

# Martti Raidal

## List of Publications by Citations

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1,199  
papers

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95  
h-index

151  
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1,251  
ext. papers

50,914  
ext. citations

5  
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6.59  
L-index

#	Paper	IF	Citations
1199	The CMS experiment at the CERN LHC. <i>Journal of Instrumentation</i> , <b>2008</b> , 3, S08004-S08004	1	1276
1198	Towards a complete theory of thermal leptogenesis in the SM and MSSM. <i>Nuclear Physics B</i> , <b>2004</b> , 685, 89-149	2.8	535
1197	PPPC 4 DM ID: a poor particle physicist cookbook for dark matter indirect detection. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2011</b> , 2011, 051-051	6.4	522
1196	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
1195	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
1194	Model-independent implications of the $e^\pm$ , $p^\pm$ cosmic ray spectra on properties of Dark Matter. <i>Nuclear Physics B</i> , <b>2009</b> , 813, 1-21	2.8	405
1193	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
1192	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
1191	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
1190	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
1189	Study of high- $p_T$ charged particle suppression in PbPb compared to pp collisions at ( $\sqrt{s_{NN}}=2.76\sim\mathrm{TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	316
1188	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
1187	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
1186	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
1185	Flavor physics of leptons and dipole moments. <i>European Physical Journal C</i> , <b>2008</b> , 57, 13-182	4.2	260
1184	Physics with e+e-linear colliders. <i>Physics Reports</i> , <b>1998</b> , 299, 1-78	27.7	256
1183	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

1182	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
1181	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
1180	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
1179	Particle-flow reconstruction and global event description with the CMS detector. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P10003-P10003	1	234
1178	Neutrino mass, muon anomalous magnetic moment, and lepton flavor nonconservation. <i>Physical Review Letters</i> , <b>2001</b> , 87, 011802	7.4	227
1177	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
1176	Primordial black hole constraints for extended mass functions. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	214
1175	The CMS trigger system. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P01020-P01020	1	210
1174	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
1173	FCC-hh: The Hadron Collider. <i>European Physical Journal: Special Topics</i> , <b>2019</b> , 228, 755-1107	2.3	196
1172	FCC-ee: The Lepton Collider. <i>European Physical Journal: Special Topics</i> , <b>2019</b> , 228, 261-623	2.3	193
1171	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
1170	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
1169	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
1168	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
1167	FCC Physics Opportunities. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	174
1166	Observation of sequential $\beta$ suppression in PbPb collisions. <i>Physical Review Letters</i> , <b>2012</b> , 109, 222301	7.4	172
1165	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

1164	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
1163	Search for top-squark pair production in the single-lepton final state in pp collisions at ( $\sqrt{s}=8$ $\text{TeV}$ ). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	162
1162	Relation between the neutrino and quark mixing angles and grand unification. <i>Physical Review Letters</i> , <b>2004</b> , 93, 161801	7.4	162
1161	Doubly charged Higgs at LHC. <i>Nuclear Physics B</i> , <b>1997</b> , 487, 27-42	2.8	159
1160	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at ( $\sqrt{s_{NN}}=2.76$ $\text{TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	158
1159	Search for dark matter and large extra dimensions in monojet events in pp collisions at ( $\sqrt{s} = 7$ ) $\text{TeV}$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	155
1158	Implications of the 125 GeV Higgs boson for scalar dark matter and for the CMSSM phenomenology. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	154
1157	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
1156	Gravitational waves from primordial black hole mergers. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2017</b> , 2017, 037-037	6.4	152
1155	Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at $s=8$ $\text{TeV}$ . <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	152
1154	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
1153	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
1152	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
1151	Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at $s_{NN}=2.76$ $\text{TeV}$ . <i>Physical Review C</i> , <b>2013</b> , 87,	2.7	148
1150	Evidence for Collective Multiparticle Correlations in p-Pb Collisions. <i>Physical Review Letters</i> , <b>2015</b> , 115, 012301	7.4	145
1149	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
1148	Jet momentum dependence of jet quenching in 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> , 712, 176-197	4.2	144
1147	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

1146	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
1145	The universal Higgs fit. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	140
1144	Search for the standard model Higgs boson decaying into two photons in pp collisions at $\sqrt{s}=7\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 403-425	4.2	138
1143	Indications of suppression of excited $\mathbb{B}$ states in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76\text{TeV}$ . <i>Physical Review Letters</i> , <b>2011</b> , 107, 052302	7.4	137
1142	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
1141	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
1140	Modification of jet shapes in PbPb collisions at $\sqrt{s_{NN}}=2.76\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 730, 243-263	4.2	124
1139	Reconstructing Higgs boson properties from the LHC and Tevatron data. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	124
1138	New parametrization of the seesaw mechanism and applications in supersymmetric models. <i>Physical Review D</i> , <b>2002</b> , 66,	4.9	123
1137	Measurement of the inclusive W and Z production cross sections in pp collisions at $(\sqrt{s} = 7)\text{TeV}$ with the CMS experiment. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	121
1136	Formation and evolution of primordial black hole binaries in the early universe. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2019</b> , 2019, 018-018	6.4	120
1135	Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . <i>Journal of Instrumentation</i> , <b>2018</b> , 13, P06015-P06015	1	118
1134	Is the resonance at 125 GeV the Higgs boson?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 718, 469-474	4.2	118
1133	Prompt and non-prompt $J/\psi$ production in pp collisions at $(\sqrt{s} = 7)\text{TeV}$ . <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	118
1132	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
1131	Physical naturalness and dynamical breaking of classical scale invariance. <i>Modern Physics Letters A</i> , <b>2014</b> , 29, 1450077	1.3	116
1130	Search for dijet resonances in 7 TeV pp collisions at CMS. <i>Physical Review Letters</i> , <b>2010</b> , 105, 211801	7.4	116
1129	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

1128	Leptogenesis and the violation of lepton number and CP at low energies. <i>Nuclear Physics B</i> , <b>2002</b> , 643, 229-246	2.8	115
1127	Soft leptogenesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2003</b> , 575, 75-84	4.2	112
1126	Measurement of isolated photon production in pp and PbPb collisions at $\sqrt{s}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 256-277	4.2	111
1125	Search for neutral Higgs bosons decaying to tau 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> , 713, 68-90	4.2	111
1124	A search for a doubly-charged Higgs boson in pp collisions at ( $\sqrt{s} = 7$ mbox{TeV}). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	111
1123	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
1122	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2012</b> , 109, 171803	7.4	111
1121	Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $\sqrt{s}=2.76$ TeV. <i>Physical Review C</i> , <b>2014</b> , 89,	2.7	109
1120	Studies of jet quenching using isolated-photon + jet correlations in PbPb and pp collisions at $\sqrt{s}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 773-794	4.2	109
1119	Fermi 130 GeV gamma-ray excess and dark matter annihilation in sub-haloes and in the Galactic centre. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2012</b> , 2012, 032-032	6.4	108
1118	Golden ratio prediction for solar neutrino mixing. <i>Physical Review D</i> , <b>2007</b> , 76,	4.9	106
1117	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
1116	Predictions of the most minimal see-saw model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2003</b> , 553, 72-78	4.2	104
1115	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
1114	Measurement of differential top-quark-pair production cross sections in pp collisions at ( $\sqrt{s} = 7$ mathrm{TeV}). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	102
1113	Evidence for the 125 GeV Higgs boson decaying to a pair of $\Pi$ leptons. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	101
1112	Search for a light charged Higgs boson in top quark decays in pp collisions at ( $\sqrt{s} = 7$ ;TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	101
1111	Towards completing the standard model: Vacuum stability, electroweak symmetry breaking, and dark matter. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	99

1110	CMS tracking performance results from early LHC operation. <i>European Physical Journal C</i> , <b>2010</b> , 70, 116541-92	99
1109	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
1108	Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2016</b> , 116, 071801	7.4 96
1107	Observation of $t\bar{t}\gamma$ Production. <i>Physical Review Letters</i> , <b>2018</b> , 120, 231801	7.4 96
1106	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
1105	Dynamically induced Planck scale and inflation. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4 95
1104	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
1103	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
1102	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
1101	Verifiable model of neutrino masses from large extra dimensions. <i>Physical Review Letters</i> , <b>2000</b> , 85, 3769-72	7.2 91
1100	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
1099	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
1098	WMAP7 and future CMB constraints on annihilating dark matter: implications for GeV-scale WIMPs. <i>Astronomy and Astrophysics</i> , <b>2011</b> , 535, A26	5.1 89
1097	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
1096	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
1095	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
1094	Measurement of $W+W\gamma$ 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
1093	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

1092	Search for the standard model Higgs boson in the decay channel $H \rightarrow ZZ \rightarrow 4\mu$ in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2012</b> , 108, 111804	7.4	85
1091	The EDGES 21 cm anomaly and properties of dark matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 785, 159-164	4.2	84
1090	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
1089	Observation of a peaking structure in the $J/\psi$ mass spectrum from $B_{\mu} \rightarrow J/\psi K_{\mu}$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 734, 261-281	4.2	83
1088	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
1087	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
1086	CP violation in the minimal supersymmetric seesaw model. <i>Nuclear Physics B</i> , <b>2002</b> , 621, 208-234	2.8	83
1085	Search for supersymmetry in hadronic final states with missing transverse energy using the variables and b-quark multiplicity in pp collisions at $\sqrt{s}$ . <i>European Physical Journal C</i> , <b>2013</b> , 73, 2568	4.2	82
1084	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
1083	Sneutrino inflation in the light of WMAP: reheating, leptogenesis and flavour-violating lepton decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2004</b> , 581, 9-18	4.2	81
1082	Constraints on leptonically annihilating dark matter from reionization and extragalactic gamma background. <i>Astronomy and Astrophysics</i> , <b>2009</b> , 505, 999-1005	5.1	81
1081	Direct determination of neutrino mass parameters at future colliders. <i>Physical Review D</i> , <b>2008</b> , 77,	4.9	80
1080	Higgs-mediated $B_s, d_0 \rightarrow \tau\tau$ and $B \rightarrow 3\tau$ decays in supersymmetric seesaw models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2002</b> , 549, 159-169	4.2	80
1079	First measurement of the cross section for top-quark pair production 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> , 695, 424-443	4.2	79
1078	Observation of Higgs Boson Decay to Bottom Quarks. <i>Physical Review Letters</i> , <b>2018</b> , 121, 121801	7.4	79
1077	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
1076	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
1075	Search for heavy narrow dilepton resonances in pp collisions at $\sqrt{s}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 720, 63-82	4.2	78



1074	Strange particle production in pp collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	78
1073	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	77
1072	Measurement of the rapidity and transverse momentum distributions of Z bosons in pp collisions at ( $s=7$ TeV. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	77
1071	Upsilon production cross section in pp collisions at $s=7$ TeV. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	77
1070	Dark matter as the signal of grand unification. <i>Physical Review D</i> , <b>2009</b> , 80,	4.9	77
1069	Phenomenology of the neutrino-mass-giving Higgs triplet and the low-energy seesaw violation of lepton number. <i>Nuclear Physics B</i> , <b>2001</b> , 615, 313-330	2.8	77
1068	Dark Matter through the Higgs portal. <i>Physics Reports</i> , <b>2020</b> , 842, 1-180	27.7	77
1067	Study of W boson production in PbPb and pp collisions at $s_{NN}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 715, 66-87	4.2	76
1066	Searches for new physics using the $t\bar{t}$ invariant mass distribution in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2013</b> , 111, 211804	7.4	76
1065	Search for dijet resonances in proton-proton collisions at $s=13$ 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
1064	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at ( $\sqrt{s}$ ) = 8 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	74
1063	Measurement of the inelastic proton-proton cross section at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 722, 5-27	4.2	74
1062	Searches for invisible decays of the Higgs boson in pp collisions at ( $\sqrt{s}$ ) = 7, 8, and 13 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	74
1061	Search for a Higgs boson decaying into a Z and a photon in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 726, 587-609	4.2	73
1060	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
1059	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at ( $\sqrt{s_{\mathrm{NN}}}$ ) = 2.76 TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	73
1058	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
1057	Measurement of the $W+W$ and $ZZ$ production cross sections in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 721, 190-211	4.2	72

1056	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s}=5.02$ TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2847	4.2	71
1055	Measurement of the $\bar{D}_S$ , $D_S$ , and $B_S$ polarizations in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2013</b> , 110, 081802	7.4	71
1054	Lepton electric dipole moments in non-degenerate supersymmetric seesaw models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2002</b> , 528, 86-96	4.2	71
1053	Minimal flavor-changing $Z'$ models and muon $g - 2$ after the $R_{K^*}$ measurement. <i>Nuclear Physics B</i> , <b>2017</b> , 923, 245-257	2.8	70
1052	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
1051	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
1050	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
1049	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
1048	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
1047	$J/\psi$ 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
1046	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $(\sqrt{s_{\text{NN}}} = 5.02)$ TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1	4.2	67
1045	$\bar{B}$ conversion in nuclei : an effective field theory point of view. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1998</b> , 421, 250-258	4.2	67
1044	Emanations of dark matter: Muon anomalous magnetic moment, radiative neutrino mass, and novel leptogenesis at the TeV scale. <i>Physical Review D</i> , <b>2007</b> , 75,	4.9	67
1043	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
1042	Study of Z Boson Production in PbPb Collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 212301	7.4	66
1041	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
1040	Matter parity as the origin of scalar dark matter. <i>Physical Review D</i> , <b>2010</b> , 81,	4.9	65
1039	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

1038	Charged-particle nuclear modification factors in PbPb and pPb collisions at ( $\sqrt{s_{\mathrm{N};\mathrm{N}}}=5.02$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	64
1037	Prospects for charged Higgs searches at the LHC. <i>European Physical Journal C</i> , <b>2017</b> , 77, 1	4.2	64
1036	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
1035	Search for anomalous production of events with three or more leptons in pp collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	64
1034	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
1033	Measurement of the ( $\overline{\mathrm{t}}\mathrm{t}$ ) 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
1032	Impact of semi-annihilations on dark matter phenomenology. An example of ZNsymmetric scalar dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2012</b> , 2012, 010-010	6.4	64
1031	Heavy spin-2 Dark Matter. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2016</b> , 2016, 016-016	6.4	64
1030	Measurement of the muon charge asymmetry in inclusive $pp \rightarrow W+X$ production at $s=7$ TeV and an improved determination of light parton distribution functions. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	63
1029	Z3scalar singlet dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2013</b> , 2013, 022-022	6.4	63
1028	Search for narrow resonances using the dijet mass spectrum in pp collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	63
1027	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
1026	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
1025	Efficiency and maximal CP-asymmetry of scalar triplet leptogenesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2006</b> , 632, 667-674	4.2	63
1024	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
1023	Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	62
1022	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
1021	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

1020	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
1019	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
1018	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
1017	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
1016	Implications of Xenon100 and LHC results for Dark Matter models. <i>Nuclear Physics B</i> , <b>2011</b> , 853, 607-624	2.8	62
1015	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
1014	Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s} = 8$ and $13.6$ TeV. <i>Physical Review Letters</i> , <b>2016</b> , 117, 051802	7.4	61
1013	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
1012	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
1011	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
1010	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
1009	Testing neutrino masses in little Higgs models via discovery of doubly charged Higgs at LHC. <i>Nuclear Physics B</i> , <b>2007</b> , 787, 198-210	2.8	61
1008	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
1007	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
1006	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
1005	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
1004	Measurement of the charge asymmetry in top-quark pair production 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> , 709, 28-49	4.2	59
1003	Search for narrow resonances in dilepton mass spectra in pp collisions at $\sqrt{s} = 7.46$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 714, 158-179	4.2	59

1002	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
1001	Angular analysis of the decay $B_0 \rightarrow K^* \mu^+ \mu^-$ from pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 753, 424-448	4.2	59
1000	Coherent $J/\psi$ photoproduction in ultra-peripheral PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the CMS experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 489-511	4.2	58
999	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
998	Search for heavy Majorana neutrinos in $\mu\mu +$ jets events 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> , 748, 144-166	4.2	58
997	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
996	Constraining primordial black holes with the EDGES 21-cm absorption signal. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	58
995	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
994	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
993	Search for top-squark pairs decaying into Higgs or Z bosons 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, 371-397	4.2	57
992	Search for the standard model Higgs boson decaying to bottom quarks 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, 284-306	4.2	57
991	Search for anomalous ( $\overline{t}t$ ) production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	57
990	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, 129-150	4.2	57
989	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
988	Observation of a new $\Lambda_b$ baryon. <i>Physical Review Letters</i> , <b>2012</b> , 108, 252002	7.4	57
987	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
986	Measurement of the $W+W$ cross section in pp collisions at ( $\sqrt{s}=7$ TeV) and limits on anomalous $WW$ and $WWZ$ couplings. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	56
985	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

984	Long-range and short-range dihadron angular correlations in central PbPb collisions at ( $\sqrt{s_{\text{NN}}}$ ) = 2.76 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5-4	56
983	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
982	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
981	Measurement of the pseudorapidity and centrality dependence of the transverse energy density in Pb-Pb collisions at ( $\sqrt{s_{\text{NN}}}$ )=2.76 TeV. <i>Physical Review Letters</i> , <b>2012</b> , 109, 152303	7-4	55
980	Constraints on the WR mass and CP violation in left-right models. <i>Physical Review D</i> , <b>1997</b> , 55, 4213-4221	4-9	55
979	Supersymmetric left-right model and its tests in linear colliders. <i>Nuclear Physics B</i> , <b>1994</b> , 420, 449-467	2-8	55
978	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
977	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
976	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
975	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
974	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
973	Addendum including AMS 2013 data to Model-independent implications of the e $\bar{p}$ , p cosmic ray spectra on properties of Dark Matter [Nucl. Phys. B 813 (10) (2009) 101]. <i>Nuclear Physics B</i> , <b>2013</b> , 873, 530-533	2-8	53
972	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
971	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
970	Search for ( $B_{\text{s}}^0 \rightarrow \bar{c} \bar{c} \bar{c} \bar{c}$ ) and $B_0 \rightarrow \bar{c} \bar{c} \bar{c} \bar{c}$ decays. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	52
969	Interpretation of searches for supersymmetry with simplified models. <i>Physical Review D</i> , <b>2013</b> , 88,	4-9	52
968	CP asymmetry in $B \rightarrow \phi K(S)$ decays in left-right models and its implications for $B_s$ decays. <i>Physical Review Letters</i> , <b>2002</b> , 89, 231803	7-4	52
967	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

966	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
965	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
964	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
963	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , <b>2015</b> , 75, 147	4.2	50
962	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
961	First interpretation of the 750 GeV diphoton resonance at the LHC. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	50
960	Search for supersymmetry in pp collisions at $\sqrt{s} = 8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 733, 328-353	4.2	50
959	Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV and first determination of the strong coupling constant in the TeV range. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	50
958	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
957	Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter mediators and other new particles. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	50
956	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
955	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
954	Testing right-handed currents at the LHC. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1	4.2	49
953	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
952	Higgs sector of the minimal left-right symmetric model. <i>Physical Review D</i> , <b>2002</b> , 65,	4.9	49
951	Dark matter effects on neutron star properties. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	49
950	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>European Physical Journal C</i> , <b>2015</b> , 75, 237	4.2	48
949	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

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946	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
945	Dijet azimuthal decorrelations in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 122003	7.4	48
944	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
943	Linear inflation from quartic potential. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	47
942	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
941	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 $h \rightarrow \gamma\gamma$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 755, 217-244	4.2	46
940	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
939	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
938	Measurement of the relative prompt production rate of $t\bar{t}$ and $t\bar{t} + b\bar{b}$ in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2251	4.2	46
937	Anthropic solution to the magnetic muon anomaly: the charged see-saw. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	46
936	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
935	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
934	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
933	New constraints on R-parity violation from $B_s$ conversion in nuclei. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1998</b> , 430, 355-362	4.2	46
932	A SUSY inspired simplified model for the 750 GeV diphoton excess. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 756, 36-41	4.2	46
931	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



930	Exclusive $\bar{t}t$ 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
929	Frame-Independent Classification of Single-Field Inflationary Models. <i>Physical Review Letters</i> , <b>2017</b> , 118, 151302	7-4	45
928	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
927	Search for exclusive or semi-exclusive $\bar{t}t$ 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
926	Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2283	4-2	45
925	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
924	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
923	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
922	Discovering and studying bileptons with $e\bar{e}$ collisions. <i>Nuclear Physics B</i> , <b>1997</b> , 501, 3-16	2-8	45
921	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
920	Measurement of the $\sigma$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 727, 101-125	4-2	44
919	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
918	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
917	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
916	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
915	Measurement of the differential dijet production cross section in proton-proton collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 700, 187-206	4-2	44
914	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
913	Low-scale standard supersymmetric leptogenesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2005</b> , 609, 351-359	4-2	44

912	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
911	Measurement of angular parameters from the decay $B^0 \rightarrow K^* \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s}=8\text{TeV}$ . <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
910	Measurement of the $(\overline{t})$ production cross section in the dilepton channel in pp collisions at $(\sqrt{s}) = 8\text{TeV}$ . <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	43
909	Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $(\sqrt{s}) = 7\text{TeV}$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	43
908	Searches for heavy Higgs bosons in two-Higgs-doublet models and for $t \rightarrow ch$ 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
907	Search for leptonic decays of $W^\pm$ bosons in pp collisions at $(\sqrt{s} = \{7\})\text{TeV}$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	43
906	Constraints on doubly charged Higgs interactions at linear collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1997</b> , 394, 132-138	4.2	43
905	Search for dark matter effects on gravitational signals from neutron star mergers. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 781, 607-610	4.2	43
904	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
903	Search for new phenomena in monophoton final states in proton-proton collisions at $\sqrt{s}=8\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 755, 102-124	4.2	42
902	Event activity dependence of $(Y)(nS)$ production in $(\sqrt{\{s_{NN}\}}) = 5.02\text{TeV pPb}$ and $(\sqrt{s}) = 2.76\text{TeV pp}$ collisions. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	42
901	Embedding inflation into the Standard Model [More evidence for classical scale invariance. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	42
900	Angular coefficients of Z bosons produced in pp collisions at $\sqrt{s}=8\text{TeV}$ 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
899	Measurement of the $\mu$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 720, 83-104	4.2	42
898	Search for heavy neutrinos and $W(R)$ bosons with right-handed couplings in a left-right symmetric model in pp collisions at $\sqrt{s}=7\text{TeV}$ . <i>Physical Review Letters</i> , <b>2012</b> , 109, 261802	7.4	42
897	Search for heavy, top-like quark pair production in the dilepton final state in pp collisions at $\sqrt{s}=7\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 716, 103-121 <sup>2</sup>	4.2	42
896	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
895	Leptogenesis in the minimal supersymmetric triplet seesaw model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2004</b> , 604, 199-206	4.2	42

894	Slepton pair production in $e^+e^-$ collision in supersymmetric left-right model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1994</b> , 328, 60-66	4.2	42
893	Two populations of LIGO-Virgo black holes. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2021</b> , 2021, 068	6.4	42
892	Search for additional neutral MSSM Higgs bosons in the $\tau\tau$ final state in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	42
891	Measurement of $J/\psi$ and $\Upsilon(2S)$ 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
890	Search for supersymmetry using razor variables in events with b-tagged jets in pp collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	41
889	Measurement of the ratio $B(t \rightarrow Wb)/B(t \rightarrow Wq)$ in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 736, 33-57	4.2	41
888	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
887	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
886	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
885	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
884	Search for heavy Majorana neutrinos in $\tau\tau$ +jets and $e\mu$ +jets events in pp collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 717, 109-128	4.2	41
883	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
882	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
881	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
880	On the quantisation of complex higher derivative theories and avoiding the Ostrogradsky ghost. <i>Nuclear Physics B</i> , <b>2017</b> , 916, 607-626	2.8	40
879	Measurement of nuclear modification factors of $\rho(1S)$ , $\rho(2S)$ , and $\rho(3S)$ mesons in PbPb collisions at $s_{NN}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 790, 270-293	4.2	40
878	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
877	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

876	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
875	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
874	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
873	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
872	Bigravitational origin of dark matter. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	39
871	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
870	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
869	Study of the underlying event at forward rapidity in pp collisions at ( $\sqrt{s}=0.9, 2.76, \dots, 7$ TeV). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	39
868	Measurement of the ZZ production cross section and search for anomalous couplings in 200 final states in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	39
867	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
866	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
865	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
864	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
863	Measurement of the pp $\rightarrow$ 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
862	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
861	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
860	Measurement of prompt $\langle \mathcal{R} \rangle$ 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
859	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

858	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
857	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
856	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
855	Enhanced anti-deuteron Dark Matter signal and the implications of PAMELA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2010</b> , 683, 248-254	4.2	38
854	Collider aspects of flavor physics at high Q. <i>European Physical Journal C</i> , <b>2008</b> , 57, 183-307	4.2	38
853	Measurement of the $\sigma(\text{pp} \rightarrow \text{W} + \text{jet})$ cross section in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous gauge couplings. <i>European Physical Journal C</i> , <b>2016</b> , 76, 401	4.2	38
852	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
851	Differential cross section measurements for the production of a W boson in association with jets in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 741, 12-37	4.2	37
850	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , <b>2015</b> , 75, 288	4.2	37
849	Measurement of the differential cross section and charge asymmetry for inclusive $\text{W} + \text{jet}$ production at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 469	4.2	37
848	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
847	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
846	Measurement of masses in the $\text{W} + \text{jet}$ system by kinematic endpoints in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2494	4.2	37
845	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
844	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
843	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
842	EVIDENCE FOR INDIRECT DETECTION OF DARK MATTER FROM GALAXY CLUSTERS IN FERMI RAY DATA. <i>Astrophysical Journal Letters</i> , <b>2013</b> , 762, L22	7.9	37
841	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

840	Allowable low-energy E6 subgroups from leptogenesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2001</b> , 512, 373-378	4.2	37
839	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
838	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
837	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
836	Search for the X(5568) State Decaying into $B_{s}^{0}\mu^{+}\mu^{-}$ in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 120, 202005	7.4	36
835	Minimal semi-annihilating ZNscalar dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2014</b> , 2014, 021-021	6.4	36
834	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
833	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
832	Measurement of the top-quark mass in ( $\overline{\text{t}}\text{t}$ ) events with dilepton final states in pp collisions at ( $\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	36
831	Hints for a nonstandard Higgs boson from the LHC. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	36
830	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
829	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
828	Super-heavy dark matter $\rightarrow$ towards predictive scenarios from inflation. <i>Nuclear Physics B</i> , <b>2017</b> , 918, 162-177	2.8	35
827	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
826	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
825	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
824	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
823	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

822	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
821	Angular analysis and branching fraction measurement of the decay $B_0 \rightarrow K^* \ell^+ \ell^-$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 727, 77-100	4-2	35
820	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
819	Searches for light- and heavy-flavour 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>2014</b> , 730, 193-214	4-2	35
818	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
817	Measurement of the ( $\mathit{t}\bar{\mathit{t}}$ ) 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
816	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
815	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
814	Search for lepton flavour violating decays of the Higgs boson to $e\bar{\nu}$ and $e\nu$ 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> , 763, 472-500	4-2	35
813	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
812	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
811	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
810	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
809	Non-minimal CW inflation, electroweak symmetry breaking and the 750 GeV anomaly. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5-4	34
808	Dark matter self-interactions via collisionless shocks in cluster mergers. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 749, 236-241	4-2	34
807	Search for microscopic black holes in pp collisions at ( $\sqrt{s} = \text{7 TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	34
806	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
805	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

804	Search for three-jet resonances in pp collisions at square root( $s$ )=7 TeV. <i>Physical Review Letters</i> , <b>2011</b> , 107, 101801	7.4	34
803	Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 782, 440-467	4.2	34
802	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
801	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
800	Measurement of charged pion, kaon, and proton production in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	33
799	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
798	Search for a light charged Higgs boson decaying to ( $\overline{\text{c}}\text{s}$ ) in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-37	5.4	33
797	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
796	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
795	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
794	Spontaneous CP violation in the left-right model and the kaon system. <i>Nuclear Physics B</i> , <b>1996</b> , 478, 527-543	5.4	33
793	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
792	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
791	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
790	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
789	Search for fractionally charged particles in pp collisions at $s=7$ TeV. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	32
788	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
787	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



786	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
785	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
784	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
783	Dark matter and the XENON1T electron recoil excess. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	31
782	Search for a new bottomonium state decaying to . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 727, 57-76	4.2	31
781	Search for a . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 1229-1251	4.2	31
780	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s}=7$ TeV in dilepton final states containing a $\mu\mu$ . <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	31
779	Measurement of the $B_s^0$ Production Cross Section with $B_s^0 \rightarrow J/\psi$ Decays in pp Collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	31
778	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
777	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
776	Measurement of the ( $\overline{t}t$ ) 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
775	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
774	Statistical analyses of Higgs- and Z-portal dark matter models. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	30
773	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
772	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
771	Inclusive b-jet production in pp collisions at ( $\sqrt{s} = 7$ TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	30
770	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
769	Measurement of the top-quark mass in ( $\overline{t}t$ ) 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

768	Measurement of the $\sigma_{\text{B}}$ cross section and the $\sigma_{\text{D}}/\sigma_{\text{B}}$ 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
767	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
766	Search for an $L$ 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
765	Measurements of the production cross section and the branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , <b>2018</b> , 78, 165	4.2	29
764	Search for pair production of vector-like quarks in the $bWb^*W$ channel from proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 779, 82-106	4.2	29
763	Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or 3 b-quark jets in 7 TeV pp collisions using the variable $R_T$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	29
762	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
761	Measurement of vector boson scattering and constraints on anomalous quartic couplings from events with four leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 774, 682-705	4.2	29
760	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
759	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
758	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
757	Performance of reconstruction and identification of 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
756	Search for vector-like T and B quark pairs in final states with leptons at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	29
755	The evolving Planck mass in classically scale-invariant theories. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	28
754	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
753	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
752	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
751	Search for heavy Majorana neutrinos in $e^+e^- \rightarrow \text{jets}$ and $e^+e^- \rightarrow \text{jets} + \text{jets}$ 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

750	Search for long-lived particles in events with photons and missing energy in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 722, 273-294	4.2	28
749	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
748	Search for physics beyond the standard model using multilepton signatures in $pp$ collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 704, 411-433	4.2	28
747	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
746	Search for a heavy bottom-like quark 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, 204-223	4.2	28
745	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
744	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 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
743	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
742	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
741	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
740	Measurements of the $\sigma(1S)$ , $\sigma(2S)$ , and $\sigma(3S)$ 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
739	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
738	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
737	Oscillating spin-2 dark matter. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	27
736	Evidence for exclusive $B \rightarrow W + W$ production and constraints on anomalous quartic gauge couplings in pp collisions at $(\sqrt{s}=7)$ and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	27
735	Small-scale structure of primordial black hole dark matter and its implications for accretion. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	27
734	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $(\sqrt{s}=7;\text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	27
733	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

732	Patterns of lepton-flavour violation motivated by decoupling and sneutrino inflation. <i>Nuclear Physics B</i> , <b>2004</b> , 690, 279-301	2.8	27
731	Lower bounds on bilepton processes at e <sup>+</sup> e <sup>-</sup> and $\Upsilon$ colliders. <i>Physical Review D</i> , <b>1998</b> , 57, 2013-2016	4.9	27
730	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
729	Measurement of prompt and nonprompt [Formula: see text] production in [Formula: see text] and [Formula: see text] collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2017</b> , 77, 269	4.2	26
728	Measurement of the CP-violating weak phase $\gamma_s$ and the decay width difference $\Delta\Gamma$ using the $B_s^0 \rightarrow J/\psi(1020)$ 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
727	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
726	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
725	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
724	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
723	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
722	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
721	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
720	Search for a heavy gauge boson. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 698, 21-39	4.2	26
719	Search for a. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 701, 160-179	4.2	26
718	Search for a W' or techni- $\Upsilon$ decaying into WZ in pp Collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2012</b> , 109, 141801	7.4	26
717	Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	26
716	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
715	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

714	Measurement of the W-boson helicity in top-quark decays from $(\overline{\text{t}}\text{t})$ production in lepton+jets events in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	25
713	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
712	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
711	Measurements of the $[ \text{Formula: see text} ] [ \text{Formula: see text} ]$ production cross sections in the $[ \text{Formula: see text} ]$ channel in proton-proton collisions at $[ \text{Formula: see text} ]$ and $[ \text{Formula: see text} ]$ and combined constraints on triple gauge couplings. <i>European Physical Journal C</i> , <b>2015</b> , 75, 511	4.2	25
710	Search for resonant $(\overline{\text{t}}\text{t})$ production in lepton+jets events in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	25
709	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
708	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
707	Search for charged Higgs bosons in the $H_{\pm} \rightarrow \tau\tau$ decay channel in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	24
706	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
705	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
704	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
703	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $[ \text{Formula: see text} ]$ . <i>European Physical Journal C</i> , <b>2015</b> , 75, 325	4.2	24
702	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
701	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $[ \text{Formula: see text} ]$ . <i>European Physical Journal C</i> , <b>2016</b> , 76, 372	4.2	24
700	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
699	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at $[ \text{Formula: see text} ]$ . <i>European Physical Journal C</i> , <b>2013</b> , 73, 2674	4.2	24
698	Search for heavy gauge $W'$ 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
697	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

696	Measurement of the $Z/\bar{\nu} + b$ -jet cross section in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	24
695	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
694	Search for three-jet resonances in pp collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 718, 329-347	4.2	24
693	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 2\mu\mu$ channel in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	24
692	Forward-Backward asymmetry of Drell-Yan lepton pairs in pp collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 752-772	4.2	24
691	Search for Higgs boson pair production in the $B\bar{b}$ final state in pp collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 788, 7-36	4.2	24
690	Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	24
689	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
688	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
687	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
686	Search for $W \rightarrow tb$ 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
685	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
684	Measurement of four-jet production in proton-proton collisions at $s=7$ TeV. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	23
683	Search for physics beyond the standard model in events with a Z boson, 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>2012</b> , 716, 260-284	4.2	23
682	Combined search for the quarks of a sequential fourth generation. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	23
681	Running of low-energy neutrino masses, mixing angles and CP violation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2005</b> , 631, 32-41	4.2	23
680	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
679	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

678	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
677	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
676	Measurement of the cross section for electroweak production of $Z\gamma$ 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
675	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
674	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
673	Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	22
672	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
671	Prospects for constrained supersymmetry at ( $\sqrt{s}=\{33\}$ , text {TeV}) and ( $\sqrt{s}=\{100\}$ , text {TeV}) proton-proton super-colliders. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1	4.2	22
670	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
669	Search for anomalous couplings in boosted $WW/WZ \rightarrow \bar{q}q$ 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
668	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
667	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
666	Dark photons and resonant monophoton signatures in Higgs boson decays at the LHC. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	22
665	Exponentially spread dynamical Yukawa couplings from nonperturbative chiral symmetry breaking in the dark sector. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	22
664	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
663	Electroweak symmetry breaking from the soft portal into dark matter and prediction for direct detection. <i>Physical Review Letters</i> , <b>2010</b> , 104, 201301	7.4	22
662	Effective axial-vector coupling of gluon as an explanation to the top quark asymmetry. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	22
661	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

660	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
659	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
658	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 $\sqrt{s}=8$ 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
657	Search for quark contact interactions and extra spatial dimensions using dijet angular distributions 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> , 746, 79-99	4.2	21
656	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
655	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
654	Correlations between jets and charged particles in PbPb and pp collisions at ( $\sqrt{s_{\text{NN}}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	21
653	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
652	Study of jet quenching with isolated-photon+jet correlations in PbPb and pp collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 785, 14-39	4.2	21
651	Light primordial exotic compact objects as all dark matter. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	21
650	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
649	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
648	Measurement of the $(\bar{t}t)$ production cross section in the $\bar{t}t$ jets channel in pp collisions at ( $\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	21
647	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
646	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
645	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
644	Search for excited quarks in the $\bar{t}t$ 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
643	Search for a Higgs boson in the decay channel $H \rightarrow ZZ^{(*)} \rightarrow q(\bar{q}) \gamma\gamma$ in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	21



642	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
641	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
640	Heavy neutrino mixing and single production at linear collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1997</b> , 407, 45-52	4.2	21
639	A full-acceptance detector at the LHC (FELIX). <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2002</b> , 28, R117-R215	2.9	21
638	Probing the exotic particle content beyond the standard model. <i>European Physical Journal C</i> , <b>1999</b> , 8, 301-309	4.2	21
637	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
636	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at ( $\sqrt{s_{\text{NN}}} = 2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	21
635	Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	21
634	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
633	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	20
632	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
631	Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet final states at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	20
630	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
629	Search for a low-mass pseudoscalar Higgs boson produced in association with a $b\bar{b}$ pair 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, 296-320	4.2	20
628	Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton+jets events from pp collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	20
627	Search for new long-lived particles at $\sqrt{s} = 13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 780, 432-454	4.2	20
626	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
625	Search for pair production of second-generation leptoquarks at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	20

624	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
623	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
622	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
621	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
620	Dark Supersymmetry. <i>Nuclear Physics B</i> , <b>2013</b> , 876, 201-214	2.8	20
619	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
618	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
617	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
616	Non-decoupling and lepton number violation in left-right models. <i>Nuclear Physics B</i> , <b>1997</b> , 484, 63-79	2.8	20
615	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
614	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
613	Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	20
612	Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	20
611	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
610	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
609	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
608	Study of excited $B_0$ states decaying to $B_0 \pi \pi$ 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
607	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

606	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
605	Search for massive WH resonances decaying into the $[Formula: see text]$ final state at $[Formula: see text]$ . <i>European Physical Journal C</i> , <b>2016</b> , 76, 237	4.2	19
604	Measurement of exclusive photoproduction from protons in Pb collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 277	4.2	19
603	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
602	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
601	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
600	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
599	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
598	Addendum: Fermi 130 GeV gamma-ray excess and dark matter annihilation in sub-haloes and in the Galactic centre. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2012</b> , 2012, A01-A01	6.4	19
597	FCNC decays of standard model fermions into a dark photon. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	19
596	Measurement of differential cross sections for boson production in association with jets in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 965	4.2	19
595	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
594	Search for lepton flavour violating decays of the Higgs boson to $\tau\mu$ and $e\mu$ in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	19
593	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
592	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 364	4.2	18
591	Study of Z production in PbPb and pp collisions at $(\sqrt{s_{\mathrm{NN}}}=2.76)$ TeV in the dimuon and dielectron decay channels. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	18
590	Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P06005-P06005	1	18
589	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

588	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
587	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two $\tau$ leptons and two jets in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	18
586	. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	18
585	Relative Modification of Prompt $\tau$ 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
584	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
583	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
582	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
581	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
580	Spontaneous CP violation and the $B_0$ system. <i>Nuclear Physics B</i> , <b>1998</b> , 511, 577-593	2.8	18
579	Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	18
578	Naturalness of the relaxion mechanism. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	18
577	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
576	Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	18
575	Search for ( $\overline{\text{H}} \rightarrow \text{b}\overline{\text{b}}$ ) production in the ( $\text{H} \rightarrow \text{b}\overline{\text{b}}$ ) decay channel with leptonic ( $\overline{\text{H}} \rightarrow \text{t}\overline{\text{t}}$ ) decays in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	17
574	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
573	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at = 13. <i>European Physical Journal C</i> , <b>2018</b> , 78, 291	4.2	17
572	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
571	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

570	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
569	Radiative Yukawa couplings in the simplest left-right symmetric model. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	17
568	Search for $(\overline{\mathbf{t}}\mathbf{t})$ 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
567	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
566	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
565	Search for stopped long-lived particles produced in pp collisions at $(\sqrt{s} = \{text{7TeV}\})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	17
564	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
563	Measurement of the azimuthal anisotropy of neutral pions in Pb-Pb collisions at $\sqrt{s}(\text{NN}) = 2.76$ TeV. <i>Physical Review Letters</i> , <b>2013</b> , 110, 042301	7.4	17
562	Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	17
561	Search for pair production of first-generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 201802	7.4	17
560	Three active and two sterile neutrinos in an E6 model of diquark baryogenesis. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2002</b> , 28, 95-101	2.9	17
559	Neutrino masses in supersymmetry: R-parity and leptogenesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1999</b> , 460, 359-364	4.2	17
558	Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton + jets final states produced in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 762, 512-534	4.2	17
557	Measurement of double-differential cross sections for top quark pair production in pp collisions at [Formula: see text][Formula: see text] and impact on parton distribution functions. <i>European Physical Journal C</i> , <b>2017</b> , 77, 459	4.2	16
556	Phase transitions and gravitational wave tests of pseudo-Goldstone dark matter in the softly broken U(1) scalar singlet model. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	16
555	A search for pair production of new light bosons decaying into muons in proton-proton collisions at 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 796, 131-154	4.2	16
554	Searches for physics beyond the standard model with the variable in hadronic final states with and without disappearing tracks in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 3	4.2	16
553	Relaxion cosmology and the price of fine-tuning. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	16

552	Search for new physics with the $M_{T2}$ variable in all-jets final states produced in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	16
551	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\tau$ leptons in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	16
550	Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 798, 134985	4.2	16
549	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
548	Search for large extra dimensions in dimuon and dielectron events in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 711, 15-34	4.2	16
547	Search for exotic resonances decaying into WZ/ZZ in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	16
546	Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 718, 1252-1272	4.2	16
545	Dark matter and spin-1 milli-charged particles. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	16
544	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
543	CP asymmetries in Bs decays and spontaneous CP violation. <i>Physical Review D</i> , <b>1999</b> , 60,	4.9	16
542	Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	16
541	Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	16
540	Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	16
539	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
538	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
537	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
536	Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at $\sqrt{s}=8$ TeV using the $\cancel{E}_T$ variable. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 767, 403-430	4.2	15
535	Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	15

534	Measurements of $(\overline{\sigma}(\mathbb{t}\overline{\mathbb{t}}))$ differential cross sections in proton-proton collisions at $(\sqrt{s}=13)$ TeV using events containing two leptons. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	15
533	Measurement of the cross section ratio $\sigma(\mathbb{t}\overline{\mathbb{t}}\mathbb{b}\overline{\mathbb{b}})/\sigma(\mathbb{t}\overline{\mathbb{t}}\mathbb{j}\overline{\mathbb{j}})$ 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
532	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
531	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
530	Natural relaxation. <i>Modern Physics Letters A</i> , <b>2016</b> , 31, 1650215	1.3	15
529	Inclusive and differential measurements of the $\mathbb{t}\overline{\mathbb{t}}$ 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
528	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
527	Search for new particles decaying to a jet and an emerging jet. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	15
526	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
525	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
524	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
523	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
522	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
521	Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	15
520	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
519	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
518	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
517	Measurements of $\mathbb{t}\overline{\mathbb{t}}\mathbb{H}$ 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

516	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
515	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
514	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
513	Observation of prompt $J/\psi$ 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
512	Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	14
511	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
510	Pileup mitigation at CMS in 13 TeV data. <i>Journal of Instrumentation</i> , <b>2020</b> , 15, P09018-P09018	1	14
509	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
508	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
507	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
506	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
505	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
504	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
503	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
502	Measurement of the ( $\overline{\text{charm}}_{\text{charm}}$ ) 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
501	Twin peak Higgs. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 726, 781-785	4.2	14
500	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
499	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



498	Measurement of the $(\overline{\text{t}}\text{t})$ production cross section using events with one lepton and at least one jet in pp collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	14
497	Supersymmetric grand unification and lepton universality in decays. <i>Nuclear Physics B</i> , <b>2009</b> , 812, 128-143.8		14
496	Measurements of production cross sections of WZ and same-sign WW boson pairs in association 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> , 809, 135710	4.2	14
495	Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	14
494	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
493	Evidence for Higgs boson decay to a pair of muons. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	14
492	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	14
491	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two $\tau$ leptons in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	14
490	Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	14
489	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
488	Search for supersymmetry in events with a $\tau$ lepton pair and missing transverse momentum in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	14
487	Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	14
486	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
485	Search for resonant $(\overline{\text{t}}\text{t})$ production in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	13
484	Measurement of the ratio of the production cross sections times branching fractions of $B \rightarrow J/\psi \mu \mu$ and $B \rightarrow J/\psi \mu \mu$ and $(\text{mathcal{B}}\left(\text{B}\right)_{\text{c}}^{\text{pm}}\text{to } \text{mathrm{J}/\psi \left\{\text{pi}\right\}^{\text{pm}} \left\{\text{pi}\right\}^{\text{mp}}\text{right}}/\text{mathrm{mathcal{B}}\left(\text{B}\right)_{\text{c}}^{\text{pm}}\text{to } \text{mathrm{J}/\psi \left\{\text{pi}\right\}^{\text{pm}}\text{right}})$ in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> ,	5.4	13
483	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
482	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
481	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

480	Measurement of exclusive $\pi^0$ photoproduction in ultraperipheral pPb collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 702	4.2	13
479	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
478	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
477	Searches for Higgs bosons in pp collisions at $\sqrt{s}=7$ 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
476	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
475	Search for charge-asymmetric production of $\chi^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 717, 351-370	4.2	13
474	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
473	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
472	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
471	Measurement of the ratio of the 3-jet to 2-jet cross sections in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 702, 336-354	4.2	13
470	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
469	Implications of the effective axial-vector coupling of the gluon on top-quark charge asymmetry at the LHC. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	13
468	Implications of Dark Matter direct detection results on LHC physics. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2010</b> , 694, 242-245	4.2	13
467	Addendum to: [Low-scale standard supersymmetric leptogenesis][Phys. Lett. B 609 (2005) 351]. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2006</b> , 632, 752-753	4.2	13
466	CP Asymmetries in $B_0$ Decays in the Left-Right Model. <i>Physical Review Letters</i> , <b>1998</b> , 80, 4625-4628	7.4	13
465	Measurement of $(\sigma_{\text{pp}}^{\text{hbox}})^{\text{hbox}}$ normalised multi-differential cross sections in $(\text{pp})$ 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
464	Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	13
463	Gravitational wave signals of pseudo-Goldstone dark matter in the Z3 complex singlet model. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	13

462	Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at ( $\sqrt{s_{\mathrm{N};\mathrm{N}}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5-4	13
461	Measurement of the top quark polarization and $tt$ spin correlations using dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 100,	4-9	13
460	Search for ( $\overline{t}t$ ) 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
459	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
458	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
457	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
456	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
455	Implications of Milky Way substructures for the nature of dark matter. <i>Physical Review D</i> , <b>2020</b> , 101,	4-9	12
454	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
453	Suppression of Excited $\chi$ States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s}_{\mathrm{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 120, 142301	7-4	12
452	Measurements of $tt$ cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 776, 355-378	4-2	12
451	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
450	Search for supersymmetry in events with soft leptons, low jet multiplicity, and missing transverse energy 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> , 759, 9-35	4-2	12
449	Measurement of the production cross section for ( $Z\gamma$ to $\nu\overline{\nu}$ ) 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
448	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
447	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
446	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
445	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

444	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
443	Has a fermiophobic Higgs boson been detected at the LHC?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 716, 322-325	4.2	12
442	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
441	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
440	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
439	Lorentz violation from the Higgs portal. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2010</b> , 690, 272-279	4.2	12
438	Supersymmetry and CP violating asymmetries in Bd,s decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1999</b> , 457, 109-117	4.2	12
437	Doubly charged higgsino pair production and decays in ( $\{bf e^+e^-\}$ ) collisions. <i>European Physical Journal C</i> , <b>1999</b> , 8, 479-494	4.2	12
436	Dark matter of any spin: An effective field theory and applications. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	12
435	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
434	Towards a viable scalar interpretation of RD(*). <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	12
433	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
432	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
431	Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	12
430	Studies of 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
429	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
428	Search for single production of vector-like quarks decaying to a b quark and a Higgs boson. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	12
427	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

426	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
425	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
424	Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	11
423	Production of $\Xi^+$ 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
422	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
421	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
420	Phenomenological MSSM interpretation of CMS searches in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	11
419	Measurement of the associated production of a single top quark and a Z boson in pp collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 779, 358-384	4.2	11
418	Search for MSSM Higgs bosons decaying to $\mu\mu$ in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 798, 134992	4.2	11
417	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
416	Search for single production of vector-like quarks decaying into a b quark and a W boson in proton-proton collisions at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 634-656	4.2	11
415	Observation of Top Quark Production in Proton-Nucleus Collisions. <i>Physical Review Letters</i> , <b>2017</b> , 119, 242001	7.4	11
414	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
413	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
412	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
411	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
410	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
409	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

408	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
407	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow \mu\mu\mu\mu$ 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
406	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
405	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
404	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
403	Constraints on primordial black hole dark matter from Galactic center X-ray observations. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 618, A139	5.1	11
402	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
401	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
400	Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to $\mu$ lepton pairs. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	11
399	Charged-particle nuclear modification factors in XeXe collisions at ( $\sqrt{s_{\mathrm{NN}}} = 5.44$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	11
398	Search for $Z$ resonances using leptonic and hadronic final states in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	11
397	Search for the decay of a Higgs boson in the $\tau$ channel in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	11
396	Wormholes in conformal gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2018</b> , 2018, 003-003	6.4	11
395	Search for beyond the standard model Higgs bosons decaying into a ( $\overline{\mathrm{b}}\mathrm{b}$ ) pair in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	11
394	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
393	Search for new neutral Higgs bosons through the ( $\mathrm{H}$ )to $\mathrm{ZA}$ to $\{\ell\}^{\{+\}\{-\}}\overline{\mathrm{b}}\mathrm{b}$ ) process in pp collisions at ( $\sqrt{s} = 13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	10
392	A multi-dimensional search for new heavy resonances decaying to boosted $\mu\mu$ , $\tau\tau$ , or boson pairs in the dijet final state at $13\mu$ <i>European Physical Journal C</i> , <b>2020</b> , 80, 237	4.2	10
391	Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at ( $\sqrt{s}=8$ ) TeV using $H \rightarrow WW$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	10

390	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
389	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
388	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
387	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
386	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
385	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
384	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
383	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
382	Search for high-mass Z 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
381	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
380	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
379	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
378	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
377	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
376	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
375	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
374	Search for contact interactions using the inclusive jet $p_T$ spectrum in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	10
373	Long-lived charged Higgs at LHC as a probe of scalar dark matter. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	10

372	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
371	Flavor violation in supersymmetric SU(5) GUT at large $\tan\beta$ . <i>Physical Review D</i> , <b>2001</b> , 63,	4.9	10
370	Vector boson pair production in $e^+e^-$ collisions with polarized beams. <i>Nuclear Physics B</i> , <b>1995</b> , 437, 305-318.	4.8	10
369	Measurement of properties of $(\mathbf{B}_{\mathbf{s}}^0 \rightarrow \mathbf{B}_{\mathbf{s}}^0)$ decays and search for $\mathbf{B}_0 \rightarrow \mathbf{B}_0$ with the CMS experiment. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	10
368	Measurement of the $\Upsilon(1S)$ pair production cross section and search for resonances decaying to $\Upsilon(1S)\mu\mu$ 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> , 808, 135578	4.2	10
367	Measurement of the $Z\mathbf{B}^0$ production cross section in pp collisions at $\sqrt{s}=8$ TeV and limits on anomalous $ZZ$ and $Z\mathbf{T}$ 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
366	Measurement of the inelastic cross section in proton-lead 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, 641-662	4.2	10
365	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
364	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	10
363	Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	10
362	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
361	Inclusive search for supersymmetry using razor variables in pp collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	9
360	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
359	Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	9
358	A search for the standard model Higgs boson decaying to charm quarks. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	9
357	Simulations of galaxy cluster collisions with a dark plasma component. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 608, A125	5.1	9
356	Search for gauge-mediated supersymmetry in events with at least one photon and missing transverse momentum 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, 118-143	4.2	9
355	Measurements of $t\bar{t}$ charge asymmetry using dilepton final states in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 760, 365-386	4.2	9



354	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
353	Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	9
352	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
351	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
350	Search for top quark partners with charge 5/3 in the same-sign dilepton and single-lepton final states in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	9
349	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
348	Fermi-LAT gamma-ray signal from Earth limb, systematic detector effects and their implications for the 130 GeV gamma-ray excess. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	9
347	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
346	Search for associated production of dark matter with a Higgs boson decaying to ( $\overline{\text{b}}\text{b}$ ) or $\text{b}\bar{\text{t}}$ ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	9
345	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
344	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
343	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
342	Direct detection and CMB constraints on the light dark matter scenario of top quark asymmetry and dijet excess at the Tevatron. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	9
341	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
340	Baryogenesis with scalar bilinears. <i>Physical Review D</i> , <b>1999</b> , 60,	4.9	9
339	Tests of gauge boson couplings in polarized $e^+e^-$ collisions. <i>Nuclear Physics B</i> , <b>1995</b> , 441, 49-60	2.8	9
338	Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	9
337	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

336	Search for a light pseudoscalar Higgs boson in the boosted $\ell$ final state in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	9
335	Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $[Formula: see text]$ pair in proton-proton collisions at $[Formula: see text]$ . <i>European Physical Journal C</i> , <b>2016</b> , 76, 317	4.2	9
334	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
333	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
332	Search for a singly produced third-generation scalar leptoquark decaying to a $\ell$ lepton and a bottom quark in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	9
331	Measurement of the top quark mass in the dileptonic $t\bar{t}$ decay channel using the mass observables $M_{b\ell}$ , $M_{T2}$ , and $M_{b\ell}$ in pp collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	8
330	Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8
329	Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8
328	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
327	Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	8
326	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
325	Search for Higgsino pair production in pp collisions at $s=13$ 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
324	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $(\sqrt{s_{\mathit{NN}}}=5.02)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	8
323	Search for s channel single top quark production in pp collisions at $(\sqrt{s}=7)$ and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	8
322	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
321	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
320	Search for excited leptons in pp collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 720, 309-329	4.2	8
319	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

318	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
317	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
316	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
315	Single top quark production at LEP200. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1993</b> , 318, 237-240	4.2	8
314	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
313	Search for electroweak production of a vector-like T quark using fully hadronic final states. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
312	Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
311	Gravitational dark matter production in Palatini preheating. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2021</b> , 2021, 064	6.4	8
310	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
309	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
308	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
307	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
306	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
305	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
304	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
303	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
302	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
301	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

300	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
299	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
298	Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	7
297	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
296	Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV and constraints on anomalous quartic couplings. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	7
295	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
294	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
293	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
292	Jet properties in PbPb and pp collisions at ( $\sqrt{s_{\mathrm{N};\mathrm{N}}}=5.02$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
291	The cosmic-ray positron excess from a local Dark Matter over-density. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 728, 58-62	4.2	7
290	Measurement of the semileptonic ( $\overline{\mathrm{t}} + \mathrm{b}$ ) production cross section in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	7
289	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
288	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
287	Measurement of the Z production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	7
286	Electron EDM and soft leptogenesis in supersymmetric B-L extension of the Standard Model. <i>Nuclear Physics B</i> , <b>2009</b> , 820, 75-88	2.8	7
285	Enhancement of radiatively induced magnetic moment form-factors of muon: an effective Lagrangian approach. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2001</b> , 508, 51-57	4.2	7
284	Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	7
283	Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	7

282	Searches for R-parity-violating supersymmetry in pp collisions at $\sqrt{s}=8$ TeV in final states with 0 $\tau$ leptons. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	7
281	Common explanation to the RK(*), RD(*), and $R/\bar{D}$ anomalies in a 3HDM with right-handed neutrinos and connections to neutrino physics. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	7
280	Search for long-lived particles using delayed photons in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	7
279	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
278	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
277	Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at ( $\sqrt{s}=8$ ) and 13 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
276	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
275	Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2\tau q$ final states at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
274	Search for dark matter produced in association with a Higgs boson decaying to $\tau\bar{\tau} + \tau\bar{\tau} + b\bar{b}$ ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
273	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
272	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
271	Search for a Light Charged Higgs Boson Decaying to a W Boson and a CP-Odd Higgs Boson in Final States with $e\tau$ in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 123, 131802	7.4	6
270	Measurement of prompt $(\tau S)$ production cross sections in proton-lead and proton-proton 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, 509-532	4.2	6
269	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
268	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
267	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
266	Search for a light charged Higgs boson in the $H\pm \rightarrow cs$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	6
265	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

264	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
263	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
262	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\bar{\nu}e$ and $e\nu$ in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	6
261	Measurement of the $B$ polarization and angular parameters in $B \rightarrow J/\psi$ decays from pp collisions at $s=7$ and 8 TeV. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	6
260	Search for supersymmetry in electroweak production with photons and large missing transverse energy in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 479-500	4.2	6
259	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
258	Search for vectorlike light-flavor quark partners in proton-proton collisions at $s=8$ TeV. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	6
257	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
256	Search for anomalous production of highly boosted Z bosons decaying to $\mu\mu$ in proton-proton collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 722, 28-47	4.2	6
255	Measurement of the mass difference between top quark and antiquark in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 770, 50-71	4.2	6
254	Search for leptophobic Z' bosons decaying into four-lepton final states in proton-proton collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 773, 563-584	4.2	6
253	Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at $s=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 775, 315-337	4.2	6
252	Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	6
251	Fermiophobic Higgs boson and supersymmetry. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	6
250	Low-scale axion from large extra dimensions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2001</b> , 504, 296-300	4.2	6
249	Search for the associated production of the Higgs boson with a top-quark pair <b>2014</b> , 2014, 1		6
248	Search for supersymmetry in pp collisions at $s=13$ 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
247	Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	6

246	Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	6
245	Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at ( $\sqrt{s}$ )=8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	6
244	Measurement of the differential Drell-Yan cross section in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	6
243	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
242	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
241	Measurements of production cross sections of polarized same-sign W boson pairs in association 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>2021</b> , 812, 136018	4.2	6
240	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
239	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at ( $\sqrt{s}$ )=13 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
238	Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at ( $\sqrt{s}$ )=13 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
237	Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2018</b> , 121, 221802	7.4	6
236	Search for a heavy resonance decaying into a Z boson and a vector boson in the ( $\nu_{\overline{q}}\overline{\mathit{q}}$ ) final state. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
235	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
234	Fake doublet solution to the muon anomalous magnetic moment. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	6
233	Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at $s_{NN}=5.02$ TeV. <i>Physical Review C</i> , <b>2017</b> , 96,	2.7	5
232	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
231	Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
230	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
229	Measurement of the top quark Yukawa coupling from $t\bar{t}$ 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

228	Measurement of neutral strange particle production in the underlying event in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	5
227	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
226	Vacuum stability and perturbativity of SU(3) scalars. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	5
225	Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	5
224	Comparison of the $Z/\bar{\nu} + \text{jets}$ to $\bar{\nu}$ jets cross sections in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	5
223	Search for jet extinction in the inclusive jet- $p_T$ spectrum from proton-proton collisions at $\sqrt{s}=8$ TeV. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	5
222	Search for contact interactions in $\bar{\nu}\bar{\nu}$ events in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	5
221	Relaxing $b \rightarrow s$ constraints on the supersymmetric particle mass spectrum. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2000</b> , 491, 297-304	4.2	5
220	Muon pair production in electron-electron collisions as a test of the left-right-symmetric model. <i>Physical Review D</i> , <b>1993</b> , 48, 4467-4469	4.9	5
219	Measurement of energy flow at large pseudorapidities in pp collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV <b>2011</b> , 2011, 1		5
218	Observation of the $B^0 \rightarrow J/\psi$ decay 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> , 802, 135203	4.2	5
217	Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	5
216	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
215	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
214	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
213	Search for resonant and nonresonant new phenomena in high-mass dilepton final states at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	5
212	$\rho(\text{nS})$ polarizations versus particle multiplicity in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 761, 31-52	4.2	5
211	Search for resonances decaying to a pair of Higgs bosons in the $b(\overline{\text{mathrm{b}}})q(\overline{\text{mathrm{q}}})$ final state in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5



210	Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at $\sqrt{s_{NN}}=5.44$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 799, 135049	4.2	5
209	Probing the chiral magnetic wave in pPb and PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV using charge-dependent azimuthal anisotropies. <i>Physical Review C</i> , <b>2019</b> , 100,	2.7	5
208	Measurement of the $t\bar{t}b\bar{b}$ production cross section in the all-jet final state in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2020</b> , 803, 135283	4.2	5
207	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
206	Measurement of the groomed jet mass in PbPb and pp collisions at $(\sqrt{s_{\mathrm{NN}}})=5.02$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	5
205	Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	5
204	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
203	Search for excited quarks of light and heavy flavor in $l\bar{l}$ jet 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>2018</b> , 781, 390-411	4.2	5
202	Search for Higgs and Z boson decays to $J/\psi$ or $\Upsilon$ pairs in the four-muon final state 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> , 797, 134811	4.2	4
201	Search for a low-mass $\chi$ resonance in association with a bottom quark in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	4
200	Search for the pair production of light top squarks in the $e\bar{e}\chi$ 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
199	Search for nonresonant Higgs boson pair production in the $(\overline{b}b\overline{b}b)$ final state at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	4
198	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
197	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
196	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
195	Measurements of the W boson rapidity, helicity, double-differential cross sections, and charge asymmetry in pp collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	4
194	Measurement of the top quark Yukawa coupling from $t\bar{t}$ kinematic distributions in the dilepton final state in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	4
193	Search for resonant pair production of Higgs bosons in the $b\bar{b}ZZ$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	4

192	Evidence for $(\text{W})\text{W}$ production from double-parton interactions in proton-proton collisions at $(\sqrt{s} = 13, \text{TeV})$ . <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	4
191	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
190	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
189	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
188	Measurement of the ratio $B(\text{Bs}^0 \rightarrow \text{J}/\psi(9860)) / B(\text{Bs}^0 \rightarrow \text{J}/\psi(1020))$ in pp collisions at $s=7\sqrt{\text{TeV}}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 756, 84-102	4.2	4
187	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
186	Search for a $W'$ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	4
185	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
184	Search for high-mass $Z'$ resonances in $e^+e^-$ and $q\bar{q}$ 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
183	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
182	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
181	Symmetryless dark matter. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	4
180	Testing left-right symmetric gauge theories at $e^+e^-$ colliders. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2000</b> , 492, 107-114	4.2	4
179	Measurement of differential cross sections and charge ratios for $\gamma$ -channel single top quark production in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 370	4.2	4
178	Phenomenology of a fake Inert Doublet Model. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	4
177	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
176	$W+W$ boson pair production in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	4
175	Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	4

174	Observation of the $B_{s^0} \rightarrow X(3872) \gamma$ Decay. <i>Physical Review Letters</i> , <b>2020</b> , 125, 152001	7.4	4
173	Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	4
172	Search for new physics in top quark production with additional leptons in proton-proton collisions at $(\sqrt{s}) = 13$ TeV using effective field theory. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	4
171	Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	4
170	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
169	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
168	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
167	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
166	Confronting spin-3/2 and other new fermions with the muon g-2 measurement. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 820, 136491	4.2	4
165	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
164	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
163	Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $(\sqrt{s}) = 13$ TeV via Higgs boson decays to $\ell\ell$ leptons. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	3
162	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
161	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
160	Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	3
159	Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft $\ell$ 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
158	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
157	Measurement of the inclusive $(\overline{\text{t}})$ cross section in pp collisions at $(\sqrt{s}=5.02)$ TeV using final states with at least one charged lepton. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	3

156	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
155	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
154	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
153	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
152	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
151	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
150	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
149	Implications of effective axial-vector coupling of gluon for $t\bar{t}$ spin polarizations at the LHC. <i>Physical Review D</i> , <b>2013</b> , 87,	4-9	3
148	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
147	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
146	Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5-4	3
145	Measurement of the $(\overline{t})$ production cross section in the dilepton channel in pp collisions at $(\sqrt{s}) = 8$ TeV <b>2014</b> , 2014, 1		3
144	Novel mechanism for primordial perturbations in minimal extensions of the Standard Model. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	3
143	Dependence of inclusive jet production on the anti-kT distance parameter in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	3
142	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
141	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
140	Investigation into the event-activity dependence of $\langle n_S \rangle$ relative production in proton-proton collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	3
139	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

138	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
137	Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	3
136	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
135	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
134	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
133	Event shape variables measured using multijet final states in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	3
132	Search for lepton-flavor violating decays of heavy resonances and quantum black holes to e[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
131	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
130	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
129	Observation of the decay $B \rightarrow \tau \nu \tau \nu$ in pp collisions at $s=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 764, 66-86	4.2	2
128	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
127	Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at $(\sqrt{s} = 13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
126	Search for decays of the 125 GeV Higgs boson into a Z boson and a $\tau \nu$ meson. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
125	Multiparticle correlation studies in pPb collisions at $s_{NN}=8.16$ TeV. <i>Physical Review C</i> , <b>2020</b> , 101,	2.7	2
124	Determination of the strong coupling constant $\alpha_s(m_Z)$ from measurements of inclusive $W$ and Z boson production cross sections in proton-proton collisions at $(\sqrt{s}) = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
123	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
122	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
121	Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at $s=7$ and 8 TeV. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	2

120	Search for dark matter particles in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV using the razor variables. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	2
119	Search for $W \rightarrow tb$ in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	2
118	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
117	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 $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 795, 76-99	4.2	2
116	Inclusive search for supersymmetry in pp collisions at ( $\sqrt{s}=13$ ) TeV using razor variables and boosted object identification in zero and one lepton final states. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
115	Search for excited leptons in final states in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
114	Centrality and pseudorapidity dependence of the transverse energy density in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review C</i> , <b>2019</b> , 100,	2.7	2
113	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
112	Measurements of the $pp \rightarrow Wb$ and $pp \rightarrow Zt$ 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
111	Search for new phenomena with multiple charged leptons in proton-proton collisions at ( $\sqrt{s}=13$ ) (,text {TeV}). <i>European Physical Journal C</i> , <b>2017</b> , 77, 1	4.2	2
110	Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the $Bb$ final state at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
109	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
108	Search for supersymmetry using Higgs boson to diphoton decays at ( $\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
107	Probing the exotic particle content beyond the standard model <b>1999</b> , 8, 301		2
106	Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2020</b> , 125, 151802	7.4	2
105	The production of isolated photons in PbPb and pp collisions at ( $\sqrt{s_{\text{NN}}}) = 5.02$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
104	Bose-Einstein correlations of charged hadrons in proton-proton collisions at ( $\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
103	Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , <b>2020</b> , 124, 202001	7.4	2

102	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
101	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
100	Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
99	Angular analysis of the decay $B^+ \rightarrow K^{*0} \mu^+ \nu_\mu$ in proton-proton collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
98	Higher-spin particles at high-energy colliders. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
97	Light Higgs boson from multi-phase criticality in dynamical symmetry breaking. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 816, 136241	4.2	2
96	First measurement of large area jet transverse momentum spectra in heavy-ion collisions. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
95	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
94	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
93	Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
92	Collisionless shocks in self-interacting dark matter. <i>Plasma Physics and Controlled Fusion</i> , <b>2018</b> , 60, 014011		2
91	Search for lepton-flavor violating decays of the Higgs boson in the $\tau\tau$ and $e\tau$ final states in proton-proton collisions at $s=13$ TeV. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	2
90	Search for $W^{\pm}$ 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
89	Search for supersymmetry in events with a photon, jets, $n$ -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
88	Search for W Boson Decays to Three Charged Pions. <i>Physical Review Letters</i> , <b>2019</b> , 122, 151802	7.4	1
87	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
86	A new mechanism for dark energy: the adaptive screening. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	1
85	Evidence for Top Quark Production in Nucleus-Nucleus Collisions. <i>Physical Review Letters</i> , <b>2020</b> , 125, 222001	7.4	1

84	Search for supersymmetry in proton-proton collisions at $(\sqrt{s}) = 13$ TeV in events with high-momentum Z bosons and missing transverse momentum. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
83	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
82	Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
81	Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
80	Mass of tau neutrino in SO(10) GUTs. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1997</b> , 406, 219-224	4.2	1
79	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
78	Measurement of b hadron lifetimes in pp collisions at $(\sqrt{s} = 8)$ (,text {Te}text {V}) <b>2018</b> , 78, 1		1
77	Cosmological black holes are not described by the Thakurta metric: LIGO-Virgo bounds on PBHs remain unchanged. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	1
76	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
75	Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb <sup>-1</sup> of proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
74	Measurement of the electroweak production of $Z\bar{\chi}$ 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
73	Measurements of the $pp \rightarrow W\bar{\chi}$ and $pp \rightarrow Z\bar{\chi}$ cross sections at $(\sqrt{\text{mathrm}\{s\}}) = 13$ TeV and limits on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
72	Study of the $(\text{mathrm}\{B\}^+ \rightarrow \text{mathrm}\{J\}/\text{uppsi overline}\{\text{Lambda}\}\text{mathrm}\{p\})$ decay in proton-proton collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	1
71	Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
70	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
69	Measurement of the cross section for $(\text{mathrm}\{t\}\text{overline}\{\text{mathrm}\{t\}\})$ production with additional jets and b jets in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
68	Measurement of differential cross sections for Z bosons produced in association with charm jets in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
67	Development and validation of HERWIG <sup>++</sup> tunes from CMS underlying-event measurements. <i>European Physical Journal C</i> , <b>2021</b> , 81, 312	4.2	1



66	Measurement of the CP-violating phase $\phi_s$ in the $B_s^0 \rightarrow J/\psi(1020) \rightarrow \mu^+ \mu^- K_S^0$ channel in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 816, 136188	4.2	1
65	Observation of a New Excited Beauty Strange Baryon Decaying to $\Lambda_b^+ \rightarrow \Lambda^+ \mu^-$ . <i>Physical Review Letters</i> , <b>2021</b> , 126, 252003	7.4	1
64	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
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62	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
61	Observation of the $Z \rightarrow \mu^+ \mu^-$ Decay in pp Collisions at $\sqrt{s}=13\text{ TeV}$ . <i>Physical Review Letters</i> , <b>2018</b> , 121, 141801	7.4	1
60	Search for Pair-Produced Resonances Each Decaying into at Least Four Quarks in Proton-Proton Collisions at $\sqrt{s}=13\text{ TeV}$ . <i>Physical Review Letters</i> , <b>2018</b> , 121, 141802	7.4	1
59	Higgs-like spectator field as the origin of structure. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	1
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57	Measurement of the azimuthal anisotropy of and mesons in PbPb collisions at $s_{NN}=5.02\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 819, 136385	4.2	1
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55	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	1
54	Search for a heavy resonance decaying to a top quark and a W boson at $\sqrt{s} = 13\text{ TeV}$ in the fully hadronic final state. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
53	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
52	Measurement of double-parton scattering in inclusive production of four jets with low transverse momentum in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
51	Study of quark and gluon jet substructure in Z+jet and dijet events from pp collisions. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
50	Search for W resonances in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ 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
49	Primordial black holes from spectator field bubbles. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2022</b> , 2022, 017	6.4	0

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45	Measurement of b jet shapes in proton-proton collisions at $(\sqrt{s}) = 5.02$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
44	Study of Drell-Yan dimuon production in proton-lead collisions at $(\sqrt{s_{\mathrm{NN}}}) = 8.16$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
43	In-medium modification of dijets in PbPb collisions at $(\sqrt{s_{\mathrm{NN}}}) = 5.02$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
42	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	○
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40	Principle of multiple point criticality in multi-scalar dark matter models. <i>Nuclear Physics B</i> , <b>2021</b> , 968, 115441	2.8	○
39	Search for the rare decay of the W boson into a pion and a photon 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> , 819, 136409	4.2	○
38	Search for a heavy vector resonance decaying to a $\tau$ boson and a Higgs boson in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 688	4.2	○
37	First measurement of the cross section for top quark pair production with additional charm jets using dileptonic final states in pp collisions at $s=13\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2021</b> , 820, 136565	4.2	○
36	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	○
35	Measurement of the Inclusive and Differential Higgs Boson Production Cross Sections in the Decay Mode to a Pair of $\tau$ Leptons in pp Collisions at $\sqrt{s}=13$ TeV.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 081805	7.4	○
34	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	○
33	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	○
32	Search for long-lived particles produced in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
31	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	○

30	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	○
29	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	○
28	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	○
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26	Measurement of the top quark mass using events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
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24	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	○
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