatures in $e^+e^-\rightarrow$ jets. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 704, 411-433	4.2	28
553	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
552	Search for a heavy bottom-like quark in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 701, 204-223	4.2	28
551	Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	28
550	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two b quarks and two $\tau$ leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 785, 462-488	4.2	28
549	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
548	Measurements of properties of the Higgs boson decaying to a W boson pair in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 791, 96-129	4.2	27
547	Measurement of the production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , <b>2019</b> , 79, 368	4.2	27
546	Measurements of the $\tau(1S)$ , $\tau(2S)$ , and $\tau(3S)$ differential cross sections in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 749, 14-34	4.2	27

545	Observation of Correlated Azimuthal Anisotropy Fourier Harmonics in pp and p+Pb Collisions at the LHC. <i>Physical Review Letters</i> , <b>2018</b> , 120, 092301	7.4	27
544	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
543	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at ( $\sqrt{s}=7$ ;TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	27
542	Measurement of ( $\overline{B}B$ ) angular correlations based on secondary vertex reconstruction at ( $\sqrt{s} = 7, \text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	27
541	Measurement of the WW production cross section in pp collisions at square root[s]=1.96 TeV. <i>Physical Review Letters</i> , <b>2005</b> , 94, 151801	7.4	27
540	Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV/c in PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 776, 195-216	4.2	27
539	Measurement of prompt and nonprompt $[F_{\text{see text}}]$ production in $[F_{\text{see text}}]$ and $[F_{\text{see text}}]$ collisions at $[F_{\text{see text}}]$ . <i>European Physical Journal C</i> , <b>2017</b> , 77, 269	4.2	26
538	Measurement of the CP-violating weak phase $\phi_s$ and the decay width difference $\Delta\Gamma$ using the $B_s^0 \rightarrow \mu^+ \mu^- (1020)$ decay channel in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 757, 97-120	4.2	26
537	Search for top squarks and dark matter particles in opposite-charge dilepton final states at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	26
536	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
535	Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 726, 564-586	4.2	26
534	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
533	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
532	Search for high-mass resonances decaying into dilepton pairs in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 716, 82-102	4.2	26
531	Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at ( $\sqrt{s} = 7, \text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	26
530	Search for a heavy gauge boson $Z'$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 698, 21-39	4.2	26
529	Search for a $Z'$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 701, 160-179	4.2	26
528	Search for a $W'$ or techni- $W$ decaying into WZ in pp Collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2012</b> , 109, 141801	7.4	26

527	Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at $s=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	26
526	Search for monotop signatures in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2015</b> , 114, 101801	7.4	25
525	A measurement of the Higgs boson mass in the diphoton decay channel. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 805, 135425	4.2	25
524	Measurement of the W-boson helicity in top-quark decays from ( $\overline{\text{t}}$ ) production in lepton+jets events in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	25
523	Combination of searches for heavy resonances decaying to WW, WZ, ZZ, WH, and ZH boson pairs in proton-proton collisions at $\sqrt{s}=8$ and 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 774, 533-558	4.2	25
522	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
521	Measurements of the [ $\text{t}$ ][ $\overline{\text{t}}$ ] production cross sections in the [ $\text{t}$ ] channel in proton-proton collisions at [ $\sqrt{s}=8$ ] and [ $\sqrt{s}=13$ ] and combined constraints on triple gauge couplings. <i>European Physical Journal C</i> , <b>2015</b> , 75, 511	4.2	25
520	Search for resonant ( $\overline{\text{t}}$ ) production in lepton+jets events in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	25
519	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
518	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in collisions at 8. <i>European Physical Journal C</i> , <b>2018</b> , 78, 701	4.2	25
517	Search for supersymmetric partners of electrons and muons in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 790, 140-166	4.2	24
516	Search for long-lived particles decaying into displaced jets in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	24
515	Measurements of jet multiplicity and differential production cross sections of Z+jets events in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	24
514	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at [ $\sqrt{s}=8$ ]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 325	4.2	24
513	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
512	Measurement of inclusive jet production and nuclear modifications in pPb collisions at [ $\sqrt{s}=2.76$ ]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 372	4.2	24
511	Search for single production of a vector-like T quark decaying to a Z boson and a top quark in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 781, 574-600	4.2	24
510	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at [ $\sqrt{s}=13$ ]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2674	4.2	24



509	Search for heavy gauge $W^\pm$ bosons in events with an energetic lepton and large missing transverse momentum at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 770, 278-301	4.2	24
508	Search for $WW$ and $WZ$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	24
507	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
506	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
505	Search for three-jet resonances in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 718, 329-347	4.2	24
504	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 2\ell 2\ell$ channel in pp collisions at ( $\sqrt{s} = 7$ );{TeV}). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	24
503	Forward-Backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 752-772	4.2	24
502	Search for Higgs boson pair production in the $\gamma\gamma$ final state in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 788, 7-36	4.2	24
501	Search for Dark Matter and Supersymmetry with a Compressed Mass Spectrum in the Vector Boson Fusion Topology in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2017</b> , 118, 021802	7.4	23
500	Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 768, 103-129	4.2	23
499	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
498	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
497	Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2017</b> , 119, 221802	7.4	23
496	Measurement of four-jet production in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	23
495	Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 716, 260-284	4.2	23
494	Combined search for the quarks of a sequential fourth generation. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	23
493	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
492	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying leptons at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	23

491	Measurement of the WZ production cross section in pp collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 766, 268-290	4.2	22
490	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
489	Measurement of the cross section for electroweak production of $Z\nu$ in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 770, 380-402	4.2	22
488	Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 122, 021801	7.4	22
487	Transverse momentum spectra of inclusive b jets in pPb collisions at $s_{NN}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 754, 59-80	4.2	22
486	Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 781, 244-269	4.2	22
485	Study of Jet Quenching with Z+jet Correlations in Pb-Pb and pp Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2017</b> , 119, 082301	7.4	22
484	Search for anomalous couplings in boosted WW/WZ- $\bar{q}q$ production in proton-proton collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 21-42	4.2	22
483	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
482	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
481	Measurement of Bose-Einstein correlations in pp collisions at $(\sqrt{s} = 0.9)$ and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	22
480	Measurement of the ZZ production cross section and $Z \rightarrow \tau\tau$ branching fraction in pp collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 763, 280-303	4.2	22
479	Measurement of the WZ production cross section in pp collisions at [Formula: see text] and 8[Formula: see text] and search for anomalous triple gauge couplings at [Formula: see text]. <i>European Physical Journal C</i> , <b>2017</b> , 77, 236	4.2	21
478	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
477	Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at $s=8$ and 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 793, 320-347	4.2	21
476	Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton-proton collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 746, 79-99	4.2	21
475	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
474	Search for single production of scalar leptoquarks in proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	21

473	Measurements of $t\bar{t}$ spin correlations and top quark polarization using dilepton final states in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	21
472	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
471	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
470	Study of jet quenching with isolated-photon+jet correlations in PbPb and pp collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 785, 14-39	4.2	21
469	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
468	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
467	Measurement of the ( $\mathrm{t}\bar{\mathrm{t}}$ ) production cross section in the $\mu\mu$ jets channel in pp collisions at ( $\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	21
466	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
465	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
464	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
463	Search for excited quarks in the $\mu$ jet final state in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 738, 274-293	4.2	21
462	Search for a Higgs boson in the decay channel $H \rightarrow ZZ^{(*)} \rightarrow q(\overline{q}) \mu\mu$ in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	21
461	Inclusive b-hadron production cross section with muons in pp collisions at ( $\sqrt{s} = 7$ ; TeV). <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	21
460	Search for large extra dimensions in the diphoton final state at the Large Hadron Collider. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	21
459	Measurement of the integrated and differential $t\bar{t}$ production cross sections for high-pT top quarks in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	21
458	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at ( $\sqrt{s_{\mathrm{NN}}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	21
457	Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 745, 5-28	4.2	20
456	Measurement of quarkonium production cross sections in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 780, 251-272	4.2	20

455	Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet final states at $s=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	20
454	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
453	Search for a low-mass pseudoscalar Higgs boson produced in association with a $bb\bar{b}$ pair in pp collisions at $s=8\sqrt{2}$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 758, 296-320	4.2	20
452	Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton+jets events from pp collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	20
451	Search for new long-lived particles at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 780, 432-454	4.2	20
450	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
449	Search for pair production of second-generation leptoquarks at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	20
448	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 564	4.2	20
447	Measurement of the production cross section for pairs of isolated photons in pp collisions at ( $\sqrt{s}=7$ ;TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	20
446	Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 719, 42-61	4.2	20
445	Observation of a diffractive contribution to dijet production in proton-proton collisions at $s=7$ TeV. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	20
444	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
443	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
442	Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 815-840	4.2	20
441	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
440	Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 121, 241802	7.4	20
439	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
438	Measurement of electroweak WZ boson production and search for new physics in WZ + two jets events in pp collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 795, 281-307	4.2	19

437	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
436	Study of excited B0 states decaying to B0 $\pi^0$ in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 803, 135345	4.2	19
435	Search for resonant and nonresonant Higgs boson pair production in the ( $\overline{b}b\ell\ell$ ) final state in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	19
434	Study of B Meson Production in p+Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV Using Exclusive Hadronic Decays. <i>Physical Review Letters</i> , <b>2016</b> , 116, 032301	7.4	19
433	Search for massive WH resonances decaying into the $W\ell\ell$ final state at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 237	4.2	19
432	Measurement of exclusive photoproduction from protons in Pb collisions at $\sqrt{s}=2.76$ TeV. <i>European Physical Journal C</i> , <b>2019</b> , 79, 277	4.2	19
431	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
430	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
429	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
428	Measurement of the production cross section for a W boson and two b jets in pp collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 735, 204-225	4.2	19
427	Measurement of energy flow at large pseudorapidities in pp collisions at ( $\sqrt{s}=0.9$ ) and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	19
426	Measurement of differential cross sections for boson production in association with jets in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , <b>2018</b> , 78, 965	4.2	19
425	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
424	Measurement and interpretation of differential cross sections for Higgs boson production at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 792, 369-396	4.2	18
423	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , <b>2019</b> , 79, 364	4.2	18
422	Study of Z production in PbPb and pp collisions at ( $\sqrt{s_{NN}}=2.76$ ) TeV in the dimuon and dielectron decay channels. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	18
421	Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P06005-P06005	1	18
420	Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	18

419	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
418	. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	18
417	Relative Modification of Prompt $\Upsilon$ S and $J/\psi$ Yields from pp to PbPb Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2017</b> , 118, 162301	7.4	18
416	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
415	Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying $\tau$ 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	18
414	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
413	Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 7 TeV. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	18
412	Search for pair production of vectorlike quarks in the fully hadronic final state. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	18
411	Search for ( $\overline{\text{H}}\text{H}$ ) production in the ( $\text{H}\text{to}\overline{\text{b}}\text{b}$ ) decay channel with leptonic ( $\overline{\text{t}}\text{t}$ ) decays in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	17
410	Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 743, 503-525	4.2	17
409	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
408	Measurement of the inclusive jet cross section in pp collisions at ( $\sqrt{s} = 2.76, \text{text {TeV}}$ ). <i>European Physical Journal C</i> , <b>2016</b> , 76, 1	4.2	17
407	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp collisions at 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 795, 398-423	4.2	17
406	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s}=8$ TeV in dilepton final states containing one $\tau$ lepton. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 739, 23-43	4.2	17
405	Search for ( $\overline{\text{t}}\text{t}$ ) 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
404	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
403	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
402	Search for stopped long-lived particles produced in pp collisions at ( $\sqrt{s} = \text{text {7TeV}}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	17

401	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
400	Measurement of the azimuthal anisotropy of neutral pions in Pb-Pb collisions at $\sqrt{s}(\text{NN}) = 2.76 \text{ TeV}$ . <i>Physical Review Letters</i> , <b>2013</b> , 110, 042301	7.4	17
399	Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at ( $\sqrt{s} = 7 \text{ TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	17
398	Search for pair production of first-generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . <i>Physical Review Letters</i> , <b>2011</b> , 106, 201802	7.4	17
397	Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton + jets final states produced in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 762, 512-534	4.2	17
396	Measurement of double-differential cross sections for top quark pair production in pp collisions at [Formula: see text] and impact on parton distribution functions. <i>European Physical Journal C</i> , <b>2017</b> , 77, 459	4.2	16
395	A search for pair production of new light bosons decaying into muons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 796, 131-154	4.2	16
394	Searches for physics beyond the standard model with the variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . <i>European Physical Journal C</i> , <b>2020</b> , 80, 3	4.2	16
393	Search for new physics with the M T2 variable in all-jets final states produced in pp collisions at ( $\sqrt{s} = 13 \text{ TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	16
392	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into leptons in pp collisions at ( $\sqrt{s} = 8 \text{ TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	16
391	Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 798, 134985	4.2	16
390	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
389	Search for large extra dimensions in dimuon and dielectron events in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 711, 15-34	4.2	16
388	Search for exotic resonances decaying into WZ/ZZ in pp collisions at ( $\sqrt{s} = 7 \text{ TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	16
387	Search for flavor changing neutral currents in top quark decays in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 1252-1272	4.2	16
386	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
385	Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at ( $\sqrt{s} = 13 \text{ TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	16
384	Observation of the $\chi_{b1}(3P)$ and $\chi_{b2}(3P)$ and Measurement of their Masses. <i>Physical Review Letters</i> , <b>2018</b> , 121, 092002	7.4	16

383	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
382	Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	16
381	Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at $s=8$ TeV using the $\Delta E$ variable. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 767, 403-430	4.2	15
380	Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	15
379	Measurement of the cross section ratio $\sigma(t\bar{t}bb)/\sigma(t\bar{t}jj)$ in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 746, 132-153	4.2	15
378	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
377	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
376	Inclusive and differential measurements of the $t\bar{t}$ charge asymmetry in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 757, 154-179	4.2	15
375	Bose-Einstein correlations in pp, pPb, and PbPb collisions at $s_{NN}=0.9$ TeV. <i>Physical Review C</i> , <b>2018</b> , 97,	2.7	15
374	Search for pair production of first-generation scalar leptoquarks at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	15
373	Search for long-lived particles using nonprompt jets and missing transverse momentum with proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 797, 134876	4.2	15
372	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
371	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
370	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
369	Measurement of the differential inclusive B+ hadron cross sections in pp collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 771, 435-456	4.2	15
368	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
367	Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks in pp collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 800, 135087	4.2	15
366	Measurements of $t\bar{t}H$ Production and the CP Structure of the Yukawa Interaction between the Higgs Boson and Top Quark in the Diphoton Decay Channel. <i>Physical Review Letters</i> , <b>2020</b> , 125, 061801	7.4	15



365	Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV Using Isolated Photon-Tagged Jets. <i>Physical Review Letters</i> , <b>2018</b> , 121, 242301	7.4	15
364	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
363	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
362	Observation of prompt J/ψ meson elliptic flow in high-multiplicity pPb collisions at $\sqrt{s_{NN}}=8.16$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 791, 172-194	4.2	14
361	Measurement of the production cross section ratio $\sigma(B^0(1P))/\sigma(B^-(1P))$ in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 743, 383-402	4.2	14
360	Pileup mitigation at CMS in 13 TeV data. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P09018-P09018	1	14
359	Search for disappearing tracks in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 806, 135502	4.2	14
358	Search for heavy resonances decaying to a top quark and a bottom quark in the lepton+jets final state in proton-proton collisions at 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 777, 39-63	4.2	14
357	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
356	Search for $W \rightarrow \tau \nu$ decaying to tau lepton and neutrino in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 755, 196-216	4.2	14
355	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
354	Charged-particle angular correlations in XeXe collisions at $\sqrt{s_{NN}}=5.44$ TeV. <i>Physical Review C</i> , <b>2019</b> , 100,	2.7	14
353	Measurement of the $(\Lambda_{\text{charm}}^0)$ lifetime in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	14
352	Measurement of the $(\overline{\text{charm}})$ 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
351	Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 306-329	4.2	14
350	Search for Higgs boson pair production in the $b\bar{b}$ final state in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	14
349	Measurement of the $(\overline{\text{charm}})$ 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
348	Measurements of production cross sections of WZ and same-sign WW boson pairs in association with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 809, 135710	4.2	14

347	Search for vectorlike leptons in multilepton final states in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	14
346	Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	14
345	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 768, 137-162	4.2	13
344	Measurement of the ratio of the production cross sections times branching fractions of $B \rightarrow c \bar{c} \ell \bar{\ell}$ and $B \rightarrow c \bar{c} \ell \bar{\ell} \nu$ and $(\text{mathcal{B}}\{\text{B}\}\{\text{left}\{\{\text{mathrm}\{\text{B}\}\}_{\text{mathrm}\{\text{c}\}\}^{\text{pm}}\}\text{to}\text{mathrm}\{\text{J}\}/\text{psi}\{\text{pi}\}^{\text{pm}}\}\{\text{pi}\}^{\text{pm}}\}\{\text{pi}\}^{\text{pm}}\}\text{right})/\text{mathrm}\{\text{mathcal{B}}\}\{\text{left}\{\{\text{mathrm}\{\text{B}\}\}_{\text{mathrm}\{\text{c}\}\}^{\text{pm}}\}\text{to}\text{mathrm}\{\text{J}\}/\text{psi}\{\text{pi}\}^{\text{pm}}\}\{\text{pi}\}^{\text{pm}}\}\text{right})$ in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> ,	5.4	13
343	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
342	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
341	Search for a Higgs boson decaying into $\tau\tau$ with low dilepton mass in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 753, 341-362	4.2	13
340	Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	13
339	Measurement of exclusive $\gamma$ photoproduction in ultraperipheral pPb collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 702	4.2	13
338	Measurement of the top quark mass in the all-jets final state at and combination with the lepton+jets channel. <i>European Physical Journal C</i> , <b>2019</b> , 79, 313	4.2	13
337	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
336	Searches for Higgs bosons in pp collisions at $s=7$ and 8 TeV in the context of four-generation and fermiophobic models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 725, 36-59	4.2	13
335	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
334	Search for charge-asymmetric production of $\tau$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 717, 351-370	4.2	13
333	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
332	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
331	Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	13
330	Measurement of the ratio of the 3-jet to 2-jet cross sections in pp collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 702, 336-354	4.2	13

329	Search for pair production of second-generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 201803	7.4	13
328	Measurement of $(\bar{h} \rightarrow h)$ normalised multi-differential cross sections in $(pp)$ collisions at $(\sqrt{s}=13, \text{TeV})$ , and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	13
327	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
326	Measurement of the top quark polarization and $tt$ spin correlations using dilepton final states in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	13
325	Search for $(\overline{t}t)H$ production in the all-jet final state in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	13
324	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
323	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
322	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
321	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
320	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2020</b> , 124, 131802	7.4	12
319	Suppression of Excited $\chi$ 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
318	Measurements of $tt$ cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 776, 355-378	4.2	12
317	Measurement of normalized differential $(\overline{t}t)$ 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
316	Search for supersymmetry in events with soft leptons, low jet multiplicity, and missing transverse energy in proton-proton collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 9-35	4.2	12
315	Measurement of the production cross section for $(Z)\gamma \rightarrow \nu \overline{\nu} \gamma$ in pp collisions at $(\sqrt{s} = 7)$ TeV and limits on $ZZ$ and $Z$ triple gauge boson couplings. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	12
314	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
313	Principal-component analysis of two-particle azimuthal correlations in PbPb and pPb collisions at CMS. <i>Physical Review C</i> , <b>2017</b> , 96,	2.7	12
312	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

311	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
310	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
309	Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 723, 280-301	4.2	12
308	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
307	Study of the Dijet mass spectrum in pp $\rightarrow W$ +jets events at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2012</b> , 109, 251801	7.4	12
306	Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	12
305	Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	12
304	Measurement of jet substructure observables in $tt$ events from proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	12
303	Studies of $\eta$ and mesons including the observation of the decay in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 939	4.2	12
302	Electroweak production of two jets in association with a Z boson in proton-proton collisions at ( $\sqrt{s}=$ ) 13 (text {TeV}). <i>European Physical Journal C</i> , <b>2018</b> , 78, 1	4.2	12
301	Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 778, 263-291	4.2	12
300	Search for R-parity violating supersymmetry with displaced vertices in proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	11
299	Search for single production of a heavy vector-like T quark decaying to a Higgs boson and a top quark with a lepton and jets in the final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 771, 80-105	4.2	11
298	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
297	Production of $\Lambda^+$ baryons in proton-proton and lead-lead collisions at $s_{NN}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 803, 135328	4.2	11
296	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
295	Measurement of the charge asymmetry in top quark pair production in pp collisions at $s=8$ TeV using a template method. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	11
294	Search for neutral MSSM Higgs bosons decaying to $\tau\tau$ in pp collisions at $s=7$ and $8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 752, 221-246	4.2	11

293	Measurement of the associated production of a single top quark and a Z boson in pp collisions at $s=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 779, 358-384	4.2	11
292	Search for MSSM Higgs bosons decaying to $\mu\mu$ in proton-proton collisions at $s=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 798, 134992	4.2	11
291	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
290	Search for single production of vector-like quarks decaying into a b quark and a W boson in proton-proton collisions at $s=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 634-656	4.2	11
289	Observation of Top Quark Production in Proton-Nucleus Collisions. <i>Physical Review Letters</i> , <b>2017</b> , 119, 242001	7.4	11
288	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
287	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
286	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
285	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
284	Search for supersymmetry with razor variables in pp collisions at $s=7$ TeV. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	11
283	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
282	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
281	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 4\mu$ decay channel in pp collisions at $(\sqrt{s}=7\text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	11
280	Rapidity distributions in exclusive Z+jet and $\mu$ jet events in pp collisions at $s=7$ TeV. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	11
279	Search for first generation scalar leptoquarks in the . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 703, 246-266	4.2	11
278	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
277	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
276	Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC. <i>Journal of Instrumentation</i> , <b>2021</b> , 16, P05014	1	11

275	Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to lepton pairs. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	11
274	Search for $Z\bar{\nu}$ resonances using leptonic and hadronic final states in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	11
273	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
272	A multi-dimensional search for new heavy resonances decaying to boosted $\gamma\gamma$ 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
271	Measurement of the top quark mass using charged particles in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	10
270	Search for supersymmetry in pp collisions at $\sqrt{s}=8$ TeV in final states with boosted W bosons and b jets using razor variables. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	10
269	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
268	Measurement of spin correlations in $t\bar{t}$ production using the matrix element method in the muon+jets final state in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 758, 321-346	4.2	10
267	Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 798, 134952	4.2	10
266	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
265	Search for physics beyond the standard model in events with leptons, jets, and large transverse momentum imbalance in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2493	4.2	10
264	Search for standard model production of four top quarks in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 336-358	4.2	10
263	Search for high-mass $Z\bar{\nu}$ resonances in proton-proton collisions at $\sqrt{s}=8$ and 13 TeV using jet substructure techniques. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 363-387	4.2	10
262	Search for black holes and other new phenomena in high-multiplicity final states in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 774, 279-307	4.2	10
261	Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	10
260	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
259	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
258	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

257	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
256	Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	10
255	Search for contact interactions using the inclusive jet pT spectrum in pp collisions at $s=7$ TeV. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	10
254	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
253	Measurement of the $Y(1S)$ pair production cross section and search for resonances decaying to $Y(1S)\mu\mu$ in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 808, 135578	4.2	10
252	Measurement of the $Z\mu\mu$ production cross section in pp collisions at $s=8$ TeV and limits on anomalous $ZZ\mu\mu$ and $Z\mu\mu$ trilinear gauge boson couplings. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 760, 448-468	4.2	10
251	Measurement of the inelastic cross section in proton-lead collisions at $s_{NN}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 641-662	4.2	10
250	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
249	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	10
248	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
247	Inclusive search for supersymmetry using razor variables in pp collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	9
246	Measurement of associated production of a boson and a charm quark in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 269	4.2	9
245	Search for gauge-mediated supersymmetry in events with at least one photon and missing transverse momentum in pp collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 780, 118-143	4.2	9
244	Measurements of $t\bar{t}$ charge asymmetry using dilepton final states in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 760, 365-386	4.2	9
243	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
242	Search for exotic decays of a Higgs boson into undetectable particles and one or more photons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 753, 363-388	4.2	9
241	Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at 13 TeV. <i>Physical Review Letters</i> , <b>2018</b> , 120, 241801	7.4	9
240	Search for baryon number violation in top-quark decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 731, 173-196	4.2	9

239	Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 1208-1228	4.2	9
238	Search for associated production of dark matter with a Higgs boson decaying to ( $\overline{b}b$ ) or $t\bar{t}$ ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	9
237	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
236	Measurement of electroweak-induced production of $W\gamma$ 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
235	Search for supersymmetry in final states with a single lepton, b-quark jets, and missing transverse energy in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	9
234	Publisher's Note: Search for Dijet Resonances in 7 TeV pp Collisions at CMS [Phys. Rev. Lett. 105, 211801 (2010)]. <i>Physical Review Letters</i> , <b>2011</b> , 106,	7.4	9
233	Observation of nuclear modifications in $W\gamma$ boson production in pPb collisions at $\sqrt{s_{NN}}=8.16$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 800, 135048	4.2	9
232	Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $[e\mu]$ pair in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 317	4.2	9
231	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
230	Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 697	4.2	9
229	Measurement of the top quark mass in the dileptonic $t\bar{t}$ decay channel using the mass observables $M_{b\ell}$ , $M_{T2}$ , and $M_{b\ell n}$ in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	8
228	Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and pp Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 122, 152001	7.4	8
227	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
226	Search for Higgsino pair production in pp collisions at $\sqrt{s}=13$ TeV in final states with large missing transverse momentum and two Higgs bosons decaying via $H\rightarrow b\bar{b}$ . <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	8
225	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at ( $\sqrt{s_{NN}}=5.02$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	8
224	Constraining Gluon Distributions in Nuclei Using Dijets in Proton-Proton and Proton-Lead Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 121, 062002	7.4	8
223	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
222	Search for excited leptons in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 720, 309-329	4.2	8



221	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
220	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
219	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
218	A search for excited leptons in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 704, 143-162	4.2	8
217	Heavy flavour production and fragmentation. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2001</b> , 27, 1111-1157	2.9	8
216	Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 800, 135042	4.2	8
215	Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	8
214	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
213	Search for R-parity violating supersymmetry in pp collisions at $s=13$ TeV using b jets in a final state with a single lepton, many jets, and high sum of large-radius jet masses. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 783, 114-139	4.2	8
212	Search for singly and pair-produced leptoquarks coupling to third-generation fermions in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 819, 136446	4.2	8
211	Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	7
210	Search for electroweak production of charginos in final states with two leptons in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	7
209	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
208	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>Physical Review Letters</i> , <b>2017</b> , 119, 151802	7.4	7
207	Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	7
206	Studies of Beauty Suppression via Nonprompt $D^0$ Mesons in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 123, 022001	7.4	7
205	Search for Dark Matter Particles Produced in Association with a Top Quark Pair at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 122, 011803	7.4	7
204	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at ( $\sqrt{s}=13$ , text {TeV}). <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	7

203	Search for rare decays of and Higgs bosons to and a photon in proton-proton collisions at $\sqrt{s}=13$ . <i>European Physical Journal C</i> , <b>2019</b> , 79, 94	4.2	7
202	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
201	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
200	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
199	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
198	Jet properties in PbPb and pp collisions at $(\sqrt{s_{\text{N};\text{N}}}=5.02)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
197	Measurement of the semileptonic $(\overline{\text{t}} + \text{t})$ production cross section in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	7
196	Searches for W bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	7
195	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
194	Measurement of the $Z\gamma$ 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
193	Searches for R-parity-violating supersymmetry in pp collisions at $s=8$ TeV in final states with 0 leptons. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	7
192	Search for long-lived particles using delayed photons in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	7
191	Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 123, 231803	7.4	7
190	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
189	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
188	Precision measurement of the structure of the CMS inner tracking system using nuclear interactions. <i>Journal of Instrumentation</i> , <b>2018</b> , 13, P10034-P10034	1	7
187	Search for a heavy resonance decaying into a Z boson and a Z or W boson in $Zq$ final states at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
186	Search for dark matter produced in association with a Higgs boson decaying to $\text{t}\bar{\text{t}}$ ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7

185	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
184	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
183	Search for a Light Charged Higgs Boson Decaying to a W Boson and a CP-Odd Higgs Boson in Final States with $e\bar{\nu}$ in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 123, 131802	7.4	6
182	Measurement of prompt $(ZS)$ production cross sections in protonlead and protonproton collisions at $\sqrt{s}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 790, 509-532	4.2	6
181	Search for single production of vector-like quarks decaying to a top quark and a boson in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 90	4.2	6
180	Observation of Single Top Quark Production in Association with a Z Boson in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 122, 132003	7.4	6
179	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
178	Search for a light charged Higgs boson in the $H\bar{H}-e\bar{\nu}$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	6
177	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
176	Measurement of electroweak production of a boson in association with two jets in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 43	4.2	6
175	Constraints on the $\rho_{c1}$ versus $\rho_{c2}$ Polarizations in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2020</b> , 124, 162002	7.4	6
174	Measurement of the $B$ polarization and angular parameters in $B\rightarrow\gamma/\pi$ decays from pp collisions at $\sqrt{s}=7$ and 8 TeV. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	6
173	Search for supersymmetry in electroweak production with photons and large missing transverse energy in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 479-500	4.2	6
172	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
171	Search for vectorlike light-flavor quark partners in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	6
170	Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at ( $\sqrt{s} = 13$ ,text {TeV} ). <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	6
169	Search for anomalous production of highly boosted Z bosons decaying to $\mu\bar{\mu}$ in protonproton collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 722, 28-47	4.2	6
168	Measurement of the mass difference between top quark and antiquark in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 770, 50-71	4.2	6

167	Search for leptophobic Z' bosons decaying into four-lepton final states in proton-proton collisions at $s=8\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 773, 563-584	4.2	6
166	Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at $s=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 775, 315-337	4.2	6
165	Search for the standard model Higgs boson produced 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	6
164	Search for the associated production of the Higgs boson with a top-quark pair <b>2014</b> , 2014, 1		6
163	Search for supersymmetry in pp collisions at $s=13\text{ TeV}$ with $137\text{ fb}^{-1}$ in final states with a single lepton using the sum of masses of large-radius jets. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	6
162	Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at $s=13\text{ TeV}$ . <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	6
161	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
160	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
159	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 893	4.2	6
158	Search for new physics in top quark production in dilepton final states in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 886	4.2	6
157	Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at $s=13\text{ TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 812, 136018	4.2	6
156	Pseudorapidity and transverse momentum dependence of flow harmonics in pPb and PbPb collisions. <i>Physical Review C</i> , <b>2018</b> , 98,	2.7	6
155	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
154	Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at $\sqrt{s}=13\text{ TeV}$ . <i>Physical Review Letters</i> , <b>2018</b> , 121, 221802	7.4	6
153	Search for a heavy resonance decaying into a Z boson and a vector boson in the $(\overline{\nu}_q\overline{\nu}_q)$ final state. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
152	Search for pair production of excited top quarks in the lepton + jets final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 778, 349-370	4.2	6
151	Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at $s_{NN}=5.02\text{ TeV}$ . <i>Physical Review C</i> , <b>2017</b> , 96,	2.7	5
150	Measurement of the mass of the top quark in decays with a J/ $\psi$ meson in pp collisions at 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	5

149	An embedding technique to determine $\mathbb{B}$ backgrounds in proton-proton collision data. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P06032-P06032	1	5
148	Measurement of the top quark Yukawa coupling from $tt$ -kinematic distributions in the lepton+jets final state in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 100,	4-9	5
147	Measurement of neutral strange particle production in the underlying event in proton-proton collisions at $s=7$ TeV. <i>Physical Review D</i> , <b>2013</b> , 88,	4-9	5
146	Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	5
145	Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2015</b> , 92,	4-9	5
144	Search for supersymmetry with photons in pp collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2015</b> , 92,	4-9	5
143	Search for jet extinction in the inclusive jet- $p_T$ spectrum from proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2014</b> , 90,	4-9	5
142	Search for contact interactions in $\mathbb{B}$ -events in pp collisions at $s=7$ TeV. <i>Physical Review D</i> , <b>2013</b> , 87,	4-9	5
141	Measurement of energy flow at large pseudorapidities in pp collisions at ( $\sqrt{s} = 0.\{9\}$ ) and 7 TeV <b>2011</b> , 2011, 1		5
140	Observation of the $B_0 \rightarrow \mu^+ \mu^-$ decay in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 802, 135203	4-2	5
139	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
138	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 378	4-2	5
137	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
136	Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 757, 6-31	4-2	5
135	$\langle n_S \rangle$ polarizations versus particle multiplicity in pp collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 761, 31-52	4-2	5
134	Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at $s_{NN}=5.44$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 799, 135049	4-2	5
133	Probing the chiral magnetic wave in pPb and PbPb collisions at $s_{NN}=5.02$ TeV using charge-dependent azimuthal anisotropies. <i>Physical Review C</i> , <b>2019</b> , 100,	2-7	5
132	Measurement of the $tt\gamma$ production cross section in the all-jet final state in pp collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 803, 135285	4-2	5

131	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
130	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
129	Search for excited quarks of light and heavy flavor in $b\bar{b}$ jet final states in proton-proton collisions at $s=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 781, 390-411	4.2	5
128	Search for Higgs and Z boson decays to $J/\psi\gamma$ pairs in the four-muon final state in proton-proton collisions at $s=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 797, 134811	4.2	4
127	Search for the pair production of light top squarks in the $e\bar{e}$ final state in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	4
126	Study of the underlying event in top quark pair production in collisions at 13. <i>European Physical Journal C</i> , <b>2019</b> , 79, 123	4.2	4
125	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 20	4.2	4
124	Distributions of topological observables in inclusive three- and four-jet events in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 302	4.2	4
123	Measurements of the W boson rapidity, helicity, double-differential cross sections, and charge asymmetry in pp collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	4
122	Measurement of the top quark Yukawa coupling from $t\bar{t}$ kinematic distributions in the dilepton final state in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	4
121	Search for resonant pair production of Higgs bosons in the $b\bar{b}Z\gamma$ channel in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	4
120	Evidence for $(\text{text } \{W\})\text{text } \{W\})$ production from double-parton interactions in proton-proton collisions at ( $\sqrt{s} = 13$ , $\text{text } \{\text{TeV}\}$ ). <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	4
119	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
118	Pseudorapidity distributions of charged hadrons in proton-lead collisions at ( $\sqrt{s_{\text{NN}}}=5.02$ ) and 8.16 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
117	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
116	Measurement of the ratio $B(\text{Bs}0\rightarrow\gamma\ell\ell)/B(\text{Bs}0\rightarrow\gamma\mu\mu)$ in pp collisions at $s=7\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 756, 84-102	4.2	4
115	Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $s=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 779, 166-190	4.2	4
114	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

113	Search for high-mass $Z\tau$ 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
112	Search for CP violation in ( $\overline{t}$ ) production and decay in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	4
111	Study of final-state radiation in decays of Z bosons produced in pp collisions at 7 TeV. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	4
110	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
109	Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton interactions. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P10002-P10002	1	4
108	$W+W\tau$ boson pair production in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	4
107	Observation of the $B_{s^0} \rightarrow X(3872) \tau^+ \tau^-$ Decay. <i>Physical Review Letters</i> , <b>2020</b> , 125, 152001	7.4	4
106	Search for R-parity violating decays of a top squark in proton-proton collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 760, 178-201	4.2	4
105	Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at ( $\sqrt{s}=13$ TeV). <i>European Physical Journal C</i> , <b>2018</b> , 78, 1	4.2	4
104	Search for long-lived particles using displaced jets in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	4
103	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
102	Search for top squark production in fully hadronic final states in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	4
101	Evidence for electroweak production of four charged leptons and two jets in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 812, 135992	4.2	4
100	Search for bottom-type, vectorlike quark pair production in a fully hadronic final state in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	3
99	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
98	Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2020</b> , 124, 041803	7.4	3
97	Study of $J/\psi$ meson production inside jets in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 804, 135409	4.2	3
96	Measurement of the inclusive ( $\overline{t}$ ) cross section in pp collisions at ( $\sqrt{s}=5.02$ ) TeV using final states with at least one charged lepton. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	3

95	Search for ZZ resonances in the 2 $\ell$ final state in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	3
94	Search for the production of $W\Xi W\Xi$ events at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 100,	4-9	3
93	Search for pair production of excited top quarks in the lepton + jets final state. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5-4	3
92	Search for supersymmetry in events with photons and missing transverse energy in pp collisions at 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 769, 391-412	4-2	3
91	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
90	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
89	Measurement of the cross section for production of ( $\overline{b} X$ ) decaying to muons in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	3
88	Measurements of the ( $\mathrm{p}\mathrm{p}\rightarrow\mathrm{Z}\mathrm{Z}$ ) production cross section and the ( $\mathrm{Z}\rightarrow 4\ell$ ) branching fraction, and constraints on anomalous triple gauge couplings at ( $\sqrt{s} = 13, \text{TeV}$ ) <b>2018</b> , 78, 1		3
87	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
86	Measurement of the ( $\overline{t}t$ ) production cross section in the dilepton channel in pp collisions at ( $\sqrt{s}$ ) = 8 TeV <b>2014</b> , 2014, 1		3
85	Observation of electroweak production of $W\Xi$ with two jets in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 811, 135988	4-2	3
84	Measurement of CKM matrix elements in single top quark t-channel production in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 808, 135609	4-2	3
83	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
82	Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2020</b> , 125, 102001	7-4	3
81	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
80	Studies of inclusive four-jet production with two b-tagged jets in proton-proton collisions at 7 TeV. <i>Physical Review D</i> , <b>2016</b> , 94,	4-9	3
79	Measurement of differential cross sections for Z boson pair production in association with jets at $s=8$ and 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 789, 19-44	4-2	3
78	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



77	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
76	Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production and decay using the four-lepton final state. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	3
75	Observation of the decay $B \rightarrow K^* \mu^+ \mu^-$ in pp collisions at $\sqrt{s}=8\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 764, 66-86	4.2	2
74	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 305	4.2	2
73	Multiparticle correlation studies in pPb collisions at $\sqrt{s_{NN}}=8.16\text{ TeV}$ . <i>Physical Review C</i> , <b>2020</b> , 101,	2.7	2
72	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
71	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
70	Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at $\sqrt{s}=7$ and 8 TeV. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	2
69	Search for $W \rightarrow b\bar{b}$ in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	2
68	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
67	Search for supersymmetry in events with one lepton and multiple jets exploiting the angular correlation between the lepton and the missing transverse momentum in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 780, 384-409	4.2	2
66	Centrality and pseudorapidity dependence of the transverse energy density in pPb collisions at $\sqrt{s_{NN}}=5.02\text{ TeV}$ . <i>Physical Review C</i> , <b>2019</b> , 100,	2.7	2
65	Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 795, 76-99	4.2	2
64	Measurements of the $pp \rightarrow W\gamma$ and $pp \rightarrow Z\gamma$ 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
63	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
62	Search for new physics in events with same-sign dileptons and b jets in pp collisions at ( $\sqrt{s}=8$ ) TeV <b>2013</b> , 2013, 1		2
61	Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s}=13\text{ TeV}$ . <i>Physical Review Letters</i> , <b>2020</b> , 125, 151802	7.4	2
60	Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in pp Collisions at $\sqrt{s}=13\text{ TeV}$ . <i>Physical Review Letters</i> , <b>2020</b> , 124, 202001	7.4	2

59	Study of central exclusive production in proton-proton collisions at and 13TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80, 718	4.2	2
58	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
57	Performance of the CMS muon trigger system in proton-proton collisions at $\sqrt{s} = 13$ . <i>Journal of Instrumentation</i> , <b>2021</b> , 16, P07001	1	2
56	Search for pair-produced three-jet resonances in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	2
55	Search for lepton-flavor violating decays of the Higgs boson in the final states in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	2
54	Search for $W$ bosons decaying to a top and a bottom quark at $s=13$ TeV in the hadronic final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 820, 136535	4.2	2
53	Search for supersymmetry in events with a photon, jets, $\bar{j}$ -jets, and missing transverse momentum in proton-proton collisions at 13. <i>European Physical Journal C</i> , <b>2019</b> , 79, 444	4.2	1
52	Search for $W$ Boson Decays to Three Charged Pions. <i>Physical Review Letters</i> , <b>2019</b> , 122, 151802	7.4	1
51	Search for Narrow Higgs Resonances in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 122, 081804	7.4	1
50	Evidence for Top Quark Production in Nucleus-Nucleus Collisions. <i>Physical Review Letters</i> , <b>2020</b> , 125, 222001	7.4	1
49	Search for dijet resonances using events with three jets in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 805, 135448	4.2	1
48	Evidence for $X(3872)$ in Pb-Pb Collisions and Studies of its Prompt Production at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2022</b> , 128, 032001	7.4	1
47	Measurement of differential $t\bar{t}$ production cross sections in the full kinematic range using lepton+jets events from proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	1
46	Measurement of the electroweak production of $Z$ and two jets in proton-proton collisions at $s=13$ TeV and constraints on anomalous quartic gauge couplings. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	1
45	Study of the $(\mathbf{B}^+ \rightarrow \mathbf{J}/\psi \overline{\Lambda} \mathbf{p})$ decay in proton-proton collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	1
44	Strange hadron production in pp and pPb collisions at $s_{NN}=5.02$ TeV. <i>Physical Review C</i> , <b>2020</b> , 101,	2.7	1
43	Development and validation of HERWIG tunes from CMS underlying-event measurements. <i>European Physical Journal C</i> , <b>2021</b> , 81, 312	4.2	1
42	Measurement of the CP-violating phase $\phi_s$ in the $B_s^0 \rightarrow \psi(1020) \bar{K}^0 + K^0$ channel in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 816, 136188	4.2	1

41	Observation of a New Excited Beauty Strange Baryon Decaying to $\Xi_{cb}^{*+}$ . <i>Physical Review Letters</i> , <b>2021</b> , 126, 252003	7.4	1
40	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 969	4.2	1
39	Studies of charm and beauty hadron long-range correlations in pp and pPb collisions at LHC energies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 813, 136036	4.2	1
38	Observation of the Z- $B_{(s)}$ Decay in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 121, 141801	7.4	1
37	Search for Pair-Produced Resonances Each Decaying into at Least Four Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 121, 141802	7.4	1
36	Constraints on the Initial State of Pb-Pb Collisions via Measurements of Z-Boson Yields and Azimuthal Anisotropy at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2021</b> , 127, 102002	7.4	1
35	Measurement of the azimuthal anisotropy of and mesons in PbPb collisions at $s_{NN}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 819, 136385	4.2	1
34	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	1
33	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 773	4.2	0
32	Search for W resonances in proton-proton collisions at $s=13$ TeV using hadronic decays of Lorentz-boosted W bosons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2022</b> , 826, 136888	4.2	0
31	Measurement of single-diffractive dijet production in proton-proton collisions at with the CMS and TOTEM experiments. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1164	4.2	0
30	Measurements of the Electroweak Diboson Production Cross Sections in Proton-Proton Collisions at $\sqrt{s}=5.02$ TeV Using Leptonic Decays. <i>Physical Review Letters</i> , <b>2021</b> , 127, 191801	7.4	0
29	Measurement of the W Production Cross Section in Proton-Proton Collisions at $\sqrt{s}=13$ TeV and Constraints on Effective Field Theory Coefficients. <i>Physical Review Letters</i> , <b>2021</b> , 126, 252002	7.4	0
28	Search for the rare decay of the W boson into a pion and a photon in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 819, 136409	4.2	0
27	Search for a heavy vector resonance decaying to a $B$ boson and a Higgs boson in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 688	4.2	0
26	First measurement of the cross section for top quark pair production with additional charm jets using dileptonic final states in pp collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 820, 136565	4.2	0
25	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
24	Measurement of the Inclusive and Differential Higgs Boson Production Cross Sections in the Decay Mode to a Pair of $B$ Leptons in pp Collisions at $\sqrt{s}=13$ TeV.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 081805	7.4	0

23	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	○
22	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at .. <i>European Physical Journal C</i> , <b>2022</b> , 82, 153	4.2	○
21	Using Z Boson Events to Study Parton-Medium Interactions in Pb-Pb Collisions.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 122301	7.4	○
20	A new calibration method for charm jet identification validated with proton-proton collision events at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , <b>2022</b> , 17, P03014	1	○
19	Search for strongly interacting massive particles generating trackless jets in proton-proton collisions at .. <i>European Physical Journal C</i> , <b>2022</b> , 82, 213	4.2	○
18	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at .. <i>European Physical Journal C</i> , <b>2022</b> , 82, 290	4.2	○
17	Search for Long-Lived Particles Decaying in the CMS End Cap Muon Detectors in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV.. <i>Physical Review Letters</i> , <b>2021</b> , 127, 261804	7.4	○
16	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	○
15	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	○
14	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	○
13	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	○
12	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	○
11	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	○
10	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	
9	Mechanical stability of the CMS strip tracker measured with a laser alignment system. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P04023-P04023	1	
8	Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at ( $\sqrt{s} = 8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	
7	A software and computing prototype for CMS muon system alignment. <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 119, 072008	0.3	
6	Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P05002-P05002	1	

- 5 Search for Physics beyond the Standard Model in Events with Overlapping Photons and Jets. *Physical Review Letters*, **2019**, 123, 241801 7.4
- 4 Combined search for supersymmetry with photons in proton-proton collisions at  $\sqrt{s}=13$  TeV. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2020**, 801, 135183 4.2
- 3 Study of dijet events with large rapidity separation in proton-proton collisions at  $\sqrt{s} = 2.76$  TeV. *Journal of High Energy Physics*, **2022**, 2022, 1 5.4
- 2 Observation of  $B_s^0$  mesons and measurement of the  $B_s^0/B^+$  yield ratio in. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2022**, 137062 4.2
- 1 Measurement of the inclusive  $\overline{\text{t}}\text{t}$  production cross section in proton-proton collisions at  $\sqrt{s} = 5.02$  TeV. *Journal of High Energy Physics*, **2022**, 2022, 1 5.4