Jaroslava SchovancovÃ¡

List of Publications by Year
in descending order

398 papers	22,362 citations	9756 73 h-index	16127 124 g-index
417 all docs	417 docs citations	417 times ranked	9276 citing authors

#	Article	IF	Citations
1	The ATLAS Simulation Infrastructure. European Physical Journal C, 2010, 70, 823-874.	1.4	1,187
2	Performance of the ATLAS trigger system in 2015. European Physical Journal C, 2017, 77, 317.	1.4	489
3	Muon reconstruction performance of the ATLAS detector in protonâ€“proton collision data at $$sqrt{s}$$ s =13ÂTeV. European Physical Journal C, 2016, 76, 292.	1.4	453
4	Improved luminosity determination in pp collisions at $sqrt {s} = 7 mathrm{TeV}$ using the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 2518.	1.4	362
5	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. European Physical Journal C, 2017, 77, 490.	1.4	325
6	Performance of pile-up mitigation techniques for jets in $$pp$$ p p collisions at $$sqrt{s}=8$$. European Physical Journal C, 2016, 76, 581.	1.4	298
7	Luminosity determination in pp collisions at $$sqrt{s}$$ s = 8 TeV using the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 653.	1.4	279
8	Measurements of the Higgs boson production and decay rates and coupling strengths using pp collision data at $$sqrt{s}=7$$ s = 7 and 8ÂTeV in the ATLAS experiment. European Physical Journal C, 2016, 76, 6.	1.4	274
9	Jet energy measurement and its systematic uncertainty in protonâ€“proton collisions at $$sqrt{s}=7$$ s = 7 ÂTeV with the ATLAS detector. European Physical Journal C, 2015, 75, 17.	1.4	268
10	Performance of the ATLAS Trigger System in 2010. European Physical Journal C, 2012, 72, 1.	1.4	259
11	Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. European Physical Journal C, 2012, 72, 1.	1.4	248
12	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $$sqrt{s}=8~$$ s = 8 TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 299.	1.4	238
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19	Search for an additional, heavy Higgs boson in the $$Hightarrow ZZ$$ H â†' Z Z decay channel at $$sqrt{s} = 8;ext{ TeV }$$ s = 8 TeV in $$pp$$ p p collision data with the ATLAS detector. European Physical Journal C, 2016, 76, 45.	1.4	197
20	Performance of missing transverse momentum reconstruction with the ATLAS detector using protonâ€"proton collisions at $$sqrt{s}=13~hbox {TeV}$$ s = 13 TeV. European Physical Journal C, 2018, 78, 903.	1.4	181
21	Luminosity determination in pp collisions at $sqrt{s} = 7$ TeV using the ATLAS detector at the LHC. European Physical Journal C, 2011, 71, 1.	1.4	179
22	Measurement of the distributions of event-by-event flow harmonics in lead-lead collisions at $ sqrt{{{s_{NN }}}} $ = 2.76 TeV with the ATLAS detector at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	1.6	175
23	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. European Physical Journal C, 2015, 75, 476.	1.4	174
24	Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. European Physical Journal C, 2014, 74, 1.	1.4	172
25	Measurement of the transverse momentum and $$phi ^*_{eta }$$ Ï• Î· â^— distributions of Drellâ€"Yan lepton pairs in protonâ€"proton collisions at $$sqrt{s}=8$$ s = 8 ÂTeV with the ATLAS detector. European Physical Journal C, 2016, 76, 291.	1.4	154
26	Measurement of the top quark-pair production cross section withÂATLAS in pp collisions at $sqrt{s}=7$ ÂTeV. European Physical Journal C, 2011, 71, 1.	1.4	146
27	Search for direct production of charginos, neutralinos and sleptons in final states with two leptons and missing transverse momentum in pp collisions at $ sqrt{s} $ = 8TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	145
28	Jet reconstruction and performance using particle flow with the ATLAS Detector. European Physical Journal C, 2017, 77, 466.	1.4	145
29	Precision measurement and interpretation of inclusive $$W^+$$ W + , $$W^-$$ W -. European Physical Journal C, 2017, 77, 367.	1.4	145
30	Measurement of the $$toverline{t}$$ t t Â¯ production cross-section using $$emu $$ e Î¼ events with $$b$$ b -tagged jets in $$pp$$ p p collisions at $$sqrt{s}=7$$ s = 7 and 8ÂTeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3109.	1.4	143
31	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. European Physical Journal C, 2015, 75, 510.	1.4	138
32	Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	137
33	Measurement of the Z/Î³ * boson transverse momentum distribution in pp collisions at s = 7 $$ sqrt{s}=7 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	131
34	ATLAS b-jet identification performance and efficiency measurement with $$t{ar{t}}$$ events in pp collisions at $$sqrt{s}=13$$ÂTeV. European Physical Journal C, 2019, 79, 1.	1.4	130
35	Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using s = 8 $$ sqrt{s}=8 $$ TeV proton-proton collision data. Journal of High Energy Physics, 2014, 2014, 1.	1.6	128
36	Search for charged Higgs bosons decaying via H Â±â€‰â†'â€‰Ï„Î½ in $ toverline t $ events using pp collision data at $ sqrt {s} = 7;TeV $ with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	126

#	Article	IF	Citations
37	Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $$varvec{bar{b}}$$ b b Â¯ in $$varvec{pp}$$ p p collisions at $$sqrt{mathbf{s}}= varvec{8{{,mathrm TeV}}}$$ s = 8 T e V with the ATLAS detector. European Physical Journal C, 2015, 75, 349.	1.4	123
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#	Article	IF	Citations
55	Search for Higgs boson pair production in the $$bar{b}bar{b}$$ b b Â¯ b b Â¯ final state from pp collisions at $$sqrt{s} = 8$$ s = 8 TeVwith the ATLAS detector. European Physical Journal C, 2015, 75, 412.	1.4	90
56	Search for the b b Â¯ $$ boverline{b} $$ decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	89
57	Jet mass and substructure of inclusive jets in $ sqrt {s} = 7;{ext{TeV}} $ pp collisions with the ATLAS experiment. Journal of High Energy Physics, 2012, 2012, 1.	1.6	88
58	Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in $ sqrt{s} $ = 8 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	88
59	Electron efficiency measurements with the ATLAS detector using 2012 LHC protonâ€“proton collision data. European Physical Journal C, 2017, 77, 195.	1.4	87
60	Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at $$ sqrt{s}=8 $$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	84
61	Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at s = 8 $$ sqrt{s}=8 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	82
62	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.	1.4	82
63	ATLAS search for new phenomena in dijet mass and angular distributions using pp collisions at $ sqrt{s}=7 $TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	81
64	Measurement of the prompt J/ $$psi $$ Ï^ pair production cross-section in pp collisions at $$sqrt{s} = 8$$ s = 8 ÂTeV with the ATLAS detector. European Physical Journal C, 2017, 77, 76.	1.4	81
65	Search for dark matter at $$sqrt{s}=13~mathrm{TeV}$$ s = 13 TeV in final states containing an energetic photon and large missing transverse momentum with the ATLAS detector. European Physical Journal C, 2017, 77, 393.	1.4	80
66	Search for production of $$WW/WZ$$ W W / W Z resonances decaying to a lepton, neutrino and jets in $$pp$$ p p collisions at $$sqrt{s}=8$$ s = 8 ÂTeV with the ATLAS detector. European Physical Journal C, 2015, 75, 209.	1.4	79
67	Search for lepton-flavour-violating decays of the Higgs and Z bosons with the ATLAS detector. European Physical Journal C, 2017, 77, 70.	1.4	79
68	Search for high-mass diboson resonances with boson-tagged jets in proton-proton collisions at s = 8 $$ sqrt{s}=8 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1-39.	1.6	78
69	Light-quark and gluon jet discrimination in $$pp$$ p p collisions at $$sqrt{s}=7mathrm { TeV}$$ s = 7 TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3023.	1.4	77
70	Search for dark matter in events with heavy quarks and missing transverse momentum in $$pp$$ p p collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 92.	1.4	77
71	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC protonâ€“proton collision data at $$sqrt{s} = 13$$Â$$ext {TeV}$$. European Physical Journal C, 2019, 79, 1.	1.4	77
72	Performance of the ATLAS track reconstruction algorithms in dense environments in LHC Run 2. European Physical Journal C, 2017, 77, 673.	1.4	75

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73	Search for resonant diboson production in the $$mathrm {ell ell }qar{q}$$ â„“ â„“ q q Â¯ final state in $$pp$$ p p collisions at $$sqrt{s} = 8$$ s = 8 ÂTeV with the ATLAS detector. European Physical Journal C, 2015, 75, 69.	1.4	74
74	Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at $sqrt{s}=7mbox{~TeV}$ with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	1.4	73
75	Measurement of the production cross section of jets in association with a Z boson in pp collisions at $ sqrt{s}=7 $ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	73
76	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run-1 data. European Physical Journal C, 2016, 76, 666.	1.4	73
77	Search for squarks and gluinos in final states with jets and missing transverse momentum at $$sqrt{s}$$ s =13 $${mathrm{TeV}}$$ TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 392.	1.4	73
78	Search for supersymmetry at $$sqrt{s}=13$$ s = 13 ÂTeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. European Physical Journal C, 2016, 76, 259.	1.4	72
79	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at $ sqrt{s}=8 $ TeV proton-proton collisions using the ATLAS experiment. Journal of High Energy Physics, 2013, 2013, 1.	1.6	71
80	Search for production of vector-like quark pairs and of four top quarks in the lepton-plus-jets final state in pp collisions at s = 8 $$ sqrt{s}=8 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	71
81	Search for a high-mass Higgs boson decaying to a W boson pair in pp collisions at s = 8 $$ sqrt{s}=8 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	71
82	Reconstruction of primary vertices at the ATLAS experiment in Run 1 protonâ€“proton collisions at the LHC. European Physical Journal C, 2017, 77, 332.	1.4	71
83	Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at $$sqrt{s}=8$$ s = 8 $$,hbox {TeV}$$ TeV. European Physical Journal C, 2015, 75, 303.	1.4	70
84	Search for resonances in diphoton events at s = 13 $$ sqrt{s}=13 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	70
85	Search for charged Higgs bosons decaying via H Â± â† ’ Ï„ Â± Î½ in fully hadronic final states using pp collision data at s $$ sqrt{s} $$ = 8 TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	69
86	Measurement of flow harmonics with multi-particle cumulants in Pb+Pb collisions at $$sqrt{s_{mathrm {NN}}}=2.76$$ s NN = 2.76 ÂTeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3157.	1.4	68
87	Measurement of charged-particle spectra in Pb+Pb collisions at s N N = 2.76 $$ sqrt{s_{mathrm{NN}}}=2.76 $$ TeV with the ATLAS detector at the LHC. Journal of High Energy Physics, 2015, 2015, 1.	1.6	67
88	Search for direct pair production of a chargino and a neutralino decaying to the 125ÂGeV Higgs boson in $$sqrt{varvec{s}} = 8$$ s = 8 ÂTeV $$varvec{pp}$$ p p collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 208.	1.4	67
89	Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in s $$ sqrt{s} $$ = 8 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	66
90	A search for t t Â¯ $$ toverline{t} $$ resonances using lepton-plus-jets events in proton-proton collisions at s = 8 $$ sqrt{s}=8 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	66

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91	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $sqrt {s}$ = 7 TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1.	1.6	65
92	Measurement of the W â†' â„“Î½ and Z/Î³ * â†' â„“â„“ production cross sections in proton-proton collisions at $ sqrt{s} = 7;{ext{TeV}} $ with the ATLAS detector. Journal of High Energy Physics, 2010, 2010, 1.	1.6	64
93	Measurement of isolated-photon pair production in pp collisions at $ sqrt{s}=7;TeV $ with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	64
94	Observation and measurements of the production of prompt and non-prompt $$varvec{ext {J}uppsi }$$ J Ïˆ mesons in association with a $$varvec{Z}$$ Z boson in $$varvec{pp}$$ p p collisions at $$varvec{sqrt{s}= 8,ext {TeV}}$$ s = 8 TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 229.	1.4	64
95	Evidence for the H â†' b b Â¯ $$ Ho boverline{b} $$ decay with the ATLAS detector. Journal of High Energy Physics, 2017, 2017, 1.	1.6	64
96	Jet energy scale and resolution measured in protonâ€“proton collisions at $$sqrt{s}=13$$ÂTeV with the ATLAS detector. European Physical Journal C, 2021, 81, 1.	1.4	64
97	Measurement of the differential cross-sections of prompt and non-prompt production of $$J/psi $$ J / Ïˆ and $$psi (2mathrm {S})$$ Ïˆ (2 S) in pp collisions at $$sqrt{s} = 7$$ s = 7 and 8ÂTeV with the ATLAS detector. European Physical Journal C, 2016, 76, 283.	1.4	63
98	Performance of the ATLAS muon trigger in pp collisions at $$sqrt{s}=8$$ s = 8 TeV. European Physical Journal C, 2015, 75, 120.	1.4	62
99	Identification of boosted, hadronically decaying W bosons and comparisons with ATLAS data taken at $$sqrt{s} = 8$$ s = 8 ÂTeV. European Physical Journal C, 2016, 76, 154.	1.4	62
100	Measurement of ZZ production in pp collisions at $ sqrt{s}=7 $ TeV and limits on anomalous ZZZ and ZZÎ³ couplings with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	61
101	Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at $sqrt{s} = 7 mbox{TeV}$. European Physical Journal C, 2013, 73, 1.	1.4	61
102	Charged-particle distributions at low transverse momentum in $$sqrt{s} = 13$$ s = 13 ÂTeV pp interactions measured with the ATLAS detector at the LHC. European Physical Journal C, 2016, 76, 502.	1.4	61
103	Performance of algorithms that reconstruct missing transverse momentum in $$sqrt{s}$$ s = 8 TeV protonâ€“proton collisions in the ATLAS detector. European Physical Journal C, 2017, 77, 241.	1.4	61
104	Prompt and non-prompt $$J/psi $$ J / Ïˆ and $$psi (2mathrm {S})$$ Ïˆ (2 S) suppression at high transverse momentum in $$5.02~mathrm {TeV}$$ 5.02 TeV Pb+Pb collisions with the ATLAS experiment. European Physical Journal C, 2018, 78, 762.	1.4	61
105	Measurement of multi-jet cross sections in protonâ€“proton collisions at a 7 TeV center-of-mass energy. European Physical Journal C, 2011, 71, 1.	1.4	60
106	Summary of the searches for squarks and gluinos using s = 8 $$ sqrt{s}=8 $$ TeV pp collisions with the ATLAS experiment at the LHC. Journal of High Energy Physics, 2015, 2015, 1.	1.6	60
107	Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with s = 8 $$ sqrt{s}=8 $$ TeV pp collisions using the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	60
108	Search for a new resonance decaying to a W or Z boson and a Higgs boson in the $$ell ell / ell u / u u + b ar{b}$$ â„“â„“ / â„“Î½ / Î½Î½ + b b Â¯ final states with the ATLAS detector. European Physical Journal C, 2015, 75, 263.	1.4	60

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109	Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in protonâ€“lead collisions at $$sqrt{s_{_ext {NN}}} = 5.02$$ s NN = 5.02 ÂTeV with the ATLAS detector. European Physical Journal C, 2016, 76, 199.	1.4	60
110	Measurement of W Â± Z production in proton-proton collisions at $sqrt{s}=7~mbox{TeV}$ with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	1.4	59
111	Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at $ sqrt{s}=7 $ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	59
112	Measurement of the production of a W boson in association with a charm quark in pp collisions at $ sqrt{s} $ = 7 TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	59
113	Search for direct top-squark pair production in final states with two leptons in pp collisions at $ sqrt{s} $ = 8 TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	59
114	Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in protonâ€“proton collisions at $$sqrt{s}=7$$ s = 7 ÂTeV in 2010. European Physical Journal C, 2014, 74, 3034.	1.4	58
115	Measurement of the W boson polarization in top quark decays with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	57
116	Measurement of the jet fragmentation function and transverse profile in protonâ€“proton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	1.4	56
117	Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $$sqrt{s}=8$$ s = 8 ÂTeV pp collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 318.	1.4	56
118	Fiducial, total and differential cross-section measurements of t-channel single top-quark production in pp collisions at 8ÂTeV using data collected by the ATLAS detector. European Physical Journal C, 2017, 77, 531.	1.4	56
119	Search for direct top squark pair production in events with a $$Z$$ Z boson, $$b$$ b -jets and missing transverse momentum in $$sqrt{s}=8$$ s = 8 TeV $$pp$$ p p collisions with the ATLAS detector. European Physical Journal C, 2014, 74, 2883.	1.4	55
120	Summary of the ATLAS experimentâ€™s sensitivity to supersymmetry after LHC Run 1 â€” interpreted in the phenomenological MSSM. Journal of High Energy Physics, 2015, 2015, 1.	1.6	55
121	Search for pair production of Higgs bosons in the $$ boverline{b}boverline{b} $$ final state using proton-proton collisions at $$ sqrt{s}=13 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2019, 2019, 1.	1.6	55
122	Search for a heavy top-quark partner in final states with two leptons with the ATLAS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	1.6	54
123	Search for high-mass resonances decaying to dilepton final states in pp collisions at $ sqrt{s}=7 $ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	1.6	54
124	Measurements of fiducial cross-sections for $$tar{t}$$ t t Â¯ production with one or two additional b-jets in pp collisions at $$sqrt{s}$$ s =8 TeVÂusing the ATLAS detector. European Physical Journal C, 2016, 76, 11.	1.4	54
125	Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in 4.7 fbâ^'1 of $ sqrt {s} = 7;TeV $ proton-proton collisions. Journal of High Energy Physics, 2012, 2012, 1.	1.6	53
126	Measurement of the cross-section for W boson production in association with b-jets in pp collisions at $ sqrt{s}=7 $ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	53

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127	Search for the neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at $ sqrt{s}=7 $ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	52
128	Performance of jet substructure techniques for large-R jets in proton-proton collisions at $ sqrt{s}=7 $ TeV using the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	1.6	52
129	Search for lepton-flavour-violating H â†' Î¼Ï„ decays of the Higgs boson with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	1.6	52
130	Measurement of the top quark mass in the $$tar{t}ightarrow ext{ lepton+jets } $$ t t Â¯ â†' lepton+jets and $$tar{t}ightarrow ext{ dilepton } $$ t t Â¯ â†' dilepton channels using $$sqrt{s}=7$$ s = 7 Â $${mathrm { TeV}}$$ TeV ATLAS data. European Physical Journal C, 2015, 75, 330.	1.4	52
131	Measurement of the top quark mass with the template method in the $tar{t} omathrm{lepton}+mathrm{jets}$ channel using ATLAS data. European Physical Journal C, 2012, 72, 2046.	1.4	51
132	Search for minimal supersymmetric standard model Higgs Bosons HÂ/ÂA and for a $$Z^{prime }$$ Z â€² boson in the $$au au $$ Ï„Ï„ final state produced in pp collisions at $$sqrt{s}= 13$$ s = 13 TeV with the ATLAS detector. European Physical Journal C, 2016, 76, 585.	1.4	51
133	Measurement of the charged-particle multiplicity inside jets from $$sqrt{s}=8$$ s = 8 $${mathrm{TeV}}$$ TeV Âpp collisions with the ATLAS detector. European Physical Journal C, 2016, 76, 322.	1.4	51
134	Reconstruction of hadronic decay products of tau leptons with the ATLAS experiment. European Physical Journal C, 2016, 76, 295.	1.4	50
135	Search for direct top squark pair production in final states with two leptons in $$sqrt{s} = 13$$ s = 13 TeV pp collisions with the ATLAS detector. European Physical Journal C, 2017, 77, 898.	1.4	50
136	Search for invisible decays of a Higgs boson using vector-boson fusion in pp collisions at s = 8 $$ sqrt{s}=8 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	49
137	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.	1.6	49
138	Search for pair production of massive particles decaying into three quarks with the ATLAS detector in $ sqrt{s}=7;mathrm{TeV} $ pp collisions at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	1.6	48
139	Search for contact interactions and large extra dimensions in the dilepton channel using protonâ€“proton collisions at $$sqrt{s}~=$$ s = Â8ÂTeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3134.	1.4	48
140	Test of CP invariance in vector-boson fusion production of the Higgs boson using the Optimal Observable method in the ditau decay channel with the ATLAS detector. European Physical Journal C, 2016, 76, 658.	1.4	48
141	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fbâ^'1 of $$ sqrt{s}=13 $$ TeV pp collision data with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	48
142	Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at s = 8 $$ sqrt{s}=8 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	47
143	Measurements of the production cross section of a $$Z$$ Z boson in association with jets in pp collisions at $$sqrt{s} = 13$$ s. European Physical Journal C, 2017, 77, 361.	1.4	47
144	Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in $$pp$$ p p collisions at $$sqrt{s}=7$$ s = 7 TeV with the ATLAS detector. European Physical Journal C, 2014, 74, 3195.	1.4	46

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145	Study of the rare decays of $$B^0_s$$ B s 0 and $$B^0$$ B 0 into muon pairs from data collected during the LHC Run 1 with the ATLAS detector. European Physical Journal C, 2016, 76, 513.	1.4	46
146	Measurement of the Higgs boson coupling properties in the H â†' ZZâˆ— â†' 4â„“ decay channel at $$ sqrt{s}=13 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2018, 2018, 1.	1.6	46
147	Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. European Physical Journal C, 2019, 79, 1.	1.4	46
148	Search for charged Higgs bosons decaying into a top quark and a bottom quark at $$ sqrt{mathrm{s}} $$ = 13 TeV with the ATLAS detector. Journal of High Energy Physics, 2021, 2021, 1.	1.6	46
149	Measurement of the cross section for top-quark pair production in pp collisions at $sqrt {s} = {7},{ext{TeV}}$ with the ATLAS detector using final states with two high-p T leptons. Journal of High Energy Physics, 2012, 2012, 1.	1.6	45
150	Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in protonâ€“proton collisions at $sqrt{s} = 7 mbox{TeV}$. European Physical Journal C, 2013, 73, 1.	1.4	45
151	Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 1.	1.4	45
152	Measurement of the $tar{t}$ production cross section in the tau + jets channel using the ATLAS detector. European Physical Journal C, 2013, 73, 2328.	1.4	45
153	Measurements of fiducial and differential cross sections for Higgs boson production in the diphoton decay channel at s = 8 $$ sqrt{s}=8 $$ TeV with ATLAS. Journal of High Energy Physics, 2014, 2014, 1.	1.6	45
154	Measurement of differential production cross-sections for a Z boson in association with b-jets in 7 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	45
155	Search for supersymmetry at $sqrt{s}$ = 8 TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	45
156	Search for new particles in events with one lepton and missing transverse momentum in pp collisions at s $$ sqrt{s} $$ = 8 TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	1.6	45
157	Measurement of the inclusive isolated prompt photon cross section in pp collisions at s = 8 $$ sqrt{s}=8 $$ TeV with the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	44
158	Search for the Standard Model Higgs boson in the Hâ€‰â†'â€‰Ï„+ Ï„− decay mode in $ sqrt {s} = 7,{mathrm{TeV}} $ pp collisions with ATLAS. Journal of High Energy Physics, 2012, 2012, 1.	1.6	43
159	Search for charged Higgs bosons in the H Â± â†' tb decay channel in pp collisions at s = 8 $$ sqrt{s}=8 $$ TeV using the ATLAS detector. Journal of High Energy Physics, 2016, 2016, 1.	1.6	43
160	Search for single production of vector-like quarks decaying into Wb in pp collisions at $$sqrt{s} = 8$$ s = 8 ÂTeV with the ATLAS detector. European Physical Journal C, 2016, 76, 442.	1.4	43
161	Search for single top-quark production via flavour-changing neutral currents at 8ÂTeV with the ATLAS detector. European Physical Journal C, 2016, 76, 55.	1.4	43
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168	Measurement of the production and lepton charge asymmetry of $$W$$ W bosons in Pb+Pb collisions at $$mathbf {sqrt{mathbf {s}_{mathrm {mathbf {NN}}}}=2.76;TeV}$$ s NN = 2.76 TeV with the ATLAS detector. European Physical Journal C, 2015, 75, 23.	1.4	41
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