

# Neus Lopez-March

## List of Publications by Year in descending order

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Version: 2024-02-01

479  
papers

22,715  
citations

9775

73  
h-index

17580

121  
g-index

479  
all docs

479  
docs citations

479  
times ranked

8769  
citing authors

#	ARTICLE	IF	CITATIONS
1	Test of Lepton Universality Using $B \rightarrow K^* \ell^+ \ell^-$ Decays. Physical Review Letters, 2014, 113, 151601.	2.9	845
2	LHCb detector performance. International Journal of Modern Physics A, 2015, 30, 1530022.	0.5	604
3	Measurement of Form-Factor-Independent Observables in the Decay $B \rightarrow K^* \ell^+ \ell^-$ . Physical Review Letters, 2013, 111, 191801.	2.9	421
4	Searches for Lepton Flavor Violation in the Decays $B \rightarrow K^* \ell^+ \ell^-$ . Physical Review Letters, 2010, 104, 021802.	2.9	421
5	Observation of the rare $B_s^0 \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data. Nature, 2015, 522, 68-72.	13.7	390
6	Observation of the Resonant Character of the $B \rightarrow K^* \ell^+ \ell^-$ Decays. Physical Review Letters, 2014, 112, 222002.	2.9	325
7	Determination of the $B \rightarrow K^* \ell^+ \ell^-$ Decays. Physical Review Letters, 2014, 112, 222002.	2.9	325
8	First Evidence for the Decay $B \rightarrow K^* \ell^+ \ell^-$ . Physical Review Letters, 2013, 110, 021801.	2.9	292
9	The Physics of the B Factories. European Physical Journal C, 2014, 74, 1.	1.4	292
10	Measurement of the $B \rightarrow K^* \ell^+ \ell^-$ Form Factor. Physical Review D, 2009, 80, .	1.4	277
11	Measurement of the $B \rightarrow K^* \ell^+ \ell^-$ Fraction and Search for $B \rightarrow K^* \ell^+ \ell^-$ . Physical Review Letters, 2013, 111, 101805.	2.9	258
12	Measurement of $J/\psi$ production in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2011, 71, 1.	1.4	238
13	Prompt charm production in pp collisions at $\sqrt{s}=7$ TeV. Nuclear Physics B, 2013, 871, 1-20.	0.9	228
14	Precise Measurement of the $B \rightarrow K^* \ell^+ \ell^-$ Decays. Physical Review Letters, 2009, 103, 231801.	2.9	213
15	Differential branching fractions and isospin asymmetries of $B \rightarrow K^* \ell^+ \ell^-$ decays. Journal of High Energy Physics, 2014, 2014, 1.	1.6	206
16	Evidence for $D^0 \rightarrow D^* \ell^+ \ell^-$ Mixing. Physical Review Letters, 2007, 98, 211802.	2.9	205
17	Measurement of the $B \rightarrow K^* \ell^+ \ell^-$ Decays. Physical Review Letters, 2013, 111, 101805.	2.9	173
18	Measurements of the $B \rightarrow K^* \ell^+ \ell^-$ Decays. Physical Review D, 2008, 77, .	1.6	163

#	ARTICLE	IF	CITATIONS
19	Strong Constraints on the Rare Decays $B \rightarrow s \gamma$ . Physical Review Letters, 2012, 108, 231801.	2.9	160
20	Search for Dimuon Decays of a Light Scalar Boson in Radiative Transitions $\Upsilon \rightarrow \mu^+ \mu^- A_0$ . Physical Review Letters, 2009, 103, 081803.	2.9	153
21	Observation of $X(3872)$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	153
22	Evidence for the decay $X \rightarrow \mu^+ \mu^-$ . Physical Review D, 2010, 82, .	0.7	148
23	The BB detector: Upgrades, operation and performance. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 729, 615-701.	0.7	148
24	Implications of LHCb measurements and future prospects. European Physical Journal C, 2013, 73, 1.	1.4	137
25	Observation of $Y \rightarrow \mu^+ \mu^-$ . Physical Review Letters, 2012, 108, 231801.	2.9	133
26	Measurement of the track reconstruction efficiency at LHCb. Journal of Instrumentation, 2015, 10, P02007-P02007.	0.5	127
27	Observation of $\psi(3700) \rightarrow \mu^+ \mu^-$ pair production in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 52-59.	1.5	123
28	Structure at 2175 MeV $e^+ e^- \rightarrow \mu^+ \mu^- \phi(980)$ observed via initial-state radiation. Physical Review D, 2006, 74, .	1.6	122
29	Search for the $Z \rightarrow \mu^+ \mu^-$ decay. Physical Review Letters, 2012, 108, 231801.	2.9	122
30	Observation of new resonances decaying to $D \mu^+ \mu^-$ and $D \mu^+ \mu^-$ in inclusive $B \rightarrow \mu^+ \mu^-$ decays. Physical Review D, 2007, 75, 032001.	1.6	122
31	Measurement of $B \rightarrow \mu^+ \mu^-$ decays to $D \mu^+ \mu^-$ and $D \mu^+ \mu^-$ in inclusive $B \rightarrow \mu^+ \mu^-$ decays. Physical Review D, 2007, 75, 032001.	1.6	117
32	Measurement of $J/\psi$ polarization in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2631.	1.4	117
33	Study of resonances in exclusive $B \rightarrow \mu^+ \mu^-$ decays. European Physical Journal C, 2013, 73, 2631.	1.6	116
34	Measurement of $b \rightarrow \mu^+ \mu^-$ hadron production fractions in 7 TeV collisions. Physical Review D, 2012, 85, 032005.	1.6	116
35	Evidence for the decay $X \rightarrow \mu^+ \mu^-$ . Physical Review D, 2007, 75, 032001.	1.5	115
36	Evidence for the decay $X \rightarrow \mu^+ \mu^-$ . Physical Review D, 2007, 75, 032001.	0.9	114

#	ARTICLE	IF	CITATIONS
37	Differential branching fraction and angular analysis of the decay $B \rightarrow K^* \ell^+ \ell^-$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	111
38	Updated measurements of exclusive $J/\psi/\psi'$ and $\Upsilon(2S)$ production cross-sections in $pp$ collisions at $\sqrt{s}=7$ TeV. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 055002.	1.4	111
39	Precision luminosity measurements at LHCb. Journal of Instrumentation, 2014, 9, P12005-P12005.	0.5	110
40	Measurement of the $C \rightarrow P$ -Violating Phase $\arg(\Gamma_{CB})$ in the $B \rightarrow K^* \ell^+ \ell^-$ Decays. Physical Review Letters, 2013, 110, 221601.	2.9	108
41	Measurement of $\Upsilon'$ production in $pp$ collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 2025.	1.4	106
42	Search for Majorana Neutrinos in $B \rightarrow \ell^+ \ell^- \nu \bar{\nu}$ Decays. Physical Review Letters, 2014, 112, 131802.	2.9	106
43	First Observation of $C \rightarrow P$ Violation in the Decays of $B \rightarrow K^* \ell^+ \ell^-$ . Physical Review Letters, 2013, 110, 221601.	2.9	105
44	Exclusive $J/\psi/\psi'$ and $\Upsilon(2S)$ production in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of Physics G: Nuclear and Particle Physics, 2013, 40, 045001.	1.4	104
45	Differential branching fraction and angular analysis of the decay $B \rightarrow K^* \ell^+ \ell^-$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	103
46	Observation of an Excited Charm Baryon $\Lambda_c^* \rightarrow \Lambda_c^0 \pi^+$ . Physical Review Letters, 2006, 97, 232001.	2.9	102
47	Measurement of the $C \rightarrow P$ Violation in the Phase Space of $B \rightarrow K^* \ell^+ \ell^-$ . Physical Review Letters, 2013, 111, 101801.	2.9	101
48	Measurement of the $C \rightarrow P$ Violation in the Phase Space of $B \rightarrow K^* \ell^+ \ell^-$ . Physical Review D, 2007, 76, .	1.6	100
49	Measurement of the $C \rightarrow P$ Violation in the Phase Space of $B \rightarrow K^* \ell^+ \ell^-$ . Physical Review Letters, 2013, 111, 101801.	1.6	100
50	Dalitz-plot analysis of $B \rightarrow K^* \ell^+ \ell^-$ . Physical Review Letters, 2012, 109, 172003.	1.6	99
51	Observation of Excited $\Lambda_c^*$ Baryons. Physical Review Letters, 2012, 109, 172003.	2.9	98
52	Study of $D_s$ decays to $D^* K$ in inclusive $e^+e^-$ interactions. Physical Review D, 2009, 80, .	1.6	96
53	Measurement of time-dependent $C \rightarrow P$ asymmetry in $B \rightarrow K^* \ell^+ \ell^-$ . Physical Review Letters, 2013, 111, 101801.	2.9	96

#	ARTICLE	IF	CITATIONS
55	<p>Measurement of the fragmentation fraction ratio <math>f_s/f_d</math> and its dependence on B meson kinematics. Journal of High Energy Physics, 2013, 2013, 1.</p> <p>Observation of the Semileptonic Decays <math>B \rightarrow \hat{A}^+ X</math> and <math>B \rightarrow \hat{A}^0 X</math>. Physical Review Letters, 2008, 100, 021801.</p>	1.6	89
56	<p>Measurement of the fragmentation fraction ratio <math>f_s/f_d</math> and its dependence on B meson kinematics. Journal of High Energy Physics, 2013, 2013, 1.</p>	1.6	89
57	<p>Observation of the Semileptonic Decays <math>B \rightarrow \hat{A}^+ X</math> and <math>B \rightarrow \hat{A}^0 X</math>. Physical Review Letters, 2008, 100, 021801.</p>	2.9	85
58	<p>Sensitivity of NEXT-100 to neutrinoless double beta decay. Journal of High Energy Physics, 2016, 2016, 1.</p>	1.6	85
59	<p>Study of the exclusive initial-state-radiation production of the <math>D^0 \rightarrow \hat{A}^+ \bar{K}^0</math> system. Physical Review D, 2007, 76, .</p>	1.6	84
60	<p>Exclusive initial-state-radiation production of the <math>D^0 \rightarrow \hat{A}^+ \bar{K}^0</math>, <math>D^0 \rightarrow \hat{A}^0 \bar{K}^0</math>, and <math>D^0 \rightarrow \hat{A}^+ \bar{K}^0</math> systems. Physical Review D, 2009, 79, .</p>	1.6	83
61	<p>Measurement of <math>\tilde{\chi}(2S)</math> meson production in pp collisions at <math>\sqrt{s}=7</math> TeV. European Physical Journal C, 2012, 72, 2100.</p>	1.4	83
62	<p>Study of D J meson decays to <math>D^+ \hat{A}^+</math>, <math>D^0 \hat{A}^+</math> and <math>D^+ \hat{A}^0</math> final states in pp collisions. Journal of High Energy Physics, 2013, 2013, 1.</p>	1.6	82
63	<p>Measurement of the <math>B \rightarrow \hat{A}^+ \bar{K}^0</math> and <math>B \rightarrow \hat{A}^0 \bar{K}^0</math> decays. Physical Review Letters, 2014, 113, 162001.</p>	2.9	82
64	<p>Evidence for the <math>\hat{b}(1S)</math> Meson in Radiative <math>\tilde{\chi}(2S)</math> Decay. Physical Review Letters, 2009, 103, 161801.</p>	2.9	81
65	<p>Measurement of <math>D^0 \rightarrow \hat{A}^+ \bar{K}^0</math> Mixing Parameters Using <math>D^0 \rightarrow \hat{A}^+ \bar{K}^0</math> and <math>D^0 \rightarrow \hat{A}^0 \bar{K}^0</math> Decays. Physical Review Letters, 2010, 105, 081803.</p>	2.9	80
66	<p>Observation of Overlapping Spin-1 and Spin-3 <math>B \rightarrow \hat{A}^+ \bar{K}^0</math> Decays. Physical Review Letters, 2014, 113, 162001.</p>	2.9	80
67	<p>Measurement of <math>B \rightarrow \hat{A}^+ \bar{K}^0</math> and <math>B \rightarrow \hat{A}^0 \bar{K}^0</math> decays. Physical Review Letters, 2014, 113, 162001.</p>	2.9	80
68	<p>Measurement of <math>B \rightarrow \hat{A}^+ \bar{K}^0</math> and <math>B \rightarrow \hat{A}^0 \bar{K}^0</math> decays. Physical Review Letters, 2014, 113, 162001.</p>	2.9	78
69	<p>First Observation of <math>B \rightarrow \hat{A}^+ \bar{K}^0</math> and <math>B \rightarrow \hat{A}^0 \bar{K}^0</math> Decays. Physical Review Letters, 2014, 113, 162001.</p>	1.6	77
70	<p>Measurement of <math>B \rightarrow \hat{A}^+ \bar{K}^0</math> and <math>B \rightarrow \hat{A}^0 \bar{K}^0</math> decays. Physical Review Letters, 2014, 113, 162001.</p>	1.6	77
71	<p>Measurement of <math>B \rightarrow \hat{A}^+ \bar{K}^0</math> and <math>B \rightarrow \hat{A}^0 \bar{K}^0</math> decays. Physical Review Letters, 2014, 113, 162001.</p>	2.9	75
72	<p>Measurement of <math>B \rightarrow \hat{A}^+ \bar{K}^0</math> and <math>B \rightarrow \hat{A}^0 \bar{K}^0</math> decays. Physical Review Letters, 2014, 113, 162001.</p>	1.6	74

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73	Study of $J/\psi$ production and cold nuclear matter effects in pPb collisions at $\sqrt{s_{NN}} = 5$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	74
74	Measurement of resonant and non-resonant components in $Cu-Pu$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 113, 022301.	1.6	73
75	Measurement of the $\psi(1S)$ production cross-section in proton-antiproton collisions via $\psi(1S) \rightarrow e^+e^-$ . Physical Review Letters, 2000, 85, 022001.		

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91	Measurement of the isospin asymmetry in $B \rightarrow K^* \ell^+ \ell^-$ decays. Journal of High Energy Physics, 2012, 2012, 165		
92	Precision measurement of D meson mass differences. Journal of High Energy Physics, 2013, 2013, .	1.6	65
93	Production of $J/\psi$ and $\Upsilon$ mesons in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	65
94	Observation of $D^0 \rightarrow \pi^+ \pi^- \pi^0$ Oscillation. Journal of High Energy Physics, 2013, 2013, .	2.9	65
95	Measurements of $C \rightarrow P B_{\pm}$ violation in the three-body phase space of charmless $B \rightarrow B_{\pm} \pi^0$ decays. Physical Review D, 2014, 90, .	1.6	65
96	Search for $B \rightarrow \pi^+ \pi^0$ decays with hadronic tags. Physical Review D, 2008, 77, .	1.6	64
97	Exclusive Branching-Fraction Measurements of Semileptonic $B \rightarrow \pi^+ \pi^0 \ell^+ \ell^-$ and $B \rightarrow K^+ K^0 \ell^+ \ell^-$ . Physical Review Letters, 2008, 100, 011801.	2.9	64
98	First Observation of the Decay $B \rightarrow c \bar{c} \ell^+ \ell^-$ . Physical Review Letters, 2012, 108, 251802.	2.9	62
99	Measurement of $B \rightarrow e^+ e^- K^0$ . Physical Review Letters, 2013, 114, 152001.	1.6	61
100	Determination of the Sign of the Decay Width Difference in the $B_s$ System. Physical Review Letters, 2012, 108, 241801.	2.9	61
101	Measurement of $B \rightarrow c \bar{c} \ell^+ \ell^-$ in Proton-Proton Collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2013, 114, 152001.	2.9	61
102	Search for the rare decays $B \rightarrow \pi^+ \pi^- \ell^+ \ell^-$ . Physical Review Letters, 2013, 114, 152001.	1.5	60
103	Analysis of the resonant components in $B \rightarrow \pi^+ \pi^- \ell^+ \ell^-$ . Physics Letters Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 699, 330-340.	1.6	60
104	Observation of $C \rightarrow P B_{\pm} \ell^+ \ell^-$ Violation in $C \rightarrow P B_{\pm} \ell^+ \ell^-$ . Physical Review Letters, 2007, 99, 021603.	2.9	59
105	Dalitz plot analysis of $B \rightarrow A_{\pm} \ell^+ \ell^-$ . Physical Review D, 2009, 79, .	1.6	59
106	Precision measurement of the $B \rightarrow s \ell^+ \ell^-$ oscillation frequency with the decay $B \rightarrow s \ell^+ \ell^- D \rightarrow \pi^+ \pi^- \ell^+ \ell^-$ . New Journal of Physics, 2013, 15, 053021.	1.2	59
107	Observation of $B \rightarrow K^0 K^+ K^-$ and $B^0 \rightarrow K^0 K^+ K^-$ . Physical Review Letters, 2006, 97, 171805.	2.9	58
108	Measurements of $B \rightarrow \pi^+ \pi^- \ell^+ \ell^-$ . Physical Review Letters, 2013, 114, 152001.	1.6	58

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109	Measurement of b-hadron masses. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 241-248.	1.5	58
110	Opposite-side flavour tagging of B mesons at the LHCb experiment. European Physical Journal C, 2012, 72, 2022.	1.4	58
111	Search for $C \rightarrow P \rightarrow T$ and Lorentz Violation in $B \rightarrow B \rightarrow 0$	2.9	56
112	Evidence for Direct CP Violation in the Measurement of the Cabbibo-Kobayashi-Maskawa Angle $\beta$ with $B \rightarrow D(*) K^0$ Decays. Physical Review Letters, 2010, 105, 121801.	2.9	56
113	Measurement of b-hadron branching fractions for two-body decays into charmless charged hadrons. Journal of High Energy Physics, 2012, 2012, .	1.6	56
114	Observation of a Resonance in $B \rightarrow B^* \rightarrow 2\pi$ at Low Recoil. Physical Review Letters, 2013, 111, 112003.	2.9	56
115	Measurement of the $B \rightarrow l \nu$ Form-Factor Shape and Branching Fraction, and Determination of $ V_{ub} $ with a Loose Neutrino Reconstruction Technique. Physical Review Letters, 2007, 98, 091801.	2.9	55
116	Search for a Low-Mass Higgs Boson in $\Upsilon(3S) \rightarrow A_0 A_0 \rightarrow \pi^+ \pi^-$ at BABAR. Physical Review Letters, 2009, 103, 181801.	2.9	54
117	Measurements of the $b \rightarrow c$ decay amplitudes and the $B \rightarrow B^* \rightarrow 2\pi$ decay amplitudes and $B \rightarrow B^* \rightarrow 2\pi$	1.5	54
118	Measurement of the cross-section for $Z \rightarrow e^+ e^-$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	53
119	Measurement of $\psi(2S)$ polarisation in $pp$ collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2872.	1.4	53
120	Measurement of the hadronic form factor in $D \rightarrow 0$ Physical Review D, 2007, 76, .	1.6	52
121	Measurement of CP asymmetry in $D \rightarrow B^* \rightarrow 2\pi$ decays. Journal of High Energy Physics, 2014, 2014, 1.	1.6	52
122	Measurement of CP asymmetry in $D \rightarrow K^+ K^-$ and $D \rightarrow \bar{K}^0 K^0$ decays. Journal of High Energy Physics, 2014, 2014, 1.	1.6	52
123	Study of $B \rightarrow 0$ and constraints on the CKM angle $\beta$ . First Observation of the Decay $B \rightarrow 2\pi$	1.6	51
124	Determination of the form factors for the decay $B \rightarrow 2\pi$ Physical Review Letters, 2013, 110, 151803.	2.9	51
125	Determination of the form factors for the decay $B \rightarrow 2\pi$ Physical Review D, 2008, 77, .	1.6	51
126	Differential Branching Fraction and Angular Analysis of the Decay $B \rightarrow K^0 \pi^+ \pi^-$ . Physical Review Letters, 2012, 108, 181806.	2.9	50



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127	Measurement of B meson production cross-sections in proton-proton collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	50
128	Search for the doubly charmed baryon $\Xi_{cc}^{++}$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	50
129	Precision measurement of the ratio of the $\frac{\sigma(B \rightarrow \tau \nu)}{\sigma(B \rightarrow \mu \nu)}$ to $\frac{\sigma(B \rightarrow \mu \nu)}{\sigma(B \rightarrow e \nu)}$ . Study of $B \rightarrow \tau \nu$ decays. Physical Review D, 2007, 76, .	1.5	50
130	Study of $B \rightarrow \tau \nu$ decays. Physical Review D, 2007, 76, .	1.6	49
131	Dalitz plot analysis of $B \rightarrow \tau \nu D^* \rightarrow \tau \nu \bar{K}^* \rightarrow \tau \nu \bar{K}^0 \pi^+$ . Physical Review D, 2009, 79, .	1.6	49
132	Search for Production of Invisible Final States in Single-Photon Decays of $B \rightarrow \tau \nu \gamma$ . Physical Review D, 2012, 85, .	2.9	49
133	First Evidence of Direct $C \rightarrow P$ Violation in Charmless Two-Body Decays of $B \rightarrow s C \rightarrow P$ . Physical Review Letters, 2012, 109, 201601.	2.9	49
134	Searches for Majorana neutrinos in $B \rightarrow \tau \nu$ decays. Physical Review D, 2012, 85, .	1.6	49
135	Search for Invisible Decays of the $B \rightarrow \tau \nu$ . Measurement of the cross-section ratio $\frac{\sigma(B \rightarrow \tau \nu)}{\sigma(B \rightarrow \mu \nu)}$ . Physical Review D, 2012, 85, .	2.9	48
136	Measurement of the cross-section ratio $\frac{\sigma(B \rightarrow \tau \nu)}{\sigma(B \rightarrow \mu \nu)}$ . Physical Review D, 2012, 85, .		

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145	Measurement of the $B \rightarrow K^* \ell^+ \ell^-$ branching fraction. Physical Review D, 2007, 76, .	1.6	45
146	Time-dependent and time-integrated angular analysis of $B \rightarrow K^* \ell^+ \ell^-$ . Physical Review D, 2008, 78, .	1.6	45
147	Measurement of the $B \rightarrow K^* \ell^+ \ell^-$ form factor. Physical Review D, 2010, 81, .	1.6	45
148	Improved Limits on the Lepton-Flavor Violating Decays $B \rightarrow K^* \ell^+ \ell'^- + l^+ l'^-$ . Physical Review Letters, 2007, 99, 251803. 2.9	2.9	43
149	Dalitz plot analysis of $B \rightarrow D^* s \ell^+ \ell^-$ . Physical Review Letters, 2007, 99, 251803. 2.9	2.9	43
150	Measurement of $B \rightarrow D^* \ell^+ \ell^-$ Mixing Parameters and Search for $B \rightarrow D^* \ell^+ \ell^-$ . Physical Review Letters, 2007, 99, 251803. 2.9	2.9	43
151	Study of $\chi_{c1}$ $b$ meson production in $p\bar{p}$ collisions at $\sqrt{s} = 7$ and $8$ TeV. European Physical Journal C, 2014, 74, .	1.4	43
152	Measurement of the $B_c^+ \rightarrow \mu^+ \nu_\mu X$ meson lifetime using $B_c^+ \rightarrow \psi / \mu^+ \nu_\mu$ . European Physical Journal C, 2014, 74, 2839.	1.4	43
153	Background rejection in NEXT using deep neural networks. Journal of Instrumentation, 2017, 12, T01004-T01004.	0.5	43
154	Search for Lepton Flavor Violating Decays $B \rightarrow K^* \ell^+ \ell'^- + \ell^+ \ell'^-$ . Physical Review Letters, 2007, 98, 061803. 1.9	1.9	42
155	Time-dependent amplitude analysis of $B \rightarrow K^* \ell^+ \ell^-$ . Physical Review D, 2009, 80, .	1.6	42
156	Searches for rare or forbidden semileptonic charm decays. Physical Review D, 2011, 84, .	1.6	42
157	Vector-Tensor and Vector-Vector Decay Amplitude Analysis of $B \rightarrow K^* \ell^+ \ell^-$ . Physical Review Letters, 2007, 98, 051801.	2.9	41
158	Absolute luminosity measurements with the LHCb detector at the LHC. Journal of Instrumentation, 2012, 7, P01010-P01010.	0.5	41
159	First observation of the decay $B_c^+ \rightarrow \ell^+ \psi(K^+)$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	41
160	Search for $B \rightarrow K^* \ell^+ \ell^-$ . Physical Review D, 2007, 76, .	1.6	40
161	Measurement of the CP-violating phase $B \rightarrow K^* \ell^+ \ell^-$ . Physical Review D, 2007, 76, .	1.5	40
162	First proof of topological signature in the high pressure xenon gas TPC with electroluminescence amplification for the NEXT experiment. Journal of High Energy Physics, 2016, 2016, 1.	1.6	40

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163	Demonstration of Single-Barium-Ion Sensitivity for Neutrinoless Double-Beta Decay Using Single-Molecule Fluorescence Imaging. Physical Review Letters, 2018, 120, 132504.	2.9	40
164	Measurements of $C$ and $P$ -Violating Asymmetries in the Decay $B \rightarrow \hat{a}^0$ . Physical Review Letters, 2007, 99, 161802.	2.9	39
165	Measurement of CP Violation Parameters with a Dalitz Plot Analysis of $B \rightarrow \hat{a}^0 \pi^0$ . Physical Review Letters, 2007, 99, 251801.	2.9	39
166	Measurement of $D$ and $D^*$ Mixing from a Time-Dependent Amplitude Analysis of $B \rightarrow \hat{a}^0$ . Physical Review Letters, 2007, 99, 251801.	2.9	39
167	Search for Lepton Number Violating Decays $B \rightarrow \hat{a}^0 \pi^0$ and $B \rightarrow \hat{a}^0 \pi^0$ . Physical Review Letters, 2012, 108, 101601.	2.9	39
168	Precision Measurement of the Mass and Lifetime of the $\hat{b}$ . Physical Review Letters, 2014, 113, 242002.	2.9	39
169	Study of the kinematic dependences of $\hat{b} \rightarrow \hat{c}$ production in pp collisions and a measurement of the $\hat{b} \rightarrow \hat{c}$ branching fraction. Journal of High Energy Physics, 2014, 2014, 1.	1.6	39
170	Dalitz plot analysis of $D_s \rightarrow \hat{a}^0 \pi^0 \pi^0$ . Physical Review D, 2009, 79, .	1.6	38
171	Search for $B \rightarrow \hat{a}^0 \pi^0$ . Physical Review Letters, 2012, 108, 101601.	1.6	38
172	Measurement of the $B \rightarrow \hat{a}^0 \pi^0$ production asymmetry in 7 TeV pp collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 902-909.	1.6	37
173	Measurement of the $B \rightarrow \hat{a}^0 \pi^0$ production asymmetry in 7 TeV pp collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 902-909.	1.6	37
174	Measurement of $D \rightarrow \hat{a}^0 \pi^0$ mixing using the ratio of lifetimes for the decays $D \rightarrow \hat{a}^0 \pi^0$ , $D \rightarrow \hat{a}^0 \pi^0$ , and $D \rightarrow \hat{a}^0 \pi^0$ . Physical Review D, 2008, 78, .	1.6	37
175	Measurement of the Branching Fractions of $B \rightarrow \hat{a}^0 \pi^0$ and $B \rightarrow \hat{a}^0 \pi^0$ . Physical Review Letters, 2008, 101, 261802.	1.6	36
176	First observation of the decay $B \rightarrow \hat{a}^0 \pi^0$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	36
177	Measurement of the relative rate of prompt $\hat{c}^0$ , $\hat{c}^1$ and $\hat{c}^2$ production at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	36
178	Amplitude analysis and branching fraction measurement of $B \rightarrow \hat{a}^0 \pi^0$ . Physical Review D, 2013, 87, .	1.6	36
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221	Search for $D^0 \rightarrow D^0$ mixing using doubly flavor tagged semileptonic decay modes. Physical Review D, 2007, 76, .	2.9	29
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225	Measurement of relative branching fractions of B decays to $\bar{D}^*(2S)$ and $J/\psi$ mesons. European Physical Journal C, 2012, 72, 2118.	1.6	29
226	Measurement of the branching fractions of exclusive $B \rightarrow K^* \ell^+ \ell^-$ decays. Physical Review Letters, 2007, 99, 201802.	1.4	29
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233	Amplitude analysis of $B \rightarrow K^* \ell^+ \ell^-$ decays. Physical Review Letters, 2007, 99, 201802.	1.6	28
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247	Measurement of the $B^0 \rightarrow \pi^+ \pi^- \pi^0$ branching fraction and search for a second-class current. Physical Review D, 2010, 81, .	2.9	27
248	First observation of the decay $B^0 \rightarrow \pi^+ \pi^- \pi^0$ for $B^0$ mesons. Physical Review D, 2010, 81, .	1.5	27
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255	Search for the rare decay $B \rightarrow K^* \ell \bar{\nu}_\ell$ . Physical Review D, 2010, 82, .	1.6	26
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268	Study of forward Z + jet production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	25
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280	Search for CP violation using T-odd correlations in $D^0 \rightarrow K^+ K^- \pi^+ \pi^-$ decays. Physical Review D, 2010, 81, .	1.6	23
281	Search for CP violation in the decay $D^0 \rightarrow K^+ K^- \pi^+ \pi^-$ . Physical Review D, 2011, 83, .	1.6	23
282	Measurement of the $B^0 \rightarrow \pi^+ \pi^- \rho^0$ branching fraction. Physical Review Letters, 2006, 96, 231802.	1.6	23
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284	Measurement of the $B^0 \rightarrow \pi^+ \pi^- \rho^0$ and $B^0 \rightarrow \pi^+ \pi^- \rho(770)^0$ production asymmetries in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 739, 218-228.	1.5	23
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286	Measurement of Branching Fractions and Charge Asymmetries in B Decays to $\pi^+ \pi^-$ Meson and $K^* \pi$ Meson. Physical Review Letters, 2006, 97, 201802.	2.9	22
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291	A model-independent Dalitz plot analysis of $B^0 \rightarrow \pi^+ \pi^-$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 623-633.	1.5	22
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300	Search for CP violation using T-odd correlations in $D^0 \rightarrow K^+ K^-$ decays. Journal of High Energy Physics, 2014, 2014, 1.	1.6	21
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305	First observation of $B^0 \rightarrow \pi^+ \pi^-$ decays. Physical Review D, 2013, 88, .	1.6	20
306	Search for CP violation in $B^0 \rightarrow \pi^+ \pi^-$ decays. Physical Review Letters, 2007, 99, 051801.	1.6	20



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314	Searches for the baryon- and lepton-number violating decays $B \rightarrow \pi^+ l^+ l^-$ . Physical Review D, 2011, 83, .	1.6	19
315	Measurements of the branching fractions of the decays $B \rightarrow \pi^+ l^+ l^-$ . Physical Review D, 2011, 83, .	1.6	19
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317	First Measurement of the CP-violating Phase in charm meson decays to charmless final states. Physical Review Letters, 2013, 110, 241802.	2.9	19
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321	Search for Lepton Flavor Violating Decays $B \rightarrow \pi^+ l^+ l^-$ . Physical Review Letters, 2008, 100, 071802.	2.9	18
322	Measurements of time-dependent CP asymmetries in charm meson decays to charmless final states. Physical Review Letters, 2011, 106, 011802.	1.6	18
323	Measurement of the semileptonic decays $B \rightarrow \pi^+ l^+ l^-$ . Physical Review D, 2009, 79, .	1.6	18
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327	Measurement of the violation in $B \rightarrow K^* \ell^+ \ell^-$ decays. Physical Review D, 2014, 89.	1.6	18
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329	Search for $B \rightarrow K^* \ell^+ \ell^-$ transitions in $B \rightarrow K^* \ell^+ \ell^-$ decays. Physical Review D, 2013, 87.	1.6	17
330	Measurement of the effective lifetime of $B \rightarrow K^* \ell^+ \ell^-$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 349-356.	1.6	17
331	Observation of $B^0 \rightarrow K^* \ell^+ \ell^-$ mixing and measurement of mixing frequencies using semileptonic B decays. European Physical Journal C, 2013, 73, .	1.4	17
332	Measurement of the effective lifetime of $B \rightarrow K^* \ell^+ \ell^-$ decays. Nuclear Physics B, 2013, 973.	0.9	17
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334	Measurement of the polarization amplitudes in $B \rightarrow K^* \ell^+ \ell^-$ decays. Physical Review D, 2014, 89.	0.9	17
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337	Measurement of the branching fraction of $B \rightarrow K^* \ell^+ \ell^-$ decays. Physical Review D, 2013, 87.	0.9	16
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