

Antonio Perez-Calero Yzquierdo

List of Publications by Year in Descending Order

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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.

456
papers

11,971
citations

52
h-index

89
g-index

473
ext. papers

14,152
ext. citations

4.9
avg, IF

5.47
L-index

#	Paper	IF	Citations
456	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	0
455	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	1
454	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at .. <i>European Physical Journal C</i> , 2022 , 82, 153	4.2	0
453	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	
452	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at .. <i>European Physical Journal C</i> , 2022 , 82, 290	4.2	0
451	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	0
450	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	0
449	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	0
448	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	0
447	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	0
446	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	0
445	Measurement of the inclusive $\overline{\text{t}}\text{t}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	
444	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 970	4.2	3
443	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
442	Development and validation of HERWIG γ tunes from CMS underlying-event measurements. <i>European Physical Journal C</i> , 2021 , 81, 312	4.2	1
441	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
440	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

439	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	3
438	Search for the lepton flavor violating decay $\tau \rightarrow \mu \gamma$ in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	1
437	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
436	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
435	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
434	Search for a heavy vector resonance decaying to a W boson and a Higgs boson in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 688	4.2	0
433	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 723	4.2	3
432	Measurements of angular distance and momentum ratio distributions in three-jet and + two-jet final states in collisions. <i>European Physical Journal C</i> , 2021 , 81, 852	4.2	0
431	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
430	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , 2020 , 15, P10017-P10017	1	23
429	Evidence for Top Quark Production in Nucleus-Nucleus Collisions. <i>Physical Review Letters</i> , 2020 , 125, 222001	7.4	1
428	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	12
427	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
426	Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	1
425	Search for new neutral Higgs bosons through the $(\text{H}) \rightarrow \text{ZA} \rightarrow \{\ell\}^+ \{\ell\}^- \overline{\text{b}} \text{b}$ process in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	10
424	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
423	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
422	Determination of the strong coupling constant $\alpha_S(m_Z)$ from measurements of inclusive W and Z boson production cross sections in proton-proton collisions at $(\sqrt{s}) = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	2

421	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
420	Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	1
419	Evidence for $(\text{W})\text{W}$ production from double-parton interactions in proton-proton collisions at $(\sqrt{s} = 13, \text{TeV})$. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	4
418	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
417	Searches for physics beyond the standard model with the variable in hadronic final states with and without disappearing tracks in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 3	4.2	16
416	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
415	Constraints on the ρ_{c1} versus ρ_{c2} Polarizations in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , 2020 , 124, 162002	7.4	6
414	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\bar{\nu}\nu$ 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
413	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
412	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2020 , 124, 131802	7.4	12
411	Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	11
410	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $(\sqrt{\text{mathrm}\{s}\}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	7
409	A multi-dimensional search for new heavy resonances decaying to boosted $\tau\tau$, $\tau\tau$, or boson pairs in the dijet final state at 13 TeV. <i>European Physical Journal C</i> , 2020 , 80, 237	4.2	10
408	Measurement of differential cross sections and charge ratios for τ -channel single top quark production in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 370	4.2	4
407	Measurement of $(\bar{t}t)$ normalised multi-differential cross sections in (pp) collisions at $(\sqrt{s}=13, \text{TeV})$, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	13
406	Exploiting CRIC to streamline the configuration management of GlideinWMS factories for CMS support. <i>EPJ Web of Conferences</i> , 2020 , 245, 03023	0.3	
405	Lightweight site federation for CMS support. <i>EPJ Web of Conferences</i> , 2020 , 245, 03013	0.3	
404	CMS data access and usage studies at PIC Tier-1 and CIEMAT Tier-2. <i>EPJ Web of Conferences</i> , 2020 , 245, 04028	0.3	

403	Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	16
402	Evolution of the CMS Global Submission Infrastructure for the HL-LHC Era. <i>EPJ Web of Conferences</i> , 2020 , 245, 03016	0.3	1
401	Exploiting network restricted compute resources with HTCondor: a CMS experiment experience. <i>EPJ Web of Conferences</i> , 2020 , 245, 09007	0.3	1
400	CMS strategy for HPC resource exploitation. <i>EPJ Web of Conferences</i> , 2020 , 245, 09012	0.3	3
399	Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2020 , 125, 151802	7.4	2
398	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
397	Experimental study of different silicon sensor options for the upgrade of the CMS Outer Tracker. <i>Journal of Instrumentation</i> , 2020 , 15, P04017-P04017	1	2
396	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
395	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
394	Measurement of properties of ($\mathbf{B}_{\mathbf{s}}^0$)- $\mu^+\mu^-$ decays and search for \mathbf{B}_0 - $\mu^+\mu^-$ with the CMS experiment. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	10
393	Search for a light pseudoscalar Higgs boson in the boosted μ final state in proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	9
392	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at \sqrt{s} = 13 TeV. <i>Journal of Instrumentation</i> , 2020 , 15, P02027-P02027	1	11
391	Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	18
390	Calibration of the CMS hadron calorimeters using proton-proton collision data at \sqrt{s} = 13 TeV. <i>Journal of Instrumentation</i> , 2020 , 15, P05002-P05002	1	
389	Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2020 , 124, 202001	7.4	2
388	Observation of the $\mathbf{B}_{\mathbf{s}}^0 \rightarrow \mu^+\mu^-$ Decay. <i>Physical Review Letters</i> , 2020 , 125, 152001	7.4	4
387	Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 752	4.2	2
386	Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. <i>Physical Review Letters</i> , 2020 , 125, 102001	7.4	3

385	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
384	Measurement of the top quark pair production cross section in dilepton final states containing one lepton in pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	0
383	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in collisions at. <i>European Physical Journal C</i> , 2019 , 79, 773	4.2	0
382	Search for a Light Charged Higgs Boson Decaying to a W Boson and a CP-Odd Higgs Boson in Final States with $e\bar{\nu}_\tau$ in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2019 , 123, 131802	7.4	6
381	Search for charged Higgs bosons in the $H \rightarrow \tau\tau$ decay channel in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	24
380	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 305	4.2	2
379	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
378	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
377	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
376	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
375	Search for the pair production of light top squarks in the $e\bar{\nu}_\tau$ final state in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	4
374	Measurement of associated production of a boson and a charm quark in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 269	4.2	9
373	Combined measurements of Higgs boson couplings in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 421	4.2	153
372	Search for supersymmetry in events with a photon, jets, \bar{b} -jets, and missing transverse momentum in proton-proton collisions at 13. <i>European Physical Journal C</i> , 2019 , 79, 444	4.2	1
371	Measurements of the pp $\rightarrow WZ$ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	10
370	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
369	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
368	Search for nonresonant Higgs boson pair production in the $(\overline{b}b\overline{b}b)$ final state at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	4

367	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 280	4.2	12
366	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
365	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
364	Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and pp Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , 2019 , 122, 152001	7.4	8
363	Search for W Boson Decays to Three Charged Pions. <i>Physical Review Letters</i> , 2019 , 122, 151802	7.4	1
362	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
361	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
360	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
359	Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	9
358	Measurements of ($\overline{\text{t}}$) differential cross sections in proton-proton collisions at ($\sqrt{s}=13$) TeV using events containing two leptons. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	15
357	Search for ($\overline{\text{t}}\text{H}$) production in the (H to $\overline{\text{b}}\text{b}$) decay channel with leptonic ($\overline{\text{t}}$) decays in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	17
356	Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at ($\sqrt{s} = 13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2
355	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
354	Search for resonant ($\overline{\text{t}}$) production in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	13
353	Observation of Single Top Quark Production in Association with a Z Boson in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2019 , 122, 132003	7.4	6
352	Observation of Two Excited B_{c}^{+} States and Measurement of the $B_{c}^{+}(2S)$ Mass in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2019 , 122, 132001	7.4	31
351	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
350	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

349	Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	14
348	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
347	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
346	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
345	Search for top quark partners with charge $5/3$ in the same-sign dilepton and single-lepton final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	9
344	Inclusive search for supersymmetry in pp collisions at ($\sqrt{s}=13$) TeV using razor variables and boosted object identification in zero and one lepton final states. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2
343	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	8
342	Search for excited leptons in final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2
341	Search for new particles decaying to a jet and an emerging jet. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	15
340	Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at ($\sqrt{s} = 13$, text {TeV}). <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	6
339	Measurement of exclusive ϕ photoproduction in ultraperipheral pPb collisions at. <i>European Physical Journal C</i> , 2019 , 79, 702	4.2	13
338	Measurement of exclusive photoproduction from protons in Pb collisions at. <i>European Physical Journal C</i> , 2019 , 79, 277	4.2	19
337	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
336	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
335	Measurement of the top quark mass in the all-jets final state at and combination with the lepton+jets channel. <i>European Physical Journal C</i> , 2019 , 79, 313	4.2	13
334	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
333	Measurements of differential Z boson production cross sections in proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	11
332	Study of the ($\mathbf{B}^+ \rightarrow \mathbf{J}/\psi \overline{\Lambda} \mathbf{p}$) decay in proton-proton collisions at (\sqrt{s}) = 8 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	1

331	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
330	Improving efficiency of analysis jobs in CMS. <i>EPJ Web of Conferences</i> , 2019 , 214, 03006	0.3	2
329	Exploring GlideinWMS and HTCondor scalability frontiers for an expanding CMS Global Pool. <i>EPJ Web of Conferences</i> , 2019 , 214, 03002	0.3	1
328	Improving the Scheduling Efficiency of a Global Multi-Core HTCondor Pool in CMS. <i>EPJ Web of Conferences</i> , 2019 , 214, 03056	0.3	
327	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in collisions at. <i>European Physical Journal C</i> , 2019 , 79, 969	4.2	1
326	Producing Madgraph5_aMC@NLO gridpacks and using TensorFlow GPU resources in the CMS HTCondor Global Pool. <i>EPJ Web of Conferences</i> , 2019 , 214, 03004	0.3	
325	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
324	Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2
323	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
322	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
321	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
320	Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2019 , 123, 231803	7.4	7
319	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
318	Measurement of the Splitting Function in pp and Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , 2018 , 120, 142302	7.4	27
317	Pseudorapidity distributions of charged hadrons in proton-lead collisions at $(\sqrt{s_{\text{NN}}}=5.02)$ and 8.16 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	4
316	Suppression of Excited ρ States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV. <i>Physical Review Letters</i> , 2018 , 120, 142301	7.4	12
315	Search for resonant and nonresonant Higgs boson pair production in the $(\text{b}\overline{\text{b}}\text{ell}\nu\text{ell}\nu)$ final state in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	19
314	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$. <i>European Physical Journal C</i> , 2018 , 78, 291	4.2	17

313	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
312	Measurement of associated Z + charm production in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 287	4.2	11
311	Measurement of the inclusive ($\overline{\text{t}}$) cross section in pp collisions at ($\sqrt{s}=5.02$) TeV using final states with at least one charged lepton. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	3
310	Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	
309	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
308	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
307	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
306	Measurement of differential cross sections in the kinematic angular variable ϕ^* for inclusive Z boson production in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	2
305	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at ($\sqrt{s_{\text{NN}}}=5.02$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	8
304	Measurement of normalized differential ($\overline{\text{t}}$) cross sections in the dilepton channel from pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	12
303	Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	13
302	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
301	Jet properties 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	7
300	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
299	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
298	Measurement of b hadron lifetimes in pp collisions at. <i>European Physical Journal C</i> , 2018 , 78, 457	4.2	9
297	Observation of $t\overline{t}H$ Production. <i>Physical Review Letters</i> , 2018 , 120, 231801	7.4	96
296	Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at 13 TeV. <i>Physical Review Letters</i> , 2018 , 120, 241801	7.4	9

295	Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2018 , 120, 221801	7.4	62
294	Search for the $X(5568)$ State Decaying into $B_{s}^{0}\bar{\mu}\mu$ in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , 2018 , 120, 202005	7.4	36
293	Measurements of the $(\text{p})\text{p}\rightarrow\text{Z}\text{p}$ production cross section and the $(\text{Z})\rightarrow 4\text{ell}$ branching fraction, and constraints on anomalous triple gauge couplings at $(\sqrt{s} = 13, \text{TeV})$ 2018 , 78, 1		3
292	Search for $(\overline{\text{t}}\text{t})\text{H}$ production in the all-jet final state in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	13
291	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
290	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
289	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
288	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
287	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
286	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
285	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two τ leptons in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
284	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
283	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
282	Charged-particle nuclear modification factors in XeXe collisions at $(\sqrt{s_{\text{NN}}}=5.44)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	11
281	Measurement of the top quark mass with lepton+jets final states using collisions at. <i>European Physical Journal C</i> , 2018 , 78, 891	4.2	13
280	Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	14
279	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
278	Event shape variables measured using multijet final states in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	3

277	Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2018 , 121, 241802	7.4	20
276	Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	12
275	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
274	Search for $Z\bar{\nu}\nu$ resonances using leptonic and hadronic final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	11
273	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
272	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
271	Search for supersymmetry in events with a dilepton 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
270	Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV Using Isolated Photon-Tagged Jets. <i>Physical Review Letters</i> , 2018 , 121, 242301	7.4	15
269	Search for the decay of a Higgs boson in the $\tau\tau$ channel in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	11
268	Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2018 , 121, 221802	7.4	6
267	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
266	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
265	Studies of η and mesons including the observation of the decay in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 939	4.2	12
264	Observation of the $Z\bar{\nu}\nu$ Decay in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2018 , 121, 141801	7.4	1
263	Search for a heavy resonance decaying into a Z boson and a Z or W boson in $Z\bar{q}q$ final states at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
262	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
261	Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\bar{\nu}$ final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	3
260	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

259	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
258	Search for high-mass resonances in final states with a lepton and missing transverse momentum at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	15
257	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
256	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
255	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
254	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
253	Search for dark matter produced in association with a Higgs boson decaying to $\bar{b}b$ ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
252	Search for additional neutral MSSM Higgs bosons in the $\tau\tau$ final state in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	42
251	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
250	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
249	Search for a heavy resonance decaying into a Z boson and a vector boson in the ($\nu\bar{\nu}q\bar{q}$) final state. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	6
248	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
247	Search for beyond the standard model Higgs bosons decaying into a ($\bar{b}b$) pair in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	11
246	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in collisions at 8. <i>European Physical Journal C</i> , 2018 , 78, 701	4.2	25
245	Measurement of prompt and nonprompt charmonium suppression in collisions at 5.02. <i>European Physical Journal C</i> , 2018 , 78, 509	4.2	37
244	Search for lepton flavour violating decays of the Higgs boson to $\bar{\nu}\nu$ and $e\bar{\nu}$ in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	19
243	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying τ leptons at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	23
242	Observation of Higgs Boson Decay to Bottom Quarks. <i>Physical Review Letters</i> , 2018 , 121, 121801	7.4	79

241	Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2018 , 78, 1	4.2	12
240	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
239	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
238	Search for single production of vector-like quarks decaying to a b quark and a Higgs boson. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	12
237	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
236	Search for a singly produced third-generation scalar leptoquark decaying to a 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
235	Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	10
234	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
233	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
232	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
231	Search for Narrow Resonances in the b-Tagged Dijet Mass Spectrum in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2018 , 120, 201801	7.4	13
230	Measurement of Prompt D^0 Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s_{NN}} = 5.02$ TeV. <i>Physical Review Letters</i> , 2018 , 120, 202301	7.4	39
229	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
228	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
227	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
226	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
225	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
224	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

223	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
222	Measurement of prompt and nonprompt [Formula: see text] production in [Formula: see text] and [Formula: see text] collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 269	4.2	26
221	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
220	Observation of Charge-Dependent Azimuthal Correlations in p-Pb Collisions and Its Implication for the Search for the Chiral Magnetic Effect. <i>Physical Review Letters</i> , 2017 , 118, 122301	7.4	72
219	Measurement of the $B^{\{\boxplus\}}$ Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{\{\mathrm{NN}\}}}=5.02$ TeV. <i>Physical Review Letters</i> , 2017 , 119, 152301	7.4	37
218	Search for new physics in the monophoton final state in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	11
217	Measurement of double-differential cross sections for top quark pair production in pp collisions at [Formula: see text][Formula: see text] and impact on parton distribution functions. <i>European Physical Journal C</i> , 2017 , 77, 459	4.2	16
216	Measurement of the jet mass in highly boosted [Formula: see text] events from pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 467	4.2	14
215	Measurements of the associated production of a Z boson and b jets in pp collisions at. <i>European Physical Journal C</i> , 2017 , 77, 751	4.2	15
214	Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at ($\sqrt{s}=8$) TeV using H \rightarrow γ WW decays. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	10
213	Stability and scalability of the CMS Global Pool: Pushing HTCondor and glideinWMS to new limits. <i>Journal of Physics: Conference Series</i> , 2017 , 898, 052031	0.3	5
212	CMS Connect. <i>Journal of Physics: Conference Series</i> , 2017 , 898, 082032	0.3	1
211	Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2017 , 119, 111802	7.4	21
210	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
209	Search for ($\overline{\mathrm{t}}\mathrm{t}$) resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	17
208	Search for associated production of dark matter with a Higgs boson decaying to ($\overline{\mathrm{b}}\mathrm{b}$) or $\bar{\chi}\chi$ ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	9
207	Observation of Top Quark Production in Proton-Nucleus Collisions. <i>Physical Review Letters</i> , 2017 , 119, 242001	7.4	11
206	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

205	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
204	Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	8
203	Measurement of the semileptonic ($\overline{t}t$) + $\bar{t}t$ production cross section in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
202	Measurements of the $pp \rightarrow \gamma W$ and $pp \rightarrow \gamma Z$ cross sections and limits on anomalous quartic gauge couplings at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	2
201	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
200	Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	11
199	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
198	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
197	Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	15
196	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
195	Searches for pair production of third-generation squarks in [Formula: see text][Formula: see text] pp collisions. <i>European Physical Journal C</i> , 2017 , 77, 327	4.2	17
194	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
193	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
192	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
191	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
190	Measurement of electroweak-induced production of $W\gamma$ with two jets in pp collisions at ($\sqrt{s}=8$) TeV and constraints on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	9
189	Searches for $W\gamma$ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
188	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

187	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
186	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
185	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
184	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
183	Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	12
182	Measurement of the ($\overline{\text{t}}\text{t}$) production cross section using events with one lepton and at least one jet in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	14
181	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
180	Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at. <i>European Physical Journal C</i> , 2017 , 77, 578	4.2	21
179	Search for top quark partners with charge 5/3 in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	3
178	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
177	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
176	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
175	Search for new physics with dijet angular distributions in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	11
174	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
173	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
172	Search for new phenomena with multiple charged leptons in proton-proton collisions at ($\sqrt{s}=13$) (,text {TeV}). <i>European Physical Journal C</i> , 2017 , 77, 1	4.2	2
171	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
170	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

169	Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying τ 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	18
168	Search for CP violation in (τ) 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
167	Measurement of the triple-differential dijet cross section in proton-proton collisions at and constraints on parton distribution functions. <i>European Physical Journal C</i> , 2017 , 77, 746	4.2	8
166	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
165	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
164	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
163	CMS readiness for multi-core workload scheduling. <i>Journal of Physics: Conference Series</i> , 2017 , 898, 052039	0.3	2
162	Connecting Restricted, High-Availability, or Low-Latency Resources to a Seamless Global Pool for CMS. <i>Journal of Physics: Conference Series</i> , 2017 , 898, 052037	0.3	1
161	Effective HTCondor-based monitoring system for CMS. <i>Journal of Physics: Conference Series</i> , 2017 , 898, 092039	0.3	
160	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
159	Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 325	4.2	13
158	Search for new physics in same-sign dilepton events in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 439	4.2	34
157	Measurement of Long-Range Near-Side Two-Particle Angular Correlations in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2016 , 116, 172302	7.4	90
156	Measurement of dijet azimuthal decorrelation in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 536	4.2	6
155	Search for dark matter particles in proton-proton collisions at ($\sqrt{s}=8$) TeV using the razor variables. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	2
154	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
153	Measurement of inclusive jet production and nuclear modifications in pPb collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 372	4.2	24
152	Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	15

151	Measurement of the $\overline{\text{t}}\text{t}$ production cross section in the $e\bar{\nu}_e$ channel in proton-proton collisions at $(\sqrt{s}=7)$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	30
150	Search for new physics with the M T2 variable in all-jets final states produced in pp collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	16
149	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
148	Evidence for exclusive $\bar{t}t + W$ 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
147	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
146	Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 460	4-2	14
145	Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	9
144	Phenomenological MSSM interpretation of CMS searches in pp collisions at $(\sqrt{s}=7)$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	11
143	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
142	Measurement of the inclusive jet cross section in pp collisions at $(\sqrt{s} = 2.76, \text{text {TeV}})$. <i>European Physical Journal C</i> , 2016 , 76, 1	4-2	17
141	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
140	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
139	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
138	Search for $W^? - \bar{t}b$ in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	2
137	Correlations between jets and charged particles in PbPb and pp collisions at $(\sqrt{s_{\text{NN}}}=2.76)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	21
136	Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	2
135	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
134	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

133	Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , 2016 , 76, 155	4.2	250
132	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
131	Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	14
130	Measurement of top quark polarisation in t-channel single top quark production. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	7
129	Search for heavy Majorana neutrinos in $e\bar{e}\mu\bar{\mu}$ jets and $e\bar{e}\tau\bar{\tau}$ jets events in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	28
128	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into τ leptons in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	16
127	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
126	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
125	Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at ($\sqrt{s_{\mathrm{NN}}}=2.76$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	13
124	Exploiting multicore compute resources in the CMS experiment. <i>Journal of Physics: Conference Series</i> , 2016 , 762, 012018	0.3	1
123	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
122	Measurement of the [Formula: see text] cross section in pp collisions at [Formula: see text] TeV and limits on anomalous gauge couplings. <i>European Physical Journal C</i> , 2016 , 76, 401	4.2	38
121	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. <i>European Physical Journal C</i> , 2016 , 76, 371	4.2	25
120	Reconstruction and identification of τ lepton decays to hadrons and $\bar{t}t$ CMS. <i>Journal of Instrumentation</i> , 2016 , 11, P01019-P01019	1	75
119	Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	14
118	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
117	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
116	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

115	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
114	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
113	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
112	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
111	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
110	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
109	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
108	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
107	Measurement of the ratio of the production cross sections times branching fractions of $B \rightarrow c \bar{c} \ell \bar{\ell}$ and $B \rightarrow c \bar{c} \ell \ell$ and $(\text{mathcal{B}}\left(\text{mathcal{B}}_{\text{c}}^{\text{pm}}\right)\text{to } \text{mathcal{J}}/\psi\left\{\text{pi}\right\}^{\text{pm}}\left\{\text{pi}\right\}^{\text{pm}}\right)/\text{mathcal{B}}\left(\text{mathcal{B}}_{\text{c}}^{\text{pm}}\right)\text{to } \text{mathcal{J}}/\psi\left\{\text{pi}\right\}^{\text{pm}}\right)$ in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	13
106	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
105	Study of Z production in PbPb and pp collisions at ($\sqrt{s_{\text{NN}}}=2.76$) TeV in the dimuon and dielectron decay channels. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	18
104	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
103	Observation of the rare $B(s)(0) \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data. <i>Nature</i> , 2015 , 522, 68-72	50-4	326
102	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
101	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
100	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 288	4-2	37
99	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
98	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

97	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
96	Scheduling multicore workload on shared multipurpose clusters. <i>Journal of Physics: Conference Series</i> , 2015 , 664, 052038	0.3	
95	Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV. <i>Journal of Instrumentation</i> , 2015 , 10, P08010-P08010	1	141
94	Performance of the CMS missing transverse momentum reconstruction in pp data at $\sqrt{s} = 8$ TeV. <i>Journal of Instrumentation</i> , 2015 , 10, P02006-P02006	1	84
93	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
92	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
91	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
90	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
89	Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	17
88	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
87	Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	11
86	Search for a light charged Higgs boson decaying to $(\overline{\text{c}}\text{s})$ in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1-37	5.4	33
85	Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	16
84	Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	
83	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
82	Multicore job scheduling in the Worldwide LHC Computing Grid. <i>Journal of Physics: Conference Series</i> , 2015 , 664, 062016	0.3	2
81	Getting prepared for the LHC Run2: the PIC Tier-1 case. <i>Journal of Physics: Conference Series</i> , 2015 , 664, 052014	0.3	1
80	Evolution of CMS workload management towards multicore job support. <i>Journal of Physics: Conference Series</i> , 2015 , 664, 062046	0.3	1

79	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 TeV. <i>European Physical Journal C</i> , 2015 , 75, 212	4.2	399
78	Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , 2015 , 114, 191803	7.4	709
77	Measurement of the Z/γ 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
76	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
75	Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , 2015 , 75, 542	4.2	98
74	Measurements of the Z/γ production cross sections in the $b\bar{b}$ channel in proton-proton collisions at $\sqrt{s}=7$ and 8 TeV and combined constraints on triple gauge couplings. <i>European Physical Journal C</i> , 2015 , 75, 511	4.2	25
73	Comparison of the $Z/\gamma + \text{jets}$ to $b\bar{b}$ jets cross sections in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	5
72	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	18
71	Study of J/ψ production and cold nuclear matter effects in pPb collisions at $(\sqrt{s_{NN}}) = 5$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	60
70	Measurement of WZ and ZZ production in pp collisions at $\sqrt{s}=7$ TeV in final states with b-tagged jets. <i>European Physical Journal C</i> , 2014 , 74, 2973	4.2	16
69	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
68	Measurement of jet multiplicity distributions in Z/γ production in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , 2014 , 74, 3014	4.2	11
67	Addendum: Observation of double charm production involving open charm in pp collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	27
66	. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	18
65	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
64	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
63	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
62	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

61	CMS multicore scheduling strategy. <i>Journal of Physics: Conference Series</i> , 2014 , 513, 032074	0.3	2
60	Measurement of prompt J/ψ to J/ψ yield ratios in Pb-Pb and p-p collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review Letters</i> , 2014 , 113, 262301	7.4	38
59	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
58	Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $[Formula: see text][Formula: see text]$. <i>European Physical Journal C</i> , 2014 , 74, 3060	4.2	29
57	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $[Formula: see text]$. <i>European Physical Journal C</i> , 2014 , 74, 3129	4.2	29
56	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
55	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
54	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
53	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
52	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
51	Study of hadronic event-shape variables in multijet final states in pp collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	3
50	Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	15
49	Description and performance of track and primary-vertex reconstruction with the CMS tracker. <i>Journal of Instrumentation</i> , 2014 , 9, P10009-P10009	1	279
48	Identification techniques for highly boosted W bosons that decay into hadrons. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	32
47	Study of forward Z + jet production in pp collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	20
46	Search for the associated production of the Higgs boson with a top-quark pair 2014 , 2014, 1		6
45	Differential branching fraction and angular analysis of the decay $(B_s^0) \rightarrow \bar{c} \ell^+ \nu_\ell$. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	86
44	Search for CP violation in $D \rightarrow \bar{c} \ell^+ \nu_\ell$ and $(D_s^+ \rightarrow K_S^0 \pi^+)$ decays. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	14

43	Production of J/ψ and (χ_c) mesons in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	58
42	Measurement of the $B^0 \rightarrow e^+ e^-$ branching fraction at low dilepton mass. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	22
41	Limits on neutral Higgs boson production in the forward region in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	4
40	Measurement of the fragmentation fraction ratio f_s/f_d and its dependence on B meson kinematics. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	78
39	Measurement of CP observables in $B^0 \rightarrow DK^*$ with $D \rightarrow K + K$. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	6
38	Measurement of the cross-section for $Z \rightarrow e^+ e^-$ production in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	43
37	Differential branching fraction and angular analysis of the $B^+ \rightarrow K^+ \pi^0$ decay. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	63
36	Measurement of J/ψ production in pp collisions at $(\sqrt{s}=2.76; \text{TeV})$. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	28
35	Measurement of the forward energy flow in collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2013 , 73, 2421	4-2	17
34	Measurements of the branching fractions of [Formula: see text] decays. <i>European Physical Journal C</i> , 2013 , 73, 2462	4-2	19
33	First measurement of time-dependent CP violation in $(B_s^0 \rightarrow K^+ K^-)$ decays. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	25
32	Measurement of the relative rate of prompt τ^0 , τ^1 and τ^2 production at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	31
31	Study of $D^* J$ meson decays to $D^+ D^0$ and D^{*+} final states in pp collisions. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	69
30	First observation of the decay $(B_c^+ \rightarrow J/\psi K^+)$. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	36
29	Searches for $(B_{(s)}^0 \rightarrow J/\psi p)$ and $B^+ \rightarrow J/\psi (\overline{p})$ decays. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	6
28	Differential branching fraction and angular analysis of the decay $B^0 \rightarrow K^* \pi^0$. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	99
27	Measurement of B meson production cross-sections in proton-proton collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	45
26	Implications of LHCb measurements and future prospects. <i>European Physical Journal C</i> , 2013 , 73, 1	4-2	116

25	Search for the doubly charmed baryon (Ξ_{cc}^{++}). <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	41
24	Measurement of Λ polarization in collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2013 , 73, 2631	4.2	87
23	Observation of the decay ($B_c^{++} \rightarrow \pi^+ K^+ K^0$). <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	20
22	First observation of the decay ($B_s^0 \rightarrow \pi^+ K^{*0}$). <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	7
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16	Observation of X(3872) production in pp collisions at ($\sqrt{s}=7 \text{ TeV}$). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	121
15	Opposite-side flavour tagging of mesons at the LHCb experiment. <i>European Physical Journal C</i> , 2012 , 72, 2022	4.2	39
14	Measurement of production in collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2012 , 72, 2025	4.2	83
13	Measurement of the B_{c} production cross-section in pp collisions at ($\sqrt{s}=7 \text{ TeV}$). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	19
12	Observation of double charm production involving open charm in pp collisions at ($\sqrt{s}=7 \text{ TeV}$). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	86
11	Measurement of the isospin asymmetry in $B \rightarrow \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	59
10	Measurement of the fraction of $\Lambda(1520)$ originating from $\Lambda_b(5620)$ decays in pp collisions at ($\sqrt{s}=7, \text{TeV}$). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	17
9	First observation of the decay $B \rightarrow \pi^+ \pi^- \pi^0$. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	35
8	Measurement of $\Lambda(1520)$ meson production in collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2012 , 72, 2100	4.2	63

7	Measurement of relative branching fractions of decays to (2) and $/$ mesons. <i>European Physical Journal C</i> , 2012 , 72, 2118	4.2	18
6	Measurement of prompt hadron production ratios in pp collisions at $(\sqrt{s} = 0.9 \text{ TeV})$ and 7 TeV . <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	23
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1	LHCb trigger system design and commissioning with $\sqrt{s}=7 \text{ TeV}$ proton-proton collisions at LHC. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2011 , 215, 201-203		