

# Christian Scharf

## List of Publications by Year in descending order

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Version: 2024-02-01

326  
papers

8,461  
citations

66343

42  
h-index

95266

68  
g-index

342  
all docs

342  
docs citations

342  
times ranked

7945  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1.	3.9	6
2	Measurement of the c-jet mistagging efficiency in $t\bar{t}$ events using pp collision data at $\sqrt{s} = 13$ TeV collected with the ATLAS detector. European Physical Journal C, 2022, 82, .	3.9	14
3	Search for exotic decays of the Higgs boson into $b\bar{b}$ and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
4	Observation of electroweak production of two jets in association with an isolated photon and missing transverse momentum, and search for a Higgs boson decaying into invisible particles at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, 1.	3.9	8
5	Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with $139 \text{ fb}^{-1}$ of pp collision data at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	10
6	AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1.	2.9	23
7	Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow \mu^{\pm} \nu_{\mu} (\rightarrow \pi^{\pm} \nu_{\pi}) \nu_{\tau}$ events in Run 2 data. European Physical Journal C, 2022, 82, 1.	3.9	4
8	The ATLAS inner detector trigger performance in pp collisions at $\sqrt{s} = 13$ TeV during LHC Run 2. European Physical Journal C, 2022, 82, 1.	3.9	5
9	Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, .	3.9	7
10	Measurement of the energy asymmetry in $t\bar{t}$ production at $\sqrt{s} = 13$ TeV with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, .	3.9	2
11	Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7, 8$ and $13$ TeV. European Physical Journal C, 2022, 82, 1.	3.9	12
12	Measurement of hadronic event shapes in high-pT multijet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
13	Search for squarks and gluinos in final states with jets and missing transverse momentum using $139 \text{ fb}^{-1}$ of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	37
14	Differential cross-section measurements for the electroweak production of dijets in association with a Z boson in proton-proton collisions at ATLAS. European Physical Journal C, 2021, 81, 1.	3.9	12
15	Measurements of WH and ZH production in the $H \rightarrow b\bar{b}$ decay channel in pp collisions at $\sqrt{s} = 13, 8$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	38
16	Search for dark matter in association with an energetic photon in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	18
17	Search for type-III seesaw heavy leptons in dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	17
18	Measurement of light-by-light scattering and search for axion-like particles with $2.2 \text{ nb}^{-1}$ of Pb+Pb data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	19

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19	Search for Higgs boson production in association with a high-energy photon via vector-boson fusion with decay into bottom quark pairs at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	6
20	Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	22
21	Search for pair production of scalar leptoquarks decaying into first- or second-generation leptons and top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	18
22	Optimisation of large-radius jet reconstruction for the ATLAS detector in 13 TeV proton-proton collisions. European Physical Journal C, 2021, 81, 1.	3.9	15
23	Search for heavy resonances decaying into a pair of Z bosons in the $e^+e^- \rightarrow e^+e^- Z Z$ and $e^+e^- \rightarrow e^+e^- \gamma \gamma$ final states using 139 fb <sup>-1</sup> of proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	40
24	Search for new phenomena in final states with b-jets and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	18
25	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $e^+e^- \rightarrow e^+e^- \gamma \gamma$ and $e^+e^- \rightarrow e^+e^- W W$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	26
26	Search for doubly and singly charged Higgs bosons decaying into vector bosons in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	23
27	Measurements of $W+W\gamma+1$ jet production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
28	Search for charged Higgs bosons decaying into a top quark and a bottom quark at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	46
29	Measurements of Higgs bosons decaying to bottom quarks from vector boson fusion production with the ATLAS experiment at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 1.	3.9	14
30	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a $\tau$ -lepton in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
31	Search for supersymmetry in events with four or more charged leptons in 139 fb <sup>-1</sup> of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
32	Determination of the parton distribution functions of the proton from ATLAS measurements of differential $W_{\pm}$ and Z boson production in association with jets. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
33	Measurements of differential cross-sections in four-lepton events in 13 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
34	A search for the decays of stopped long-lived particles at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
35	Muon reconstruction and identification efficiency in ATLAS using the full Run 2 pp collision data set at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 1.	3.9	82
36	Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	13

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37	Jet energy scale and resolution measured in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	64
38	Measurements of the inclusive and differential production cross sections of a top-quark-antiquark pair in association with a Z boson at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	12
39	Search for dark matter produced in association with a single top quark in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	9
40	Search for phenomena beyond the Standard Model in events with large b-jet multiplicity using the ATLAS detector at the LHC. European Physical Journal C, 2021, 81, 1.	3.9	5
41	Search for dark matter in events with missing transverse momentum and a Higgs boson decaying into two photons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
42	Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using $\sqrt{s} = 13$ TeV proton-proton collision data. European Physical Journal C, 2021, 81, 1.	3.9	7
43	Measurement of the $t\bar{t}Z$ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
44	Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
45	Measurement of the production cross section of pairs of isolated photons in pp collisions at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
46	Search for exotic decays of the Higgs boson into long-lived particles in pp collisions at $\sqrt{s} = 13$ TeV using displaced vertices in the ATLAS inner detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
47	Search for chargino-neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	28
48	Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.	3.9	7
49	Measurement of b-quark fragmentation properties in jets using the decay $B \rightarrow J/\psi K^{\pm}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3
50	Measurements of inclusive and differential cross-sections of combined $t\bar{t}\gamma$ and $tW^{\pm}$ production in the $e\bar{\nu}_e$ channel at 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	3
51	Electrical characterization of surface properties of the ATLAS17LS sensors after neutron, proton and gamma irradiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 983, 164456.	1.6	6
52	Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	11
53	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.	2.9	21
54	Experimental study of different silicon sensor options for the upgrade of the CMS Outer Tracker. Journal of Instrumentation, 2020, 15, P04017-P04017.	1.2	5

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55	The ABC130 barrel module prototyping programme for the ATLAS strip tracker. Journal of Instrumentation, 2020, 15, P09004-P09004.	1.2	17
56	Search for electroweak production of a vector-like T quark using fully hadronic final states. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
57	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. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
58	Measurement of properties of $\mathbf{B}_{\mathbf{s}}^0 \rightarrow \mathbf{B}_{\mathbf{s}}^0 \mathbf{t} \bar{\mathbf{t}}$ decays and search for $\mathbf{B}_{\mathbf{s}}^0 \rightarrow \mathbf{t} \bar{\mathbf{t}}$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	41
59	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P02027-P02027.	1.2	27
60	Humidity sensitivity of large area silicon sensors: Study and implications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 978, 164406.	1.6	3
61	Measurement of the cross section for $\mathbf{t} \bar{\mathbf{t}}$ production with additional jets and b jets in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	5
62	Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	41
63	Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	37
64	Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P05002-P05002.	1.2	3
65	Study of central exclusive "Equation missing" production in proton-proton collisions at $\sqrt{s} = 5.02$ TeV and 13 TeV. European Physical Journal C, 2020, 80, 718.	3.9	7
66	Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	25
67	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	21
68	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	66
69	Search for pairs of scalar leptoquarks decaying into quarks and electrons or muons in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	36
70	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
71	Influence of radiation damage on the absorption of near-infrared light in silicon. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 968, 163955.	1.6	6
72	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. Journal of High Energy Physics, 2020, 2020, 1.	4.7	2

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73	Search for new neutral Higgs bosons through the $\mathcal{H} \rightarrow \mathcal{Z} \mathcal{A} \mathcal{B}$ process in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	27
74	Search for direct pair production of supersymmetric partners to the $\tau$ lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 189.	3.9	22
75	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in $\mathcal{PbPb}$ collisions at $\sqrt{s_{NN}} = 2.76$ and $5.02$ TeV. European Physical Journal C, 2020, 80, 534.	3.9	14
76	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. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
77	Measurement of electroweak production of a $W$ boson in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 43.	3.9	11
78	Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	1
79	Evidence for $W$ production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	3.9	10
80	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 75.	3.9	78
81	Searches for physics beyond the standard model with the $M_{T2}$ variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 3.	3.9	70
82	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	3.9	198
83	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\tau \mu$ , and $e \mu$ , in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	15
84	A search for the standard model Higgs boson decaying to charm quarks. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
85	Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	25
86	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
87	A multi-dimensional search for new heavy resonances decaying to boosted $W$ , $Z$ , or $Z$ boson pairs in the dijet final state at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 237.	3.9	31
88	Measurement of the top quark pair production cross section in dilepton final states containing one $\tau$ lepton in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	2
89	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. Journal of High Energy Physics, 2020, 2020, 1.	4.7	26
90	Search for $t$ resonances in fully hadronic final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14

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91	Reconstruction and identification of boosted di- $\tau$ , systems in a search for Higgs boson pairs using 13 TeV proton-proton collision data in ATLAS. Journal of High Energy Physics, 2020, 2020, 1.	4.7	8
92	Search for top squarks in events with a Higgs or Z boson using $139\text{fb}^{-1}$ of pp collision data at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	4
93	Evidence for $\tau\tau$ production in the multilepton final state in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	30
94	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8, \sqrt{s} = 13\text{TeV}$ with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	3.9	5
95	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . European Physical Journal C, 2020, 80, 370.	3.9	22
96	Measurement of $t\bar{t}$ normalised multi-differential cross sections in $pp$ collisions at $\sqrt{s}=13, \sqrt{s}=13\text{TeV}$ , and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1.	3.9	33
97	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1.	3.9	12
98	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two $\tau$ , leptons and two jets in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	33
99	Search for a $W\tilde{\chi}^0$ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
100	Search for top quark partners with charge $5/3$ in the same-sign dilepton and single-lepton final states in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
101	Inclusive search for supersymmetry in pp collisions at $\sqrt{s}=13\text{TeV}$ using razor variables and boosted object identification in zero and one lepton final states. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
102	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	17
103	Search for excited leptons in $e^+e^-$ final states in proton-proton collisions at $\sqrt{s}=13\text{TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
104	Search for new particles decaying to a jet and an emerging jet. Journal of High Energy Physics, 2019, 2019, 1.	4.7	24
105	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 $\sqrt{s} = 13, \sqrt{s} = 13\text{TeV}$ . European Physical Journal C, 2019, 79, 1.	3.9	9
106	Measurement of exclusive $\rho^0$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02, \sqrt{s_{NN}} = 5.02, \sqrt{s_{NN}} = 5.02\text{TeV}$ . European Physical Journal C, 2019, 79, 702.	3.9	33
107	Measurement of exclusive $\Upsilon$ photoproduction from protons in $p\text{-Pb}$ collisions at $\sqrt{s_{NN}} = 5.02, \sqrt{s_{NN}} = 5.02, \sqrt{s_{NN}} = 5.02\text{TeV}$ . European Physical Journal C, 2019, 79, 277.	3.9	35
108	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13, \sqrt{s}=13\text{TeV}$ . European Physical Journal C, 2019, 79, 564.	3.9	50

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109	Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	8
110	Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.	3.9	40
111	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $\sqrt{s}$ collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 773.	3.9	8
112	Search for charged Higgs bosons in the $H \rightarrow \tau^+ \tau^-$ decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	54
113	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 305.	3.9	4
114	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. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
115	Search for a low-mass $\tilde{t}, \tilde{t}^*$ resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	9
116	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 $\tilde{l}, \tilde{l}^*$ leptons. Journal of High Energy Physics, 2019, 2019, 1.	4.7	7
117	Search for the pair production of light top squarks in the $e^+e^- \rightarrow \tilde{t} \tilde{t}^*$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
118	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 421.	3.9	355
119	Search for supersymmetry in events with a photon, jets, $\cancel{E}_T$ , and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 444.	3.9	11
120	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. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
121	Measurement of the $t\bar{t} \rightarrow t\bar{t} \gamma$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 368.	3.9	68
122	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	12
123	Search for nonresonant Higgs boson pair production in the $b\bar{b}b\bar{b}$ final state at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11
124	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 280.	3.9	29
125	Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
126	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 364.	3.9	48



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127	Search for single production of vector-like quarks decaying to a top quark and a $W$ boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 90.	3.9	34
128	Study of the underlying event in top quark pair production in $pp$ collisions at 13 TeV. European Physical Journal C, 2019, 79, 123.	3.9	11
129	Search for rare decays of $Z$ and Higgs bosons to $J/\psi$ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 94.	3.9	20
130	Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	15
131	Measurements of $\overline{\mathcal{M}}^2$ differential cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV using events containing two leptons. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
132	Search for $\overline{\mathcal{M}}^2$ production in the $H \rightarrow b\overline{b}$ decay channel with leptonic $\overline{\mathcal{M}}^2$ decays in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
133	Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	6
134	Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
135	Search for resonant $\overline{\mathcal{M}}^2$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	23
136	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. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
137	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. Journal of High Energy Physics, 2019, 2019, 1.	4.7	12
138	Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	40
139	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 20.	3.9	18
140	Search for resonances decaying to a pair of Higgs bosons in the $b\overline{b}q\overline{q}$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	10
141	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in $pp$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2019, 79, 969.	3.9	6
142	Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	18
143	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. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11
144	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 893.	3.9	12

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146	Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$ . European Physical Journal C, 2019, 79, 886.	3.9	16
147	Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
148	Search for supersymmetry using Higgs boson to diphoton decays at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	4
149	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
150	Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	15
151	Study of the $\text{B}^+ \rightarrow \text{u}\bar{\text{u}}\psi\bar{\psi}$ decay in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
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154	Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\gamma\gamma$ final state in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	36
155	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2018, 78, 291.	3.9	27
156	Measurements of the $\text{pp} \rightarrow \text{Z}\gamma\text{pp}$ production cross section and the $\text{Z} \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2018, 78, 165.	3.9	52
157	Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2018, 78, 287.	3.9	16
158	Measurement of the inclusive $\text{t}\bar{\text{t}}$ cross section in pp collisions at $\sqrt{s}=5.02 \text{ TeV}$ using final states with at least one charged lepton. Journal of High Energy Physics, 2018, 2018, 1.	4.7	5
159	Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s}=8 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	0
160	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s}=13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	5
161	Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	6
162	Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	57

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164	Measurement of differential cross sections in the kinematic angular variable $\tilde{l}^*$ for inclusive Z boson production in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
165	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s_{\mathbb{N}\mathbb{N}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
166	Measurement of normalized differential $\overline{\mathbb{t}}\mathbb{t}$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
167	Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
168	Search for ZZ resonances in the $2\tilde{l}, 2\tilde{l}^2$ final state in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
169	Search for $\overline{\mathbb{t}}\mathbb{t}\mathbb{H}$ production in the all-jet final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
170	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. Journal of High Energy Physics, 2018, 2018, 1.	4.7	9
171	Measurement of the groomed jet mass in PbPb and pp collisions at $\sqrt{s_{\mathbb{N}\mathbb{N}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
172	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. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
173	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. Journal of High Energy Physics, 2018, 2018, 1.	4.7	19
174	Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1.	4.7	43
175	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
176	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two $\tilde{l}$ , leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	34
177	Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	26
178	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. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
179	Charged-particle nuclear modification factors in XeXe collisions at $\sqrt{s_{\mathbb{N}\mathbb{N}}} = 5.44$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
180	Measurement of the top quark mass with lepton+jets final states using $\mathbb{p}\mathbb{p}\mathbb{p}\mathbb{p}\mathbb{p}\mathbb{p}$ collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 891.	3.9	34

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182	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	57
183	Event shape variables measured using multijet final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
184	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. Journal of High Energy Physics, 2018, 2018, 1.	4.7	23
185	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. Journal of High Energy Physics, 2018, 2018, 1.	4.7	82
186	Search for $Z\tilde{l}^3$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
187	Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
188	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	14
189	Search for supersymmetry in events with a $\tilde{l}$ , lepton pair and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	21
190	Search for the decay of a Higgs boson in the $\tilde{a}, \tilde{a}, \tilde{t}^3$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
191	Search for third-generation scalar leptoquarks decaying to a top quark and a $\tilde{l}, \tilde{\nu}$ lepton at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 707.	3.9	46
192	Measurement of differential cross sections for $Z$ boson production in association with jets in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 965.	3.9	39
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200	Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
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202	Measurement of the $\sigma(\text{Z}/\gamma^* \rightarrow \text{e}^+\text{e}^-) / \sigma(\text{Z}/\gamma^* \rightarrow \mu^+\mu^-)$ , cross section in pp collisions at $\sqrt{s} = 13$ TeV and validation of $\sigma(\text{Z}/\gamma^* \rightarrow \text{e}^+\text{e}^-)$ . European Physical Journal C, 2018, 78, 708.	3.9	10
203	Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	42
204	Search for dark matter produced in association with a Higgs boson decaying to $\tilde{\chi}_1^0\tilde{\chi}_1^0$ or $\tilde{\chi}_1^0, \tilde{\chi}_1^\pm$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
205	Search for additional neutral MSSM Higgs bosons in the $\tilde{\chi}_1^0, \tilde{\chi}_1^\pm$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	73
206	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. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
207	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. Journal of High Energy Physics, 2018, 2018, 1.	4.7	34
208	Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\bar{u}q\bar{q}$ final state. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
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212	Measurement of prompt and nonprompt charmonium suppression in $\text{PbPb}$ collisions at $5.02 \text{ TeV}$ . European Physical Journal C, 2018, 78, 509.	3.9	83
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219	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. Journal of High Energy Physics, 2018, 2018, 1.	4.7	23
220	Search for a singly produced third-generation scalar leptoquark decaying to a $\bar{l}$ , lepton and a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	15
221	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. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
222	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
223	Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	31
224	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	86
225	A new model for the TCAD simulation of the silicon damage by high fluence proton irradiation. , 2018, , .		4
226	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	42
227	Jet properties in PbPb and pp collisions at $\sqrt{s_{\mathrm{N};\mathrm{N}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
228	Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	37
229	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 140.	3.9	44
230	Measurement of b hadron lifetimes in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2018, 78, 457.	3.9	15
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233	Measurements of the $\overline{\mathrm{t}}\mathrm{t}\hat{\mathrm{A}}^{-}$ production cross section in lepton+jets final states in pp collisions at $8\sqrt{s},\mathrm{TeV}$ and ratio of $8$ to $7\sqrt{s},\mathrm{TeV}$ cross sections. European Physical Journal C, 2017, 77, 15.	3.9	34
234	Measurement of the $\overline{\mathrm{t}}\mathrm{t}\hat{\mathrm{A}}^{-}$ production cross section using events in the $\mathrm{e}\mu$ final state in pp collisions at $\sqrt{s}=13,\mathrm{TeV}$ . European Physical Journal C, 2017, 77, 172.	3.9	40

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236	On the timing performance of thin planar silicon sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 859, 31-36.	1.6	11
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238	Measurement of the production cross section of a $W\tilde{A}$ boson in association with two b jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 92.	3.9	16
239	Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 236.	3.9	37
240	Measurement of prompt and nonprompt $J/\psi$ production in pp and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.	3.9	53
241	A search for new phenomena in pp collisions at $\sqrt{s} = 13$ TeV in final states with missing transverse momentum and at least one jet using the $\alpha_T$ variable. European Physical Journal C, 2017, 77, 294.	3.9	29
242	Search for new physics in the monophoton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
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244	Measurement of the jet mass in highly boosted $\overline{t}t$ events from pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 467.	3.9	23
245	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	103
246	Search for $t\overline{t} \tilde{A}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
247	Search for associated production of dark matter with a Higgs boson decaying to $b\overline{b} \tilde{A}$ or $\tilde{\chi}^0_3$ at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
248	Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	48
249	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. Journal of High Energy Physics, 2017, 2017, 1.	4.7	35
250	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. Journal of High Energy Physics, 2017, 2017, 1.	4.7	13
251	Measurement of the semileptonic $t\overline{t} \tilde{A}$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	11
252	Measurements of the $pp \rightarrow \tilde{t}^* \tilde{W}^{\pm} \tilde{\chi}^0_{1,2}$ and $pp \rightarrow \tilde{t}^* \tilde{Z} \tilde{\chi}^0_{1,2}$ cross sections and limits on anomalous quartic gauge couplings at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10

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254	Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
255	Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
256	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. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
257	Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
258	Suppression and azimuthal anisotropy of prompt and nonprompt $J/\psi$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	3.9	82
259	Searches for pair production of third-generation squarks in $\sqrt{s} = 13$ TeV pp collisions. European Physical Journal C, 2017, 77, 327.	3.9	32
260	Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 354.	3.9	23
261	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.	4.7	95
262	Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
263	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 845.	3.9	38
264	Measurement of electroweak-induced production of $Wt^3$ with two jets in pp collisions at $\sqrt{s} = 8$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
265	Searches for $Wt^2$ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	8
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267	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. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
268	Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
269	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. Journal of High Energy Physics, 2017, 2017, 1.	4.7	27
270	Search for top squark pair production in pp collisions at $\sqrt{s} = 13$ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31



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272	Measurement of the $t \bar{t} \hat{A}^-$ production cross section using events with one lepton and at least one jet in pp collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
273	Search for a heavy resonance decaying to a top quark and a vector-like top quark at $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	5
274	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 $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2017, 77, 578.	3.9	57
275	Search for top quark partners with charge $5/3$ in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	3
276	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	29
277	Measurements of jet charge with dijet events in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
278	Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	21
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