

# Barak Raimond Gruberg Cazon

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

216  
papers

3,832  
citations

27  
h-index

54  
g-index

230  
ext. papers

5,396  
ext. citations

5.5  
avg, IF

3.47  
L-index

#	Paper	IF	Citations
216	Measurement of prompt charged-particle production in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	2
215	Study of $\{B\}_{c}^{+}$ decays to charmonia and three light hadrons. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	
214	Search for the radiative $\{X\}_{b}^{-}$ decay. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
213	Measurement of the W boson mass. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
212	Measurement of $\Xi(3872)$ production in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
211	Observation of $\{\Lambda\}_{b}^{0}$ and $\{\Lambda\}_{b}^{0}$ decays. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	
210	Searches for rare $\{B\}_{s}^{0}$ and $B^0$ decays into four muons. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
209	Study of charmonium and charmonium-like contributions in $B^+ \rightarrow \mu^+ \nu_{\mu}$ decays. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
208	Search for the decay $B^0 \rightarrow \mu^+ \mu^-$ . <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
207	Angular analysis of the rare decay $(\{B\}_{s}^{0}) \rightarrow \mu^+ \mu^-$ . <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
206	First measurement of the (CP)-violating phase in $(\{B\}_{s}^{0} \rightarrow \{J/\psi\} (e^+ e^-))(\phi)$ decays. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	0
205	Measurement of $J/\psi$ production cross-sections in pp collisions at $(\sqrt{s}) = 5$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
204	Observation of a $(\{\text{var}\Lambda\}_{b}^{0})$ production asymmetry in proton-proton collisions at $(\sqrt{s}) = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
203	Measurement of the CKM angle $\beta$ and $(\{B\}_{s}^{0} \rightarrow \{\overline{B}\}_{s}^{0})$ mixing frequency with $(\{B\}_{s}^{0} \rightarrow \{D\}_{s}^{\pm} \{h\}^{\pm} \{p\} \{p\} \{p\} \{p\})$ decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
202	Observation of the $(\{B\}_{s}^{0}) \rightarrow \mu^+ \mu^-$ decay. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
201	Search for heavy neutral leptons in $(W^+ \rightarrow \mu^+ \mu^{\pm} \text{jet})$ decays. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	3
200	Observation of CP violation in two-body $(\{B\}_{(s)}^{0})$ -meson decays to charged pions and kaons. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1

199	Measurement of CP observables in $B_{\text{d}}^0 \rightarrow \Phi^{(*)} K_{\text{d}}^0$ and $B_{\text{d}}^0 \rightarrow \Phi^{(*)} \pi$ decays using two-body D final states. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
198	Measurement of the branching fraction of the $(B^0 \rightarrow D^+_{\text{s}} \pi^-)$ decay. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	2
197	Observation of the decay $(\Lambda_{\text{b}}^0 \rightarrow p \pi^-)$ . <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
196	Searches for 25 rare and forbidden decays of $D^+$ and $(D^+_{\text{s}})$ mesons. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
195	Angular analysis of $(B^0 \rightarrow D^{\text{ast} -} D^{\text{ast} +}_{\text{s}})$ with $(D^{\text{ast} +}_{\text{s}} \rightarrow D^+_{\text{s}} \gamma)$ decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	
194	Search for CP violation in $(D^+_{\text{s}} \rightarrow h^+ \pi^0)$ and $(D^+_{\text{s}} \rightarrow h^+ \eta)$ decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
193	Study of $(B_{\text{s}}^0 \rightarrow g/\mu \tau + K_{\text{d}}^0)$ decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
192	Measurement of differential $(\overline{b})$ - and $(\overline{c})$ -dijet cross-sections in the forward region of pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
191	Measurement of the CKM angle $\beta$ in $B_{\text{d}}^0 \rightarrow \Phi K_{\text{d}}^0$ and $B_{\text{d}}^0 \rightarrow \Phi \pi$ decays with $D^+ \rightarrow K^+_{\text{S}} \pi^0$ $h^+ h^-$ . <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
190	Search for long-lived particles decaying to $(e^+ \mu^-)$ $(\mu^+ \nu)$ . <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	3
189	Search for the doubly charmed baryon $\Xi_{\text{cc}}$ . <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2021</b> , 64, 1	3.6	0
188	Simultaneous determination of CKM angle $\beta$ and charm mixing parameters. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
187	Search for the doubly charmed baryon $\Xi_{\text{cc}}^+$ in the $\Xi_{\text{cc}}^+ \rightarrow \pi^+ \pi^+ \pi^+$ final state. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	0
186	Updated search for $B^+_{\text{c}}$ decays to two charm mesons. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	
185	Test of lepton universality with $(\Lambda_{\text{b}}^0 \rightarrow p K^+ \ell^+ \ell^-)$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	12
184	Measurement of the $(\Lambda_{\text{b}}^0)$ angular distribution and the $(\Lambda_{\text{b}}^0)$ polarisation in pp collisions. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
183	Measurement of CP observables in $B_{\text{d}}^0 \rightarrow \Phi K_{\text{d}}^0$ and $B_{\text{d}}^0 \rightarrow \Phi \pi$ with $D^+ \rightarrow K^+_{\text{S}} \pi^0$ $K^+ \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
182	Precision measurement of the $(\Xi_{\text{cc}}^+)$ mass. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	11

181	Measurement of the $(\eta_c(1S))$ production cross-section in $(p-p)$ collisions at $(\sqrt{s} = 13)$ (TeV). <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	9
180	Search for CP violation in $(\chi^+ \rightarrow p \bar{K}^0 \pi^+)$ decays using model-independent techniques. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	7
179	Observation of the semileptonic decay $B^+ \rightarrow \bar{p} \mu^+ \nu_\mu$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020,	5.4	1
178	Measurement of CP violation in $B^0 \rightarrow \bar{D}^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	0
177	Measurement of the shape of the $(B_s^0 \rightarrow D_s^+ \mu^- \nu_\mu)$ differential decay rate. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
176	Search for the lepton flavour violating decay $B^+ \rightarrow \bar{K}^0 \mu^+ \tau^+$ using $(B_{s2}^+)$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
175	Observation of a new baryon state in the $(\Lambda_{\text{b}}^0 \text{p} \pi^-)$ mass spectrum. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	7
174	Searches for low-mass dimuon resonances. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	10
173	Search for the doubly heavy $(\chi_{\text{bc}}^0)$ baryon via decays to $D^0 p K^0$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
172	Strong constraints on the $b \rightarrow \bar{c} \gamma$ photon polarisation from $B^0 \rightarrow \bar{K}^0 e^+ e^-$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	4
171	Search for the doubly charmed baryon $(\chi_{\text{cc}}^+)$ . <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2020</b> , 63, 1	3.6	13
170	Precision measurement of the $(B_c^+)$ meson mass. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
169	Study of the $\bar{D}(3823)$ and $\bar{D}^*(3872)$ states in $B^+ \rightarrow \bar{D}^* J/\psi K^+$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	15
168	Measurement of the relative $B_{\text{D}^0}^0/D^{*0}/D^{*0}$ branching fractions using $B_{\text{D}^*}^0$ mesons from $B_{\text{D}^*}^0 \rightarrow D^{*0} \pi^0$ decays. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	2
167	Measurement of CP observables in the process $B^0 \rightarrow \bar{D}^* K^0$ with two- and four-body D decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	1
166	Search for the rare decay $(B^+ \rightarrow \mu^+ \mu^- \mu^+ \nu_\mu)$ . <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	8
165	Measurement of the CP-violating phase $\gamma$ from $B_s^0 \rightarrow \bar{D}^* \pi^0$ decays in 13 TeV pp collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2019</b> , 797, 134789	4.2	2
164	Observation of the $(\Lambda_{\text{b}}^0 \rightarrow \psi(3712) p)$ decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5

163	Measurement of the Charm-Mixing Parameter $y_{CP}$ . <i>Physical Review Letters</i> , <b>2019</b> , 122, 011802	7.4	8
162	Search for CP Violation in $D_{s1}^+ \rightarrow \bar{K}_S^0 \pi^+$ , $D^+ \rightarrow \bar{K}_S^0 K^+$ , and $D^+ \rightarrow \pi^+ \pi^0$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 191803	7.4	2
161	Observation of $B_{(s)}^0 \rightarrow \mu^+ \mu^-$ Decays and Precision Measurements of the $B_{(s)}^0$ Masses. <i>Physical Review Letters</i> , <b>2019</b> , 122, 191804	7.4	4
160	Measurement of $B^+$ , $B^0$ and $\bar{B}^0$ production in pPb collisions at $\sqrt{s_{NN}}=8.16$ TeV. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	12
159	Observation of CP Violation in Charm Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 211803	7.4	51
158	Observation of a Narrow Pentaquark State, $P_c(4312)^+$ , and of the Two-Peak Structure of the $P_c(4450)^+$ . <i>Physical Review Letters</i> , <b>2019</b> , 122, 222001	7.4	199
157	Observation of an Excited $B_c^+$ State. <i>Physical Review Letters</i> , <b>2019</b> , 122, 232001	7.4	18
156	Search for Lepton-Universality Violation in $B^+ \rightarrow \ell^+ \pi^+ \pi^-$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 191801	7.4	137
155	Observation of the doubly Cabibbo-suppressed decay $\bar{D} \rightarrow c \bar{\nu} \nu$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
154	Model-Independent Observation of Exotic Contributions to $B^0 \rightarrow \mu^+ \mu^-$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 152002	7.4	13
153	Search for CP violation through an amplitude analysis of $D^0 \rightarrow \bar{K}^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
152	First Measurement of Charm Production in its Fixed-Target Configuration at the LHC. <i>Physical Review Letters</i> , <b>2019</b> , 122, 132002	7.4	17
151	Measurement of the mass and production rate of $\Lambda_b$ baryons. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	9
150	Measurement of the branching fractions of the decays $D^+ \rightarrow \bar{K}^0 K^+$ , $D^+ \rightarrow \pi^0 K^+$ and $D^+ \rightarrow \pi^+ K^+$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019,	5.4	3
149	Study of the $B^0 \rightarrow \pi^0 K^*(892)^0$ decay with an amplitude analysis of $B^0 \rightarrow \pi^0 (K^+ \pi^-)$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
148	Measurement of the ratio of branching fractions of the decays $\bar{D} \rightarrow b \bar{\nu} \nu$ and $\bar{D} \rightarrow \mu^+ \mu^-$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	1
147	Dalitz plot analysis of the $D^+ \rightarrow \bar{K}^0 K^+$ decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	4
146	Amplitude analysis of $B^0 \rightarrow \bar{K}^0 S K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5

145	First Observation of the Radiative Decay $\Upsilon\{b\}^{\{0\}}\text{-}\eta$ <i>Physical Review Letters</i> , <b>2019</b> , 123, 031801	7.4	7
144	Measurement of the branching fraction and (C)P asymmetry in $\{B^+\} \rightarrow \{J/\psi\} \{\rho^+\}$ decays. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	1
143	Measurement of the Mass Difference Between Neutral Charm-Meson Eigenstates. <i>Physical Review Letters</i> , <b>2019</b> , 122, 231802	7.4	39
142	Near-threshold $\{\overline{D}\}$ spectroscopy and observation of a new charmonium state. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	16
141	Amplitude analysis of the $\{B_{(s)}^0\} \rightarrow \{K^{\{ast\ 0\}}\} \{\overline{K}^{\{ast\ 0\}}\}$ decays and measurement of the branching fraction of the $\{B^0\} \rightarrow \{K^{\{ast\ 0\}}\} \{\overline{K}^{\{ast\ 0\}}\}$ decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	3
140	Updated measurement of time-dependent (CP)-violating observables in $\{B^0_{(s)}\} \rightarrow J/\psi K^+ K^-$ decays. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	7
139	Measurements of CP asymmetries in charmless four-body $\{\Lambda_b^0\}$ and $\{\Xi_b^0\}$ decays. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	6
138	Prompt $\overline{B}c$ production in pPb collisions at $(\sqrt{s_{\text{NN}}}=5.02)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	10
137	A search for $\{\Xi_{\text{cc}}^{\{++\}}\} \rightarrow p K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
136	Measurement of CP violation in the $\{B_s^0\} \rightarrow \phi\phi$ decay and search for the $B_0\text{-}\overline{g}$ decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	0
135	Measurement of CP-Violating and Mixing-Induced Observables in $B_{(s)}^0\text{-}\eta$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 123, 081802	7.4	2
134	Observation of Two Resonances in the $\{B^0\} \rightarrow \{\eta\}$ Systems and Precise Measurement of $\{B^+\} \rightarrow \{\eta\}$ and $\{B^0\} \rightarrow \{\eta^*\}$ Properties. <i>Physical Review Letters</i> , <b>2019</b> , 122, 012001	7.4	29
133	Search for excited $B + c$ states. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	13
132	Search for Dark Photons Produced in $13\text{-TeV}$ pp Collisions. <i>Physical Review Letters</i> , <b>2018</b> , 120, 061801	7.4	75
131	First observation of forward $Z\text{-}\gamma\text{-}\eta$ production in pp collisions at $s=8\text{-TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 776, 430-439	4.2	1
130	Measurement of CP observables in $B\text{-}\eta(561)K^0$ and $B\text{-}\eta(561)\eta$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 777, 16-30	4.2	10
129	A measurement of the CP asymmetry difference between $\Lambda_b^0 \rightarrow \overline{D}^0 K^+ K^-$ and $p\eta$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018,	5.4	9
128	Measurement of CP asymmetry in $B^0 \rightarrow \overline{D}^0 \eta K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4

127	Search for the lepton-flavour violating decays $B^0(s) \rightarrow e\mu\mu$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	15
126	First measurement of the CP-violating phase ( $\phi_s^{\overline{d}}$ ) in $B^0 \rightarrow \overline{d}K^0(K^*)$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
125	Test of lepton flavor universality by the measurement of the $B^0 \rightarrow D^{*0}\mu\mu$ branching fraction using three-prong $\mu$ decays. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	106
124	Measurement of the Ratio of the $B^0 \rightarrow D^{*0}\mu^+\mu^-$ and $B^0 \rightarrow D^{*0}\tau^+\tau^-$ Branching Fractions Using Three-Prong $\mu$ Lepton Decays. <i>Physical Review Letters</i> , <b>2018</b> , 120, 171802	7.4	126
123	Measurement of the Ratio of Branching Fractions $B(B_{c^+} \rightarrow d\mu^+\mu^-)/B(B_{c^+} \rightarrow d\tau^+\tau^-)$ . <i>Physical Review Letters</i> , <b>2018</b> , 120, 121801	7.4	109
122	Search for $B_{c^+}$ decays to two charm mesons. <i>Nuclear Physics B</i> , <b>2018</b> , 930, 563-582	2.8	4
121	Measurement of the Lifetime of the Doubly Charmed Baryon $\Xi_{cc}^{++}$ . <i>Physical Review Letters</i> , <b>2018</b> , 121, 052002	7.4	44
120	Measurement of branching fractions of charmless four-body $B \rightarrow b$ and $B \rightarrow b$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	8
119	Observation of the decay $B^0 \rightarrow \mu^+\mu^-pp$ ? <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 784, 101-111	4.2	7
118	Observation of a New $\Xi_b^0$ Resonance. <i>Physical Review Letters</i> , <b>2018</b> , 121, 072002	7.4	50
117	Evidence for the Rare Decay $\Xi_b^0 \rightarrow \mu^+\mu^-$ . <i>Physical Review Letters</i> , <b>2018</b> , 120, 221803	7.4	8
116	Central exclusive production of $J/\psi$ and $\psi(2S)$ mesons in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018,	5.4	13
115	Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K^0 S K^0 S$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
114	Study of $\psi$ production in pPb collisions at ( $\sqrt{s_{NN}} = 8.16$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	8
113	Search for beautiful tetraquarks in the $\psi(1S)$ invariant-mass spectrum. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	21
112	Search for CP violation in $B^0 \rightarrow \mu^+K^0$ and $B^0 \rightarrow \mu^+K^*$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 787, 124-133	4.2	9
111	Search for lepton-flavour-violating decays of Higgs-like bosons. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1008	4.2	3
110	Evidence for an resonance in decays. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1019	4.2	26

109	Observation of the decay $B_s^0 \rightarrow D^0 K^+ K^-$ . <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	6
108	Observation of $B_s^0 \rightarrow D^0 \pi^0$ and search for $B^0 \rightarrow D^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	5
107	Measurement of Antiproton Production in p-He Collisions at $\sqrt{s_{NN}}=110$ GeV. <i>Physical Review Letters</i> , <b>2018</b> , 121, 222001	7.4	22
106	Measurement of the inelastic pp cross-section at a centre-of-mass energy of 13 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	12
105	Measurement of $\eta$ production in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
104	Measurement of forward top pair production in the dilepton channel in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
103	Observation of the decay ( $\overline{B}_s^0 \rightarrow \chi_{c2}^+ K^+ K^-$ ) in the $\eta$ mass region. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	0
102	Search for a dimuon resonance in the $\eta$ mass region. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
101	Studies of the resonance structure in decays. <i>European Physical Journal C</i> , <b>2018</b> , 78, 443	4.2	11
100	Angular moments of the decay $B \rightarrow \pi \pi$ at low hadronic recoil. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	17
99	Measurement of $Z \rightarrow \mu\mu$ production in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	2
98	First Observation of the Doubly Charmed Baryon Decay $\Xi_{cc}^{++} \rightarrow \Xi_c^+ \pi^+$ . <i>Physical Review Letters</i> , <b>2018</b> , 121, 162002	7.4	54
97	Measurement of the CKM angle $\Gamma$ using $B \rightarrow DK$ with $D \rightarrow \pi^0 \pi^0 K^+ K^-$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	9
96	Measurement of $D^0$ production asymmetry in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
95	Measurement of Angular and CP Asymmetries in $D^0 \rightarrow \pi^+ \pi^- \pi^+ \pi^-$ and $D^0 \rightarrow \pi^+ K^- \pi^+ \pi^-$ Decays. <i>Physical Review Letters</i> , <b>2018</b> , 121, 091801	7.4	8
94	Measurement of the $\Xi_c^0$ Baryon Lifetime. <i>Physical Review Letters</i> , <b>2018</b> , 121, 092003	7.4	12
93	Evidence for the decay ( $B_s^0 \rightarrow \overline{K}^* \mu^+ \mu^-$ ). <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	15
92	Measurement of CP asymmetries in two-body $B(s)$ -meson decays to charged pions and kaons. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	13



91	Observation of the decay $B^0 \rightarrow \pi^0 \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	5
90	Measurement of the CP asymmetry in $B^0 \rightarrow \pi^0 \pi^0$ and $B^0 \rightarrow \pi^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	1
89	Search for CP violation using triple product asymmetries in $B^0 \rightarrow \pi^0 \pi^0 \pi^0$ and $B^0 \rightarrow \pi^0 \pi^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	7
88	Updated determination of $D^0 \bar{D}^0$ mixing and CP violation parameters with $D^0 \rightarrow \pi^+ \pi^-$ decays. <i>Physical Review D</i> , <b>2018</b> , 97,	4-9	11
87	Search for the rare decay $B^+ \rightarrow \pi^+ \pi^0$ . <i>Physical Review D</i> , <b>2018</b> , 97,	4-9	9
86	Search for weakly decaying b-flavored pentaquarks. <i>Physical Review D</i> , <b>2018</b> , 97,	4-9	5
85	First observation of $B^+ \rightarrow \pi^+ \pi^0 K^0$ decays and a search for $B^+ \rightarrow \pi^+ \pi^0 K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	6
84	Measurements of the branching fractions of $B^+ \rightarrow \pi^+ \pi^0$ , $B^+ \rightarrow \pi^+ \pi^0 K^+$ , and $B^+ \rightarrow \pi^+ \pi^0 K^+$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018,	5-4	8
83	Measurement of CP violation in $B^0 \rightarrow \pi^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	2
82	Amplitude Analysis of the Decay $B^0 \rightarrow \pi^0 \pi^0 \pi^0$ and First Observation of the CP Asymmetry in $B^0 \rightarrow \pi^0 \pi^0 \pi^0$ . <i>Physical Review Letters</i> , <b>2018</b> , 120, 261801	7-4	7
81	Search for the CP-violating strong decays $B^0 \rightarrow \pi^0 \pi^0$ and $B^0 \rightarrow \pi^0 \pi^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 764, 233-240	4-2	7
80	Search for the suppressed decays $B^+ \rightarrow \pi^+ \pi^0 K^0$ and $B^+ \rightarrow \pi^+ \pi^0 K^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 765, 307-316	4-2	8
79	Measurement of matter-antimatter differences in beauty baryon decays. <i>Nature Physics</i> , <b>2017</b> , 13, 391-396.	6-2	45
78	Amplitude analysis of $B^+ \rightarrow \pi^+ \pi^0 K^+$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4-9	56
77	Observation of $J/\psi$ Structures Consistent with Exotic States from Amplitude Analysis of $B^+ \rightarrow \pi^+ \pi^0 K^+$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 022003	7-4	98
76	Observation of the Annihilation Decay Mode $B^0 \rightarrow \pi^+ \pi^- K^0$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 081801.	7-4	18
75	First Experimental Study of Photon Polarization in Radiative $B_{s^0}$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 021801	7-4	16
74	Measurement of forward $t\bar{t}$ , $W+bb$ and $W+cc$ production in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 767, 110-120	4-2	4

73	Observation of the decay $B_s^0 \rightarrow \mu^+ \mu^-$ and evidence for $B^0 \rightarrow \mu^+ \mu^-$ . <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	17
72	Measurement of the b-Quark Production Cross Section in 7 and 13 TeV pp Collisions. <i>Physical Review Letters</i> , <b>2017</b> , 118, 052002	7.4	36
71	Measurement of the phase difference between short- and long-distance amplitudes in the $B \rightarrow \mu^+ \mu^-$ decay. <i>European Physical Journal C</i> , <b>2017</b> , 77, 161	4.2	25
70	Study of the $D^0 \rightarrow \mu^+ \mu^-$ amplitude in $B \rightarrow D^0 \mu^+ \mu^-$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	33
69	Search for massive long-lived particles decaying semileptonically in the LHCb detector. <i>European Physical Journal C</i> , <b>2017</b> , 77, 224	4.2	35
68	Observation of $B \rightarrow \mu^+ \mu^-$ and $B \rightarrow \mu^+ \mu^-$ decays. <i>European Physical Journal C</i> , <b>2017</b> , 77, 72	4.2	4
67	Measurement of CP asymmetry in $D^0 \rightarrow \mu^+ \mu^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 767, 177-187	4.2	11
66	Observation of the Decay $B \rightarrow \mu^+ \mu^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 071801	7.4	7
65	Search for long-lived scalar particles in $B \rightarrow \mu^+ \mu^-$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	48
64	Study of prompt $D^0$ meson production in pPb collisions at $(\sqrt{s_{\mathrm{N};\mathrm{N}}}=5)$ TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	27
63	Prompt and nonprompt $J/\psi$ production and nuclear modification in pPb collisions at $\sqrt{s_{\mathrm{N};\mathrm{N}}}=8.16$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 774, 159-178	4.2	26
62	Observation of charmless baryonic decays $B(s)^0 \rightarrow p \bar{p} \mu^+ \mu^-$ . <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	5
61	Study of charmonium production in $\mu^+ \mu^-$ -hadron decays and first evidence for the decay. <i>European Physical Journal C</i> , <b>2017</b> , 77, 609	4.2	10
60	Improved limit on the branching fraction of the rare decay. <i>European Physical Journal C</i> , <b>2017</b> , 77, 678	4.2	7
59	Observation of $B_c \rightarrow \mu^+ \mu^- K^*$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	8
58	Measurements of charm mixing and CP violation using $D^0 \rightarrow \mu^+ \mu^-$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	8
57	Measurement of the $B^0$ production asymmetry and the CP asymmetry in $B^0 \rightarrow \mu^+ \mu^-$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	6
56	Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B \rightarrow \mu^+ \mu^-$ and $B \rightarrow \mu^+ \mu^-$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	2

55	Search for the $B^0 \rightarrow \mu^+ \mu^-$ decay. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	1
54	Observation of the decay $B^0 \rightarrow \mu^+ \mu^-$ and a search for CP violation. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5-4	5
53	Measurement of $B_{s^0}$ and $D_{s^0}$ Meson Lifetimes. <i>Physical Review Letters</i> , <b>2017</b> , 119, 101801	7-4	10
52	Observation of the Doubly Charmed Baryon $\Xi_{cc}^{++}$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 112001	7-4	257
51	Measurement of the CP Violation Parameter $A_{CP}$ in $D^0 \rightarrow \mu^+ K^-$ and $D^0 \rightarrow \mu^+ \pi^-$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 261803	7-4	11
50	Observation of $B_{c^+} \rightarrow \mu^+ K^+$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 111803	7-4	13
49	Observation of Five New Narrow $\chi_{c^0}$ States Decaying to $\chi_{c^+} K^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 182001	7-4	154
48	Measurement of CP asymmetries in $D^0 \rightarrow \mu^+ \mu^-$ and $D_s^0 \rightarrow \mu^+ \mu^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 771, 21-30	4-2	6
47	Observation of $\psi(2S) \rightarrow \mu^+ \mu^-$ and search for $X(3872) \rightarrow \mu^+ \mu^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 769, 305-313	4-2	16
46	Observation of the $B^0 \rightarrow \mu^+ \mu^-$ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 265-273	4-2	15
45	Measurement of the $B_{s^0} \rightarrow \mu^+ \mu^-$ Branching Fraction and Effective Lifetime and Search for $B^0 \rightarrow \mu^+ \mu^-$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 191801	7-4	106
44	Study of $J/\psi$ Production in Jets. <i>Physical Review Letters</i> , <b>2017</b> , 118, 192001	7-4	20
43	Observation of the Decays $\Lambda_b^0 \rightarrow \mu^+ p K^-$ and $\Lambda_b^0 \rightarrow \mu^+ n K^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 062001	7-4	22
42	Observation of the $B^+ \rightarrow \mu^+ \mu^+$ decay. <i>Physical Review D</i> , <b>2017</b> , 96,	4-9	2
41	Search for the Decays $B_{s^0} \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 251802	7-4	40
40	Measurement of the shape of the $B^0 \rightarrow \mu^+ \mu^-$ differential decay rate. <i>Physical Review D</i> , <b>2017</b> , 96,	4-9	23
39	Observation of the suppressed decay $B^0 \rightarrow \mu^+ \mu^-$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	10
38	Test of lepton universality with $B^0 \rightarrow \mu^+ \mu^-$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	298

37	$\chi_{c1}$ and $\chi_{c2}$ Resonance Parameters with the Decays $\chi_{c1,c2} \rightarrow \psi(3770) \pi^+ \pi^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 221801	7.4	8
36	Observation of $D^0$ Meson Decays to $\pi^+ \pi^- \pi^+ \pi^-$ and $K^+ K^- \pi^+ \pi^-$ Final States. <i>Physical Review Letters</i> , <b>2017</b> , 119, 181805	7.4	14
35	Search for Baryon-Number Violating $\Lambda_b^0$ Oscillations. <i>Physical Review Letters</i> , <b>2017</b> , 119, 181807	7.4	1
34	Measurement of the $J/\psi$ pair production cross-section in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	25
33	New algorithms for identifying the flavour of [Formula: see text] mesons using pions and protons. <i>European Physical Journal C</i> , <b>2017</b> , 77, 238	4.2	4
32	Measurements of prompt charm production cross-sections in pp collisions at $s = 5 \sqrt{s}=5$ TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5.4	16
31	Search for CP violation in the phase space of $D^0 \rightarrow \pi^+ \pi^- \pi^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 769, 345-356	4.2	7
30	Evidence for the two-body charmless baryonic decay ( $B^+ \rightarrow \overline{\Lambda} p$ ). <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	4
29	First Observation of the Rare Purely Baryonic Decay $B^0 \rightarrow \overline{p} p$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 232001	7.4	4
28	Resonances and CP violation in $B^0$ and ( $\overline{B}^0 \rightarrow J/\psi \{K^+ K^-\}$ ) decays in the mass region above the $\psi(1020)$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	13
27	Study of ( $\overline{b} b$ ) correlations in high energy proton-proton collisions. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	5
26	Measurement of CP observables in $B^0 \rightarrow \overline{D} K^0$ decays using two- and four-body D final states. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	4
25	Measurement of $B^0$ , $B_s^0$ , $B^+$ and $\overline{B}^0$ production asymmetries in 7 and 8 TeV proton-proton collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 774, 139-158	4.2	10
24	Measurement of CP violation in $B^0 \rightarrow \overline{D} S^0$ and $B^0 \rightarrow \overline{D} S^0$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5.4	2
23	First Observation of a Baryonic $B_{s1}^0$ Decay. <i>Physical Review Letters</i> , <b>2017</b> , 119, 041802	7.4	10
22	Updated search for long-lived particles decaying to jet pairs. <i>European Physical Journal C</i> , <b>2017</b> , 77, 812	4.2	23
21	Updated branching fraction measurements of $B(s) \rightarrow \overline{D} S^0 h^+ h^-$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5.4	4
20	Search for decays of neutral beauty mesons into four muons. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	7

19	Observation of the decay $B_s^0 \rightarrow \mu^+ \mu^-$ and evidence for $B_s^0 \rightarrow \mu^+ \mu^-$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	6
18	Bose-Einstein correlations of same-sign charged pions in the forward region in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	3
17	Measurement of the $B_H$ production cross-section in pp collisions at $\sqrt{s}=7$ and 13 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	8
16	Measurement of the $Y(nS)$ polarizations in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	6
15	Measurement of the CP Asymmetry in $B_{s^0} \rightarrow B_{\text{overline{c}}_s^0}$ Mixing. <i>Physical Review Letters</i> , <b>2016</b> , 117, 061803	7.4	18
14	Evidence For Exotic Hadron Contributions to $B_{\text{overline{c}}_s^0} \rightarrow B_{\text{overline{c}}_s^0} \mu^+ \mu^-$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 082003	7.4	91
13	Search for Structure in the $B_{s^0} \rightarrow B_{\text{overline{c}}_s^0} \mu^+ \mu^-$ Invariant Mass Spectrum. <i>Physical Review Letters</i> , <b>2016</b> , 117, 152003	7.4	64
12	Differential branching fraction and angular moments analysis of the decay $B^0 \rightarrow K^{*0,2} \mu^+ \mu^-$ in the $K^{*0,2} (1430)^0$ region. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	11
11	Search for Higgs-like bosons decaying into long-lived exotic particles. <i>European Physical Journal C</i> , <b>2016</b> , 76, 664	4.2	16
10	Measurement of forward W and Z boson production in association with jets in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	8
9	Measurement of the forward Z boson production cross-section in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	13
8	Measurement of the ratio of branching fractions ( $\mathcal{B}(B_{\text{overline{c}}_s^0} \rightarrow K^{*0,2} \mu^+ \mu^-) / \mathcal{B}(B_{\text{overline{c}}_s^0} \rightarrow J/\psi \mu^+ \mu^-)$ ). <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	5
7	Measurement of forward W production in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	8
6	Measurement of the CKM angle $\Gamma$ from a combination of LHCb results. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	23
5	Amplitude analysis of $B_{\text{overline{c}}_s^0} \rightarrow B_{\text{overline{c}}_s^0} \mu^+ \mu^-$ decays. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	45
4	Study of $B_{\text{overline{c}}_s^0}$ decays to the $K^+ K_{\text{overline{c}}_s^0}$ final state and evidence for the decay $B_{\text{overline{c}}_s^0} \rightarrow B_{\text{overline{c}}_s^0} \mu^+ \mu^-$ . <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	17
3	Measurement of CP Violation in $B^0 \rightarrow D^+ D^{\text{overline{-}}}$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 261801	7.4	6
2	Measurement of the $B_{\text{overline{c}}_s^0} \rightarrow D^+ \mu^+ \mu^-$ lifetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 762, 484-492	4.2	4

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