

# Alexander Belyaev

## List of Publications by Year in descending order

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700  
papers

29,965  
citations

6254

80  
h-index

12597

132  
g-index

722  
all docs

722  
docs citations

722  
times ranked

10701  
citing authors

#	ARTICLE	IF	CITATIONS
1	CalcHEP 3.4 for collider physics within and beyond the Standard Model. Computer Physics Communications, 2013, 184, 1729-1769.	7.5	738
2	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 $\sqrt{s}$ TeV. European Physical Journal C, 2015, 75, 212.	3.9	541
3	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	3.9	499
4	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1.	4.7	497
5	Study of high- $p_T$ charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	369
6	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 421.	3.9	355
7	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	3.9	342
8	Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	320
9	Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 235.	3.9	320
10	Physics potential and experimental challenges of the LHC luminosity upgrade. European Physical Journal C, 2005, 39, 293-333.	3.9	300
11	Physics interplay of the LHC and the ILC. Physics Reports, 2006, 426, 47-358.	25.6	297
12	Simplified models for dark matter searches at the LHC. Physics of the Dark Universe, 2015, 9-10, 8-23.	4.9	250
13	Boosted objects: a probe of beyond the standard model physics. European Physical Journal C, 2011, 71, 1.	3.9	249
14	Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. European Physical Journal C, 2014, 74, 3036.	3.9	241
15	Direct, indirect and collider detection of neutralino dark matter in SUSY models with non-universal Higgs masses. Journal of High Energy Physics, 2005, 2005, 065-065.	4.7	237
16	A precision measurement of the mass of the top quark. Nature, 2004, 429, 638-642.	27.8	232
17	Production of excited neutrinos at the LHC. European Physical Journal C, 2005, 41, 1-10.	3.9	228
18	Supersymmetry parameter analysis: SPA convention and project. European Physical Journal C, 2006, 46, 43-60.	3.9	218

[illegible]

#	ARTICLE	IF	CITATIONS
37	Strange particle production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	139
38	Prompt and non-prompt $J/\psi$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	3.9	135
39	A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	129
40	Dark Matter benchmark models for early LHC Run-2 Searches: Report of the ATLAS/CMS Dark Matter Forum. Physics of the Dark Universe, 2020, 27, 100371.	4.9	126
41	Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	3.9	125
42	Anatomy of the inert two-Higgs-doublet model in the light of the LHC and non-LHC dark matter searches. Physical Review D, 2018, 97, .	4.7	125
43	Updated Constraints on the Minimal Supergravity Model. Journal of High Energy Physics, 2002, 2002, 050-050.	4.7	124
44	Evidence for the 125 GeV Higgs boson decaying to a pair of $\tilde{l}_L$ , leptons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	123
45	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
46	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	122
47	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	3.9	120
48	Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	118
49	Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	117
50	Measurement of the Top Quark Mass Using Dilepton Events. Physical Review Letters, 1998, 80, 2063-2068.	7.8	110
51	The production cross section and angular correlations in collisions at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 487, 264-272.	4.1	110
52	Direct measurement of the top quark mass by the DØ Collaboration. Physical Review D, 1998, 58, .	4.7	107
53	Neutralino cold dark matter in a one-parameter extension of the minimal supergravity model. Physical Review D, 2005, 71, .	4.7	106
54	Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9$ , 2.36, and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	106

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55	Phenomenology of a littlest Higgs model with T parity: Including effects of T-odd fermions. Physical Review D, 2006, 74, .	4.7	103
56	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	103
57	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	101
58	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	100
59	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	99
60	Search for new phenomena with the $M_{\mathrm{T}2}$ variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 710.	3.9	98
61	Measurement of the underlying event activity at the LHC with $\sqrt{s} = 7$ TeV and comparison with $\sqrt{s} = 0.9$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	97
62	Search for supersymmetry in hadronic final states using $M_{\mathrm{T}2}$ in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	95
63	Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8$ , and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	95
64	Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1.	4.7	92
65	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 147.	3.9	88
66	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	86
67	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	85
68	Study of double parton scattering using W + 2-jet events in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	85
69	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	85
70	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{\mathrm{NN}}} = \sqrt{s_{\mathrm{NN}}}=5.02$ TeV. European Physical Journal C, 2014, 74, 2847.	3.9	85
71	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
72	Technicolor walks at the LHC. Physical Review D, 2009, 79, .	4.7	83

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73	Measurement of the single-top-quark t-channel cross section in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	83
74	Measurement of the differential cross section and charge asymmetry for inclusive $\mathbf{p} \rightarrow \mathbf{W}^{\pm} + \mathbf{X}$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	3.9	83
75	Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s}=5.02$ TeV PbPb collisions at 5.02 TeV. European Physical Journal C, 2018, 78, 509.	3.9	83
76	Search for Charged Higgs Bosons in Decays of Top Quark Pairs. Physical Review Letters, 1999, 82, 4975-4980.	7.8	82
77	$pp \rightarrow t\bar{t} + \text{Higgs}$ : toward a model independent determination of the Higgs boson couplings at the LHC. Journal of High Energy Physics, 2002, 2002, 041-041.	4.7	82
78	Suppression and azimuthal anisotropy of prompt and nonprompt $J/\psi$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	3.9	82
79	Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter mediators and other new particles. Journal of High Energy Physics, 2018, 2018, 1.	4.7	82
80	$J/\psi$ and $\Upsilon(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	81
81	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	81
82	Search for a charged Higgs boson in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	81
83	Measurement of the top quark mass in the dilepton channel. Physical Review D, 1999, 60, .	4.7	80
84	Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	78
85	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 75.	3.9	78
86	Inclusive Jet Production in pp Collisions. Physical Review Letters, 2001, 86, 1707-1712.	7.8	77
87	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	77
88	Isolated Photon Cross Section in pp Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 2000, 84, 2786-2791.	7.8	75
89	Yukawa coupling unification in supersymmetric models. Journal of High Energy Physics, 2003, 2003, 023-023.	4.7	75
90	Study of exclusive two-photon production of $W+W^*$ in pp collisions at $\sqrt{s}=7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.	4.7	75

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91	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ s NN = 5.02 TeV. European Physical Journal C, 2014, 74, 1.	3.9	75
92	Measurement of the $\sigma(\mathrm{W}^+\mathrm{W}^-)$ cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.	3.9	74
93	Measurement of the X(3872) production cross section via decays to $J/\psi \ell^+ \ell^-$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	73
94	Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. European Physical Journal C, 2015, 75, 251.	3.9	73
95	Search for additional neutral MSSM Higgs bosons in the $\tilde{l}, \tilde{l}^*$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	73
96	Direct detection of dark matter in supersymmetric models. Journal of Cosmology and Astroparticle Physics, 2003, 2003, 007-007.	5.4	72
97	$\langle \text{physics} \rangle$ with early LHC data. Physical Review D, 2011, 83, .	4.7	72
98	Measurement of the Top Quark Pair Production Cross Section in $p\bar{p}$ Collisions. Physical Review Letters, 1997, 79, 1203-1208.	7.8	70
99	Search for Large Extra Dimensions in Dielectron and Diphoton Production. Physical Review Letters, 2001, 86, 1156-1161.	7.8	70
100	Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	70
101	Searches for physics beyond the standard model with the $M_{\mathrm{T2}}$ variable in hadronic final states with and without disappearing tracks in proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 3.	3.9	70
102	Measurement of the $\sigma(\mathrm{t}\bar{\mathrm{t}})$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	69
103	Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	69
104	Search for anomalous production of multilepton events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	68
105	Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469.	3.9	68
106	Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	68
107	Measurement of the inclusive 3-jet production differential cross section in proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186.	3.9	68
108	Measurement of the $\sigma(\mathrm{t}\bar{\mathrm{t}})$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368.	3.9	68

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109	Extraction of the width of the $W$ boson from measurements of $\sigma(pp \rightarrow W+X) \cdot \mathcal{B}(W \rightarrow e\gamma)$ and $\sigma(pp \rightarrow Z+X) \cdot \mathcal{B}(Z \rightarrow ee)$ and their ratio. Physical Review D, 2000, 61, .	4.7	67
110	High- $p_T$ jets in $\bar{p}p$ collisions at $\sqrt{s}=630$ and 1800 GeV. Physical Review D, 2001, 64, .	4.7	67
111	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	66
112	CERN LHC signatures of new gauge bosons in the minimal Higgsless model. Physical Review D, 2008, 78, .	4.7	65
113	Long-range and short-range dihadron angular correlations in central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	65
114	Measurement of differential cross sections for the production of a pair of isolated photons in $pp$ collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 3129.	3.9	65
115	Uncovering Natural Supersymmetry via the interplay between the LHC and direct Dark Matter detection. Journal of High Energy Physics, 2015, 2015, 1.	4.7	65
116	Leptoquark single and pair production at LHC with CalcHEP/CompHEP in the complete model. Journal of High Energy Physics, 2005, 2005, 005-005.	4.7	64
117	Measurement of the sum of $WW$ and $WZ$ production with $W$ +dijet events in $pp$ collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2283.	3.9	64
118	Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 439.	3.9	64
119	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	63
120	Inclusive Jet Cross Section in $\bar{p}p$ Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1999, 82, 2451-2456.	7.8	62
121	Measurement of the $W+W\gamma$ cross section in $pp$ collisions at $\sqrt{s} = 7$ TeV and limits on anomalous $WW\gamma^3$ and $WWZ$ couplings. European Physical Journal C, 2013, 73, 1.	3.9	62
122	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in $pp$ collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 13.	3.9	62
123	Search for dark matter produced with an energetic jet or a hadronically decaying $W$ or $Z$ boson at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	62
124	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
125	Search for resonant and nonresonant new phenomena in high-mass dilepton final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	62
126	Dijet Mass Spectrum and a Search for Quark Compositeness in $\bar{p}p$ Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1999, 82, 2457-2462.	7.8	61



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127	Measurement of prompt $J/\psi$ pair production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	61
128	Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 1.	3.9	60
129	Search for single top quark production at $D\bar{A}^*$ using neural networks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 517, 282-294.	4.1	59
130	Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	59
131	Search for anomalous $t\bar{t}$ production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1.	4.7	58
132	Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	58
133	Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.	4.7	58
134	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2015, 75, 237.	3.9	58
135	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at 8 TeV. European Physical Journal C, 2018, 78, 701.	3.9	58
136	Measurement of the High-Mass Drell-Yan Cross Section and Limits on Quark-Electron Compositeness Scales. Physical Review Letters, 1999, 82, 4769-4774.	7.8	57

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145	Exclusive $\hat{t}\hat{t}^* \hat{t}^{1/4} + \hat{t}^{1/4} \hat{t}^*$ production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	56
146	Event activity dependence of $\Upsilon$ (nS) production in $\sqrt{s} = 5.02$ TeV pPb and $\sqrt{s} = 2.76$ TeV pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	56
147	Search for Squarks and Gluinos in Events Containing Jets and a Large Imbalance in Transverse Energy. Physical Review Letters, 1999, 83, 4937-4942.	7.8	55
148	Measurement of masses in the $\overline{t}t$ system by kinematic endpoints in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2494.	3.9	55
149	Measurement of associated W + charm production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	55
150	Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 451.	3.9	55
151	Search for Large Extra Dimensions in the Monojet+ $E_T$ Channel with the DØ Detector. Physical Review Letters, 2003, 90, 251802.	7.8	54
152	Helicity of the W boson in lepton+jets $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/xml/common/struct-cite/dtd" data-bbox="83 405 783 465"/>$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 288.	4.1	54
153	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 288.	3.9	54
154	Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $\sqrt{s} = 8$ TeV and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	54
155	Di-boson signatures as standard candles for partial compositeness. Journal of High Energy Physics, 2017, 2017, 1.	4.7	54
156	Search for charged Higgs bosons in the $H_{\pm} \rightarrow \tau^{\pm} \nu_{\tau}$ decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	54
157	Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1.	4.7	54
158	Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1.	4.7	54
159	Determination of the absolute jet energy scale in the DØ calorimeters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 424, 352-394.	1.6	53
160	Measurement of the inclusive differential cross section for Z bosons as a function of transverse momentum in pp collisions at $\sqrt{s} = 1.8$ TeV. Physical Review D, 2000, 61, .	4.7	53
161	SUSY Normal Scalar Mass Hierarchy Reconciles (g-2) <sub>b</sub> and Relic Density. Journal of High Energy Physics, 2004, 2004, 044-044.	4.7	53
162	Measurement of the $t\bar{t}$ production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	53

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163	Measurement of prompt and nonprompt $\frac{J/\psi}{\psi(2S)}$ production in $p\bar{p}$ and $p\bar{p}$ collisions at $\sqrt{s_{NN}} = 5.02, \text{ext} \{TeV\}$ s. European Physical Journal C, 2017, 77, 269.	3.9	53
164	Measurement of the $\sigma_{\text{production}}$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	4.7	52
165	Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459.	3.9	52
166	Measurements of the $p\bar{p} \rightarrow Z\gamma$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	3.9	52
167	Prospects for heavy supersymmetric charged Higgs boson searches at hadron colliders. Journal of High Energy Physics, 2002, 2002, 059-059.	4.7	51
168	Search for exclusive or semi-exclusive $\tilde{g}\tilde{g}$ production and observation of exclusive and semi-exclusive $e^+e^-$ production in pp collisions at $\sqrt{s}=7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	51
169	Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.	4.7	51
170	First measurement of the underlying event activity at the LHC with $\sqrt{s} = 0.9 \text{ TeV}$ . European Physical Journal C, 2010, 70, 555-572.	3.9	50
171	Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s}=0.9, 2.76, \text{and}; 7 \text{ TeV}$ s. Journal of High Energy Physics, 2013, 2013, 1.	4.7	50
172	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13, \text{ext} \{TeV\}$ s. European Physical Journal C, 2019, 79, 564.	3.9	50
173	Search for new physics with jets and missing transverse momentum in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2011, 2011, 1.	4.7	49
174	Search for leptonic decays of $W\tilde{W}^2$ bosons in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	4.7	49
175	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.	3.9	49
176	Limits on Anomalous $WW\tilde{W}^3$ Couplings from $p\bar{p} \rightarrow \tilde{W}^3 + X$ Events at $\sqrt{s}=1.8 \text{ TeV}$ . Physical Review Letters, 1997, 78, 3634-3639.	7.8	48
177	Ratio of Isolated Photon Cross Sections in $p\bar{p} \rightarrow \gamma\gamma$ Collisions at $\sqrt{s}=630$ and $1800 \text{ GeV}$ . Physical Review Letters, 2001, 87, 251805.	7.8	48
178	Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	4.7	48
179	Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s}=8 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	48
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483	Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
484	Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
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