

Richard John Hall-Wilton

List of Publications by Year in descending order

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717
papers

50,345
citations

2203

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all docs

727
docs citations

727
times ranked

13519
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain Effects of Absorbing Layer on Superconducting Properties of a High-Flux Neutron Detector. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-4.	1.1	2
2	Effect of substrate roughness and material selection on the microstructure of sputtering deposited boron carbide thin films. Surface and Coatings Technology, 2022, 433, 128160.	2.2	9
3	Rate-capability of the VMM3a front-end in the RD51 Scalable Readout System. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1031, 166548.	0.7	4
4	General considerations for effective thermal neutron shielding in detector applications. EPJ Techniques and Instrumentation, 2022, 9, .	0.5	2
5	The instrument suite of the European Spallation Source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 957, 163402.	0.7	90
6	Multilayer ^{10}B -RPC neutron imaging detector. Journal of Instrumentation, 2020, 15, P06007-P06007.	0.5	5
7	Response of a Li-glass/multi-anode photomultiplier detector to focused proton and deuteron beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 984, 164604.	0.7	5
8	The Multi-Blade Boron-10-based neutron detector performance using a focusing reflectometer. Journal of Instrumentation, 2020, 15, P03010-P03010.	0.5	5
9	Characterization of boron-coated silicon sensors for thermal neutron detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 972, 164124.	0.7	6
10	High-rate measurements of the novel BAND-GEM technology for thermal neutron detection at spallation sources. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 957, 163389.	0.7	3
11	Verification of He-3 proportional counters' fast neutron sensitivity through a comparison with He-4 detectors. European Physical Journal Plus, 2020, 135, 1.	1.2	4
12	Vanadium-based neutron beam monitor. Physical Review Accelerators and Beams, 2020, 23, .	0.6	5
13	Parasitic neutron beam monitoring: Proof of concept on gamma monitoring of neutron chopper phases. Europhysics Letters, 2020, 132, 22001.	0.7	1
14	Boron-10 lined RPCs for sub-millimeter resolution thermal neutron detectors: Feasibility study in a thermal neutron beam. Journal of Instrumentation, 2019, 14, P01017-P01017.	0.5	9
15	Performance evaluation of the Boron Coated Straws detector with Geant4. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 943, 162463.	0.7	9
16	Response of a Li-glass/multi-anode photomultiplier detector to α -particles from ^{241}Am . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 929, 90-96.	0.7	5
17	I-BAND-GEM: a new way for improving BAND-GEM efficiency to thermal and cold neutrons. European Physical Journal Plus, 2019, 134, 1.	1.2	4
18	A stochastic process approach to multilayer neutron detectors. Scandinavian Journal of Statistics, 2019, 46, 621-635.	0.9	0

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19	Suppression of intrinsic neutron background in the Multi-Grid detector. Journal of Instrumentation, 2019, 14, P01021-P01021.	0.5	6
20	Complex Geant4 Simulation Study for the Optimisation of Multi-Grid Detector. , 2019, , .		0
21	First neutron data recorded at the V20 Test Instrument utilizing prototype chopper systems and beam monitors planned for ESS. Europhysics Letters, 2019, 128, 52001.	0.7	6
22	Fast neutron sensitivity for ^3He detectors and comparison with Boron-10 based neutron detectors. EPJ Techniques and Instrumentation, 2019, 6, .	0.5	7
23	Measurement of the thickness of B ₄ C layers deposited over metallic grids via multi-angle neutron radiography. Measurement Science and Technology, 2019, 30, 015402.	1.4	0
24	Plasma CVD of hydrogenated boron-carbon thin films from triethylboron. Journal of Chemical Physics, 2018, 148, 034701.	1.2	7
25	Performance of the high-efficiency thermal neutron BAND-GEM detector. Progress of Theoretical and Experimental Physics, 2018, 2018, .	1.8	13
26	Simulation tools for detector and instrument design. Physica B: Condensed Matter, 2018, 551, 386-389.	1.3	14
27	Fast neutron sensitivity of neutron detectors based on Boron-10 converter layers. Journal of Instrumentation, 2018, 13, P03004-P03004.	0.5	20
28	Investigation of neutron scattering in the Multi-Blade detector with Geant4 simulations. Journal of Instrumentation, 2018, 13, P12031-P12031.	0.5	3
29	Characterization of the Multi-Blade 10B-based detector at the CRISP reflectometer at ISIS for neutron reflectometry at ESS. Journal of Instrumentation, 2018, 13, P05009-P05009.	0.5	18
30	Large High-Efficiency Thermal Neutron Detectors Based on the Micromegas Technology. Universe, 2018, 4, 134.	0.9	1
31	Detector rates for the Small Angle Neutron Scattering instruments at the European Spallation Source. Journal of Instrumentation, 2018, 13, P07016-P07016.	0.5	10
32	Software-based data acquisition and processing for neutron detectors at European Spallation Source—early experience from four detector designs. Journal of Instrumentation, 2018, 13, T11002-T11002.	0.5	8
33	A high-efficiency thermal neutron detector based on thin 3D ^{10}B ^4C converters for high-rate applications. Europhysics Letters, 2018, 123, 52001.	0.7	9
34	Multi-GEM Detectors in High Particle Fluxes. EPJ Web of Conferences, 2018, 174, 05001.	0.1	5
35	Scattered neutron background in thermal neutron detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 902, 173-183.	0.7	13
36	Neutron reflectometry with the Multi-Blade ^{10}B -based detector. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20180266.	1.0	11

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37	Measurements of the $\overline{\text{t}}\text{t}$ 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
38	Using Back-Scattering to Enhance Efficiency in Neutron Detectors. IEEE Transactions on Nuclear Science, 2017, , 1-1.	1.2	2
39	Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV. Journal of Instrumentation, 2017, 12, P02014-P02014.	0.5	216
40	A comparison of untagged gamma-ray and tagged-neutron yields from 241 AmBe and 238 PuBe sources. Applied Radiation and Isotopes, 2017, 127, 98-102.	0.7	21
41	Multi-Grid detector for neutron spectroscopy: results obtained on time-of-flight spectrometer CNCS. Journal of Instrumentation, 2017, 12, P04030-P04030.	0.5	29
42	The CMS trigger system. Journal of Instrumentation, 2017, 12, P01020-P01020.	0.5	307
43	Neutron detectors for the ESS diffractometers. Journal of Instrumentation, 2017, 12, P01019-P01019.	0.5	27
44	Tagging fast neutrons from a 252 Cf fission-fragment source. Applied Radiation and Isotopes, 2017, 128, 270-274.	0.7	8
45	Neutron activation and prompt gamma intensity in Ar/CO ₂ -filled neutron detectors at the European Spallation Source. Applied Radiation and Isotopes, 2017, 128, 275-286.	0.7	6
46	Measurement of the mass difference between top quark and antiquark in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 50-71.	1.5	9
47	Gas Phase Chemistry of Trimethylboron in Thermal Chemical Vapor Deposition. Journal of Physical Chemistry C, 2017, 121, 26465-26471.	1.5	16
48	Low gas pressure operation to improve performances of Multi-Grid detectors. , 2017, , .		0
49	The Multi-Blade Boron-10-based neutron detector for high intensity neutron reflectometry at ESS. Journal of Instrumentation, 2017, 12, P03013-P03013.	0.5	37
50	Gamma- and Fast Neutron- Sensitivity of ^{10}B - Based Neutron Detectors at ESS. , 2017, , .		0
51	Characterization of thermal neutron beam monitors. Physical Review Accelerators and Beams, 2017, 20, .	0.6	18
52	The Opportunity Offered by the ESSnuSB Project to Exploit the Larger Leptonic CP Violation Signal at the Second Oscillation Maximum and the Requirements of This Project on the ESS Accelerator Complex. Advances in High Energy Physics, 2016, 2016, 1-16.	0.5	17
53	Shielding optimization study for ^{10}B -Based large area neutron detectors with detailed Geant4 model. , 2016, , .		1
54	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

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55	Characterization of the radiation background at the Spallation Neutron Source. Journal of Physics: Conference Series, 2016, 746, 012033.	0.3	5
56	Reconstruction and identification of \tilde{l}, \tilde{l}^* , lepton decays to hadrons and $\tilde{l}^* \rightarrow \tilde{l} + \gamma$ at CMS. Journal of Instrumentation, 2016, 11, P01019-P01019.	0.5	85
57	First measurements with new high-resolution gadolinium-GEM neutron detectors. Journal of Instrumentation, 2016, 11, P05011-P05011.	0.5	28
58	Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 757, 6-31.	1.5	6
59	Angular analysis of the decay $B_0 \rightarrow K^* \ell^+ \ell^-$ from pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 424-448.	1.5	87
60	Neutron radiography as a non-destructive method for diagnosing neutron converters for advanced thermal neutron detectors. Journal of Instrumentation, 2016, 11, C03033-C03033.	0.5	3
61	Charge transfer properties through graphene for applications in gaseous detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 571-574.	0.7	9
62	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	31
63	Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	27
64	Search for neutral resonances decaying into a Z boson and a pair of b jets or \tilde{l}, \tilde{l}^* , leptons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 369-394.	1.5	45
65	The light-yield response of a NE-213 liquid-scintillator detector measured using ^6Li tagged neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 571-574.	0.7	15
66	Measurement of the inelastic cross section in proton-lead collisions at $\sqrt{s_{NN}} = 7.6$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 369-394.	1.5	44
67	Search for lepton flavour violating decays of the Higgs boson to $e\tilde{l}$ and $e\tilde{l}^*$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 369-394.	1.5	44
68	Measurement of the inelastic cross section in proton-lead collisions at $\sqrt{s_{NN}} = 7.6$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 641-662.	1.5	17
69	Search for R-parity violating decays of a top squark in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 178-201.	1.5	6
70	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	13
71	Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 325.	1.4	25
72	Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Physical Review D, 2016, 94, .	1.6	4

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73	Low-temperature growth of boron carbide coatings by direct current magnetron sputtering and high-power impulse magnetron sputtering. <i>Journal of Materials Science</i> , 2016, 51, 10418-10428. Search for vectorlike charge	1.7	44
74	in proton-proton collisions at $\sqrt{s} = 2.76$ TeV		

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91	Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 460.	1.4	18
92	Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $s = 7$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	20
93	Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 2.76$ TeV. European Physical Journal C, 2016, 76, 1.	1.4	26
94	Measurement of $\overline{t}t$ 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
95	Observation of top quark pairs produced in association with a vector boson in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	23
96	Search for $W\hat{t}$ in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	3
97	Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	29
98	Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	5
99	Search for excited leptons in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. Measurement of the ratio $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mi mathvariant="script" \rangle B} \langle \text{mml:mi} \rangle \langle \text{mml:mo}$	1.6	16
100			

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109	Measurement of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}} + \text{jets})$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 128.	1.4	41
110	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	1.4	499
111	Search for massive WH resonances decaying into the $\ell u \bar{b}$ final state at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 237.	1.4	30
112	Search for new phenomena in monophoton final states in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 102-124.	1.5	48
113	Inclusive and differential measurements of the $B \rightarrow \mu^+ \mu^-$ decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 102-124.	1.5	30
114	Measurement of the $B \rightarrow \mu^+ \mu^-$ decay charge asymmetry in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.5	30
115	Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	16
116	Measurement of top quark polarisation in t-channel single top quark production. Journal of High Energy Physics, 2016, 2016, 1.	1.6	15
117	Neutron reflectometry on highly absorbing films and its application to ^{10}B -based neutron detectors. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20150711.	1.0	6
118	Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2016, 116, 071801.	2.9	114
119	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\tilde{l}, \tilde{\nu}$, leptons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	19
120	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
121	Searches for a heavy scalar boson H decaying to a pair of 125 GeV Higgs bosons hh or for a heavy pseudoscalar boson A decaying to Zh, in the final states with $h \rightarrow \tau^+ \tau^-$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 217-244.	1.5	53
122	Search for exotic decays of a Higgs boson into undetectable particles and one or more photons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 363-388.	1.5	13
123	Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 560-582.	1.5	57
124	Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 560-582.	1.5	87
125	Evidence for transverse-momentum- and pseudorapidity-dependent event-plane fluctuations in PbPb and pPb collisions. Physical Review C, 2015, 92, .	1.1	140
126	Search for the standard model Higgs boson produced through vector boson fusion and decaying to $b\bar{b}$. Physical Review D, 2015, 92, .	1.6	43

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127	Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review D, 2015, 92, .	1.6	7
128	Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review D, 2015, 91, .	1.6	73
129	Study of final-state radiation in decays of Z bosons produced in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Physical Review D, 2015, 91, .	1.6	5
130	Measurement of diffractive dissociation cross sections in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review D, 2015, 92, .	1.6	46
131	Constraints on the spin-parity and anomalous couplings of the Higgs boson in proton collisions at 7 and 8 TeV. Physical Review D, 2015, 92, .	1.6	185
132	Search for supersymmetry with photons in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review D, 2015, 92, .	1.6	7
133	Limits on the Higgs boson lifetime and width from its decay to four charged leptons. Physical Review D, 2015, 92, .	1.6	55
134	Evidence for Collective Multiparticle Correlations in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Physical Review Letters, 2015, 115, 012301.	2.9	177
135	Performance of electron reconstruction and selection with the CMS detector in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of Instrumentation, 2015, 10, P06005-P06005.	0.5	410
136	Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of Instrumentation, 2015, 10, P08010-P08010.	0.5	168
137	Neutron beam monitors for the European spallation source. , 2015, , .		0
138	Performance of the CMS missing transverse momentum reconstruction in pp data at $\sqrt{s} = 8 \text{ TeV}$. Journal of Instrumentation, 2015, 10, P02006-P02006.	0.5	93
139	Effects of high charge densities in multi-GEM detectors. , 2015, , .		9
140	Investigation of background in large-area neutron detectors due to alpha emission from impurities in aluminium. Journal of Instrumentation, 2015, 10, P10019-P10019.	0.5	7
141	Multi-Grid boron-10 detector for time-of-flight spectrometers in neutron scattering science. , 2015, , .		1
142	A design study of VOR: A versatile optimal resolution chopper spectrometer for the ESS. EPJ Web of Conferences, 2015, 83, 03002.	0.1	15
143	Search for a pseudoscalar boson decaying into a Z boson and the 125 GeV Higgs boson in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Physics Letters. Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 221-243.	1.5	54
144	Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	1.6	24

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145	Search for third-generation scalar leptoquarks in the $t\bar{t}$ channel in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	1.6	24
146	Search for lepton-flavour-violating decays of the Higgs boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 337-362.	1.5	193
147	Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at $s = 8 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 98-119.	1.5	63
148	Search for heavy Majorana neutrinos in $pp \rightarrow \text{heavy Majorana neutrinos} + \text{jets}$ events in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	1.5	68
149	Searches for supersymmetry using the M_{T2} variable in hadronic events produced in pp collisions at 8 TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	34
150	Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	1.6	37
151	Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	1.6	20
152	Search for a charged Higgs boson in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	1.6	81
153	Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	1.6	12
154	Search for a light charged Higgs boson decaying to $c\bar{s}$ in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1-37.	1.6	44
155	Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. Journal of High Energy Physics, 2015, 2015, 1.	1.6	24
156	Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	1.6	1
157	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
158	Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 494-519.	1.6	1
159	Growth and oxidation stability of cubic $\text{Zr}_{1-x}\text{Gd}_x\text{N}$ solid solution thin films. Journal of Applied Physics, 2015, 117, 195301.	1.1	0
160	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 TeV. European Physical Journal C, 2015, 75, 212.	1.4	541
161	Measurement of the Higgs boson mass in $pp \rightarrow \text{Higgs boson} + \text{jets}$ collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ with the ATLAS and CMS Experiments. Physical Review Letters, 2015, 114, 191803.	2.9	1,062
162	Measurement of the $Z\gamma$ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. Journal of High Energy Physics, 2015, 2015, 1.	1.6	11

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163	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
164	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
165	Measurements of the $Z Z$ production cross sections in the $2u \rightarrow 2l \gamma$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. European Physical Journal C, 2015, 75, 511.	1.4	32
166	Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton-proton collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 187-209.	1.5	63
167	Comparison of the $Z \sqrt{s} \rightarrow \text{jets}$ to $\sqrt{s} \rightarrow \text{jets}$ cross sections in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	6
168	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1.	1.6	30
169	Long-range two-particle correlations of strange hadrons with charged particles in pPb and PbPb collisions at LHC energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 200-224.	1.5	77
170	Tagging fast neutrons from an $^{241}\text{Am}/^9\text{Be}$ source. Applied Radiation and Isotopes, 2015, 98, 74-79.	0.7	32
171	Boron carbide coatings for neutron detection probed by x-rays, ions, and neutrons to determine thin film quality. Journal of Applied Physics, 2015, 117, 034901.	1.1	28
172	Search for new resonances decaying via WZ to leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 740, 61-64.	1.5	57
173	Differential cross section measurements for the production of a W boson in association with jets in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 383-402.	1.5	16
174	Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 503-525.	1.5	18
177	Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 745, 5-28.	1.5	67
178	Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 745, 5-28.	1.5	21
179	Measurement of the cross section ratio $\sigma(\text{pp} \rightarrow \text{Z} \gamma \text{pp}) / \sigma(\text{pp} \rightarrow \text{Z} \text{pp})$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 745, 5-28.	1.5	24
180	Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 745, 5-28.	1.5	15

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182	Measurements of jet multiplicity and differential production cross sections of Z events in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2015, 91, .	1.6	46
183	Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2015, 91, .	1.6	90
184	Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2015, 91, .	1.6	70
185	Search for Monotop Signatures in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. Physical Review Letters, 2015, 114, 101801.	2.9	36
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187	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
188	Search for Displaced Supersymmetry in Events with an Electron and a Muon with Large Impact Parameters. Physical Review Letters, 2015, 114, 061801.	2.9	44
189	Search for supersymmetry using razor variables in events with b -tagged jets in pp collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2015, 91, .	2.9	60
190	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
191	Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2015, 91, .	1.6	167
192	Search for supersymmetry using razor variables in events with p -tagged jets in pp collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2015, 91, .	1.6	46
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206	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
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209	Study of W boson production in pPb collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. European Physical Journal C, 2015, 75, 237.	1.5	42
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214	Searches for supersymmetry with razor variables in pp collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2014, 90, .	1.6	51
215	Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2014, 90, .	1.6	15
216	Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2014, 90, .	1.6	69

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225	Search for production of third-generation scalar leptoquarks and top squarks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 739, 228-249.	1.4	113
226	CHARACTERIZATION OF TIMEPIX DETECTOR COATED WITH 10B4C FILM FOR HIGH RESOLUTION NEUTRON IMAGING. , 2014, , .		1
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231	Search for anomalous production of events with three or more leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2014, 112, 161801.	1.6	70
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233	Measurement of the spin correlations and top-quark polarization using dilepton final states in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2014, 112, 171801.	2.9	63
234	Search for Top-Quark Partners with Charge $\pm 2/3$ in the Same-Sign Dilepton Final State. Physical Review Letters, 2014, 112, 171801.	2.9	76

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235	Measurement of the inclusive cross sections for the production of a Higgs boson and a top quark in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2014, 89, 114011. $\sigma(pp \rightarrow Ht) = \sigma(pp \rightarrow Ht) + \sigma(pp \rightarrow Ht) + \dots$	1.6	6
236	Measurement of the inclusive cross sections for the production of a Higgs boson and a top quark in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2014, 89, 114011. $\sigma(pp \rightarrow Ht) = \sigma(pp \rightarrow Ht) + \sigma(pp \rightarrow Ht) + \dots$	1.6	37
237	Search for Flavor-Changing Neutral Currents in Top-Quark Decays $t \rightarrow c + \gamma$. Physical Review D, 2014, 89, 114011. $\sigma(pp \rightarrow t \rightarrow c \gamma) = \sigma(pp \rightarrow t \rightarrow c \gamma) + \dots$	1.6	161
238	Search for Flavor-Changing Neutral Currents in Top-Quark Decays $t \rightarrow c + \gamma$. Physical Review D, 2014, 89, 114011. $\sigma(pp \rightarrow t \rightarrow c \gamma) = \sigma(pp \rightarrow t \rightarrow c \gamma) + \dots$	1.6	64
239	Search for Flavor-Changing Neutral Currents in Top-Quark Decays $t \rightarrow c + \gamma$. Physical Review D, 2014, 89, 114011. $\sigma(pp \rightarrow t \rightarrow c \gamma) = \sigma(pp \rightarrow t \rightarrow c \gamma) + \dots$	1.6	83
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241	Evidence of Jet Quenching in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 112, 022301. $R_{AA} < 1$	2.9	85
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243	Search for anomalous quartic gauge couplings in $pp \rightarrow H + 2\gamma$ production and constraints on anomalous quartic gauge couplings in $pp \rightarrow H + 2\gamma$ production. Physical Review D, 2014, 89, 114011. $\sigma(pp \rightarrow H + 2\gamma) = \sigma(pp \rightarrow H + 2\gamma) + \dots$	1.6	56
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245	CMS Collaboration. Nuclear Physics A, 2014, 931, 1241-1265. $\sigma(pp \rightarrow H + 2\gamma) = \sigma(pp \rightarrow H + 2\gamma) + \dots$	0.6	1
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249	Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1. $\sigma(pp \rightarrow Ht) = \sigma(pp \rightarrow Ht) + \dots$	1.6	51
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251	Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. $\sigma(pp \rightarrow 4t) = \sigma(pp \rightarrow 4t) + \dots$	1.6	17
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260	Measurement of the ratio R_{bb} in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.		

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280	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
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298	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
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305	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
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322	Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	16
323	Measurement of masses in the $\text{t} \rightarrow \text{W} \text{b}$ system by kinematic endpoints in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2494.	1.4	55
324	Search for physics beyond the standard model in events with \bar{t} , leptons, jets, and large transverse momentum imbalance in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2493.	1.4	22

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326	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at $\sqrt{s}=7\text{ TeV}$. European Physical Journal C, 2013, 73, 2674.	1.4	32

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343	<p>or anomalous production of highly boosted Z bosons decaying to $\tau^+\tau^-$</p> <p>Measurement of the prompt $\tau^+\tau^-$ production cross section in the $ee \rightarrow \tau^+\tau^-$ channel at the Belle II experiment</p>	1.5	6
344	<p>Measurement of the prompt $\tau^+\tau^-$ production cross section in the $ee \rightarrow \tau^+\tau^-$ channel at the Belle II experiment</p>		

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382	Search for pair production of third-generation leptons and top squarks in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 87, 074011.	2.9	44
383	Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network. Physical Review D, 2013, 87, 074011.	1.6	13
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410	Performance of \tilde{l}, q -lepton reconstruction and identification in CMS. Journal of Instrumentation, 2012, 7, P01001-P01001.	0.5	91
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412	Search for quark compositeness in dijet angular distributions from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	18
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421	Search for stopped long-lived particles produced in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	17
422	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
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426	Search for a fermiophobic Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	15
427	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.	1.6	95
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431	Search for resonant $\overline{t} t$ production in lepton+jets events in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26
432	Observation of Z decays to four leptons with the CMS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	1.6	34

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435	Measurement of the top-quark mass in $\overline{t}t$ events with lepton+jets final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	38
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444	Search for heavy long-lived charged particles in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 68-90.	1.5	37
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447	Search for high-mass resonances decaying into lepton pairs in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 718, 103-121.	1.5	45
448	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.	1.5	29
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478	Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 284-306.	1.5	107
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480	Search for large extra dimensions in dimuon and dielectron events in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 403-425.	1.5	17
481	Search for the standard model Higgs boson decaying into two photons in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 403-425.	1.5	151
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491	Indications of Suppression of Excited States in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 106, 201804.	2.9	153
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501	Search for physics beyond the standard model using multilepton signatures in $\sqrt{s} = 7$ TeV pp collisions at CMS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 123-142.	1.5	8
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507	Search for heavy stable charged particles in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	1.6	38
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510	Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	1.6	59
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514	Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	1.6	26
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525	Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in events with a single lepton, jets, and missing transverse momentum. Journal of High Energy Physics, 2011, 2011, 1.	1.6	32
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527	Measurement of the Drell-Yan cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	1.6	36
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531	Search for microscopic black hole signatures at the Large Hadron Collider. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 697, 434-453.	1.5	65
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533	Search for supersymmetry in pp collisions at 7 TeV in events with jets and missing transverse energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 698, 196-218.	1.5	171
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