Geoffrey Hall

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507	10,198	45	79
papers	citations	h-index	g-index
541 ext. papers	12,321 ext. citations	4.3 avg, IF	5.38 L-index

#	Paper	IF	Citations
507	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
506	Radiation hard silicon detectorsdevelopments by the RD48 (ROSE) collaboration. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001 , 466, 308-326	1.2	299
505	Description and performance of track and primary-vertex reconstruction with the CMS tracker. Journal of Instrumentation, 2014 , 9, P10009-P10009	1	279
504	Observation of a new boson with mass near 125 GeV in pp collisions at (sqrt{s}=7) and 8 TeV. Journal of High Energy Physics, 2013 , 2013, 1	5.4	261
503	Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , 2016 , 76, 155	4.2	250
502	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
501	Design and results from the APV25, a deep sub-micron CMOS front-end chip for the CMS tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 466, 359-365	1.2	227
500	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> , 2010 , 2010, 1	5.4	201
499	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
498	Search for top-squark pair production in the single-lepton final state in pp collisions at (sqrt{s}=8 mathrm{TeV}). European Physical Journal C, 2013 , 73, 1	4.2	162
497	Combined measurements of Higgs boson couplings in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 421	4.2	153
496	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
495	Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at 🗉 8 TeV. <i>Journal of Instrumentation</i> , 2015 , 10, P08010-P08010	1	141
494	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
493	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
492	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
491	Measurement of the differential cross section for top quark pair production in pp collisions at [Formula: see text]. European Physical Journal C, 2015 , 75, 542	4.2	98

(2012-2013)

490	Searches for long-lived charged particles in pp collisions at (sqrt $\{s\}$) = 7 and 8 TeV. Journal of High Energy Physics, 2013 , 2013, 1	5.4	96	
489	Bulk damage effects in irradiated silicon detectors due to clustered divacancies. <i>Journal of Applied Physics</i> , 1997 , 82, 126-136	2.5	92	
488	Performance of the CMS missing transverse momentum reconstruction in pp data at $\square = 8$ TeV. Journal of Instrumentation, 2015 , 10, P02006-P02006	1	84	
487	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	
486	Reconstruction and identification of Ilepton decays to hadrons and Ilt CMS. <i>Journal of Instrumentation</i> , 2016 , 11, P01019-P01019	1	75	
485	Searches for invisible decays of the Higgs boson in pp collisions at (sqrt{s}) = 7, 8, and 13 TeV. Journal of High Energy Physics, 2017 , 2017, 1	5.4	74	
484	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	
483	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	
482	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	
481	The deconvolution method of fast pulse shaping at hadron colliders. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1992 , 320, 217-227	1.2	70	
480	Observation of channeling for 6500 GeV/c protons in the crystal assisted collimation setup for LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 758, 129-133	4.2	70	
479	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	
478	Charged-particle nuclear modification factors in PbPb and pPb collisions at (sqrt{s_{mathrm{N}}}=5.02) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	64	
477	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	
476	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	
475	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	
474	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	
473	Search for anomalous (toverline t) production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	57	

472	Study of exclusive two-photon production of W+Wlin 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
471	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
470	Comparative results on collimation of the SPS beam of protons and Pb ions with bent crystals. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 703, 547-551	4.2	52
469	Radiation damage by neutrons and protons to silicon detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1992 , 322, 177-188	1.2	52
468	Defect evolution in irradiated silicon detector material. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996 , 374, 12-26	1.2	51
467	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
466	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
465	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
464	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
463	Exclusive $\square > \square$ Improduction in proton-proton collisions at (sqrt {s} = {7}) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	45
462	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
461	Search for exclusive or semi-exclusive [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> , 2012 , 2012, 1	5.4	45
460	Search for additional neutral MSSM Higgs bosons in the Ifinal state in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	42
459	Strong reduction of the off-momentum halo in crystal assisted collimation of the SPS beam. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 714, 231-236	4.2	41
458	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	41
457	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	40
456	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> , 2013 , 2013, 1	5.4	39
455	A novel technique for fast pulse-shaping using a slow amplifier at LHC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1993 , 326, 112-119	1.2	39

454	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	
453	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at [Formula: see text][Formula: see text]. European Physical Journal C, 2015, 75, 288	4.2	37	
452	Measurement of pseudorapidity distributions of charged particles in proton β roton collisions at (sqrt{s} = 8) TeV by the CMS and TOTEM experiments. <i>European Physical Journal C</i> , 2014 , 74, 1	4.2	37	
451	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> , 2018 , 2018, 1	5.4	37	
450	Measurement of prompt and nonprompt charmonium suppression in collisions at 5.02. <i>European Physical Journal C</i> , 2018 , 78, 509	4.2	37	
449	First measurement of the underlying event activity at the LHC with ($sqrt{s} = 0.9$) TeV. European Physical Journal C, 2010 , 70, 555-572	4.2	36	
448	Measurement of the double-differential inclusive jet cross section in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 451	4.2	36	
447	Search for disappearing tracks in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	35	
446	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	
445	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	
444	Design and performance of a high rate, high angular resolution beam telescope used for crystal channeling studies. <i>Journal of Instrumentation</i> , 2011 , 6, P04006-P04006	1	35	
443	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> , 2017 , 2017, 1	5.4	34	
442	Search for new physics in same-sign dilepton events in proton-proton collisions at [Formula: see text]. European Physical Journal C, 2016 , 76, 439	4.2	34	
441	Search for decays of stopped long-lived particles produced in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 151	4.2	33	
440	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> , 2015 , 2015, 1	5.4	33	
439	Search for a light charged Higgs boson decaying to (mathrm{c}overline{mathrm{s}}) in pp collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1-37	5.4	33	
438	Radiation tolerance of single-sided silicon microstrips. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1994 , 339, 511-523	1.2	33	
437	. IEEE Transactions on Nuclear Science, 1989 , 36, 267-271	1.7	33	

436	Identification techniques for highly boosted W bosons that decay into hadrons. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	32
435	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> , 2011 , 2011, 1	5.4	32
434	Measurement of the Drell-Yan cross section in pp collisions at (sqrt $\{s\} = 7$) TeV. Journal of High Energy Physics, 2011 , 2011, 1	5.4	32
433	Measurement of the (mathrm{t}overline{mathrm{t}}) production cross section in the elthannel in proton-proton collisions at (sqrt{s}=7) and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	30
432	Measurements of the production cross section and the branching fraction, and constraints on anomalous triple gauge couplings at. <i>European Physical Journal C</i> , 2018 , 78, 165	4.2	29
431	Observation of Y(1S) pair production in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	29
430	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> , 2018 , 2018, 1	5.4	29
429	Search for heavy Majorana neutrinos in $e \exists e \exists + \text{ jets}$ and $e \exists \exists + \text{ jets}$ events in proton-proton collisions at ($\text{sqrt}\{s\}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	28
428	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> , 2018 , 2018, 1	5.4	28
427	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
426	Evidence for exclusive (I)> 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> , 2016 , 2016, 1	5.4	27
425	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at (sqrt{s}=7;TeV). Journal of High Energy Physics, 2012, 2012, 1	5.4	27
424	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> , 2017 , 2017, 1	5.4	26
423	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> , 2015 , 2015, 1	5.4	26
422	Observation of focusing of 400 GeV/c proton beam with the help of bent crystals. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 733, 366-372	4.2	26
421	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> , 2011 , 2011, 1	5.4	26
420	Ionisation energy losses of highly relativistic charged particles in thin silicon layers. <i>Nuclear Instruments & Methods in Physics Research</i> , 1984 , 220, 356-362		26
419	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> , 2017 , 2017, 1	5.4	25

(2015-2015)

418	[Formula: see text] channel in proton-proton collisions at [Formula: see text] and [Formula: see text] and combined constraints on triple gauge couplings. <i>European Physical Journal C</i> , 2015 , 75, 511	4.2	25	
417	Search for resonant (mathrm{t}overline{mathrm{t}}) production in lepton+jets events in pp collisions at (sqrt{s}=7) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	25	
416	Search for charged Higgs bosons in the H \oplus -> \oplus Delecay channel in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	24	
4 ¹ 5	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 325	4.2	24	
414	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> , 2020 , 80, 75	4.2	24	
413	Measurement of inclusive jet production and nuclear modifications in pPb collisions at [Formula: see text]. European Physical Journal C, 2016 , 76, 372	4.2	24	
412	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> , 2018 , 2018, 1	5.4	24	
411	Performance of the CMS Level-1 trigger in proton-proton collisions at 🛚 = 13 TeV. <i>Journal of Instrumentation</i> , 2020 , 15, P10017-P10017	1	23	
410	Search for third-generation scalar leptoquarks decaying to a top quark and a lepton at. <i>European Physical Journal C</i> , 2018 , 78, 707	4.2	23	
409	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> , 2018 , 2018, 1	5.4	23	
408	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> , 2017 , 77, 172	4.2	22	
407	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> , 2018 , 2018, 1	5.4	22	
406	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	
405	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	
404	The MP7 and CTP-6: multi-hundred Gbps processing boards for calorimeter trigger upgrades at CMS. <i>Journal of Instrumentation</i> , 2012 , 7, C12024-C12024	1	22	
403	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]. European Physical Journal C, 2017, 77, 236	4.2	21	
402	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> , 2017 , 77, 294	4.2	21	
401	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at [Formula: see text]. European Physical Journal C, 2015, 75, 66	4.2	21	

400	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
399	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
398	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
397	Defect-engineering rad-hard particle detectors: the role of impurities and inter-defect charge exchange. <i>Physica B: Condensed Matter</i> , 1999 , 273-274, 1045-1049	2.8	21
396	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
395	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
394	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> , 2020 , 2020, 1	5.4	20
393	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
392	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
391	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
390	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
389	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
388	An FPGA based track finder for the L1 trigger of the CMS experiment at the High Luminosity LHC. Journal of Instrumentation, 2017 , 12, P12019-P12019	1	20
387	The FC7 AMC for generic DAQ & control applications in CMS. <i>Journal of Instrumentation</i> , 2015 , 10, C03	03 <u>6</u> -C0:	3036
386	New results on silicon microstrip detectors of CMS tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000 , 447, 142-150	1.2	20
385	Semiconductor particle tracking detectors. <i>Reports on Progress in Physics</i> , 1994 , 57, 481-531	14.4	20
384	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
383	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

382	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	
381	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	
380	Search for resonant and nonresonant Higgs boson pair production in the (mathrm{b}overline{mathrm{b}}mathit{ell nu ell nu }) final state 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 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	
378	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	
377	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	
376	Search for third-generation scalar leptoquarks in the tlthannel in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	19	
375	Measurement of energy flow at large pseudorapidities in pp collisions at (sqrt $\{s\} = 0.\{9\}$) and 7 TeV. Journal of High Energy Physics, 2011 , 2011, 1	5.4	19	
374	Silicon pixel detectors for X-ray diffraction studies at synchrotron sources. <i>Quarterly Reviews of Biophysics</i> , 1995 , 28, 1-32	7	19	
373	Neutron radiation damage studies of silicon detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1991 , 310, 283-28	36 ^{1.2}	19	
372	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	
371	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	
370	Search for lepton flavour violating decays of the Higgs boson to Land ellin proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	19	
369	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	
368	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> , 2015 , 2015, 1	5.4	18	
367	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> , 2016 , 2016, 1	5.4	18	
366	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two leptons and two jets in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	18	
365	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> , 2017 , 2017, 1	5.4	18	

364	Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying Ileptons and two jets in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	18
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359	Radiation damage studies of field plate and p-stop n-side silicon microstrip detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995 , 362, 297-314	1.2	18
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357	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> , 2018 , 2018, 1	5.4	18
356	Search for (mathrm{t}overline{mathrm{t}}mathrm{H}) production in the (mathrm{H}to mathrm{b}overline{mathrm{b}}) decay channel with leptonic (mathrm{t}overline{mathrm{t}}) decays in proton-proton collisions at (sqrt{s}=13) TeV. Journal of High Energy Physics, 2019, 2019, 1	5.4	17
355	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> , 2018 , 78, 291	4.2	17
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340	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> , 2017 , 2017, 1	5.4	16	
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338	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	
337	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> , 2018 , 2018, 1	5.4	16	
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319	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> , 2018 , 2018, 1	5.4	14
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316	Search for supersymmetry in events with a [lepton pair and missing transverse momentum in proton-proton collisions at (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
315	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> , 2018 , 2018, 1	5.4	14
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298	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> , 2013 , 2013, 1	5.4	12	
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286	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> , 2017 , 2017, 1	5.4	11
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272	Search for excited leptons in proton-proton collisions at (sqrt{s}=8) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	10
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263	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> , 2016 , 2016, 1	5.4	10
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255	Search for associated production of dark matter with a Higgs boson decaying to (mathrm{b}overline{mathrm{b}}) or Lat (sqrt{s}=13) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	9
254	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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252	. IEEE Transactions on Nuclear Science, 1994 , 41, 767-771	1.7	9
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239	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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224	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
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212	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
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(2021-2015)

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(2016-2020)

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(2020-2019)

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117	Digital beta autoradiography using silicon microstrip detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1991 , 310, 455-459	1.2	3
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(2020-2016)

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80	The production of isolated photons in PbPb and pp collisions at (sqrt{s_{mathrm{NN}}}) = 5.02 TeV. Journal of High Energy Physics, 2020 , 2020, 1	5.4	2
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68	Search for the chiral magnetic effect at the LHC with the CMS experiment. <i>Nuclear Physics A</i> , 2019 , 982, 527-530	1.3	1
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41	Measurement of double-parton scattering in inclusive production of four jets with low transverse momentum in proton-proton collisions at \$\$ sqrt{s} \$\$ = 13 TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	O

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35	Measurement of b jet shapes in proton-proton collisions at (sqrt{s}) = 5.02 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	O
34	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> , 2021 , 2021, 1	5.4	0
33	In-medium modification of dijets in PbPb collisions at (sqrt{s_{mathrm{NN}}}) = 5.02 TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	O
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31	Measurement of the top quark pair production cross section in dilepton final states containing one \square epton in pp collisions at (sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	O
30	Search for a heavy vector resonance decaying to a lboson and a Higgs boson in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 688	4.2	0
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