

Roberta Arcidiacono

List of Publications by Year in descending order

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Version: 2024-02-01

641
papers

24,578
citations

8755

75
h-index

18647

119
g-index

664
all docs

664
docs citations

664
times ranked

10558
citing authors

#	ARTICLE	IF	CITATIONS
1	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. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
2	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. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
3	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 153.	3.9	14
4	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	1
5	High-accuracy 4D particle trackers with resistive silicon detectors (AC-LGADs). Journal of Instrumentation, 2022, 17, C03013.	1.2	2
6	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 290.	3.9	18
7	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. Journal of High Energy Physics, 2022, 2022, 1.	4.7	13
8	Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with a dedicated high-rate data stream. Journal of High Energy Physics, 2022, 2022, .	4.7	5
9	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	12
10	Optimization of the gain layer design of ultra-fast silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, , 166739.	1.6	5
11	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. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
12	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
13	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
14	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
15	Measurement of the inclusive $\overline{t}t$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
16	Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	4.7	2
17	Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	4.7	4
18	Observation of $B^0 \rightarrow \psi(2S) K^0_{\text{S}}$ and $B^0_{\text{S}} \rightarrow \psi(2S) K^0_{\text{S}}$ decays. European Physical Journal C, 2022, 82, .	3.9	1

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19	TCAD modeling of bulk radiation damage effects in silicon devices with the Perugia radiation damage model. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1040, 167180.	1.6	1
20	Novel strategies for fine-segmented Low Gain Avalanche Diodes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 987, 164840.	1.6	14
21	Design and characterization of the FAST chip: a front-end for 4D tracking systems based on Ultra-Fast Silicon Detectors aiming at 30 ps time resolution. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 985, 164615.	1.6	4
22	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 13.	3.9	33
23	Search for top squark pair production using dilepton final states in pp collision data collected at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 3.	3.9	33
24	Measurements of $pp \rightarrow Z\gamma\gamma$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.	3.9	24
25	Development and validation of HERWIG tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	3.9	12
26	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 378.	3.9	40
27	Search for K^+ decays to a muon and invisible particles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136259.	4.1	34
28	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 488.	3.9	35
29	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
30	Resistive AC-Coupled Silicon Detectors: Principles of operation and first results from a combined analysis of beam test and laser data. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1003, 165319.	1.6	31
31	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 629.	3.9	18
32	Search for a heavy vector resonance decaying to a $Z\gamma$ boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 688.	3.9	9
33	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 723.	3.9	19
34	Combined analysis of HPK 3.1 LGADs using a proton beam, beta source, and probe station towards establishing high volume quality control. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1018, 165828.	1.6	7
35	Measurements of angular distance and momentum ratio distributions in three-jet and Z + two-jet final states in pp collisions. European Physical Journal C, 2021, 81, 852.	3.9	2
36	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123

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37	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 970.	3.9	18
38	The Gigatracker, the silicon beam tracker for the NA62 experiment at CERN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162127.	1.6	2
39	State-of-the-art and evolution of UFSD sensors design at FBK. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 978, 164375.	1.6	15
40	Search for heavy neutral lepton production in K^+ decays to positrons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 807, 135599.	4.1	42
41	LGAD designs for Future Particle Trackers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 979, 164383.	1.6	21
42	The production of isolated photons in PbPb and pp collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
43	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
44	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
45	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
46	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
47	Measurement of properties of $B_{\mathrm{s}}^0 \rightarrow \tau^+ \tau^-$ decays and search for $B_{\mathrm{s}}^0 \rightarrow \tau^+ \tau^-$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	41
48	Search for a light pseudoscalar Higgs boson in the boosted $t\bar{t}$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	23
49	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
50	Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	10
51	Measurement of the cross section for $t\bar{t}$ 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
52	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
53	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
54	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

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55	A multichannel front-end readout ASIC for picosecond time resolution systems based on thin UFSD. Journal of Instrumentation, 2020, 15, C07012-C07012.	1.2	2
56	Study of central exclusive "Equation missing" \rightarrow production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV. European Physical Journal C, 2020, 80, 718.	3.9	7
57	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 $\sqrt{s}=13, \text{TeV}$. European Physical Journal C, 2020, 80, 752.	3.9	23
58	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
59	Properties of FBK UFSDs after neutron and proton irradiation up to $6 \times 10^{15} \text{ cm}^{-2}$. Journal of Instrumentation, 2020, 15, T04008-T04008.	1.2	10
60	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
61	Search for decays of the 125 GeV Higgs boson into a Z boson and a ρ meson. Journal of High Energy Physics, 2020, 2020, 1.	4.7	6
62	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
63	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
64	Test of innovative silicon detectors for the monitoring of a therapeutic proton beam. Journal of Physics: Conference Series, 2020, 1662, 012002.	0.4	5
65	Search for supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in events with high-momentum Z bosons and missing transverse momentum. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
66	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
67	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
68	Search for new neutral Higgs bosons through the $\text{H} \rightarrow \text{Z} \text{b} \overline{\text{b}}$ process in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	27
69	Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s}=13, \text{TeV}$. European Physical Journal C, 2020, 80, 189.	3.9	22
70	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ and $5.02, \text{TeV}$. European Physical Journal C, 2020, 80, 534.	3.9	14
71	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
72	Determination of the strong coupling constant $\hat{\alpha}_S(m_Z)$ from measurements of inclusive W_{\pm} and Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	6

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73	Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	7
74	Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at $\sqrt{s}=13$, ext {TeV} ext {V} . European Physical Journal C, 2020, 80, 43.	3.9	11
75	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
76	Evidence for W production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} . European Physical Journal C, 2020, 80, 1.	3.9	10
77	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, ext {TeV} . European Physical Journal C, 2020, 80, 75.	3.9	78
78	Searches for physics beyond the standard model with the $M_{\mathit{T}2}$ variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13$, ext {TeV} ext {V} . European Physical Journal C, 2020, 80, 3.	3.9	70
79	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
80	Analysis and numerical design of Resistive AC-Coupled Silicon Detectors (RSD) for 4D particle tracking. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 959, 163479.	1.6	17
81	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\tau\mu$, and $e\tau$, in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	15
82	A search for the standard model Higgs boson decaying to charm quarks. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
83	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
84	Evolution of the design of ultra fast silicon detector to cope with high irradiation fluences and fine segmentation. Journal of Instrumentation, 2020, 15, C04027-C04027.	1.2	2
85	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
86	A multi-dimensional search for new heavy resonances decaying to boosted W boson pairs in the dijet final state at $\sqrt{s}=13$ TeV, ext {TeV} ext {V} . European Physical Journal C, 2020, 80, 237.	3.9	31
87	Measurement of the top quark pair production cross section in dilepton final states containing one τ , lepton in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	2
88	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
89	An investigation of the very rare $K^+ \rightarrow \pi^+ u \bar{u}$ decay. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
90	Experimental Study of Acceptor Removal in UFSD. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 983, 164611.	1.6	7

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91	Effect of deep gain layer and Carbon infusion on LGAD radiation hardness. Journal of Instrumentation, 2020, 15, P10003-P10003.	1.2	10
92	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8, \text{ext}\{\text{TeV}\}$ with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	3.9	5
93	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$. European Physical Journal C, 2020, 80, 370.	3.9	22
94	Measurement of $\sigma_{\text{t}}^{\text{hbox}}\{\text{t}\}$ normalised multi-differential cross sections in $\text{ext}\{\text{p}\}\{\text{p}\}$ collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$, 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
95	Next-Generation Tracking System for Future Hadron Colliders. , 2020, , .		2
96	First FBK production of 50 $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e619" altimg="si5.gif" > \langle \text{mml:mi mathvariant="normal" > } \frac{1}{4} \langle \text{mml:mi > } \langle \text{mml:mi mathvariant="normal" > } m \langle \text{mml:mi > } \langle \text{mml:math > } \text{ultra-fast silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 924, 360-368.$	1.6	33
97	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two \tilde{l} , leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	33
98	Search for a $W\tilde{e}^2$ 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
99	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. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
100	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. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
101	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. Journal of High Energy Physics, 2019, 2019, 1.	4.7	17
102	Search for excited leptons in $\tilde{e}, \tilde{\mu}, \tilde{\tau}$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
103	Search for new particles decaying to a jet and an emerging jet. Journal of High Energy Physics, 2019, 2019, 1.	4.7	24
104	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 $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ $s = 13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	9
105	Measurement of exclusive $\sigma_{\text{t}}^{\text{hbox}}\{\text{t}\}$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02, \text{ext}\{\text{TeV}\}$. European Physical Journal C, 2019, 79, 702.	3.9	33
106	Measurement of exclusive $\sigma_{\text{t}}^{\text{hbox}}\{\text{t}\}$ photoproduction from protons in pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02, \text{ext}\{\text{TeV}\}$. European Physical Journal C, 2019, 79, 277.	3.9	35
107	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$. European Physical Journal C, 2019, 79, 564.	3.9	50
108	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

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109	Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13$, ext {TeV} $s = 13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.	3.9	40
110	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $\sqrt{s}=13$, ext {TeV} $s = 13$ TeV collisions at $\sqrt{s}=13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 773.	3.9	8
111	The NA62 GigaTracker: a low mass high intensity beam 4D tracker with 65 ps time resolution on tracks. Journal of Instrumentation, 2019, 14, P07010-P07010.	1.2	13
112	Search for charged Higgs bosons in the $H_{\pm} \rightarrow \tau^{\pm} \tilde{\nu}_{\tau}$ 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 $\sqrt{s} = 13$, ext {TeV} $s = 13$ 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	Searches for lepton number violating K^+ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134794.	4.1	26
116	Search for a low-mass $\tilde{\nu}_{\tau} \tilde{\nu}_{\tau}^*$ 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
117	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 $\tilde{\nu}_{\tau}$, leptons. Journal of High Energy Physics, 2019, 2019, 1.	4.7	7
118	Search for the pair production of light top squarks in the $e^+e^- \rightarrow t\bar{t}$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
119	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 421.	3.9	355
120	Search for supersymmetry in events with a photon, jets, $\mathcal{B} \rightarrow \text{jets}$, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 444.	3.9	11
121	Search for production of an invisible dark photon in $\tilde{\nu}_{\tau} \rightarrow e^+e^-$ decays. Journal of High Energy Physics, 2019, 2019, 1.	4.7	40
122	Properties of HPK UFSD after neutron irradiation up to 6×10^{15} n/cm ² . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 940, 19-29.	1.6	32
123	Measurements of the $pp \rightarrow t\bar{t} WZ$ 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
124	Measurement of the $\sigma(t\bar{t})$ 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
125	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	12
126	Search for nonresonant Higgs boson pair production in the $\mathcal{B} \rightarrow \text{jets} \mathcal{B}$ final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11

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127	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ Te. European Physical Journal C, 2019, 79, 280.	3.9	29
128	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
129	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. First search for $K^0 \rightarrow \pi^0 \ell^+ \ell^-$ using the ATLAS detector in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 156-166.	4.1	48
130	Timing layers, 4- and 5-dimension tracking. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 924, 350-354.	1.6	9
131	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ Te. European Physical Journal C, 2019, 79, 364.	3.9	48
132	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
133	Study of the underlying event in top quark pair production in $p\bar{p}$ collisions at $\sqrt{s} = 13$ Te. European Physical Journal C, 2019, 79, 123.	3.9	11
134	Search for rare decays of Z and Higgs bosons to J/ψ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 94.	3.9	20
135	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
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143	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
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165	Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\gamma\gamma$ final state in proton-proton collisions at $s=13\text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	36
166	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
167	Measurements of the $\sigma(\text{pp}\rightarrow\text{ZZ})$ production cross section and the $\sigma(\text{pp}\rightarrow\text{Z}\gamma\gamma)$ 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
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169	Measurement of the inclusive $\sigma(\text{pp}\rightarrow\text{t}\bar{\text{t}})$ 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
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176	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s_{\text{NN}}}=5.02\text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
177	Measurement of normalized differential $\sigma(\text{pp}\rightarrow\text{t}\bar{\text{t}})$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13\text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
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179	Search for ZZ resonances in the $2\gamma\gamma$ final state in proton-proton collisions at 13 TeV . Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
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182	Measurement of the groomed jet mass in PbPb and pp collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
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184	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
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197	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
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226	Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s}=13$ TeV collisions at 5.02 TeV. European Physical Journal C, 2018, 78, 509.	3.9	83
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237	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
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277	Measurement of the semileptonic $t \bar{t} \rightarrow \tau^+ \tau^- + \tau^+ \tau^- + \tau^+ \tau^- + \tau^+ \tau^-$ production cross section in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	11
278	Measurements of the $pp \rightarrow W \tau^+ \tau^-$ and $pp \rightarrow Z \tau^+ \tau^-$ cross sections and limits on anomalous quartic gauge couplings at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
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296	Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
297	Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
298	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 $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	27
299	Development of Ultra-Fast Silicon Detectors for 4D tracking. Journal of Instrumentation, 2017, 12, C12012-C12012.	1.2	4
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354	Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	13
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468	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	33

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494	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8$ TeV. , 2013, 2013, 1.		2
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496	Search for quark compositeness in dijet angular distributions from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	18
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502	Search for anomalous production of multilepton events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	68
503	Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	117
504	Search for leptonic decays of $W\gamma$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	49

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511	Search for supersymmetry in hadronic final states using M_{T2} in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	95
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515	Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	7
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528	Measurement of the top-quark mass in $\overline{\text{t}}\text{t}$ events with dilepton final states in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2012, 72, 1.	3.9	42
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548	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ \$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	122
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553	Measurement of Bose-Einstein correlations in pp collisions at $\sqrt{s} = 0.9$ \$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	30
554	Strange particle production in pp collisions at $\sqrt{s} = 0.9$ \$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	139
555	Search for large extra dimensions in the diphoton final state at the Large Hadron Collider. Journal of High Energy Physics, 2011, 2011, 1.	4.7	22
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557	Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at $\sqrt{s} = 7$;{ext{TeV}}\$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	26
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