

Fernando Barreiro

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ext. papers

60,395
ext. citations

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4.08
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#	Paper	IF	Citations
1299	Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 716, 1-29	4.2	5271
1298	The ATLAS Experiment at the CERN Large Hadron Collider. <i>Journal of Instrumentation</i> , 2008 , 3, S08003-S08003	1273	
1297	The ATLAS Simulation Infrastructure. <i>European Physical Journal C</i> , 2010 , 70, 823-874	4.2	817
1296	Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , 2015 , 114, 191803	7.4	709
1295	Observation of a centrality-dependent dijet asymmetry in lead-lead collisions at $\sqrt{s(NN)}=2.76$ TeV with the ATLAS detector at the LHC. <i>Physical Review Letters</i> , 2010 , 105, 252303	7.4	458
1294	Combined measurement and QCD analysis of the inclusive e^+p scattering cross sections at HERA. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1	5.4	370
1293	Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	364
1292	Observation of associated near-side and away-side long-range correlations in $\sqrt{s(NN)}=5.02$ TeV proton-lead collisions with the ATLAS detector. <i>Physical Review Letters</i> , 2013 , 110, 182302	7.4	333
1291	Measurement of the azimuthal anisotropy for charged particle production in $sNN=2.76$ TeV lead-lead collisions with the ATLAS detector. <i>Physical Review C</i> , 2012 , 86,	2.7	313
1290	Combined search for the Standard Model Higgs boson using up to 4.9 fb ⁻¹ of pp collision data at $s=7$ TeV with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 710, 49-66	4.2	301
1289	Improved luminosity determination in collisions at [Formula: see text] using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2013 , 73, 2518	4.2	276
1288	Performance of the ATLAS trigger system in 2015. <i>European Physical Journal C</i> , 2017 , 77, 317	4.2	272
1287	Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 726, 88-119	4.2	268
1286	Evidence for the spin-0 nature of the Higgs boson using ATLAS data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 726, 120-144	4.2	267
1285	Muon reconstruction performance of the ATLAS detector in proton-proton collision data at [Formula: see text]=13TeV. <i>European Physical Journal C</i> , 2016 , 76, 292	4.2	263
1284	Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC. <i>New Journal of Physics</i> , 2011 , 13, 053033	2.9	259
1283	Observation of events with a large rapidity gap in deep inelastic scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993 , 315, 481-493	4.2	233

1282	Performance of the ATLAS Trigger System in 2010. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	232
1281	Construction and beam test of the ZEUS forward and rear calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1991 , 309, 101-142	1.2	223
1280	Performance of missing transverse momentum reconstruction in proton-proton collisions at ($\sqrt{s} = 7 \text{ TeV}$) with ATLAS. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	217
1279	Jet energy measurement with the ATLAS detector in proton-proton collisions at ($\sqrt{s} = 7 \text{ TeV}$). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	209
1278	Search for high-mass dilepton resonances in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. <i>Physical Review D</i> , 2014 , 90,	4.9	209
1277	Measurement of the proton structure function F_2 in ep scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993 , 316, 412-426	4.2	209
1276	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 299	4.2	202
1275	Measurement of the pseudorapidity and transverse momentum dependence of the elliptic flow of charged particles in lead-lead collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 707, 330-348	4.2	200
1274	Electron performance measurements with the ATLAS detector using the 2010 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	199
1273	Search for new phenomena in the dijet mass distribution using pp collision data at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. <i>Physical Review D</i> , 2015 , 91,	4.9	196
1272	Jet energy measurement and its systematic uncertainty in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 17	4.2	194
1271	Luminosity determination in collisions at $\sqrt{s} = 8 \text{ TeV}$ using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016 , 76, 653	4.2	188
1270	A measurement of $\sigma_{\text{tot}}(\sqrt{s})$ at. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992 , 293, 465-477	4.2	186
1269	Measurements of the Higgs boson production and decay rates and coupling strengths using collision data at $\sqrt{s} = 7 \text{ TeV}$ and 8 TeV in the ATLAS experiment. <i>European Physical Journal C</i> , 2016 , 76, 6	4.2	185
1268	Evidence for gluon bremsstrahlung in e^+e^- annihilations at high energies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1979 , 86, 418-425	4.2	185
1267	Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1. <i>European Physical Journal C</i> , 2017 , 77, 490	4.2	177
1266	Measurement of Higgs boson production in the diphoton decay channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. <i>Physical Review D</i> , 2014 , 90,	4.9	175
1265	Measurement of total and partial photon proton cross sections at 180 GeV center of mass energy. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1994 , 63, 391-408		175

1264	Luminosity determination in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	167
1263	Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014 , 74, 3130	4.2	166
1262	Measurement of the jet radius and transverse momentum dependence of inclusive jet suppression in lead-lead collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 719, 220-241	4.2	165
1261	Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2014 , 74, 2941	4.2	160
1260	Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data. <i>European Physical Journal C</i> , 2014 , 74, 1	4.2	160
1259	Search for the standard model Higgs boson in the diphoton decay channel with 4.9 fb ⁻¹ of pp collision data at $\sqrt{s} = 7$ TeV with ATLAS. <i>Physical Review Letters</i> , 2012 , 108, 111803	7.4	157
1258	Measurement with the ATLAS detector of multi-particle azimuthal correlations in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 725, 60-78	4.2	153
1257	Jet energy resolution in proton-proton collisions at [Formula: see text] recorded in 2010 with the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2306	4.2	153
1256	Search for an additional, heavy Higgs boson in the [Formula: see text] decay channel at [Formula: see text] in [Formula: see text] collision data with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 45	4.2	152
1255	Measurement of the Higgs boson mass from the $H \rightarrow \gamma\gamma$ and $H \rightarrow ZZ^* \rightarrow 4\ell$ channels in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. <i>Physical Review D</i> , 2014 , 90,	4.9	151
1254	Evidence for a narrow baryonic state decaying to $K^0_S p$ and $K^0_S \Lambda$ in deep inelastic scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004 , 591, 7-22	4.2	150
1253	Measurement of the proton structure function F_2 at very low Q^2 at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 487, 53-73	4.2	149
1252	Performance of pile-up mitigation techniques for jets in [Formula: see text] collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 581	4.2	148
1251	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. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	143
1250	Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 710, 67-85	4.2	142
1249	Observation of Long-Range Elliptic Azimuthal Anisotropies in $\sqrt{s} = 13$ and 2.76 TeV pp Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , 2016 , 116, 172301	7.4	140
1248	Measurement of the top quark-pair production cross section with ATLAS in pp collisions at ($\sqrt{s} = 7$) TeV. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	138
1247	Measurement of the F_2 structure function in deep inelastic e + p scattering using 1994 data from the ZEUS detector at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1996 , 72, 399-424		132

1246	Measurement of the differential cross-sections of inclusive, prompt and non-prompt J/ψ production in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Nuclear Physics B</i> , 2011 , 850, 387-444	2.8	130
1245	Search for new high-mass phenomena in the dilepton final state using 36 fb $^{-1}$ of proton-proton collision data at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	126
1244	ZEUS next-to-leading-order QCD analysis of data on deep inelastic scattering. <i>Physical Review D</i> , 2003 , 67,	4.9	126
1243	Search for new phenomena in final states with an energetic jet and large missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. <i>Physical Review D</i> , 2016 , 94,	4.9	126
1242	Measurements of Higgs boson production and couplings in the four-lepton channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector. <i>Physical Review D</i> , 2015 , 91,	4.9	125
1241	Search for supersymmetry using final states with one lepton, jets, and missing transverse momentum with the ATLAS detector in $\sqrt{s}=7$ TeV pp collisions. <i>Physical Review Letters</i> , 2011 , 106, 131802	7.4	125
1240	Exclusive electroproduction of J/ψ mesons at HERA. <i>Nuclear Physics B</i> , 2004 , 695, 3-37	2.8	125
1239	Search for dark matter candidates and large extra dimensions in events with a jet and missing transverse momentum with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	124
1238	Measurement of the proton structure function F_2 and at low and very low x at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997 , 407, 432-448	4.2	123
1237	Comparison of ZEUS data with standard model predictions for $e+p \rightarrow e+X$ scattering at high x and Q^2 . <i>Zeitschrift für Physik C-Particles and Fields</i> , 1997 , 74, 207-220		123
1236	Measurement of deeply virtual Compton scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003 , 573, 46-62	4.2	123
1235	Charged-particle multiplicities in pp interactions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010 , 688, 21-42	4.2	121
1234	Combined measurements of Higgs boson production and decay using up to 80 fb $^{-1}$ of proton-proton collision data at $\sqrt{s}=13$ TeV collected with the ATLAS experiment. <i>Physical Review D</i> , 2020 , 101,	4.9	121
1233	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}) = 8 TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	120
1232	Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 784, 173-191	4.2	118
1231	Search for scalar diphoton resonances in the mass range 65-600 GeV with the ATLAS detector in pp collision data at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , 2014 , 113, 171801	7.4	117
1230	Search for dark matter in events with a hadronically decaying W or Z boson and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2014 , 112, 041802	7.4	117
1229	Measurement of the inclusive W and Z/ν cross sections in the e and μ decay channels in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2012 , 85,	4.9	117

1228	Jet energy scale measurements and their systematic uncertainties in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2017 , 96,	4.9	116
1227	Measurement of hard double-parton interactions in $W(\rightarrow \mu) + 2$ -jet events at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>New Journal of Physics</i> , 2013 , 15, 033038	2.9	116
1226	Measurement of the proton structure function F_2 from the 1993 HERA data. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1995 , 65, 379-398		116
1225	Global jet properties at $\sqrt{s}=14$ GeV center of mass energy in e^+e^- annihilation. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1990 , 47, 187-198		116
1224	Search for pair-produced third-generation squarks decaying via charm quarks or in compressed supersymmetric scenarios in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2014 , 90,	4.9	115
1223	Combination and QCD analysis of charm production cross section measurements in deep-inelastic ep scattering at HERA. <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	114
1222	Search for Invisible Decays of a Higgs Boson Produced in Association with a Z Boson in ATLAS. <i>Physical Review Letters</i> , 2014 , 112,	7.4	113
1221	Search for new resonances in W and Z final states in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 738, 428-447	4.2	112
1220	Search for charged Higgs bosons decaying via $H^\pm \rightarrow \mu^\pm (t\text{-bar})$ events using pp collision data at ($\sqrt{s}=7$;TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	112
1219	Measurement of the inclusive isolated prompt photon cross section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2011 , 83,	4.9	112
1218	ATLAS Run 1 searches for direct pair production of third-generation squarks at the Large Hadron Collider. <i>European Physical Journal C</i> , 2015 , 75, 510	4.2	109
1217	Measurement of inclusive jet charged-particle fragmentation functions in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 739, 320-342	4.2	109
1216	Measurement of event-plane correlations in $\sqrt{s_{NN}}=2.76$ TeV lead-lead collisions with the ATLAS detector. <i>Physical Review C</i> , 2014 , 90,	2.7	109
1215	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. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	108
1214	Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 701, 186-203	4.2	108
1213	A search for new physics in dijet mass and angular distributions in pp collisions at $\sqrt{s}=7$ TeV measured with the ATLAS detector. <i>New Journal of Physics</i> , 2011 , 13, 053044	2.9	108
1212	Measurement of the [Formula: see text] production cross-section using [Formula: see text] events with [Formula: see text]-tagged jets in [Formula: see text] collisions at [Formula: see text] and 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 3109	4.2	107
1211	Measurement of inclusive jet and dijet production in pp collisions at $\sqrt{s}=7$ TeV using the ATLAS detector. <i>Physical Review D</i> , 2012 , 86,	4.9	107

1210	Study of intermittency in electron-positron annihilation into hadrons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989 , 231, 548-556	4.2	107
1209	First observation of hadron production in e^+e^- collisions at 13 and 17 GeV CMS energy with the pluto detector at petra. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1979 , 81, 410-415	4.2	106
1208	Measurement of the total cross section from elastic scattering in pp collisions at $\sqrt{s}=7\text{TeV}$ with the ATLAS detector. <i>Nuclear Physics B</i> , 2014 , 889, 486-548	2.8	105
1207	Study of the spin and parity of the Higgs boson in diboson decays with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 476	4.2	104
1206	Search for new phenomena in dijet mass and angular distributions from pp collisions at $\sqrt{s}=13\text{TeV}$ with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 754, 302-322	4.2	104
1205	Measurement of the centrality dependence of the charged particle pseudorapidity distribution in lead-lead collisions at $\sqrt{s_{NN}}=2.76\text{TeV}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 710, 363-382	4.2	104
1204	Search for doubly charged Higgs bosons in like-sign dilepton final states at $(\sqrt{s} = 7\text{TeV})$ with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	104
1203	Measurement of inclusive jet and dijet cross sections in proton-proton collisions at 7 TeV centre-of-mass energy with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	103
1202	Search for squarks and gluinos with the ATLAS detector in final states with jets and missing transverse momentum using 4.7 fb ⁻¹ of $\sqrt{s}=7\text{TeV}$ proton-proton collision data. <i>Physical Review D</i> , 2013 , 87,	4.9	101
1201	Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	101
1200	Measurements of the Nuclear Modification Factor for Jets in Pb+Pb Collisions at $\sqrt{s_{NN}}=2.76\text{TeV}$ with the ATLAS detector. <i>Physical Review Letters</i> , 2015 , 114, 072302	7.4	99
1199	Search for dark matter candidates and large extra dimensions in events with a photon and missing transverse momentum in pp collision data at $\sqrt{s}=7\text{TeV}$ with the ATLAS detector. <i>Physical Review Letters</i> , 2013 , 110, 011802	7.4	99
1198	Determination of the strange-quark density of the proton from ATLAS measurements of the $W \rightarrow \mu$ and $Z \rightarrow \mu\mu$ cross sections. <i>Physical Review Letters</i> , 2012 , 109, 012001	7.4	98
1197	Search for new particles in two-jet final states in 7 TeV proton-proton collisions with the ATLAS detector at the LHC. <i>Physical Review Letters</i> , 2010 , 105, 161801	7.4	97
1196	Measurement of the centrality dependence of J/ψ yields and observation of Z production in lead-lead collisions with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 697, 294-312	4.2	97
1195	Measurement of the diffractive structure function in deep inelastic scattering at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1995 , 68, 569-584		97
1194	Combined search for the Standard Model Higgs boson in pp collisions at $\sqrt{s}=7\text{TeV}$ with the ATLAS detector. <i>Physical Review D</i> , 2012 , 86,	4.9	96
1193	Search for the Standard Model Higgs boson produced in association with top quarks and decaying into $[Formula: see text]$ in $[Formula: see text]$ collisions at $[Formula: see text]$ with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 349	4.2	94

1192	Multiplicity distributions in e^+e^- annihilations at petra energies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1980 , 95, 313-317	4.2	94
1191	Measurement of the Inelastic Proton-Proton Cross Section at $\sqrt{s}=13$ TeV with the ATLAS Detector at the LHC. <i>Physical Review Letters</i> , 2016 , 117, 182002	7.4	92
1190	Search for direct third-generation squark pair production in final states with missing transverse momentum and two b-jets in ($\sqrt{s}=8$) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	92
1189	Search for charginos nearly mass degenerate with the lightest neutralino based on a disappearing-track signature in pp collisions at (s)=8 TeV with the ATLAS detector. <i>Physical Review D</i> , 2013 , 88,	4.9	92
1188	Measurement of $D^*\pi$ production in deep inelastic e^+p scattering at DESY HERA. <i>Physical Review D</i> , 2004 , 69,	4.9	92
1187	Constraints on new phenomena via Higgs boson couplings and invisible decays with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	91
1186	Measurement of the t-channel single top-quark production cross section in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 717, 330-350	4.2	91
1185	Search for Higgs boson pair production in the $B\bar{B}$ final state using pp collision data at $\sqrt{s}=8$ TeV from the ATLAS detector. <i>Physical Review Letters</i> , 2015 , 114, 081802	7.4	90
1184	Search for new phenomena in dijet events using 37 fb of pp collision data collected at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2017 , 96,	4.9	89
1183	Search for a CP-odd Higgs boson decaying to Zh in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 744, 163-183	4.2	88
1182	Searches for Higgs boson pair production in the $hh \rightarrow b\bar{b}WW^*$, $B\bar{b}$, $b\bar{b}b\bar{b}$ channels with the ATLAS detector. <i>Physical Review D</i> , 2015 , 92,	4.9	87
1181	Measurement of long-range pseudorapidity correlations and azimuthal harmonics in $sNN=5.02$ TeV proton-lead collisions with the ATLAS detector. <i>Physical Review C</i> , 2014 , 90,	2.7	87
1180	Measurement of elastic γ photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998 , 437, 432-444	4.2	87
1179	Observation of $H \rightarrow b\bar{b}$ decays and VH production with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 786, 59-86	4.2	87
1178	Search for the Standard Model Higgs boson in the decay channel $H \rightarrow ZZ(?) \rightarrow 4\ell$ with 4.8 fb of pp collision data at $s=7$ TeV with ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 710, 383-402	4.2	86
1177	Observation and measurement of Higgs boson decays to WW^* with the ATLAS detector. <i>Physical Review D</i> , 2015 , 92,	4.9	86
1176	Search for high-mass diphoton resonances in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2015 , 92,	4.9	85
1175	production in deep inelastic scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997 , 407, 402-418	4.2	85

1174	Search for high-mass dilepton resonances using 139 fb ⁻¹ of pp collision data collected at s=13 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 796, 68-87	4.2	82
1173	Measurement of [Formula: see text] production with a veto on additional central jet activity in collisions at [Formula: see text] TeV using the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 2043	4.2	82
1172	Readiness of the ATLAS Tile Calorimeter for LHC collisions. <i>European Physical Journal C</i> , 2010 , 70, 1193-1236	4.2	82
1171	Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb ⁻¹ of pp collisions at (sqrt{s}=13) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	81
1170	Search for squarks and gluinos in final states with jets and missing transverse momentum using 36 fb ⁻¹ of s=13 TeV pp collision data with the ATLAS detector. <i>Physical Review D</i> , 2018 , 97,	4.9	80
1169	Search for dark matter in events with a Z boson and missing transverse momentum in pp collisions at s=8 TeV with the ATLAS detector. <i>Physical Review D</i> , 2014 , 90,	4.9	79
1168	Measurement of the Z/γ boson transverse momentum distribution in pp collisions at (sqrt{s}=7) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	79
1167	Measurement of the charge asymmetry in top quark pair production in collisions at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 2039	4.2	78
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1165	Centrality and rapidity dependence of inclusive jet production in sNN=5.02 TeV proton-lead collisions with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 748, 392-413	4.2	77
1164	Observation of a new Υ(b) state in radiative transitions to Υ(1S) and Υ(2S) at ATLAS. <i>Physical Review Letters</i> , 2012 , 108, 152001	7.4	77
1163	Search for single-top production in ep collisions at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003 , 559, 153-170	4.2	77
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1160	Search for massive, long-lived particles using multitrack displaced vertices or displaced lepton pairs in pp collisions at s=8 TeV with the ATLAS detector. <i>Physical Review D</i> , 2015 , 92,	4.9	75
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1158	Evidence for the Higgs-boson Yukawa coupling to tau leptons with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	74
1157	Search for dilepton resonances in pp collisions at s=7 TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2011 , 107, 272002	7.4	74

1156	Measurements of Higgs boson properties in the diphoton decay channel with 36 fb ⁻¹ of pp collision data at s=13 TeV with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	74
1155	Search for production of [Formula: see text] resonances decaying to a lepton, neutrino and jets in [Formula: see text] collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 209	4.2	73
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1153	Measurement of elastic π photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996 , 377, 259-272	4.2	73
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1150	Measurement of the total cross section from elastic scattering in pp collisions at s=8TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 761, 158-178	4.2	72
1149	Measurement of the inclusive jet cross-section in collisions at [Formula: see text] and comparison to the inclusive jet cross-section at [Formula: see text] using the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2509	4.2	71
1148	Rapidity gap cross sections measured with the ATLAS detector in pp collisions at (sqrt[s] = 7 mboxed{~TeV}). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	70
1147	Search for direct top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in sqrt[s] = 7 TeV pp collisions using 4.7 fb ⁻¹ of ATLAS data. <i>Physical Review Letters</i> , 2012 , 109, 211803	7.4	70
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1143	Searches for scalar leptoquarks in collisions at [Formula: see text] = 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 5	4.2	68
1142	Measurement of upsilon production in 7 TeV pp collisions at ATLAS. <i>Physical Review D</i> , 2013 , 87,	4.9	68
1141	Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at (sqrt[s]=8) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	67
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1138	Study of deep inelastic inclusive and diffractive scattering with the ZEUS forward plug calorimeter. <i>Nuclear Physics B</i> , 2005 , 713, 3-80	2.8	67
1137	Observation of direct processes in photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994 , 322, 287-300	4.2	67
1136	An $O(\hbar^2)$ calculation of energy-energy correlation in e^+e^- annihilation and comparison with experimental data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1982 , 118, 155-161	4.2	67
1135	Search for Higgs boson pair production in the [Formula: see text] final state from collisions at [Formula: see text] TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 412	4.2	66
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1133	Search for Higgs boson decays to a photon and a Z boson in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 732, 8-27	4.2	66
1132	Observation of hard scattering in photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992 , 297, 404-416	4.2	66
1131	Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 903	4.2	66
1130	Search for heavy Majorana neutrinos with the ATLAS detector in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	65
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1128	Exclusive γ production in deep inelastic electron-proton scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 356, 601-616	4.2	65
1127	Search for the (\overline{b}) decay of the Standard Model Higgs boson in associated (W/Z)H production with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	64
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1123	Measurement of $W\bar{W}$ and Z-boson production cross sections in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 759, 601-621	4.2	64
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1117	Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2015 , 91,	4.9	62
1116	Search for resonant diboson production in the $[Z/\gamma]$ final state in $[Z/\gamma]$ collisions at $[Z/\gamma]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 69	4.2	62
1115	Observation of jet production in deep inelastic scattering with a large rapidity gap at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994 , 332, 228-243	4.2	62
1114	A study of multi-jet events in e+e \bar{e} annihilation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1980 , 97, 459-464	4.2	62
1113	Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data. <i>European Physical Journal C</i> , 2017 , 77, 195	4.2	61
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1108	Measurement of the Z -boson mass in pp collisions at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 110	4.2	59
1107	Measurement of the correlation between flow harmonics of different order in lead-lead collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>Physical Review C</i> , 2015 , 92,	2.7	59
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1094	Summary of the searches for squarks and gluinos using $(\sqrt{s}=8)$ TeV pp collisions with the ATLAS experiment at the LHC. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	55
1093	Search for $H \rightarrow \tau\tau$ produced in association with top quarks and constraints on the Yukawa coupling between the top quark and the Higgs boson using data taken at 7 TeV and 8 TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 740, 222-242	4.2	55
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1088	Measurement of the diffractive structure function $F_2^D(4)$ at HERA. <i>European Physical Journal C</i> , 1998 , 1, 81-96	4.2	55
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1082	Measurement of $W \mp Z$ production in proton-proton collisions at ($\sqrt{s}=7\sim\text{TeV}$) with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1	4-2	54
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1079	Search for scalar bottom quark pair production with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , 2012 , 108, 181802	7-4	54
1078	A detailed study of strange particle production in e^+e^- annihilation at high energy. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1985 , 27, 27-37		54
1077	Search for squarks and gluinos in final states with jets and missing transverse momentum at [Formula: see text] = 13 [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 392	4-2	53
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1061	Observation of an excited $B_c(\chi)$ meson state with the ATLAS detector. <i>Physical Review Letters</i> , 2014 , 113, 212004	7.4	52
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1051	Measurement of the jet fragmentation function and transverse profile in proton-proton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	51
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1048	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. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	50
1047	Evidence for the ($H \rightarrow b\bar{b}$) decay with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	50
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1034	Measurements of top-quark pair differential cross-sections in the lepton+jets channel in collisions at $[Formula: see text]$ using the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 538	4.2	48
1033	Search for supersymmetry at $[Formula: see text]$ TeV in final states with jets and two same-sign leptons or three leptons with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 259	4.2	48
1032	Measurement of multi-particle azimuthal correlations in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 428	4.2	48
1031	Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in 4.7 fb ⁻¹ of ($\sqrt{s} = 7$;TeV) proton-proton collisions. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	48

1030	Search for a light Higgs boson decaying to long-lived weakly interacting particles in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2012 , 108, 251801	7.4	48
1029	High-Q ² neutral current cross sections in e+p deep inelastic scattering at $s=318$ GeV. <i>Physical Review D</i> , 2004 , 70,	4.9	48
1028	Measurement of the photon-proton total cross section at a center-of-mass energy of 209 GeV at HERA. <i>Nuclear Physics B</i> , 2002 , 627, 3-28	2.8	48
1027	Measurement of exclusive π^0 production in $\pi^+\pi^-$ reactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984 , 142, 125-129	4.2	48
1026	Search for high-mass new phenomena in the dilepton final state using proton-proton collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 761, 372-392	4.2	48
1025	Combination of the Searches for Pair-Produced Vectorlike Partners of the Third-Generation Quarks at $\sqrt{s}=13$ TeV with the ATLAS Detector. <i>Physical Review Letters</i> , 2018 , 121, 211801	7.4	48
1024	Search for long-lived charginos based on a disappearing-track signature in pp collisions at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	48
1023	Measurement of the prompt $[Formula: see text]$ pair production cross-section in collisions at $[Formula: see text]$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 76	4.2	47
1022	Search for heavy resonances decaying into in the final state in collisions at with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 24	4.2	47
1021	Measurements of $W\Xi Z$ production cross sections in pp collisions at $s=8$ TeV with the ATLAS detector and limits on anomalous gauge boson self-couplings. <i>Physical Review D</i> , 2016 , 93,	4.9	47
1020	Measurement of the $t\bar{t}\pi$ production cross-section using $e\bar{e}$ events with b-tagged jets in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 761, 136-157	4.2	47
1019	Search for the neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at ($\sqrt{s}=7$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	47
1018	Comprehensive measurements of t-channel single top-quark production cross sections at $s=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2014 , 90,	4.9	47
1017	Deep inelastic scattering with leading protons or large rapidity gaps at HERA. <i>Nuclear Physics B</i> , 2009 , 816, 1-61	2.8	47
1016	Search for electroweak production of supersymmetric states in scenarios with compressed mass spectra at $s=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2018 , 97,	4.9	47
1015	Search for a new resonance decaying to a or boson and a Higgs boson in the $[Formula: see text]$ final states with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 263	4.2	46
1014	Search for the electroweak production of supersymmetric particles in $s=8$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2016 , 93,	4.9	46
1013	Light-quark and gluon jet discrimination in $[Formula: see text]$ collisions at $[Formula: see text]$ with the ATLAS detector. <i>European Physical Journal C</i> , 2014 , 74, 3023	4.2	46

1012	Search for lepton-flavour-violating $H \rightarrow \tau\tau$ decays of the Higgs boson with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	46
1011	Measurement of dijet azimuthal decorrelations in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , 2011 , 106, 172002	7.4	46
1010	Search for new phenomena in tt events with large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2012 , 108, 041805	7.4	46
1009	Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with ($\sqrt{s}=8$) TeV pp collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	45
1008	Search for invisible decays of a Higgs boson using vector-boson fusion in pp collisions at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	45
1007	Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment. <i>Physical Review Letters</i> , 2019 , 122, 231801	7.4	45
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1005	Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at [Formula: see text] TeV in 2010. <i>European Physical Journal C</i> , 2014 , 74, 3034	4.2	45
1004	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. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	45
1003	Search for magnetic monopoles in $\sqrt{s}=7$ TeV pp collisions with the ATLAS detector. <i>Physical Review Letters</i> , 2012 , 109, 261803	7.4	45
1002	Measurement of the azimuthal angle dependence of inclusive jet yields in Pb+Pb collisions at ($\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>Physical Review Letters</i> , 2013 , 111, 152301	7.4	45
1001	Measurement of exclusive τ electroproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 487, 273-288	4.2	45
1000	Measurement of the nuclear modification factor for inclusive jets in Pb+Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 790, 108-128	4.2	44
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998	Search for supersymmetry in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in [Formula: see text] TeV collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2015 , 75, 318	4.2	44
997	Search for long-lived, massive particles in events with displaced vertices and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2018 , 97,	4.9	44
996	Charged-particle distributions in $\sqrt{s}=13$ TeV pp interactions measured with the ATLAS detector at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 758, 67-88	4.2	44
995	Identification of boosted, hadronically decaying bosons and comparisons with ATLAS data taken at [Formula: see text] TeV. <i>European Physical Journal C</i> , 2016 , 76, 154	4.2	44

994	Measurement of isolated-photon pair production in pp collisions at ($\sqrt{s}=7$;TeV) with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	44
993	Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton-proton collisions at ($\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	44
992	Search for vectorlike B quarks in events with one isolated lepton, missing transverse momentum, and jets at $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2015 , 91,	4.9	44
991	Search for the Standard Model Higgs boson in the $H \rightarrow WW(\gamma) \rightarrow \ell\ell$ decay mode with 4.7 fb ⁻¹ of ATLAS data at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 716, 62-81	4.2	44
990	Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	44
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986	Search for charged Higgs bosons produced in association with a top quark and decaying via $H^\pm \rightarrow \tau \nu$ using pp collision data recorded at $\sqrt{s}=13$ TeV by the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 759, 555-574	4.2	44
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984	Performance of jet substructure techniques for large-R jets in proton-proton collisions at ($\sqrt{s}=7$) TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	43
983	Lacustrine carbonates of Iberian Karst Lakes: Sources, processes and depositional environments. <i>Sedimentary Geology</i> , 2014 , 299, 1-29	2.8	43
982	Measurement of the cross section for top-quark pair production in pp collisions at ($\sqrt{s} = 7$ TeV) with the ATLAS detector using final states with two high-p _T leptons. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	43
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980	Search for a top threshold in hadronic e^+e^- annihilation at energies between 22 and 31.6 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1979 , 86, 413-417	4.2	43
979	Lepton and hadron pair production in two-photon reactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1980 , 94, 254-258	4.2	43
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977	Jet reconstruction and performance using particle flow with the ATLAS Detector. <i>European Physical Journal C</i> , 2017 , 77, 466	4.2	42

976	Search for $W \rightarrow tb$ in the lepton plus jets final state in proton-proton collisions at a centre-of-mass energy of $\sqrt{s}=8$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 743, 235-255	4.2	42
975	Measurement of the differential cross-sections of prompt and non-prompt production of [Formula: see text] and [Formula: see text] in collisions at [Formula: see text] and 8 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 283	4.2	42
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973	Measurement of the top quark mass with the template method in the [Formula: see text] channel using ATLAS data. <i>European Physical Journal C</i> , 2012 , 72, 2046	4.2	42
972	Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 interpreted in the phenomenological MSSM. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	42
971	Measurement of the inclusive isolated prompt photon cross-section in pp collisions at $\sqrt{s}=7$ TeV using 35 pb ⁻¹ of ATLAS data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 706, 150-167	4.2	42
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967	Search for heavy resonances in the and final states using proton-proton collisions at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 293	4.2	41
966	Observation of Light-by-Light Scattering in Ultraperipheral Pb+Pb Collisions with the ATLAS Detector. <i>Physical Review Letters</i> , 2019 , 123, 052001	7.4	41
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963	Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	41
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959	Observation of F meson production in high energy $e+e$ annihilation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984 , 136, 130-134	4.2	41

958	Search for top squarks in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector. <i>Physical Review D</i> , 2016 , 94,	4.9	41
957	Measurement of the Higgs boson mass in the $H \rightarrow ZZ^* \rightarrow 4\ell$ and $H \rightarrow \tau\tau$ channels with $\sqrt{s}=13$ TeV pp collisions using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 784, 345-366	4.2	41
956	Search for new particles in events with one lepton and missing transverse momentum in pp collisions at $(\sqrt{s}) = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	40
955	Search for first generation scalar leptoquarks in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 709, 158-176	4.2	40
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950	Search for neutral MSSM Higgs bosons decaying to $\tau\tau$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 705, 174-192	4.2	40
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946	Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton-lead collisions at $\sqrt{s_{NN}}=2.76$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 199	4.2	39
945	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. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	39
944	Search for long-lived, heavy particles in final states with a muon and multi-track displaced vertex in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 719, 280-298	4.2	39
943	Measurement of the inclusive isolated prompt photons cross section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector using 4.6 fb^{-1} . <i>Physical Review D</i> , 2014 , 89,	4.9	39
942	A search for $(\overline{t}t)$ resonances in lepton+jets events with highly boosted top quarks collected in pp collisions at $(\sqrt{s}) = 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	39
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940	Search for charged Higgs bosons decaying into top and bottom quarks at ($\sqrt{s}=13$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	39
939	Performance of algorithms that reconstruct missing transverse momentum in [Formula: see text]=8 TeV proton-proton collisions in the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 241	4.2	38
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933	Inclusive-jet and dijet cross sections in deep inelastic scattering at HERA. <i>Nuclear Physics B</i> , 2007 , 765, 1-30	2.8	38
932	Measurement of the open-charm contribution to the diffractive proton structure function. <i>Nuclear Physics B</i> , 2003 , 672, 3-35	2.8	38
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930	Inclusive electron production from heavy quarks in $e+e$ annihilation at 34.6 GeV center of mass energy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984 , 146, 443-449	4.2	38
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927	Electron reconstruction and identification in the ATLAS experiment using the 2015 and 2016 LHC proton-proton collision data at ($\sqrt{s} = 13$) (text {TeV}). <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	37
926	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. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	37
925	Search for pair production of heavy top-like quarks decaying to a high-pT W boson and a b quark in the lepton plus jets final state at $s=7$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 718, 1284-1302	4.2	37
924	Search for squarks and gluinos in events with isolated leptons, jets and missing transverse momentum at ($\sqrt{s}=8$) TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	37
923	Search for the lepton flavor violating decay $Z \rightarrow e\mu$ in pp collisions at $s=8$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2014 , 90,	4.9	37

922	Search for the Standard Model Higgs boson in the $H \rightarrow \tau\tau$ decay mode in $(\sqrt{s} = 7, \text{TeV})$ pp collisions with ATLAS. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	37
921	Limits on the production of the standard model Higgs boson in pp collisions at $(\sqrt{s} = 7)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2011 , 71, 1	4-2	37
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919	Measurement of the total photon-photon cross section for the production of hadrons at small Q^2 . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984 , 149, 421-426	4-2	37
918	Charged-particle distributions at low transverse momentum in $[\text{Formula: see text}]$ TeV interactions measured with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2016 , 76, 502	4-2	37
917	Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5-4	36
916	Searches for heavy long-lived sleptons and R-hadrons with the ATLAS detector in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 720, 277-308	4-2	36
915	Search for a Charged Higgs Boson Produced in the Vector-Boson Fusion Mode with Decay $H(\pm) \rightarrow W(\pm)Z$ using pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS Experiment. <i>Physical Review Letters</i> , 2015 , 114, 231801	7-4	36
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913	Measurement of the reaction in deep inelastic e+p scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996 , 380, 220-234	4-2	36
912	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at and 5.02 TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 142	4-2	35
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910	Measurement of the charged-particle multiplicity inside jets from $[\text{Formula: see text}]$ collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2016 , 76, 322	4-2	35
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907	Search for displaced vertices arising from decays of new heavy particles in 7 TeV pp collisions at ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 707, 478-496	4-2	35
906	Search for extra dimensions using diphoton events in 7 TeV proton-proton collisions with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 710, 538-556	4-2	35
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904	Search for long-lived, multi-charged particles in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 722, 305-323	4.2	35
903	Measurement of jet fragmentation in Pb+Pb and collisions at TeV with the ATLAS detector at the LHC. <i>European Physical Journal C</i> , 2017 , 77, 379	4.2	35
902	Search for nonpointing and delayed photons in the diphoton and missing transverse momentum final state in 8 TeV pp collisions at the LHC using the ATLAS detector. <i>Physical Review D</i> , 2014 , 90,	4.9	35
901	Measurement of the isolated diphoton cross section in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2012 , 85,	4.9	35
900	Search for second generation scalar leptoquarks in pp collisions at ($\sqrt{s}=7\sim\text{TeV}$) with the ATLAS detector. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	35
899	Search for direct slepton and gaugino production in final states with two leptons and missing transverse momentum with the ATLAS detector in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 718, 879-901	4.2	35
898	Search for extra dimensions in diphoton events from proton-proton collisions at $\sqrt{s} = 7$ TeV in the ATLAS detector at the LHC. <i>New Journal of Physics</i> , 2013 , 15, 043007	2.9	35
897	Measurement of the production cross section for W-bosons in association with jets in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 698, 325-345	4.2	35
896	Search for gluinos in events with two same-sign leptons, jets, and missing transverse momentum with the ATLAS detector in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , 2012 , 108, 241802	7.4	35
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893	Measurement of inclusive prompt photon photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 472, 175-188	4.2	35
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889	Measurements of four-lepton production at the Z resonance in pp collisions at $\sqrt{s} = 7$ and 8 TeV with ATLAS. <i>Physical Review Letters</i> , 2014 , 112, 231806	7.4	34
888	Measurement of the transverse momentum distribution of W bosons in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2012 , 85,	4.9	34
887	ATLAS search for a heavy gauge boson decaying to a charged lepton and a neutrino in pp collisions at ($\sqrt{s} = 7 \text{ TeV}$). <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	34

886	Search for same-sign top-quark production and fourth-generation down-type quarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	34
885	Search for contact interactions and large extra dimensions in dilepton events from pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2013 , 87,	4.9	34
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883	Inclusive production of non-strange mesons in annihilations. <i>Nuclear Physics B</i> , 1977 , 123, 189-202	2.8	34
882	Search for heavy long-lived charged R-hadrons with the ATLAS detector in 3.2 fb ⁻¹ of proton-proton collision data at $\sqrt{s} = 13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 760, 647-665	4.2	34
881	Search for chargino-neutralino production using recursive jigsaw reconstruction in final states with two or three charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	34
880	Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2018 , 78, 565	4.2	34
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869	Measurement of inclusive (D _s [±]) photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 481, 213-227	4.2	33

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866	Lepton pair production and search for a new heavy lepton in $e+e$ annihilation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1981 , 99, 489-494	4.2	33
865	Observation of production in $e+e$ annihilation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983 , 130, 340-344	4.2	33
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862	Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb of ($\sqrt{s}=13$) TeV pp collision data with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	33
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842	Search for light scalar top-quark pair production in final states with two leptons with the ATLAS detector in $(\sqrt{s}=7 \text{ TeV})$ proton-proton collisions. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	3 ¹
841	Inclusive search for same-sign dilepton signatures in pp collisions at $(\sqrt{s} = 7)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	3 ¹
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360	Search for flavor-changing neutral currents in top quark decays $t \rightarrow Hc$ and $t \rightarrow Hu$ in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2018 , 98,	4.9	12
359	Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector. <i>Physical Review C</i> , 2018 , 98,	2.7	12
358	Measurement of the cross-section and charge asymmetry of W bosons produced in proton-proton collisions at ($\sqrt{s}=8$ TeV) with the ATLAS detector. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	11
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294	Search for single τ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 721, 171-189	4.2	9
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287	Three-jet production in diffractive deep inelastic scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001 , 516, 273-292	4.2	9
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283	Search for new non-resonant phenomena in high-mass dilepton final states with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	9
282	Measurements of the Higgs boson inclusive and differential fiducial cross sections in the 4ℓ decay channel at (\sqrt{s}) = 13 TeV. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	9
281	Search for squarks and gluinos in final states with hadronically decaying leptons, jets, and missing transverse momentum using pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Physical Review D</i> , 2019 , 99,	4.9	9
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269	A measurement of the ratio of the W and Z cross sections with exactly one associated jet in pp collisions at $s=7$ TeV with ATLAS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 708, 221-240	4.2	8
268	Search for contact interactions in dilepton events from pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 712, 40-58	4.2	8
267	Measurement of splitting scales in \rightarrow events at [Formula: see text] with the ATLAS detector. <i>European Physical Journal C</i> , 2013 , 73, 2432	4.2	8
266	Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in [Formula: see text][Formula: see text][Formula: see text] collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2017 , 77, 144	4.2	8
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257	Measurements of top-quark pair spin correlations in the $(e\mu)$ channel at ($\sqrt{s} = 13$) TeV using pp collisions in the ATLAS detector. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	8

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255	Search for heavy resonances decaying into a pair of Z bosons in the $(e^+e^-e^+e^-)$ and $(e^+e^-e^-\nu_{\bar{\nu}})$ final states using 139 (fb^{-1}) of proton-proton collisions at $(\sqrt{s} = 13)$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	8
254	Search for charged Higgs bosons decaying into a top quark and a bottom quark at $(\sqrt{s}) = 13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	8
253	Search for the Standard Model Higgs boson produced by vector-boson fusion and decaying to bottom quarks in $(\sqrt{s}=8)$ TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	8
252	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. <i>Journal of High Energy Physics</i> , 2021 , 2021, 1	5.4	8
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249	Search for flavour-changing neutral current top-quark decays $t \rightarrow qZ$ in proton-proton collisions at $(\sqrt{s}=13)$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	8
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246	Search for vector-boson resonances decaying to a top quark and bottom quark in the lepton plus jets final state in pp collisions at $s=13$ TeV with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019 , 788, 347-370	4.2	7
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240	Measurement of the production cross section of three isolated photons in pp collisions at $s=8$ TeV using the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 781, 55-76	4.2	7
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234	Measurement of $D\ell$ production in deep inelastic ep scattering with the ZEUS detector at HERA. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	7
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231	Search for direct top squark pair production in events with a Higgs or Z boson, and missing transverse momentum in ($\sqrt{s}=13$) TeV pp collisions with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
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170	Measurement of differential cross-sections of a single top quark produced in association with a boson at \sqrt{s} with ATLAS. <i>European Physical Journal C</i> , 2018 , 78, 186	4.2	5
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152	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. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5-4	5
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132	Evaluation of the local hadronic calibration with combined beam-test data for the endcap and forward calorimeters of ATLAS in the pseudorapidity region. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012 , 693, 74-97	1.2	4
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130	Energy moments for quark jets at PETRA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1983 , 19, 205-212		4
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128	Average charged-particle multiplicities in $p\bar{p}$ inclusive reactions at 147 GeV/c. <i>Physical Review D</i> , 1979 , 19, 743-763	4.9	4
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126	Alignment of the ATLAS Inner Detector in Run 2. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	4
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110	Impact parameter analysis of multiparticle production in $\bar{p}p$ interactions at 15 and 147 GeV/c. <i>Nuclear Physics B</i> , 1979 , 148, 41-52	2.8	3
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