

# Sergio F Novaes

## List of Publications by Year in descending order

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Version: 2024-02-01

584  
papers

31,683  
citations

5248

83  
h-index

9311

143  
g-index

596  
all docs

596  
docs citations

596  
times ranked

11031  
citing authors

#	ARTICLE	IF	CITATIONS
1	The CMS experiment at the CERN LHC. Journal of Instrumentation, 2008, 3, S08004-S08004.	0.5	2,192
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.	1.4	541
3	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	1.4	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.	1.6	497
5	Observation and studies of jet quenching in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Transverse Momentum and Pseudorapidity Distributions of Charged Hadrons in $\sqrt{s_{NN}} = 2.76$ TeV PbPb Collisions. Physical Review Letters, 2010, 105, 022002.	1.1	455
6	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.	2.9	400
7	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 421.	1.4	369
8	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	1.4	355
9	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.	1.6	320
10	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.	1.4	320
11	Measurement of the $B \rightarrow D^* \ell \bar{\nu}_\ell$ branching fraction and search for $B \rightarrow D^* \tau \bar{\nu}_\tau$ . Physical Review Letters, 2013, 110, 081803.	2.9	282
12	Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to $Z\gamma$ and $Z\nu\bar{\nu}$ Boson Pairs. Physical Review Letters, 2013, 110, 081803.	2.9	270
13	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.	1.4	241
14	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ and 2.36 TeV. Journal of High Energy Physics, 2010, 2010, 1.	1.6	230
15	Observation of Sequential $\Lambda^0$ Suppression in PbPb Collisions. Physical Review Letters, 2012, 109, 222301.	2.9	220
16	Observation of Higgs Boson Decay to Bottom Quarks. Physical Review Letters, 2018, 121, 121801.	2.9	219
17	Observation of $Z \rightarrow \tau^+ \tau^-$ Production. Physical Review Letters, 2018, 120, 231801.	2.9	209

#	ARTICLE	IF	CITATIONS
19	Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy. Physical Review Letters, 2011, 107, 221804.	2.9	208
20	Suppression of non-prompt $J/\psi$ , prompt $J/\psi$ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	200
21	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	1.4	198
22	Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 542.	1.4	191
23	Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2013, 87, 054907.	1.1	185
24	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	181
25	Search for heavy neutrinos and $W$ bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3149.	1.4	179
26	Evidence for Collective Multiparticle Correlations in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2015, 115, 012301.	2.9	177
27			

#	ARTICLE	IF	CITATIONS
37	Evidence for transverse-momentum- and pseudorapidity-dependent event-plane fluctuations in PbPb and $p$ collisions. Physical Review C, 2015, 92, .	1.1	140
38	Strange particle production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1. Measurement of Long-Range Near-Side Two-Particle Angular Correlations in $pp$ Collisions at $\sqrt{s} = 0.9$ and 7 TeV. Physical Review Letters, 2016, 116, 172302.	1.6	139
39	Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2014, 89, .	2.9	139
40	Prompt and non-prompt $J/\psi$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	1.4	135
41	Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2014, 89, .	1.1	133
42	A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	129
43	Search for Dijet Resonances in $pp$ Collisions at CMS. Physical Review Letters, 2010, 105, 211801.	2.9	126
44	Search for Dark Matter and Large Extra Dimensions in $pp$ Collisions Yielding a Photon and Missing Transverse Energy. Physical Review Letters, 2012, 108, 261803.	2.9	126
45	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. Measurement of the Inclusive Jet Cross Section in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 132001.	1.8	126
46	Measurement of the Inclusive Jet Cross Section in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 132001.	2.9	125
47	Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	1.4	125
48	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.	1.4	123
49	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	122
50	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	1.4	120
51	Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 109, 171803.	2.9	118
52	Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	118
53	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.	1.6	117
54	Measurements of differential jet cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the CMS detector. Physical Review D, 2013, 87, .	1.6	115

#	ARTICLE	IF	CITATIONS
55	Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s} = 2.9$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	2.9	114
56	Measurement of jet fragmentation in PbPb and pPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.1	113
57	Observation of the Associated Production of a Single Top Quark and a Higgs Boson in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 9L.	1.6	108
58	Observation of Charge-Dependent Azimuthal Correlations in $pp$ Collisions and Its Implication for the Search for the Chiral Magnetic Effect. Physical Review Letters, 2017, 118, 122301.	2.9	108
59	Charged particle multiplicities in $pp$ interactions at $\sqrt{s} = 0.9, 2.36, \text{ and } 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	106
60	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	103
61	Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 121803.	2.9	102
62	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.	1.6	101
63	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.	1.6	100
64	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	99
65	Search for new phenomena with the $M_{T2}$ variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 710.	1.4	98
66	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.	1.6	97
67	Measurement of the Electron Charge Asymmetry in Inclusive $W$ Production in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	2.9	97
68	Search for supersymmetry in hadronic final states using $M_{T2}$ in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	2.9	95
69	Searches for invisible decays of the Higgs boson in $pp$ collisions at $\sqrt{s} = 7, 8, \text{ and } 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	95

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73	Measurement of inclusive $W$ and $Z$ boson production cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2013, 111, 211804.	2.9	94
74	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.	1.6	92
75	Searches for new physics using the $\tilde{t}\tilde{t}^*$ invariant mass distribution in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2013, 111, 211804.	2.9	90
76	Upsilon production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2011, 83, .	1.6	88
77	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.	1.4	88
78	Observation of Electroweak Production of Same-Sign $W$ Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	2.9	86
79	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.	1.6	86
80	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	85
81	Evidence of jet quenching in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 113, 102301.	2.9	85
82	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.	1.6	85
83	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.	1.6	85
84	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 2847.	1.4	85
85	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.	1.6	83
86	Measurement of the differential cross section and charge asymmetry for inclusive $W$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	1.4	83
87	Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509.	1.4	83
88	Measurement of the $J/\psi$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 113, 102301.	2.9	82
89	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.	1.4	82
90	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.	1.6	82

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91	$J/\psi$ and $\Upsilon(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	81
92	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	1.6	81
93	Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	81
94	Measurement of the $B \rightarrow p$ Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 212301.	2.9	80
95	Study of $Z$ Boson Production in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 106, 212301.	2.9	80
96	Study of Vector Boson Scattering and Search for New Physics in Events with Two Same-Sign Leptons and Two Jets. Physical Review Letters, 2015, 114, 051801.	2.9	80
97	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.	1.6	78
98	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.	1.4	78
99	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.	1.6	77
100	Search for Top-Quark Partners with Charge $Q = 5/3$ in the Same-Sign Dilepton Final State. Physical Review Letters, 2014, 112, 171801.	2.9	76
101	Study of exclusive two-photon production of $W+W\hat{A}$ in pp collisions at $\sqrt{s} = 7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.	1.6	75
102	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 1.	1.4	75
103	Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 212301.	2.9	74
104	Measurement of the $W^+W^-$ cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.	1.4	74
105	Search for Narrow Resonances in Dijet Final States at $\sqrt{s} = 7$ TeV using the Novel CMS Technique of Data Scouting. Physical Review Letters, 2016, 117, 031802.	2.9	74
106	Measurement of the $X(3872)$ production cross section via decays to $J/\psi \Upsilon + \Upsilon \hat{A}$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	73
107	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.	1.4	73
108	Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 117, 051802.	2.9	73

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109	Search for narrow resonances using the dijet mass spectrum in $pp$ collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	71
110	Measurement of the Channel Single Top Quark Production Cross Section in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	2.9	70
111	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.	1.6	70
112	Measurement of the Splitting Function in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	2.9	70
113	Measurement of the $\Lambda$ production cross section in the dilepton channel in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	2.9	70
114	Searches for physics beyond the standard model with the $M_{T2}$ variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 3.	1.4	70
115	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.	1.6	69
116	Search for anomalous production of multilepton events in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	68
117	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.	1.4	68
118	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.	1.6	68
119	Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186.	1.4	68
120	Measurement of the $\sigma(t\bar{t})$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in $pp$ collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2019, 79, 368.	1.4	68
121	Measurement of the differential cross section for isolated prompt photon production in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2011, 84, .	1.6	65
122	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.	1.6	65
123	Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	2.9	65
124	Observation of a New $\Lambda$ Baryon. Physical Review Letters, 2012, 108, 252002.	2.9	65
125	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.	1.4	65

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127	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. Search for Flavor-Changing Neutral Currents in Top-Quark Decays $\frac{d\sigma}{d\Omega dt} \propto \frac{d\sigma}{d\Omega dt} \propto \frac{d\sigma}{d\Omega dt}$	1.4	64
128	Measurements of $WZ$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2283. Search for Flavor-Changing Neutral Currents in Top-Quark Decays $\frac{d\sigma}{d\Omega dt} \propto \frac{d\sigma}{d\Omega dt} \propto \frac{d\sigma}{d\Omega dt}$	1.4	64
129	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.	1.4	64
130	Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in Pb-Pb collisions at the CERN Large Hadron Collider. Physical Review C, 2018, 97, 014907.	1.1	64
131	Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider. Physical Review Letters, 2012, 108, 111801. Measurements of $WZ$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2283.	2.9	63
132	Spin Correlations and Top-Quark Polarization Using Dilepton Final States in $WZ$ Production $\frac{d\sigma}{d\Omega dt} \propto \frac{d\sigma}{d\Omega dt} \propto \frac{d\sigma}{d\Omega dt}$	2.9	63
133	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, 1, 175. Measurement of the Isolated Prompt Photon Production Cross Section in $WZ$ Collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2283.	1.6	63
134	Measurements of $WZ$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2283.	2.9	62
135	Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2012, 109, 152303.	2.9	62
136	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.	1.4	62
137	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.	1.4	62
138	Measurement of the $B \rightarrow \Lambda_c \mu \mu$ Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2017, 119, 152301.	2.9	62
139	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.	1.6	62
140	Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	62
141	Observation of Two Exotic $B_c$ States and Measurement of the $B_c \rightarrow \Lambda_c \mu \mu$ Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2017, 119, 152301.	2.9	62
142	Threshold effects on heavy quark production in $3\gamma$ interactions. Physical Review D, 1993, 47, 1889-1899.	1.6	61
143	Measurement of the $B \rightarrow \Lambda_c \mu \mu$ Cross Section in $WZ$ Collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2283.	2.9	61
144	Evidence for Associated Production of a Single Top Quark and W Boson in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2013, 110, 022003.	2.9	61

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145	Measurement of prompt $J/\psi$ pair production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	61
146	Search for a Narrow Resonance Lighter than $200\text{ GeV}$ Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2020, 124, 131802.	2.9	61
147	Dijet Azimuthal Decorrelations in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 122003.	2.9	60
148	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, 13.	1.4	60
149	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, 13.	2.9	60
150	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.	1.6	59
151	Search for a Techni-like Quark with Charge $\pm 2/3$ in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 122003.	2.9	59
152	Measurement of inclusive jet cross sections in $pp$ and PbPb collisions at $\sqrt{s} = 7$ TeV. Physical Review C, 2017, 96, .	1.1	59
153	Search for anomalous $t$ production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1.	1.6	58
154	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.	1.6	58
155	Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.	1.6	58
156	Interpretation of searches for supersymmetry with simplified models. Physical Review D, 2013, 88, .	1.6	58
157	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.	1.4	58
158	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $pp$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 701.	1.4	58
159			

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163	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	57
164	Charged particle transverse momentum spectra in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	56
165	Exclusive $\hat{\tau}^+ \hat{\tau}^- + \hat{\tau}^+ \hat{\tau}^-$ production in proton-proton collisions at $\sqrt{s} = \{7\}$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	56
166	Event activity dependence of $Y$ (nS) production in $\sqrt{s_{NN}} = 5.02$ TeV pPb and $\sqrt{s} = 2.76$ TeV pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	1.6	56
167	Measurement of masses in the $\overline{\text{t}}\text{t}$ system by kinematic endpoints in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2494.	1.4	55
168	Measurement of associated W + charm production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	55
169	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.	1.4	55
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171	Measurement of Dijet Angular Distributions and Search for Quark Compositeness in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 201104.	2.9	54
172	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.	1.4	54
173	Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $s = 8$ TeV and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	54
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177	Search for Heavy Neutrinos and Bosons with Right-Handed Couplings in a Left-Right Symmetric Model in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 201104.	2.9	53
178	Search for Heavy Neutrinos and Bosons with Right-Handed Couplings in a Left-Right Symmetric Model in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 201104.	2.9	53
179	Measurement of prompt and nonprompt $J/\psi$ production in pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.	1.4	53
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190	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 564.	1.4	50
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193	Search for New Physics with Same-Sign Isolated Dilepton Events with Jets and Missing Transverse Energy. Physical Review Letters, 2012, 109, 071803.	2.9	49
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201	Search for Top Squarks in Parity-Violating Supersymmetry Using Three or More Leptons and Measurement of Prompt Tagged Jets. Physical Review Letters, 2013, 111, 221801.	2.9	47
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203	Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	1.6	46
204	Measurement of the Polarization of Bosons with Large Transverse Momenta in	2.9	46
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209	Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	45
210	Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays. Physical Review Letters, 2014, 112, 161802.	2.9	45
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213	Inclusive Search for Supersymmetry Using Razor Variables in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 211802.	2.9	44
214	Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays. Physical Review Letters, 2014, 112, 161802.	2.9	44
215	Search for a light charged Higgs boson decaying to $c\bar{s}$ in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1-37.	1.6	44

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219	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV} $s = 13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 140.	1.4	44
220	Search for pair-produced dijet resonances in four-jet final states in proton-proton collisions at $\sqrt{s} = 8$ , ext {TeV} $s = 8$ TeV. <i>European Physical Journal C</i> , 2014, 74, 3060.	2.9	43
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222	Identification techniques for highly boosted W bosons that decay into hadrons. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	43
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225	Measurement of the top-quark mass in $t\bar{t}$ events with dilepton final states in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1.	1.4	42
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228	Search for Stopped Gluinos in proton-proton collisions at $\sqrt{s} = 8$ , ext {TeV} $s = 8$ TeV. <i>Physical Review Letters</i> , 2011, 106, 011801.	2.9	41
229	Search for pair-produced dijet resonances in four-jet final states in proton-proton collisions at $\sqrt{s} = 8$ , ext {TeV} $s = 8$ TeV. <i>European Physical Journal C</i> , 2014, 74, 3060.	1.6	41
230	Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	41
231	Search for production of long-lived particles in proton-proton collisions at $\sqrt{s} = 8$ , ext {TeV} $s = 8$ TeV. <i>Physical Review Letters</i> , 2011, 106, 011801.	1.6	41
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238	Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair. Physical Review Letters, 2018, 120, 071802.	2.9	40
239	Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.	1.4	40
240	Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.	1.4	40
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244	Inclusive b-jet production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	39
245	Measurement of the $Z\hat{1}^3$ b-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	39
246	Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	1.6	39
247	Measurement of the ZZ production cross section and search for anomalous couplings in $2\hat{1}^2$ final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	39
248	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	39
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273	Measurement of exclusive $\Upsilon$ photoproduction from protons in $p\text{-}p$ collisions at $\sqrt{s}=5.02$ TeV. European Physical Journal C, 2019, 79, 277.	1.4	35
274	Measurement of associated production of a W boson and a charm quark in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 269.	1.4	35
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282	Measurement of $t\bar{t}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 379.	1.4	34
283	Measurements of the $t\bar{t}$ production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections. European Physical Journal C, 2017, 77, 15.	1.4	34
284	Measurement of the top quark mass with lepton+jets final states using $p\text{-}p$ collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 891.	1.4	34
285	Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 90.	1.4	34
286	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	33
287	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	33
288	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371.	1.4	33

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290	Search for dark matter produced in association with a leptonically decaying $Z$ boson in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV}. European Physical Journal C, 2021, 81, 13.	1.4	33
291	Search for top squark pair production using dilepton final states in collision data collected at $\sqrt{s} = 13$ , ext {TeV}. European Physical Journal C, 2021, 81, 3.	1.4	33
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293	Measurement of $\overline{B}B$ angular correlations based on secondary vertex reconstruction at $\sqrt{s} = 7$ , ext {TeV}. Journal of High Energy Physics, 2011, 2011, 1.	1.6	32
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299	Correlations in Pb-Pb and $pp$ collisions at $\sqrt{s} = 2.76$ and $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2018, 121, 242301.	2.9	32
300	Searches for pair production of third-generation squarks in $\sqrt{s} = 13$ TeV pp collisions. European Physical Journal C, 2017, 77, 327.	1.4	32
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309	Measurement of Bose-Einstein correlations in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	30
310	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	30
311	Search for a Higgs boson in the decay channel $H \rightarrow ZZ^* \rightarrow q\bar{q}$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	30
312	Measurement of the W-boson helicity in top-quark decays from $W$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	30
313	Search for massive WH resonances decaying into the $b\bar{b}$ final state at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 237.	1.4	30
314	Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 751.	1.4	30
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317	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	1.6	29
318	Search for a $W$ boson decaying into $\tilde{\chi}^0$ or Techni- $\tilde{\chi}^0$ in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 372.	2.9	29
319	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2016, 76, 372.	1.4	29
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328	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	28
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330	Study of Z production in PbPb and pp collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV in the dimuon and dielectron decay channels. Journal of High Energy Physics, 2015, 2015, 1.	1.6	27
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351	Yields from $t\bar{t}$ Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 123, 152001.	2.9	24
352	Measurements of $\{p\} \{p\} \rightarrow \{Z\} \{Z\}$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.	1.4	24
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484	Search for electroweak production of charginos in final states with two $\tilde{\chi}_1^\pm$ , leptons in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	11
485	Measurement of the semileptonic $t \bar{t} \rightarrow \tilde{\chi}_1^0 + \tilde{\chi}_1^\pm$ production cross section in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	11
486	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	11

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490	Measurement of electroweak production of a $W$ boson in association with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 43.	1.4	11
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504	Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 1.	1.4	9

#	ARTICLE	IF	CITATIONS
505	Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ $s = 13$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	9
506	Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and $\langle \text{mml:math display="inline" } \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Collisions at $\langle \text{mml:math display="inline" } \rangle \langle \text{mml:mrow} \langle \text{mml:msqrt} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{s} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Multiparticle correlation studies in $\langle \text{mml:math display="inline" } \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mtext} \rangle \text{Pb} \langle \text{mml:mtext} \rangle \langle \text{mml:math} \rangle$ collisions at $\langle \text{mml:math display="inline" } \rangle \langle \text{mml:mrow} \langle \text{mml:msqrt} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{s} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ TeV. Physical Review C, 2020, 101, .	2.9	9
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508	Search for a heavy vector resonance decaying to a $\mathbb{Z}$ boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ $s = 13$ TeV. European Physical Journal C, 2021, 81, 688. Differential Higgs Boson Production Cross Sections in the Decay Mode to a Pair of $\langle \text{mml:math display="inline" } \rangle \langle \text{mml:mi} \rangle \tilde{l}, \langle \text{mml:math} \rangle$ Leptons in $\langle \text{mml:math display="inline" } \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Collisions at $\langle \text{mml:math display="inline" } \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:mi} \rangle \text{s} \langle \text{mml:mi} \rangle$	1.4	9
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562	Search for $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle W \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Boson Decays to Three Charged Pions. Physical Review Letters, 2019, 122, 151802.	2.9	4
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