

# Barak Raimond Gruberg Cazon

## List of Publications by Citations

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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	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
215	Observation of the Doubly Charmed Baryon $\Xi_{cc}^{++}$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 112001	7.4	257
214	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
213	Observation of Five New Narrow $\chi_{c0}$ States Decaying to $\chi_{c^+} K^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 182001	7.4	154
212	Search for Lepton-Universality Violation in $B^+ \rightarrow \mu^+ \tau^+ \tau^-$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 191801	7.4	137
211	Measurement of the Ratio of the $B^0 \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \tau^+ \tau^-$ Branching Fractions Using Three-Prong Lepton Decays. <i>Physical Review Letters</i> , <b>2018</b> , 120, 171802	7.4	126
210	Measurement of the Ratio of Branching Fractions $B(B_{c^+} \rightarrow \mu^+ \tau^+ \tau^-) / B(B_{c^+} \rightarrow \mu^+ \mu^-)$ . <i>Physical Review Letters</i> , <b>2018</b> , 120, 121801	7.4	109
209	Test of lepton flavor universality by the measurement of the $B^0 \rightarrow \mu^+ \tau^-$ branching fraction using three-prong decays. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	106
208	Measurement of the $B_{s^0} \rightarrow \mu^+ \mu^-$ Branching Fraction and Effective Lifetime and Search for $B^+ \rightarrow \mu^+ \tau^-$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 191801	7.4	106
207	Observation of $J/\psi$ Structures Consistent with Exotic States from Amplitude Analysis of $B^+ \rightarrow \mu^+ \psi K^+$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 022003	7.4	98
206	Evidence for Exotic Hadron Contributions to $\chi_{b^0} \rightarrow \mu^+ \mu^-$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 082003	7.4	91
205	Search for Dark Photons Produced in 13 TeV pp Collisions. <i>Physical Review Letters</i> , <b>2018</b> , 120, 061801	7.4	75
204	Search for Structure in the $B_{s^0} \mu^+ \mu^-$ Invariant Mass Spectrum. <i>Physical Review Letters</i> , <b>2016</b> , 117, 152003	7.4	64
203	Amplitude analysis of $B^+ \rightarrow \mu^+ \psi K^+$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	56
202	First Observation of the Doubly Charmed Baryon Decay $\Xi_{cc}^{++} \rightarrow \chi_{c^+} \mu^+$ . <i>Physical Review Letters</i> , <b>2018</b> , 121, 162002	7.4	54
201	Observation of CP Violation in Charm Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 211803	7.4	51
200	Observation of a New $\chi_{b^0}$ Resonance. <i>Physical Review Letters</i> , <b>2018</b> , 121, 072002	7.4	50

199	Search for long-lived scalar particles in $B \rightarrow K^* \mu \mu$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	48
198	Measurement of matter-antimatter differences in beauty baryon decays. <i>Nature Physics</i> , <b>2017</b> , 13, 391-396.	6.2	45
197	Amplitude analysis of $B \rightarrow D^* \mu \mu$ decays. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	45
196	Measurement of the Lifetime of the Doubly Charmed Baryon $\Xi_{cc}^{++}$ . <i>Physical Review Letters</i> , <b>2018</b> , 121, 052002	7.4	44
195	Search for the Decays $B_{s1}^0 \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 251802	7.4	40
194	Measurement of the Mass Difference Between Neutral Charm-Meson Eigenstates. <i>Physical Review Letters</i> , <b>2019</b> , 122, 231802	7.4	39
193	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
192	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
191	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
190	Observation of Two Resonances in the $B^0 \rightarrow \mu^+ \mu^-$ Systems and Precise Measurement of $B^0 \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$ Properties. <i>Physical Review Letters</i> , <b>2019</b> , 122, 012001	7.4	29
189	Study of prompt $D^0$ meson production in pPb collisions at $(\sqrt{s_{\text{NN}}})=5$ TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	27
188	Prompt and nonprompt $J/\psi$ production and nuclear modification in pPb collisions at $\sqrt{s_{\text{NN}}}=8.16$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 774, 159-178	4.2	26
187	Evidence for an resonance in decays. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1019	4.2	26
186	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
185	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
184	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
183	Updated search for long-lived particles decaying to jet pairs. <i>European Physical Journal C</i> , <b>2017</b> , 77, 812	4.2	23
182	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

181	Observation of the Decays $B^0 \rightarrow \bar{D}^{*1} p K^-$ and $B^0 \rightarrow \bar{D}^{*2} p K^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 062001	7.4	22
180	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
179	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
178	Study of $J/\psi$ Production in Jets. <i>Physical Review Letters</i> , <b>2017</b> , 118, 192001	7.4	20
177	Observation of the Annihilation Decay Mode $B^0 \rightarrow K^+ K^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 081801	7.4	18
176	Observation of an Excited $B_{c^+}$ State. <i>Physical Review Letters</i> , <b>2019</b> , 122, 232001	7.4	18
175	Measurement of the CP Asymmetry in $B_{s^0} \rightarrow B_{\overline{D}^0}$ Mixing. <i>Physical Review Letters</i> , <b>2016</b> , 117, 061803	7.4	18
174	Observation of the decay $B_{s^0} \rightarrow D^+ D^-$ and evidence for $B_{s^0} \rightarrow D^+ D^-$ . <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	17
173	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
172	Study of $B_{c^+}$ decays to the $K^+ K^0$ final state and evidence for the decay $B_{c^+} \rightarrow D^+ D^0$ . <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	17
171	Angular moments of the decay $D^0 \rightarrow b^- \bar{D}^0$ at low hadronic recoil. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	17
170	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
169	Near-threshold $(\overline{D}^0 D^0)$ spectroscopy and observation of a new charmonium state. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	16
168	Observation of $\psi(2S) \rightarrow \gamma \gamma$ and search for $X(3872) \rightarrow \gamma \gamma$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 769, 305-313	4.2	16
167	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
166	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
165	Search for the lepton-flavour violating decays $B^0(s) \rightarrow e^+ \mu^-$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	15
164	Observation of the $B_{c^+} \rightarrow K^+ D^0$ Decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 265-273	4.2	15

163	Study of the $\Xi(3823)$ and $\Xi(3872)$ states in $B^+ \rightarrow \Xi J/\psi K^+$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	15
162	Evidence for the decay ( $B^+ \rightarrow \overline{K}^{*0} \mu^+ \mu^-$ ). <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	15
161	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
160	Model-Independent Observation of Exotic Contributions to $B^0 \rightarrow \rho^+ \rho^-$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 152002	7.4	13
159	Search for excited $B + c$ states. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	13
158	Observation of $B_c^+ \rightarrow \rho^+ K^+$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 111803	7.4	13
157	Resonances and CP violation in $B^0$ s and ( $\overline{B}_s^0 \rightarrow J/\psi K^+ K^-$ ) decays in the mass region above the $\psi(1020)$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	13
156	Search for the doubly charmed baryon ( $\Xi_{cc}^{++}$ ). <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2020</b> , 63, 1	3.6	13
155	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
154	First study of the CP-violating phase and decay-width difference in $B_s^0 \rightarrow \rho^+ \rho^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 762, 253-262	4.2	13
153	Central exclusive production of $J/\psi$ and $\psi(2S)$ mesons in pp collisions at $s = 13 \sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018,	5.4	13
152	Measurement of CP asymmetries in two-body $B(s)0$ -meson decays to charged pions and kaons. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	13
151	Measurement of $B^+$ , $B^0$ and $\overline{B}^0$ production in pPb collisions at $\sqrt{s_{NN}}=8.16$ TeV. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	12
150	Test of lepton universality with ( $\Lambda_b^0 \rightarrow p K^+ \ell^+ \ell^-$ ) decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	12
149	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
148	Measurement of the $\Xi_{cc}^0$ Baryon Lifetime. <i>Physical Review Letters</i> , <b>2018</b> , 121, 092003	7.4	12
147	Measurement of CP asymmetry in $D^0 \rightarrow \overline{K} K^+$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 767, 177-187	4.2	11
146	Precision measurement of the ( $\varXi_{cc}^{++}$ ) mass. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	11

145	Differential branching fraction and angular moments analysis of the decay $B^0 \rightarrow \pi^+ \pi^- \pi^0$ in the $K^*0,2(1430)0$ region. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	11
144	Measurement of the CP Violation Parameter $A_{CP}$ in $D^0 \rightarrow \pi^+ K^-$ and $D^0 \rightarrow \pi^+ \pi^-$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 261803	7.4	11
143	Studies of the resonance structure in decays. <i>European Physical Journal C</i> , <b>2018</b> , 78, 443	4.2	11
142	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
141	Study of charmonium production in $\pi$ -hadron decays and first evidence for the decay. <i>European Physical Journal C</i> , <b>2017</b> , 77, 609	4.2	10
140	Measurement of CP observables in $B^0 \rightarrow \pi^0 K^0$ and $B^0 \rightarrow \pi^0 \pi^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 777, 16-30	4.2	10
139	Measurement of $B_{s^0}$ and $D_{s^0}$ Meson Lifetimes. <i>Physical Review Letters</i> , <b>2017</b> , 119, 101801	7.4	10
138	Observation of the suppressed decay $D^0 \rightarrow \pi^+ \pi^- \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	10
137	Measurement of $B^0, B_s^0, B^+, B^0$ 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
136	First Observation of a Baryonic $B_{s^0}$ Decay. <i>Physical Review Letters</i> , <b>2017</b> , 119, 041802	7.4	10
135	Searches for low-mass dimuon resonances. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	10
134	Prompt $\bar{D}^0$ production in pPb collisions at $(\sqrt{s_{NN}}=5.02)$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	10
133	Measurement of the mass and production rate of $\Lambda_b$ baryons. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	9
132	A measurement of the CP asymmetry difference between $\bar{D}^0 \rightarrow \pi^+ K^-$ and $\pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018,	5.4	9
131	Measurement of the $(\eta_c(1S))$ production cross-section in $(p)(p)$ collisions at $(\sqrt{s} = 13)$ (, text {TeV}). <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	9
130	Search for CP violation in $B^0 \rightarrow \pi^0 K^0$ and $B^0 \rightarrow \pi^0 \pi^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 787, 124-133	4.2	9
129	Measurement of the CKM angle $\alpha$ using $B^0 \rightarrow \pi^0 K^0$ with $D^0 \rightarrow \pi^0 K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	9
128	Search for the rare decay $\bar{D}^0 \rightarrow \pi^+ \pi^- \pi^0$ . <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	9

127	Search for the suppressed decays $B^+ \rightarrow K^+ K^0$ and $B^+ \rightarrow K^+ K^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 765, 307-316	4.2	8
126	Observation of $B_c^+ \rightarrow D^{(*)} K^{(*)}$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	8
125	Measurements of charm mixing and CP violation using $D^0 \rightarrow K^0$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	8
124	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
123	Measurement of the Charm-Mixing Parameter $y_{CP}$ . <i>Physical Review Letters</i> , <b>2019</b> , 122, 011802	7.4	8
122	Measurement of branching fractions of charmless four-body $\bar{D}^0$ and $D^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	8
121	Evidence for the Rare Decay $\bar{D}^0 \rightarrow \rho^0 \pi^0$ . <i>Physical Review Letters</i> , <b>2018</b> , 120, 221803	7.4	8
120	$\chi_{c1}$ and $\chi_{c2}$ Resonance Parameters with the Decays $\chi_{c1,2} \rightarrow \rho^0 \pi^0$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 221801	7.4	8
119	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,	5.4	8
118	Search for the lepton flavour violating decay $B^+ \rightarrow K^+ \mu^+ \mu^-$ using $(B_{s2}^0)$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
117	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
116	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
115	Study of $\tau$ 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
114	Measurement of Angular and CP Asymmetries in $D^0 \rightarrow \rho^+ \pi^- \pi^0$ and $D^0 \rightarrow \rho^+ K^0 \pi^-$ Decays. <i>Physical Review Letters</i> , <b>2018</b> , 121, 091801	7.4	8
113	Measurements of the branching fractions of $\bar{D}^0 \rightarrow \rho^0 \pi^0$ , $\bar{D}^0 \rightarrow \rho^0 K^0$ , and $\bar{D}^0 \rightarrow \rho^0 K^+$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018,	5.4	8
112	Search for the CP-violating strong decays $\bar{D}^0$ and $D(958) \rightarrow \rho^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 764, 233-240	4.2	7
111	Observation of the Decay $\bar{D}^0 \rightarrow \rho^0 K^+$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 071801	7.4	7
110	Improved limit on the branching fraction of the rare decay. <i>European Physical Journal C</i> , <b>2017</b> , 77, 678	4.2	7

109	Observation of the decay $B^0 \rightarrow \mu^+ \mu^-$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 784, 101-111	4.2	7
108	First Observation of the Radiative Decay $B^0 \rightarrow \mu^+ \mu^- \gamma$ . <i>Physical Review Letters</i> , <b>2019</b> , 123, 031801	7.4	7
107	Updated measurement of time-dependent (CP)-violating observables in $(B^0 \rightarrow J/\psi K^+ K^-)$ decays. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	7
106	Search for CP violation in the phase space of $D^0 \rightarrow \mu^+ \mu^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 769, 345-356	4.2	7
105	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
104	Search for CP violation in $(\chi^+ \rightarrow p K^- \pi^+)$ decays using model-independent techniques. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	7
103	Observation of a new baryon state in the $(\Lambda_{\text{b}}^0 \rightarrow \pi^+ \pi^-)$ mass spectrum. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	7
102	Search for a dimuon resonance in the $\chi$ mass region. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
101	Search for CP violation using triple product asymmetries in $B^0 \rightarrow \mu^+ \mu^- K^+ K^-$ and $B^0 \rightarrow \mu^+ \mu^- K^+ K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
100	Amplitude Analysis of the Decay $B^0 \rightarrow \mu^+ \mu^- \pi^+ \pi^-$ and First Observation of the CP Asymmetry in $B^0 \rightarrow \mu^+ \mu^- (892)^+ \pi^+$ . <i>Physical Review Letters</i> , <b>2018</b> , 120, 261801	7.4	7
99	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
98	First measurement of the CP-violating phase $(\phi_{\text{d}})$ in $B^0 \rightarrow \mu^+ \mu^- K^+ K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
97	Measurements of CP asymmetries in charmless four-body $(\Lambda_{\text{b}}^0)$ and $(\chi^0_{\text{b}})$ decays. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	6
96	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
95	Observation of the decay $B^0 \rightarrow \mu^+ \mu^-$ and evidence for $B^0 \rightarrow \mu^+ \mu^- \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5.4	6
94	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
93	Measurement of CP Violation in $B^0 \rightarrow \mu^+ \mu^-$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 261801	7.4	6
92	Observation of the decay $B^0 \rightarrow \mu^+ \mu^- K^+ K^0$ . <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	6



91	Measurement of $\chi$ production in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
90	First observation of $B^+ \rightarrow \Phi^+ + s$ $K+K^0$ decays and a search for $B^+ \rightarrow \Phi^+ + s$ $\chi$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
89	Observation of charmless baryonic decays $B(s)0 \rightarrow \Phi^+ h^+ h^0$ . <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	5
88	Observation of the ( $\Lambda_{\text{charm}}^0 \rightarrow \chi_{\text{c}1}^0$ ) (3872) pK <sup>0</sup> decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
87	Amplitude analysis of $B^0 \rightarrow s \chi_{\text{c}0}^0 K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
86	Observation of the decay $B^0 \rightarrow \Phi^+ K^- \pi^+$ and a search for CP violation. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5.4	5
85	Study of ( $\overline{\text{B}} \rightarrow \text{B}$ ) correlations in high energy proton-proton collisions. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	5
84	Measurement of the ratio of branching fractions ( $\frac{\text{B} \rightarrow \text{B}^+ \chi_{\text{c}1}^0}{\text{B} \rightarrow \text{B}^+ \chi_{\text{c}0}^0}$ ). <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	5
83	A search for ( $\chi_{\text{cc}}^{++} \rightarrow \Phi^+ p K^0$ ) decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
82	Observation of $B_s^0 \rightarrow \Phi^+ \pi^-$ and search for $B^0 \rightarrow \Phi^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	5
81	Observation of the decay $B^0 \rightarrow \Phi^+ \pi^-$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	5
80	Search for weakly decaying b-flavored pentaquarks. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	5
79	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
78	Observation of [Formula: see text] and [Formula: see text] decays. <i>European Physical Journal C</i> , <b>2017</b> , 77, 72	4.2	4
77	Observation of $B_{(s)}^0 \rightarrow \Phi^+ \pi^-$ Decays and Precision Measurements of the $B_{(s)}^0$ Masses. <i>Physical Review Letters</i> , <b>2019</b> , 122, 191804	7.4	4
76	Measurement of CP asymmetry in $B^0 \rightarrow s \chi_{\text{c}1}^0 K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
75	Search for $B_c^+$ decays to two charm mesons. <i>Nuclear Physics B</i> , <b>2018</b> , 930, 563-582	2.8	4
74	Dalitz plot analysis of the $D^+ \rightarrow \Phi^+ K^0$ decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	4

73	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
72	Evidence for the two-body charmless baryonic decay ( $\{B\}^{\{+\}} \rightarrow \overline{\text{poverline}\{\varLambda\}} \{K\}^{\{0\}}$ ). <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	4
71	First Observation of the Rare Purely Baryonic Decay $B^{\{0\}} \rightarrow \overline{\text{p}} \{K\}^{\{0\}}$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 232001	7.4	4
70	Measurement of CP observables in $B_{\text{c}}^{\{0\}} \rightarrow \overline{\text{D}} \{K\}^{\{0\}}$ decays using two- and four-body D final states. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	4
69	Updated branching fraction measurements of $B^{\{s\}} \rightarrow \overline{\text{D}} \{K\}^{\{0\}} \{h\}^{\{+}\} \{h\}^{\{0\}}$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5.4	4
68	Strong constraints on the $b \rightarrow \overline{\text{c}} \{g\} \{K\}^{\{0\}}$ photon polarisation from $B^{\{0\}} \rightarrow \overline{\text{c}} \{K\}^{\{0\}} \{e\}^{\{+}\} \{e\}^{\{0\}}$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	4
67	Measurement of the $B_{\text{s}} \rightarrow \overline{\text{D}} \{K\}^{\{0\}}$ lifetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 762, 484-492	4.2	4
66	Measurement of the time-integrated CP asymmetry in $D^{\{0\}} \rightarrow \overline{\text{D}} \{K\}^{\{0\}} \{K\}^{\{0\}} \{K\}^{\{0\}}$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
65	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
64	Measurement of $D^{\{s\}} \rightarrow \overline{\text{D}} \{K\}^{\{0\}}$ 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
63	Measurement of the branching fractions of the decays $D^{\{+}\} \rightarrow \overline{\text{c}} \{K\}^{\{+}\} \{K\}^{\{+}\}$ , $D^{\{+}\} \rightarrow \overline{\text{c}} \{K\}^{\{+}\} \{K\}^{\{0\}}$ and $D^{\{s\}} \rightarrow \overline{\text{c}} \{K\}^{\{+}\} \{K\}^{\{+}\}$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019,	5.4	3
62	Amplitude analysis of the ( $\{B\}_{\{s\}}^{\{0\}} \rightarrow \{K\}^{\{ast\ 0\}} \overline{\text{K}}^{\{ast\ 0\}}$ ) decays and measurement of the branching fraction of the ( $\{B\}^{\{0\}} \rightarrow \{K\}^{\{ast\ 0\}} \overline{\text{K}}^{\{ast\ 0\}}$ ) decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	3
61	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
60	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
59	Search for long-lived particles decaying to ( $e^{\{pm\}}$ ) ( $\mu^{\{pm\}}$ ) ( $\nu$ ). <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	3
58	Search for lepton-flavour-violating decays of Higgs-like bosons. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1008	4.2	3
57	Measurement of the relative $B_{\text{c}}^{\{0\}} \rightarrow \overline{\text{D}} \{K\}^{\{0\}}$ branching fractions using $B_{\text{c}}^{\{0\}}$ mesons from $B_{\text{c}}^{\{2\}} \rightarrow \overline{\text{D}} \{K\}^{\{0\}}$ decays. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	2
56	Measurement of the CP-violating phase $\varphi$ from $B_{\text{s}} \rightarrow \overline{\text{D}} \{K\}^{\{0\}}$ 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

55	Search for CP Violation in $D_{s^+} \rightarrow K_{S^0} \pi^+$ , $D^{*+} \rightarrow K_{S^0} K^+$ , and $D^{*+} \rightarrow \pi^+$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 191803	7.4	2
54	Observation of the doubly Cabibbo-suppressed decay $B_c^- \rightarrow \rho^0$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
53	Search for CP violation through an amplitude analysis of $D^0 \rightarrow K^+ K^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
52	Measurement of the $(\Lambda_b^0) \rightarrow g/\bar{g}$ angular distribution and the $(\Lambda_b^0)$ polarisation in pp collisions. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
51	Measurement of CP observables in $B_{\text{d}}^0 \rightarrow \rho^0 K_{\text{S}}^0$ and $B_{\text{d}}^0 \rightarrow \rho^0 \pi^0$ with $D \rightarrow \{K_{\text{S}}^0, K^{\pm}\} \pi^{\pm}$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
50	Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B^+ \rightarrow g/\bar{g} \pi^+$ and $B^+ \rightarrow g/\bar{g} K^+$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	2
49	Study of the $B^0 \rightarrow \rho^0 K^{*0}(892) \pi^0$ decay with an amplitude analysis of $B^0 \rightarrow \rho^0(K^+ \pi^-)$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
48	Observation of the $B^+ \rightarrow \rho^0 K^+ \pi^+$ decay. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	2
47	Measurement of CP violation in $B^0 \rightarrow g/\bar{g} K^+ S^0$ and $B^0 \rightarrow g/\bar{g} K^0 S^0$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5.4	2
46	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
45	Search for the doubly heavy $(\Xi_{bc}^0)$ baryon via decays to $D^0 p \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
44	Observation of the $(B_s^0) \rightarrow \rho^0 \pi^0$ decay. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
43	Measurement of CP observables in $B_{\text{d}}^0 \rightarrow \rho^0(*) K_{\text{S}}^0$ and $B_{\text{d}}^0 \rightarrow \rho^0(*) \pi^0$ decays using two-body D final states. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
42	Measurement of the branching fraction of the $(B^0 \rightarrow D^+ K^+ \pi^-)$ decay. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	2
41	Measurement of CP-Violating and Mixing-Induced Observables in $B_{s^0} \rightarrow \rho^0 \pi^0$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 123, 081802	7.4	2
40	Study of $(B_{\text{s}}^0) \rightarrow g/\bar{g} K^+ K^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
39	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
38	Measurement of CP violation in $B^0 \rightarrow \rho^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	2

37	Measurement of CP observables in the process $B^0 \rightarrow DK^*0$ with two- and four-body D decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	1
36	First observation of forward $Z \rightarrow b\bar{b}$ production in pp collisions at $\sqrt{s}=8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 776, 430-439	4.2	1
35	Measurement of the ratio of branching fractions of the decays $B^0 \rightarrow g(2S)l\bar{l}$ and $B^0 \rightarrow g/l\bar{l}$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	1
34	Measurement of the branching fraction and (CP) asymmetry in $\{B^+ \rightarrow J/\psi \rho^+\}$ decays. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	1
33	Search for the $B^0 \rightarrow g\gamma$ decay. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	1
32	Search for Baryon-Number Violating $[b]^0$ Oscillations. <i>Physical Review Letters</i> , <b>2017</b> , 119, 181807	7.4	1
31	Observation of the semileptonic decay $B^+ \rightarrow \overline{p} \mu^+ \nu_{\mu}$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020,	5.4	1
30	Angular analysis of the rare decay $(B_s^0 \rightarrow g\eta)$ . <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
29	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
28	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
27	Precision measurement of the $(B_c^+)$ meson mass. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
26	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
25	Search for CP violation in $(D_{(s)}^+ \rightarrow h^+ \pi^0)$ and $(D_{(s)}^+ \rightarrow h^+ \eta)$ decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
24	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
23	Measurement of the CP asymmetry in $B \rightarrow D$ and $B \rightarrow D^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	1
22	Search for the radiative $\{X_i\}_b^- \rightarrow g\gamma$ decay. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
21	Measurement of the W boson mass. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
20	Measurement of $\bar{\nu}_1(3872)$ 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

19	Measurement of CP violation in $B^0 \rightarrow \rho^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	○
18	First measurement of the (CP)-violating phase in $(\{B^0 \rightarrow J/\psi\} \rightarrow (e^+ e^-)(\phi))$ decays. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	○
17	Observation of a $(\lambda_b) \rightarrow (\overline{\lambda}_b)$ 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	○
16	Measurement of the CKM angle $\Delta$ and $(B_s \rightarrow \overline{B}_s)$ mixing frequency with $(B_s \rightarrow D_s^{\pm} \{h^{\pm} \pi^{\pm} \pi^{\pm} \pi^{\mp}\})$ decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
15	Observation of the decay $(\Lambda_b \rightarrow \Lambda^0 \rho^+)$ . <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
14	Searches for 25 rare and forbidden decays of $D^+$ and $(D_s^+)$ mesons. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
13	Measurement of CP violation in the $(B_s \rightarrow \phi \phi)$ decay and search for the $B^0 \rightarrow \eta'$ decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	○
12	Measurement of the CKM angle $\Delta$ in $B^0 \rightarrow \rho^+ K^-$ and $B^0 \rightarrow \rho^0 K^0$ decays with $D \rightarrow \{K^0 \rightarrow h^+ h^-\}$ . <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
11	Observation of the decay $(\overline{B}_s \rightarrow \chi_{c2}^+ K^-)$ in the $\chi$ mass region. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	○
10	Search for the doubly charmed baryon $\Xi_{cc}$ . <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2021</b> , 64, 1	3.6	○
9	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	○
8	Simultaneous determination of CKM angle $\Delta$ and charm mixing parameters. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
7	Search for the doubly charmed baryon $\Xi_{cc}^+$ in the $\Xi_{cc}^+ \rightarrow \{ \pi^+ \pi^+ \}$ final state. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
6	Study of charmonium and charmonium-like contributions in $B^+ \rightarrow \rho^+ \mathbb{K}^+$ decays. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
5	Search for the decay $B^0 \rightarrow \eta' \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
4	Study of $B^0 \rightarrow \{ \mathbb{K}^+ \}$ decays to charmonia and three light hadrons. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	
3	Angular analysis of $(B^0 \rightarrow D^{\text{ast} -} D_s^{\text{ast} +})$ with $(D_s^{\text{ast} +} \rightarrow D_s^+ \gamma)$ decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	
2	Observation of $(\Lambda_b \rightarrow \rho^+ p)$ and $(\Lambda_b \rightarrow \rho^+ p)$ decays. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	

<sup>1</sup> Updated search for  $B_c^+$  decays to two charm mesons. *Journal of High Energy Physics*, **2021**, 2021, 1

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