

Liang Li

List of Publications by Year in descending order

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Version: 2024-02-01

621
papers

26,809
citations

8755

75
h-index

16650

123
g-index

633
all docs

633
docs citations

633
times ranked

11006
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for $X(3872)$ in Pb-Pb Collisions and Studies of its Prompt Production at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2022, 128, 032001.	7.8	23
2	Performance of the ATLAS Level-1 topological trigger in Run 2. European Physical Journal C, 2022, 82, 1.	3.9	6
3	Measurement of the c-jet mistagging efficiency in $\sqrt{s} = 13$ TeV events using pp collision data at $\sqrt{s} = 13$ TeV collected with the ATLAS detector. European Physical Journal C, 2022, 82, .	3.9	14
4	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
5	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
6	Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with 139 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	10
7	AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1.	2.9	23
8	Measurement of the energy response of the ATLAS calorimeter to charged pions from $W \rightarrow \mu \nu$ events in Run 2 data. European Physical Journal C, 2022, 82, 1.	3.9	4
9	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
10	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
11	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
12	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
13	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
14	Study of the normalized transverse momentum distribution of W bosons produced in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 1.	4.7	2
15	Studies of charm and beauty hadron long-range correlations in pp and pPb collisions at LHC energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 813, 136036.	4.1	13
16	Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 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
17	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
18	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

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19	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
20	Measurement of differential $t\bar{t}$ production cross sections using top quarks at large transverse momenta in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	4.7	7
21	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
22	Measurement of light-by-light scattering and search for axion-like particles with 2.2 nb ⁻¹ of Pb+Pb data with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	19
23	Search for heavy neutral leptons in $W \rightarrow \mu^+ \mu^-$, $W \rightarrow \mu^+ \mu^- + \text{jet}$ decays. European Physical Journal C, 2021, 81, 1.	3.9	15
24	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
25	Search for new phenomena with top quark pairs in final states with one lepton, 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	14
26	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
27	Magnetic-field measurement and analysis for the Muon $g-2$ Experiment at Fermilab. Physical Review A, 2021, 103, .	4.7	2
28	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
29	Measurement of the Positive Muon Anomalous Magnetic Moment to 0.46 ppm. Physical Review Letters, 2021, 126, 141801.	7.8	991
30	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
31	Measurement of the anomalous precession frequency of the muon in the Fermilab Muon $g-2$ Experiment. Physical Review D, 2021, 103, .	4.7	105
32	Search for heavy resonances decaying into a pair of Z bosons in the $e^+e^- \rightarrow e^+e^- Z Z$ and $e^+e^- \rightarrow e^+e^- \gamma Z$ final states using 139 fb ⁻¹ of proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	40
33	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
34	Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $e^+e^- \rightarrow e^+e^- W W$ and $e^+e^- \rightarrow e^+e^- W Z$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	26
35	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
36	Measurements of $W+W+1$ 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

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37	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
38	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
39	Search for pair production of third-generation scalar leptoquarks decaying into a top quark and a τ -lepton in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
40	Search for supersymmetry in events with four or more charged leptons in 139 fb^{-1} of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
41	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
42	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
43	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
44	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
45	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
46	Measurement of single top-quark production in association with a W boson in the single-lepton channel at $\sqrt{s} = 8$ TeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	3.9	3
47	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
48	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
49	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
50	Measurements of top-quark pair single- and double-differential cross-sections in the all-hadronic channel in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
51	Correlations of azimuthal anisotropy Fourier harmonics with subevent cumulants in pPb collisions at $\sqrt{s_{NN}}=8.16$ TeV. Physical Review C, 2021, 103, .	2.9	1
52	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
53	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
54	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

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55	Measurement of the $t\bar{t}$ 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
56	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
57	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
58	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
59	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
60	Configuration and performance of the ATLAS b-jet triggers in Run 2. European Physical Journal C, 2021, 81, 1.	3.9	7
61	Measurement of b-quark fragmentation properties in jets using the decay $B \rightarrow \tau^+ J/\psi K^{\pm}$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3
62	Observation of nuclear modifications in W^{\pm} boson production in pPb collisions at $\sqrt{s_{NN}}=8.16$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135048.	4.1	18
63	Measurement of CKM matrix elements in single top quark t-channel production in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135048.	4.1	28
64	Performance of the missing transverse momentum triggers for the ATLAS detector during Run-2 data taking. Journal of High Energy Physics, 2020, 2020, 1.	4.7	17
65	Measurement of CKM matrix elements in single top quark t-channel production in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135609.	4.1	8
66	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	24
67	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the $H \rightarrow b\bar{b}$ decay channel at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	3.9	32
68	Search for direct production of electroweakinos in final states with one lepton, missing transverse momentum and a Higgs boson decaying into two b-jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	34
69	Production and the $t\bar{t}H$ process via vector-boson fusion production using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	7.8	38
70	Measurements of the production cross-section for a Z boson in association with b-jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	11
71	Search for the $HH \rightarrow b\bar{b}b\bar{b}$ process via vector-boson fusion production using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	17
72	Observation of the associated production of a top quark and a Z boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12

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73	Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	28
74	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
75	Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 202001.	4.7	11
76	Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2020, 102, .	7.8	13
77	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 $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 752.	3.9	23
79	Measurements of top-quark pair spin correlations in the W channel at $\sqrt{s} = 13$ TeV using pp collisions in the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	22
80	Measurements of the W boson rapidity, helicity, double-differential cross sections, and charge asymmetry in pp collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 202001.	4.7	13
81	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
82	Higgs boson production cross-section measurements and their EFT interpretation in the W decay channel at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	41
83	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	2
84	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
85	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
86	Search for dijet resonances using events with three jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135448.	4.1	6
87	Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 189.	3.9	22
88	Search for squarks and gluinos in final states with same-sign leptons and jets using 139 fb ⁻¹ of data collected with the ATLAS detector. Journal of High Energy Physics, 2020, 2020, 1.	4.7	19
89	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
90	Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 041803.	7.8	6

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91	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
92	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
93	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
94	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
95	Constraints on the $\tilde{t}\tilde{t}^*$ decay in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 121801.	3.9	12
96	A multi-dimensional search for new heavy resonances decaying to boosted W boson pairs in the dijet final state at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 237.	3.9	31
97	Measurement of the $\tilde{t}\tilde{t}^*$ decay in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 802, 135103.	4.1	0
98	Search for $\tilde{t}\tilde{t}^*$ 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.	4.1	16
99	Reconstruction and identification of boosted di-jet 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	14
100	Observation of the $\tilde{t}\tilde{t}^*$ decay in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 802, 135203.	4.7	8
101	Performance of electron and photon triggers in ATLAS during LHC Run 2. European Physical Journal C, 2020, 80, 1.	4.1	6
102	Search for top squarks in events with a Higgs or Z boson using 139 fb ⁻¹ of pp collision data at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	93
103	Evidence for $t\bar{t}$ production in the multilepton final state in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	4
104	Search for heavy diboson resonances in semileptonic final states in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	30
105	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 370.	3.9	29
106	Measurement of $\sigma_{\text{pp}}^{\text{normalised}}$ normalised multi-differential cross sections in pp collisions at $\sqrt{s}=13$ 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	22
107	Search for a scalar partner of the top quark in the all-hadronic $t\bar{t}$ plus missing transverse momentum final state at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	33
108		3.9	36

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109	Alignment of the ATLAS Inner Detector in Run 2. European Physical Journal C, 2020, 80, 1.	3.9	12
110	Determination of jet calibration and energy resolution in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. European Physical Journal C, 2020, 80, 1.	3.9	15
111	Constraints on mediator-based dark matter and scalar dark energy models using $\sqrt{s} = 13$ TeV pp collision data collected by the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	49
112	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
113	Centrality and pseudorapidity dependence of the transverse energy density in pp collisions at $\sqrt{s} = 2.9$ TeV. Physical Review D, 2019, 100, .	2.9	6
114	Search for the production of W^{\pm} events at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 100, .	4.7	10
115	Properties of $Z^{\pm}(3900)$ produced in pp^{\pm} collisions. Physical Review D, 2019, 100, .	4.7	8
116	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 $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	9
117	Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 76-99.	4.1	6
118	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 564.	3.9	50
119	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 398-423.	4.1	41
120	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
121	Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134952.	4.1	17
122	Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134985.	4.1	36
123	Search for the production of W^{\pm} events at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134992.	4.1	19
124	An embedding technique to determine I, \bar{I} , backgrounds in proton-proton collision data. Journal of Instrumentation, 2019, 14, P06032-P06032.	1.2	12
125	Measurement of the top quark Yukawa coupling from $t\bar{t}$ kinematic distributions in the lepton+jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 100, .	4.7	6
126	Charged-particle angular correlations in XeXe collisions at $\sqrt{s} = 2.9$ TeV. Physical Review C, 2019, 100, .	2.9	6

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127	Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$ with the ATLAS detector. European Physical Journal C, 2019, 79, 1.	3.9	24
128	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $\sqrt{s}=13\text{ TeV}$ collisions. European Physical Journal C, 2019, 79, 773.	3.9	8
129	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$. European Physical Journal C, 2019, 79, 305.	3.9	4
130	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at $\sqrt{s}=13\text{ TeV}$. European Physical Journal C, 2019, 79, 1.	3.9	77
131	Search for light-by-light scattering and searches for axion-like particles in ultraperipheral PbPb collisions at $\sqrt{s}=2.76\text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 250-256.	4.1	87
132	Search for Higgs and Z boson decays to J/ψ or Y pairs in the four-muon final state in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134811.	4.1	12
133	A search for pair production of new light bosons decaying into muons in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 796, 131-154.	4.1	27
134	Search for Dark Matter Particles Produced in Association with a Top Quark Pair at $\sqrt{s}=13\text{ TeV}$. Physical Review Letters, 2019, 122, 011803.	7.8	12
135	Measurement and interpretation of differential cross sections for Higgs boson production at $\sqrt{s}=13\text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 260-266.	4.1	28
136	Observation of prompt J/ψ meson elliptic flow in high-multiplicity pPb collisions at $\sqrt{s}=2.76\text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 172-194.	4.1	21
137	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$. European Physical Journal C, 2019, 79, 421.	3.9	355
138	Measurement of VH production as a function of the vector-boson transverse momentum in 13 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
139	Search for supersymmetry in events with a photon, jets, V -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$. European Physical Journal C, 2019, 79, 444.	3.9	11
140	Measurements of the Higgs boson width and anomalous VH couplings from on-shell and off-shell production in the four-lepton final state. Physical Review D, 2019, 99, 092001.	4.1	69
141	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 126-136.	4.1	44
142	Measurement of the $t\bar{t}\gamma$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at $\sqrt{s}=13\text{ TeV}$. European Physical Journal C, 2019, 79, 368.	3.9	68
143	Performance of top-quark and W -boson tagging with ATLAS in Run 2 of the LHC. European Physical Journal C, 2019, 79, 1.	3.9	42
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434	Two-particle Bose-Einstein correlations in pp collisions at $\sqrt{s}=0.9$ and 7 TeV measured with the ATLAS detector. European Physical Journal C, 2015, 75, 466.	3.9	42
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436	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. European Physical Journal C, 2015, 75, 510.	3.9	138
437	Measurement of the inclusive jet cross-section in proton-proton collisions at $\sqrt{s}=7$ TeV using 4.5 fb ⁻¹ of data with the ATLAS detector. , 2015, 2015, 1.		3
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442	Measurement of differential $t\bar{t}$ production cross sections in pp collisions. Physical Review D, 2014, 90, .	4.7	29
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447	Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using $\sqrt{s}=8$ TeV proton-proton collision data. Journal of High Energy Physics, 2014, 2014, 1.	4.7	128
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449	Jet energy scale determination in the D0 experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 442-475.	1.6	24
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452	Measurement of the forward-backward asymmetry in top quark-antiquark production in pp collisions using the ATLAS detector. Physical Review Letters, 2014, 112, 111804.	4.7	64
453	Measurement of the forward-backward asymmetry in the distribution of leptons in pp collisions using the ATLAS detector. Physical Review Letters, 2014, 112, 111804.	4.7	81
454	Measurement of the forward-backward asymmetry in the distribution of leptons in pp collisions using the ATLAS detector. Physical Review Letters, 2014, 112, 161802.	4.7	21
455	Measurement of the forward-backward asymmetry in the distribution of leptons in pp collisions using the ATLAS detector. Physical Review Letters, 2014, 112, 161802.	4.7	34
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459	Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	66
460	Measurement of the differential cross section and the ratio R_{FB}^{τ} in pp collisions using the ATLAS detector. Physical Review Letters, 2014, 112, 111804.		

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472	Muon reconstruction and identification with the Run II DO detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 737, 281-294.	1.6	25
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474	Improved b quark jet identification at the DO experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 290-303.	1.6	18
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483	Electron and photon identification in the DO experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 750, 2014, 1.	1.6	20
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488	Evidence for s-channel single top quark production in $pp \rightarrow t + \text{jet}$ collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2013, 110, 241802.	4.1	35
489	cross section and the ratio of differential W boson plus jets production in $pp \rightarrow W + \text{jet}$ collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2013, 88, .	4.1	31
490	Search for a Higgs boson in the WZ final state in $pp \rightarrow WZ + \text{jet}$ collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2013, 88, .	4.7	33
491	Measurements of the ratio of the jet-to- W jet cross sections and high- p_T distributions of leptons produced in dilepton W boson production in $pp \rightarrow W + \text{jet}$ collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2013, 88, .	4.1	105
492	Search for a Higgs boson in diphoton final states with the DO detector in $pp \rightarrow H \rightarrow \gamma\gamma$ collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2013, 88, .	4.1	7
493	Search for a Higgs boson in diphoton final states with the DO detector in $pp \rightarrow H \rightarrow \gamma\gamma$ collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2013, 88, .	4.7	8
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496	Search for the Higgs boson in lepton, tau, and jets final states. Physical Review D, 2013, 88, .	4.7	5
497	Measurement of leptonic asymmetries and top-quark polarization in $t\bar{t}$ production. Physical Review D, 2013, 87, .	4.7	33
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499	Search for Higgs boson production in oppositely charged dilepton and missing energy final states in $pp \rightarrow H \rightarrow \ell\ell + \cancel{E}_T$ collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2013, 88, .	4.7	31
500	Search for Higgs boson production in oppositely charged dilepton and missing energy final states in $pp \rightarrow H \rightarrow \ell\ell + \cancel{E}_T$ collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2013, 88, .	4.7	6
501	Search for the rare decay $B_s^0 \rightarrow \tau^+ \tau^- + \cancel{E}_T$. Physical Review D, 2013, 87, .	4.7	14
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503	Search for Higgs boson production in $pp \rightarrow H \rightarrow \tau\tau + \text{jet}$ collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2013, 88, .	4.7	6
504	Measurement of direct CP violation parameters in $B^0 \rightarrow \pi^+ \pi^-$ and $B^0 \rightarrow \pi^+ \pi^-$ decays with 10.4 fb $^{-1}$ of Tevatron data. Physical Review Letters, 2013, 110, 241801.	7.8	15

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506	search for the standard model Higgs boson in the four lepton final state in $pp \rightarrow \tau^+\tau^- + \text{jets}$ collisions. Physical Review D, 2013, 88, .	4.7	10
507	Combined search for the Higgs boson with the D0 experiment. Physical Review D, 2013, 88, .	4.7	18
508	Measurement of the Semileptonic Charge Asymmetry using $B_s \rightarrow D_s \tau^+ \nu_\tau$ Decays. Physical Review Letters, 2013, 110, 011801.	7.8	38
509	Search for charged massive long-lived particles at $\sqrt{s}=1.96$ TeV. Physical Review D, 2013, 87, .	4.7	7
510	Measurement of the W Boson Mass with the D0 Detector. Physical Review Letters, 2012, 108, 151804.	7.8	104
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512	$pp \rightarrow \tau^+\tau^-$ Collisions at $\sqrt{s}=1.96$ TeV. Physical Review Letters, 2012, 108, 021801.	7.8	27
513	Search for $Z \rightarrow \tau^+\tau^-$ events with large missing transverse energy in $pp \rightarrow \tau^+\tau^-$ collisions at $\sqrt{s}=1.96$ TeV. Physical Review D, 2012, 86, .	4.7	7
514	Search for W associated production in $pp \rightarrow \tau^+\tau^-$ collisions at $\sqrt{s}=1.96$ TeV. Physical Review D, 2012, 86, .	4.7	6
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516	Search for the Standard Model Higgs Boson in Associated W Production in $pp \rightarrow \tau^+\tau^-$ Collisions with the D0 Detector. Physical Review Letters, 2012, 109, 121804.	7.8	14
517	Search for Violation of Lorentz Invariance in Top Quark Pair Production and Decay. Physical Review Letters, 2012, 108, 261603.	7.8	32
518	Search for Universal Extra Dimensions in $pp \rightarrow \tau^+\tau^-$ Collisions. Physical Review Letters, 2012, 108, 131802.	7.8	6
519	Measurement of the top-quark mass in $pp \rightarrow \tau^+\tau^-$ collisions using events with two leptons. Physical Review D, 2012, 86, . Measurement of the $W \rightarrow Z$ and	4.7	19
520	$W \rightarrow Z$ production cross sections using leptonic final states in $pp \rightarrow \tau^+\tau^-$ collisions at $\sqrt{s}=1.96$ TeV. Physical Review Letters, 2012, 108, 131802.	4.7	28
521	Search for $W \rightarrow Z$ resonance in $pp \rightarrow \tau^+\tau^-$ collisions at $\sqrt{s}=1.96$ TeV. Physical Review Letters, 2012, 108, 131802.	4.7	30
522	Search for the Standard Model Higgs Boson in $Z \rightarrow \tau^+\tau^-$ Production with the D0 Detector in $pp \rightarrow \tau^+\tau^-$ collisions at $\sqrt{s}=1.96$ TeV. Physical Review Letters, 2012, 109, 121803.	7.8	16

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524	Search for Charged Massive Long-Lived Particles. Physical Review Letters, 2012, 108, 121802.	7.8	21
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527	Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2012, 85, .	4.7	4
528	Combined Search for the Standard Model Higgs Boson Decaying to $b\bar{b}$ Using the D0 Run II Data Set. Physical Review Letters, 2012, 109, 121802.	7.8	32
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530	Measurement of the C and P violating phase in the flavor-tagged decay $B^0 \rightarrow \pi^+ \pi^-$. Physical Review D, 2012, 85, .	4.7	75
531	Measurement of the B^0 lifetime in the exclusive decay $B^0 \rightarrow \pi^+ \pi^-$ collisions at $\sqrt{s} = 1.96$ TeV. Physical Review D, 2012, 85, .	4.7	19
532	Measurement of the relative branching ratio of $B^0 \rightarrow \pi^+ \pi^-$ and $B^0 \rightarrow \pi^+ \pi^0$. Physical Review D, 2012, 85, .	4.7	33
533	Model independent search for new phenomena in pp collisions at $\sqrt{s} = 1.96$ TeV. Physical Review D, 2012, 85, .	4.7	7
534	Measurement of the Z boson production and limits on anomalous Z boson production. Physical Review D, 2012, 85, .	4.7	21
535	Improved determination of the width of the top quark. Physical Review D, 2012, 85, .	4.7	56
536	Combination of searches for anomalous top quark couplings with Z boson production. Physical Review D, 2012, 85, .	4.1	23
537	Measurement of the proton production differential cross section in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2012, 85, .	4.1	32
538	Search for the standard model Higgs boson in tau lepton final states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 237-245.	4.1	9
539	Measurement of $\tilde{\Gamma}(2S)$ meson production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 2100.	3.9	83
540	Search for the standard model Higgs boson in the 4ℓ final state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 237-245.	4.1	21

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542	Search for anomalous trilinear gauge boson couplings from WW, WZ and W γ production in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 108, 181803.	4.1	33
543	Measurements of WW and WZ Production in W+jets Final States in pp Collisions. Physical Review Letters, 2012, 108, 181803.	7.8	23
544	Inclusive W and Z production in the forward region at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	71
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546	Search for pair production of the scalar top quark in muon+tau final states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 578-586.	4.1	22
547	Search for pair production of the scalar top quark in muon+tau final states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 578-586.	4.1	16
548	Search for pair production of the scalar top quark in muon+tau final states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 578-586.	4.1	13
549	Observation of X(3872) production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	153
550	Measurements of single top quark production cross sections and $ V_{tb} $ in pp collisions at $\sqrt{s} = 1.96$ TeV. Physical Review D, 2011, 84, .	4.7	31
551	Measurement of the W boson helicity in top quark decays using 5.4 fb $^{-1}$ of pp collision data. Physical Review D, 2011, 83, .	4.7	35
552	Measurement of $\sin^2 2\theta_{13}$ and Z-light quark couplings using the forward-backward charge asymmetry in pp collision events with $L = 5.0$ fb $^{-1}$ at $\sqrt{s} = 1.96$ TeV. Physical Review D, 2011, 84, .	4.7	23
553	Precise measurement of the top-quark mass from Z production cross section in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2011, 84, .	4.7	35
554	Measurement of the top-quark mass from Z production cross section in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2011, 84, .	4.7	13
555	Search for first generation leptoquark pair production in the electron + missing energy + jets final state. Physical Review D, 2011, 84, .	4.7	16
556	Measurement of the anomalous like-sign dimuon charge asymmetry with Z production cross section in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2011, 84, .	4.7	91
557	Direct measurement of the mass difference between top and antitop quarks. Physical Review D, 2011, 84, .	4.7	26
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560	Measurement of the $W \rightarrow e\bar{\nu}_e$ production rates as a function of jet transverse momentum in $pp \rightarrow W + \text{jets}$ collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	4.1	48
561	Measurements of inclusive $W \rightarrow e\bar{\nu}_e$ production rates as a function of jet transverse momentum in $pp \rightarrow W + \text{jets}$ collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	4.1	13
562	production rates as a function of jet transverse momentum in $pp \rightarrow W + \text{jets}$ collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	4.1	35
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564	Measurement of J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	4.1	42
565	Measurement of the $WZ\gamma$ cross section and limits on anomalous triple gauge couplings in $pp \rightarrow WZ\gamma$ collisions at $\sqrt{s} = 1.96$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 67-73.	4.1	23
567	Search for pair production of the scalar top quark in the electron+muon final state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 321-327.	4.1	60
568	Search for pair production of the scalar top quark in the electron+muon final state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 321-327.	4.1	18
569	Search for neutral Higgs bosons in the multi-jet topology in $pp \rightarrow H + \text{jets}$ collisions at $\sqrt{s} = 1.96$ TeV. Physical Review Letters, 2011, 106, 011804.	4.1	16
570	Search for $W \rightarrow e\bar{\nu}_e$ production rates as a function of jet transverse momentum in $pp \rightarrow W + \text{jets}$ collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	4.1	32
571	Search for $W \rightarrow e\bar{\nu}_e$ production rates as a function of jet transverse momentum in $pp \rightarrow W + \text{jets}$ collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	4.1	44
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573	Bounds on an Anomalous Dijet Resonance in $W + \text{jets}$ Production in $pp \rightarrow W + \text{jets}$ Collisions at $\sqrt{s} = 1.96$ TeV. Physical Review Letters, 2011, 107, 011804.	7.8	55
574	Search for the Standard Model Higgs Boson in the $pp \rightarrow H + \text{jets}$ decay channel. Physical Review Letters, 2011, 106, 011804.	7.8	18
575	Search for $W \rightarrow e\bar{\nu}_e$ production rates as a function of jet transverse momentum in $pp \rightarrow W + \text{jets}$ collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	7.8	27
576	Measurement of the ratio of inclusive cross sections $\sigma(pp \rightarrow Z + b\bar{b} + \text{quark jet}) / \sigma(pp \rightarrow Z + \text{jet})$ at $\sqrt{s} = 1.96$ TeV. Physical Review D, 2011, 83, .	4.7	14

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578	Azimuthal decorrelations and multiple parton interactions in l^+l^- events $\frac{d^2\sigma}{d\Omega d\phi}(\text{pp} \rightarrow l^+l^- + \text{jets})$	4.7	22
579	Measurement of color flow in $t\bar{t}$ events from $pp \rightarrow t\bar{t}$ collisions at $\sqrt{s}=1.96$ TeV. Physical Review D, 2011, 83, .	4.7	15
580	Search for associated Higgs boson production using like charge dilepton events in $pp \rightarrow t\bar{t}$ collisions at $\sqrt{s}=1.96$ TeV. Physical Review D, 2011, 84, .	4.7	13
581	Measurement of the production fraction times branching fraction $\sigma(\text{pp} \rightarrow t\bar{t}) \times \text{BR}(t \rightarrow bW)$ $\sigma(\text{pp} \rightarrow t\bar{t}) \times \text{BR}(t \rightarrow bW)$		

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596	Search for flavor changing neutral currents via quark-gluon couplings in single top quark production using 2.3 fb^{-1} of $\sqrt{s}=1.96$ TeV collisions. Physical Review Letters, 2010, 105, 221802.	4.1	48
597	Dependence of the $\tau \rightarrow \mu \nu \tau \nu$ branching ratio on the τ lepton mass. Physical Review Letters, 2010, 105, 221802.	4.1	39
598	Search for the rare decay $B \rightarrow \mu^+ \mu^-$. Physical Review Letters, 2010, 105, 221802.	4.1	33
599	Measurement of the dijet invariant mass cross section in $\sqrt{s}=1.96$ TeV collisions. Physical Review Letters, 2010, 105, 221802.	4.1	46
600	Search for the rare decay $B \rightarrow \mu^+ \mu^-$. Physical Review Letters, 2010, 105, 221802.	4.1	26
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