

Alexander Belyaev

List of Publications by Citations

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

690
papers

21,649
citations

69
h-index

112
g-index

721
ext. papers

24,650
ext. citations

5.1
avg, IF

5.45
L-index

#	Paper	IF	Citations
690	CalcHEP 3.4 for collider physics within and beyond the Standard Model. <i>Computer Physics Communications</i> , 2013 , 184, 1729-1769	4.2	585
689	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> , 2015 , 75, 212	4.2	399
688	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1	5.4	389
687	Study of high-p T charged particle suppression in PbPb compared to pp collisions at ($\sqrt{s_{\text{NN}}}=2.76\sim\text{TeV}$). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	316
686	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> , 2013 , 2013, 1	5.4	261
685	Physics interplay of the LHC and the ILC. <i>Physics Reports</i> , 2006 , 426, 47-358	27.7	261
684	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> , 2015 , 75, 235	4.2	250
683	Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , 2016 , 76, 155	4.2	250
682	Observation of the diphoton decay of the Higgs boson and measurement of its properties. <i>European Physical Journal C</i> , 2014 , 74, 3076	4.2	239
681	Boosted objects: a probe of beyond the standard model physics. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	213
680	Direct, indirect and collider detection of neutralino dark matter in SUSY models with non-universal Higgs masses. <i>Journal of High Energy Physics</i> , 2005 , 2005, 065-065	5.4	213
679	Supersymmetry parameter analysis: SPA convention and project. <i>European Physical Journal C</i> , 2006 , 46, 43-60	4.2	203
678	A precision measurement of the mass of the top quark. <i>Nature</i> , 2004 , 429, 638-42	50.4	202
677	Physics potential and experimental challenges of the LHC luminosity upgrade. <i>European Physical Journal C</i> , 2005 , 39, 293-333	4.2	202
676	Simplified models for dark matter searches at the LHC. <i>Physics of the Dark Universe</i> , 2015 , 9-10, 8-23	4.4	196
675	CERN LHC signals from warped extra dimensions. <i>Physical Review D</i> , 2008 , 77,	4.9	187
674	Suppression of non-prompt J/ψ and $(\Upsilon)(1S)$ in PbPb collisions at ($\sqrt{s_{\text{NN}}}=2.76$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	184

673	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> , 2014 , 74, 3036	4.2	183
672	Search for top-squark pair production in the single-lepton final state in pp collisions at ($\sqrt{s}=8$ TeV). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	162
671	Neutralino relic density in minimal supergravity with co-annihilations. <i>Journal of High Energy Physics</i> , 2002 , 2002, 042-042	5.4	160
670	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at ($\sqrt{s_{NN}}=2.76$ TeV). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	158
669	Search for dark matter and large extra dimensions in monojet events in pp collisions at ($\sqrt{s} = \{7\}$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	155
668	Combined measurements of Higgs boson couplings in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 421	4.2	153
667	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> , 2014 , 74, 3149	4.2	149
666	Updated reach of CERN LHC and constraints from relic density, b \rightarrow s γ and the mSUGRA model. <i>Journal of High Energy Physics</i> , 2003 , 2003, 054-054	5.4	147
665	Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	144
664	Heavy quark mass effects in deep inelastic scattering and global QCD analysis. <i>Journal of High Energy Physics</i> , 2007 , 2007, 053-053	5.4	142
663	Phenomenology of the minimal B μ extension of the standard model: Z ν and neutrinos. <i>Physical Review D</i> , 2009 , 80,	4.9	139
662	Parton distributions and the strong coupling: CTEQ6AB PDFs. <i>Journal of High Energy Physics</i> , 2006 , 2006, 032-032	5.4	139
661	Study of the inclusive production of charged pions, kaons, and protons in pp collisions at ($\sqrt{s} = 0.9, 2.76, \sqrt{s} \sim \sqrt{s}$ TeV). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	133
660	Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes. <i>European Physical Journal C</i> , 2014 , 74, 2980	4.2	131
659	Measurement of the inclusive W and Z production cross sections in pp collisions at ($\sqrt{s} = 7$) TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	121
658	Prompt and non-prompt J/ ψ production in pp collisions at ($\sqrt{s} = 7$) TeV. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	118
657	Updated Constraints on the Minimal Supergravity Model. <i>Journal of High Energy Physics</i> , 2002 , 2002, 050-050	5.4	116
656	A search for a doubly-charged Higgs boson in pp collisions at ($\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	111

655	Measurements of inclusive W and Z cross sections in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	104
654	The bb production cross section and angular correlations in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 487, 264-272	4.2	103
653	Measurement of differential top-quark-pair production cross sections in pp collisions at ($\sqrt{s} = 7$ mathrm{TeV}). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	102
652	Evidence for the 125 GeV Higgs boson decaying to a pair of τ leptons. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	101
651	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> , 2012 , 2012, 1	5.4	101
650	Neutralino cold dark matter in a one-parameter extension of the minimal supergravity model. <i>Physical Review D</i> , 2005 , 71,	4.9	100
649	CMS tracking performance results from early LHC operation. <i>European Physical Journal C</i> , 2010 , 70, 116541192	4.9	99
648	Measurement of the differential cross section for top quark pair production in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 542	4.2	98
647	Direct measurement of the top quark mass by the DØ Collaboration. <i>Physical Review D</i> , 1998 , 58,	4.9	98
646	Searches for long-lived charged particles in pp collisions at (\sqrt{s}) =7 and 8 TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	96
645	Measurement of the Top Quark Mass Using Dilepton Events. <i>Physical Review Letters</i> , 1998 , 80, 2063-2068	4.4	96
644	Phenomenology of a littlest Higgs model with T parity: Including effects of T-odd fermions. <i>Physical Review D</i> , 2006 , 74,	4.9	95
643	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> , 2012 , 2012, 1	5.4	92
642	Charged particle multiplicities in pp interactions at ($\sqrt{s} = 0.9$), 2.36, and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	89
641	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at ($\sqrt{s_{\text{NN}}}$) = 2.76) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	87
640	Anatomy of the inert two-Higgs-doublet model in the light of the LHC and non-LHC dark matter searches. <i>Physical Review D</i> , 2018 , 97,	4.9	83
639	Search for supersymmetry in hadronic final states with missing transverse energy using the variables and b-quark multiplicity in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2013 , 73, 2568	4.2	82
638	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> , 2014 , 2014, 1	5.4	81

637	Technicolor walks at the LHC. <i>Physical Review D</i> , 2009 , 79,	4.9	79
636	pp→t \bar{t} , H, H→ $\tau\tau$ toward a model independent determination of the Higgs boson couplings at the LHC. <i>Journal of High Energy Physics</i> , 2002 , 2002, 041-041	5.4	79
635	Strange particle production in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	78
634	Search for Charged Higgs Bosons in Decays of Top Quark Pairs. <i>Physical Review Letters</i> , 1999 , 82, 4975-4980	4.9	78
633	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> , 2017 , 2017, 1	5.4	77
632	Production of excited neutrinos at the LHC. <i>European Physical Journal C</i> , 2005 , 41, 1-10	4.2	77
631	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> , 2014 , 2014, 1	5.4	74
630	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> , 2017 , 2017, 1	5.4	74
629	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> , 2015 , 2015, 1	5.4	73
628	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at ($\sqrt{s_{\text{NN}}} = 2.76$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	73
627	Measurement of the top quark mass in the dilepton channel. <i>Physical Review D</i> , 1999 , 60,	4.9	73
626	Yukawa coupling unification in supersymmetric models. <i>Journal of High Energy Physics</i> , 2003 , 2003, 023-023	5.2	72
625	Study of the production of charged pions, kaons, and protons in pPb collisions at [Formula: see text]5.02[Formula: see text]. <i>European Physical Journal C</i> , 2014 , 74, 2847	4.2	71
624	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	70
623	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> , 2012 , 2012, 1	5.4	70
622	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> , 2011 , 2011, 1	5.4	70
621	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> , 2015 , 2015, 1	5.4	69
620	J/ ψ and Υ (2S) production in pp collisions at ($\sqrt{s} = 7$ {text{TeV}}). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	69

619	Direct detection of dark matter in supersymmetric models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2003 , 2003, 007-007	6.4	69
618	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at ($\sqrt{s_{\mathrm{NN}}}$) = 5.02) (,text {TeV}). <i>European Physical Journal C</i> , 2014 , 74, 1	4.2	67
617	Measurement of the Top Quark Pair Production Cross Section in pp Collisions. <i>Physical Review Letters</i> , 1997 , 79, 1203-1208	7.4	67
616	Dark Matter benchmark models for early LHC Run-2 Searches: Report of the ATLAS/CMS Dark Matter Forum. <i>Physics of the Dark Universe</i> , 2020 , 27, 100371	4.4	66
615	Search for anomalous production of multilepton events in pp collisions at (\sqrt{s}) = 7,TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	65
614	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> , 2017 , 2017, 1	5.4	64
613	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> , 2012 , 2012, 1	5.4	64
612	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> , 2018 , 2018, 1	5.4	63
611	CERN LHC signatures of new gauge bosons in the minimal Higgsless model. <i>Physical Review D</i> , 2008 , 78,	4.9	62
610	High-pT jets in pPb collisions at s=630 and 1800 GeV. <i>Physical Review D</i> , 2001 , 64,	4.9	62
609	Inclusive Jet Cross Section in pPb Collisions at \sqrt{s} =1.8TeV. <i>Physical Review Letters</i> , 1999 , 82, 2451-2456	7.4	62
608	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. <i>European Physical Journal C</i> , 2020 , 80, 4	4.2	61
607	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> , 2014 , 2014, 1	5.4	61
606	Search for a charged Higgs boson in pp collisions at (\sqrt{s})=8) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	61
605	Z? physics with early LHC data. <i>Physical Review D</i> , 2011 , 83,	4.9	61
604	Search for large extra dimensions in dielectron and diphoton production. <i>Physical Review Letters</i> , 2001 , 86, 1156-61	7.4	61
603	Extraction of the width of the W boson from measurements of ($\mathrm{pp}\rightarrow\mathrm{W}+\mathrm{X}$) $\mathrm{B}(\mathrm{W}\rightarrow\mathrm{e})$ and ($\mathrm{pp}\rightarrow\mathrm{Z}+\mathrm{X}$) $\mathrm{B}(\mathrm{Z}\rightarrow\mathrm{ee})$ and their ratio. <i>Physical Review D</i> , 2000 , 61,	4.9	61
602	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at ($\sqrt{s_{\mathrm{NN}}}$) =2.76 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	60

601	Inclusive jet production in pp collisions. <i>Physical Review Letters</i> , 2001 , 86, 1707-12	7.4	60
600	Isolated photon cross section in p&pmacr; collisions at radicals = 1.8 TeV. <i>Physical Review Letters</i> , 2000 , 84, 2786-91	7.4	60
599	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> , 2014 , 2014, 1	5.4	59
598	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> , 2017 , 77, 252	4.2	58
597	Search for anomalous (\overline{t}) production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	57
596	Measurement of the High-Mass Drell-Yan Cross Section and Limits on Quark-Electron Compositeness Scales. <i>Physical Review Letters</i> , 1999 , 82, 4769-4774	7.4	57
595	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> , 2013 , 2013, 1	5.4	56
594	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> , 2013 , 73, 1	4.2	56
593	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> , 2011 , 2011, 1	5.4	56
592	Leptoquark single and pair production at LHC with CalcHEP/CompHEP in the complete model. <i>Journal of High Energy Physics</i> , 2005 , 2005, 005-005	5.4	56
591	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> , 2015 , 75, 251	4.2	55
590	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> , 2017 , 77, 710	4.2	54
589	Uncovering Natural Supersymmetry via the interplay between the LHC and direct Dark Matter detection. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	53
588	Linear Collider Capabilities for Supersymmetry in Dark Matter Allowed Regions of the mSUGRA Model. <i>Journal of High Energy Physics</i> , 2004 , 2004, 007-007	5.4	53
587	Dijet Mass Spectrum and a Search for Quark Compositeness in p&p Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1999 , 82, 2457-2462	7.4	53
586	Search for ($B_{\text{s}}^0 \rightarrow \tau^+ \tau^-$) and $B_0 \rightarrow \tau^+ \tau^-$ decays. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	52
585	SUSY Normal Scalar Mass Hierarchy Reconciles $(g-2)_b$, $b\bar{s}$, and Relic Density. <i>Journal of High Energy Physics</i> , 2004 , 2004, 044-044	5.4	51
584	Search for large extra dimensions in the monojet+E(T) channel with the D detector. <i>Physical Review Letters</i> , 2003 , 90, 251802	7.4	51

583	Search for single top quark production at D using neural networks. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001 , 517, 282-294	4.2	51
582	Search for Squarks and Gluinos in Events Containing Jets and a Large Imbalance in Transverse Energy. <i>Physical Review Letters</i> , 1999 , 83, 4937-4942	7.4	51
581	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 147	4.2	50
580	Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at ($\sqrt{s} = 7 \text{ TeV}$) and first determination of the strong coupling constant in the TeV range. <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	50
579	Z discovery potential at the LHC in the minimal B extension of the standard model. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	50
578	Prospects for heavy supersymmetric charged Higgs boson searches at hadron colliders. <i>Journal of High Energy Physics</i> , 2002 , 2002, 059-059	5.4	50
577	Determination of the absolute jet energy scale in the D calorimeters. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999 , 424, 352-394	1.2	50
576	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> , 2018 , 2018, 1	5.4	50
575	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> , 2013 , 73, 2469	4.2	49
574	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 237	4.2	48
573	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> , 2014 , 2014, 1	5.4	48
572	Measurement of the ($\tau^+\tau^-$) production cross section and the top quark mass in the dilepton channel in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	48
571	Measurement of the inclusive differential cross section for Z bosons as a function of transverse momentum in p p collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , 2000 , 61,	4.9	48
570	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> , 2017 , 2017, 1	5.4	46
569	Measurement of the relative prompt production rate of and in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2012 , 72, 2251	4.2	46
568	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> , 2011 , 2011, 1	5.4	46
567	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> , 2011 , 2011, 1	5.4	46
566	Helicity of the W boson in lepton+jets. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005 , 617, 1-10	4.2	46

565	Search for First Generation Scalar Leptoquark Pairs in pp Collisions at $s=1.8\text{TeV}$. <i>Physical Review Letters</i> , 1998 , 80, 2051-2056	7.4	46
564	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> , 2018 , 2018, 1	5.4	45
563	Exclusive $B \rightarrow B^* \mu\mu$ production in proton-proton collisions at $(\sqrt{s} = \{7\})$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	45
562	Search for the associated production of the Higgs boson with a top-quark pair. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	45
561	Search for exclusive or semi-exclusive $\mu\mu$ production and observation of exclusive and semi-exclusive $e+e\mu$ production in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	45
560	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> , 2013 , 73, 2283	4.2	45
559	Limits on Anomalous WW Couplings from $pp \rightarrow W\mu X$ Events at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1997 , 78, 3634-3639	7.4	45
558	Measurement of the $X(3872)$ production cross section via decays to $J/\psi \mu\mu$ in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	44
557	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> , 2012 , 2012, 1	5.4	44
556	Charged particle transverse momentum spectra in pp collisions at $(\sqrt{s} = 0.9)$ and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	44
555	Search for Scalar Leptoquark Pairs Decaying to Electrons and Jets in $p\bar{p}$ Collisions. <i>Physical Review Letters</i> , 1997 , 79, 4321-4326	7.4	44
554	Measurement of the (\overline{t}) production cross section in the dilepton channel in pp collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	43
553	Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	43
552	Search for leptonic decays of $W^?$ bosons in pp collisions at $(\sqrt{s} = \{7\})$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	43
551	Event activity dependence of $(Y)(nS)$ production in $(\sqrt{\{s_{NN}\}}) = 5.02$ TeV $p\text{Pb}$ and $(\sqrt{s}) = 2.76$ TeV pp collisions. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	42
550	Search for additional neutral MSSM Higgs bosons in the $\mu\mu$ final state in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	42
549	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> , 2015 , 75, 186	4.2	41
548	Measurement of prompt J/ψ pair production in pp collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	41

547	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> , 2012 , 2012, 1	5-4	4 ¹
546	Z ⁰ at the LHC: interference and finite width effects in Drell-Yan. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	4 ¹
545	Mixed dark matter from technicolor. <i>Physical Review D</i> , 2011 , 83,	4-9	4 ¹
544	Measurement of the inelastic proton-proton cross section at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5-4	4 ¹
543	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> , 2018 , 2018, 1	5-4	4 ⁰
542	Studies of jet mass in dijet and W/Z + jet events. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	39
541	Study of the underlying event at forward rapidity in pp collisions at ($\sqrt{s}=0.9, 2.76, \text{and } 7$ TeV). <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	39
540	Measurement of the ZZ production cross section and search for anomalous couplings in 2000 final states in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	39
539	Di-boson signatures as standard candles for partial compositeness. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5-4	39
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537	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> , 2018 , 2018, 1	5-4	39
536	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> , 2014 , 2014, 1	5-4	38
535	Search for microscopic black holes in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	38
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531	Measurement of the differential cross section and charge asymmetry for inclusive [Formula: see text] production at [Formula: see text] TeV. <i>European Physical Journal C</i> , 2016 , 76, 469	4-2	37
530	Measurement of associated W + charm production in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5-4	37

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521	Measurement of prompt and nonprompt charmonium suppression in collisions at 5.02. <i>European Physical Journal C</i> , 2018 , 78, 509	4-2	37
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514	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> , 2016 , 76, 13	4-2	35
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512	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> , 2017 , 2017, 1	5-4	35

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502	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> , 2013 , 2013, 1	5.4	33
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467	Measurement of the production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. <i>European Physical Journal C</i> , 2019 , 79, 368	4.2	27
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456	Measurement of the W-boson helicity in top-quark decays from ($\overline{\text{t}}$) production in lepton+jets events in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	25
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443	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2013 , 73, 2674	4.2	24
442	Measurement of the $Z/\gamma + \text{b-jet}$ cross section in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	24
441	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> , 2012 , 2012, 1	5.4	24
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436	Search for R-Parity Violating Supersymmetry in the Dielectron Channel. <i>Physical Review Letters</i> , 1999 , 83, 4476-4481	7-4	24
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427	Forward-backward asymmetry as a discovery tool for Z bosons at the LHC. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	22
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423	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at. <i>European Physical Journal C</i> , 2017 , 77, 845	4-2	22
422	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> , 2015 , 2015, 1	5-4	22

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4 ¹⁹	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> , 2017 , 77, 236	4.2	21
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4 ¹⁷	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> , 2015 , 75, 66	4.2	21
4 ¹⁶	Correlations between jets and charged particles in PbPb and pp collisions at ($\sqrt{s_{\mathrm{NN}}}=2.76$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	21
4 ¹⁵	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> , 2016 , 76, 128	4.2	21
4 ¹⁴	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> , 2014 , 2014, 1	5.4	21
4 ¹³	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> , 2014 , 74, 2758	4.2	21
4 ¹²	Measurement of the ($\bar{\mathrm{t}}\mathrm{t}$) production cross section in the $\bar{\mathrm{t}}\mathrm{t}$ jets channel in pp collisions at ($\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	21
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4 ¹⁰	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> , 2017 , 2017, 1	5.4	21
4 ⁰⁹	Search for a Higgs boson in the decay channel $H \rightarrow ZZ^* \rightarrow q(\overline{q}) \mu\mu$ in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	21
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4 ⁰⁶	Search for narrow tt resonances in pp collisions at square root of (s)=1.8 TeV. <i>Physical Review Letters</i> , 2004 , 92, 221801	7.4	21
4 ⁰⁵	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at ($\sqrt{s_{\mathrm{NN}}}=2.76$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	21
4 ⁰⁴	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> , 2019 , 2019, 1	5.4	21

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402	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> , 2016 , 76, 379	4.2	20
401	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> , 2018 , 78, 140	4.2	20
400	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at. <i>European Physical Journal C</i> , 2019 , 79, 564	4.2	20
399	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> , 2012 , 2012, 1	5.4	20
398	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> , 2017 , 2017, 1	5.4	20
397	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> , 2017 , 77, 636	4.2	20
396	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> , 2016 , 2016, 1	5.4	20
395	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> , 2018 , 2018, 1	5.4	20
394	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> , 2018 , 2018, 1	5.4	20
393	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> , 2017 , 77, 15	4.2	19
392	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> , 2015 , 2015, 1	5.4	19
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389	Search for massive WH resonances decaying into the [Formula: see text] final state at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 237	4.2	19
388	Measurement of exclusive photoproduction from protons in Pb collisions at. <i>European Physical Journal C</i> , 2019 , 79, 277	4.2	19
387	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> , 2017 , 2017, 1	5.4	19
386	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> , 2017 , 2017, 1	5.4	19

385	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> , 2015 , 2015, 1	5.4	19
384	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> , 2011 , 2011, 1	5.4	19
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382	Measurement of differential cross sections for boson production in association with jets in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 965	4.2	19
381	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> , 2018 , 78, 789	4.2	19
380	Search for lepton flavour violating decays of the Higgs boson to τ and $e\tau$ in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	19
379	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> , 2019 , 79, 364	4.2	18
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376	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two τ leptons and two jets in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	18
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368	Interplay of the LHC and non-LHC dark matter searches in the effective field theory approach. <i>Physical Review D</i> , 2019 , 99,	4.9	18

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343	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> , 2018 , 2018, 1	5.4	16
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252	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> , 2013 , 2013, 1	5.4	10
251	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> , 2013 , 73, 2493	4.2	10
250	Measurements of jet charge with dijet events in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	10
249	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> , 2017 , 2017, 1	5.4	10
248	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> , 2017 , 2017, 1	5.4	10
247	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> , 2012 , 2012, 1	5.4	10
246	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> , 2011 , 2011, 1	5.4	10
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243	Production and decay of excited electrons at the LHC. <i>European Physical Journal C</i> , 2004 , 32, s1-s17	4.2	10
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239	Search for leptoquark pairs decaying into $n\nu$ +jets in pp collisions at square root $\sqrt{s} = 1.8\text{ TeV}$. <i>Physical Review Letters</i> , 2002 , 88, 191801	7.4	10
238	Measurement of properties of $(\text{B}^0_{\text{s}}) \rightarrow \mu\mu$ decays and search for $\text{B}^0 \rightarrow \mu\mu$ with the CMS experiment. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	10
237	Dose rate effects in the radiation damage of the plastic scintillators of the CMS hadron endcap calorimeter. <i>Journal of Instrumentation</i> , 2016 , 11, T10004-T10004	1	10
236	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $(\sqrt{s}=8)\text{ TeV}$. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	10
235	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> , 2018 , 2018, 1	5.4	10
234	Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $(\sqrt{s}=13)\text{ TeV}$. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	10
233	Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $(\sqrt{s}=13)\text{ TeV}$. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	9
232	A search for the standard model Higgs boson decaying to charm quarks. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	9
231	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> , 2016 , 2016, 1	5.4	9
230	Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $(\sqrt{s}=7)\text{ TeV}$. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	9
229	Measurement of b hadron lifetimes in pp collisions at. <i>European Physical Journal C</i> , 2018 , 78, 457	4.2	9
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225	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> , 2017 , 2017, 1	5.4	9
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223	Search for new physics using QUAERO: a general interface to D0 event data. <i>Physical Review Letters</i> , 2001 , 87, 231801	7.4	9
222	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> , 2019 , 2019, 1	5.4	9
221	Search for a light pseudoscalar Higgs boson in the boosted Υ final state in proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	9
220	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> , 2016 , 76, 317	4.2	9
219	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> , 2018 , 2018, 1	5.4	9
218	Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 697	4.2	9
217	Search for a singly produced third-generation scalar leptoquark decaying to a Υ lepton and a bottom quark in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	9
216	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> , 2019 , 2019, 1	5.4	8
215	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> , 2019 , 2019, 1	5.4	8
214	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> , 2019 , 2019, 1	5.4	8
213	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> , 2020 , 2020, 1	5.4	8
212	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> , 2018 , 2018, 1	5.4	8
211	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> , 2016 , 2016, 1	5.4	8
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208	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> , 2017 , 77, 354	4.2	8
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204	Search for electroweak production of a vector-like T quark using fully hadronic final states. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	8
203	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> , 2020 , 2020, 1	5.4	8
202	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> , 2018 , 2018, 1	5.4	8
201	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> , 2017 , 2017, 1	5.4	7
200	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> , 2017 , 77, 92	4.2	7
199	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> , 2019 , 79, 1	4.2	7
198	Search for rare decays of and Higgs bosons to and a photon in proton-proton collisions at $= 13$. <i>European Physical Journal C</i> , 2019 , 79, 94	4.2	7
197	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> , 2019 , 2019, 1	5.4	7
196	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> , 2019 , 2019, 1	5.4	7
195	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> , 2020 , 2020, 1	5.4	7
194	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> , 2020 , 2020, 1	5.4	7
193	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> , 2016 , 2016, 1	5.4	7
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190	Jet properties in PbPb and pp collisions at $(\sqrt{s_{NN}}=5.02)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
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186	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> , 2017 , 2017, 1	5-4	7
185	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> , 2017 , 2017, 1	5-4	7
184	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> , 2015 , 2015, 1	5-4	7
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182	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> , 2019 , 2019, 1	5-4	7
181	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> , 2016 , 2016, 1	5-4	7
180	Search for dark matter produced in association with a leptonically decaying boson in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 13	4-2	7
179	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> , 2018 , 2018, 1	5-4	7
178	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> , 2018 , 2018, 1	5-4	7
177	Search for a heavy resonance decaying into a Z boson and a Z or W boson in Zq final states at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5-4	7
176	Search for dark matter produced in association with a Higgs boson decaying to $\tau\tau$ ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5-4	7
175	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> , 2018 , 2018, 1	5-4	7
174	Precision luminosity measurement in proton-proton collisions at in 2015 and 2016 at CMS. <i>European Physical Journal C</i> , 2021 , 81, 800	4-2	7
173	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> , 2019 , 79, 90	4-2	6
172	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> , 2015 , 2015, 1	5-4	6
171	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in collisions at and 5.02. <i>European Physical Journal C</i> , 2020 , 80, 534	4-2	6
170	Measurement of electroweak production of a boson in association with two jets in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 43	4-2	6

169	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\bar{l}l$ and $e\bar{\nu}$ in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	6
168	Measurement of dijet azimuthal decorrelation in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 536	4.2	6
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161	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> , 2021 , 2021, 1	5.4	6
160	Probing dark matter with disappearing tracks at the LHC. <i>Physical Review D</i> , 2021 , 103,	4.9	6
159	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> , 2016 , 2016, 1	5.4	6
158	Measurement of the differential Drell-Yan cross section in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	6
157	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> , 2019 , 79, 893	4.2	6
156	Search for new physics in top quark production in dilepton final states in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 886	4.2	6
155	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> , 2018 , 2018, 1	5.4	6
154	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> , 2018 , 2018, 1	5.4	6
153	Search for a heavy resonance decaying into a Z boson and a vector boson in the $(\nu\bar{\nu}\gamma)$ final state. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	6
152	Measurement of the mass of the top quark in decays with a J/ψ meson in pp collisions at 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	5

151	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> , 2019 , 2019, 1	5-4	5
150	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> , 2017 , 2017, 1	5-4	5
149	Comparison of the $Z/\bar{\chi} + \text{jets}$ to $\bar{\chi}$ jets cross sections in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	5
148	Discovering E6 supersymmetric models in gluino cascade decays at the LHC. <i>Physical Review D</i> , 2013 , 87,	4-9	5
147	Higgs boson phenomenology in $\bar{\chi}\chi$ final states at the LHC. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1	5-4	5
146	Search for R-parity violating supersymmetry in two-muon and four-jet topologies. <i>Physical Review Letters</i> , 2002 , 89, 171801	7-4	5
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144	Measurement of energy flow at large pseudorapidities in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV 2011 , 2011, 1		5
143	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> , 2020 , 2020, 1	5-4	5
142	Measurements of production cross sections and constraints on anomalous triple gauge couplings at. <i>European Physical Journal C</i> , 2021 , 81, 200	4-2	5
141	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> , 2021 , 81, 378	4-2	5
140	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> , 2021 , 81, 488	4-2	5
139	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> , 2021 , 2021, 1	5-4	5
138	Search for resonances decaying to a pair of Higgs bosons in the $b(\overline{\text{b}})q(\overline{\text{q}})$ final state in proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5-4	5
137	Search for top squark pair production using dilepton final states in collision data collected at. <i>European Physical Journal C</i> , 2021 , 81, 3	4-2	5
136	Measurement of the groomed jet mass in PbPb and pp collisions at ($\sqrt{s_{\text{NN}}}=5.02$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5-4	5
135	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> , 2018 , 2018, 1	5-4	5
134	Measurement of the cross section in pp collisions at and validation of lepton analysis techniques. <i>European Physical Journal C</i> , 2018 , 78, 708	4-2	5

133	Any room left for technicolor? Dilepton searches at the LHC and beyond. <i>Physical Review D</i> , 2019 , 99,	4.9	4
132	Search for a low-mass χ resonance in association with a bottom quark in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	4
131	Search for the pair production of light top squarks in the $e\bar{e}$ final state in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	4
130	Search for nonresonant Higgs boson pair production in the $(\overline{b}b)$ final state at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	4
129	Study of the underlying event in top quark pair production in collisions at 13. <i>European Physical Journal C</i> , 2019 , 79, 123	4.2	4
128	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 20	4.2	4
127	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> , 2015 , 75, 302	4.2	4
126	Evidence for $(W)W$ production from double-parton interactions in proton-proton collisions at $(\sqrt{s} = 13, \text{TeV})$. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	4
125	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at. <i>European Physical Journal C</i> , 2018 , 78, 242	4.2	4
124	Pseudorapidity distributions of charged hadrons in proton-lead collisions at $(\sqrt{s_{NN}}=5.02)$ and 8.16 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	4
123	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> , 2018 , 2018, 1	5.4	4
122	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> , 2019 , 2019, 1	5.4	4
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120	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> , 2017 , 2017, 1	5.4	4
119	Search for high-mass Z' resonances in $e+e$ and $\mu+\mu$ final states in proton-proton collisions at $(\sqrt{s}=8)$ and 13 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	4
118	Search for CP violation in $(\overline{t}t)$ production and decay in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	4
117	Signal and backgrounds for leptoquarks at the CERN LHC. II. Vector leptoquarks. <i>Physical Review D</i> , 1999 , 59,	4.9	4
116	Measurement of differential cross sections and charge ratios for s -channel single top quark production in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 370	4.2	4

115	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> , 2020 , 2020, 1	5-4	4
114	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> , 2021 , 2021, 1	5-4	4
113	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> , 2021 , 2021, 1	5-4	4
112	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> , 2016 , 2016, 1	5-4	4
111	Problems with Higgspllosion. <i>Physical Review D</i> , 2018 , 98,	4-9	4
110	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> , 2018 , 78, 1	4-2	4
109	MUSiC: a model-unspecific search for new physics in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 629	4-2	4
108	Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at (\sqrt{s}) = 13 TeV via Higgs boson decays to leptons. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5-4	3
107	Walking technicolor in light of Z' searches at the LHC. <i>Physical Review D</i> , 2019 , 99,	4-9	3
106	Search for direct pair production of supersymmetric partners to the lepton in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 189	4-2	3
105	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> , 2020 , 2020, 1	5-4	3
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103	Search for ZZ resonances in the 2ℓ final state in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5-4	3
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84	Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\ell$ final states in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	3
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64	Bose-Einstein correlations of charged hadrons in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	2
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57	Search for supersymmetry in events with a photon, jets, $\bar{t}t$, and missing transverse momentum in proton-proton collisions at 13. <i>European Physical Journal C</i> , 2019 , 79, 444	4.2	1
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29	Study of Drell-Yan dimuon production in proton-lead collisions at $(\sqrt{s_{\text{mathrm{NN}}}}) = 8.16$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	0
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16	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	○
15	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	○
14	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	○
13	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	○
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2	Measurement of prompt open-charm production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5-4
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