

Ricardo Graciani Diaz

List of Publications by Citations

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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.

613
papers

22,653
citations

69
h-index

121
g-index

634
ext. papers

26,267
ext. citations

5
avg, IF

6.21
L-index

#	Paper	IF	Citations
613	The LHCb Detector at the LHC. <i>Journal of Instrumentation</i> , 2008 , 3, S08005-S08005	1	622
612	Observation of J/ψ Resonances Consistent with Pentaquark States in $\Lambda_b^0 \rightarrow J/\psi p$ Decays. <i>Physical Review Letters</i> , 2015 , 115, 072001	7.4	580
611	Test of lepton universality using $b^+ \rightarrow K^+ \mu^+ \mu^-$ decays. <i>Physical Review Letters</i> , 2014 , 113, 151601	7.4	542
610	Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy. <i>Experimental Astronomy</i> , 2011 , 32, 193-316	1.3	496
609	LHCb detector performance. <i>International Journal of Modern Physics A</i> , 2015 , 30, 1530022	1.2	452
608	Introducing the CTA concept. <i>Astroparticle Physics</i> , 2013 , 43, 3-18	2.4	389
607	Observation of the rare $B(s)(0) \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data. <i>Nature</i> , 2015 , 522, 68-72	50.4	326
606	Measurement of the ratio of branching fractions $B(B^0 \rightarrow D^{*+} \mu^-) / B(B^0 \rightarrow D^{*+} \tau^-)$. <i>Physical Review Letters</i> , 2015 , 115, 111803	7.4	316
605	Measurement of form-factor-independent observables in the decay $B^0 \rightarrow K^{*0} (\mu^+ \mu^-)$. <i>Physical Review Letters</i> , 2013 , 111, 191801	7.4	314
604	Test of lepton universality with $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ decays. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	298
603	First evidence for the decay $B(s)(0) \rightarrow \mu^+ \mu^-$. <i>Physical Review Letters</i> , 2013 , 110, 021801	7.4	263
602	Observation of the Doubly Charmed Baryon Λ_{cc}^{++} . <i>Physical Review Letters</i> , 2017 , 119, 112001	7.4	257
601	Observation of the resonant character of the $Z(4430)^-$ state. <i>Physical Review Letters</i> , 2014 , 112, 222002	7.4	234
600	Determination of the $X(3872)$ meson quantum numbers. <i>Physical Review Letters</i> , 2013 , 110, 222001	7.4	234
599	Angular analysis of the $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ decay using 3 fb of integrated luminosity. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	232
598	Measurement of the $B_s(0) \rightarrow \mu^+ \mu^-$ branching fraction and search for $B(0) \rightarrow \mu^+ \mu^-$ decays at the LHCb experiment. <i>Physical Review Letters</i> , 2013 , 111, 101805	7.4	221
597	Exclusive photoproduction of (J/ψ) mesons at HERA. <i>European Physical Journal C</i> , 2002 , 24, 345-360	4.2	219

596	Measurement of J/ψ production in pp collisions at $(\sqrt{s}=7)$ TeV. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	216
595	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> , 2019 , 122, 222001	7.4	199
594	Charged-particle multiplicity measurement in proton-proton collisions at $(\sqrt{s}=0.9)$ and 2.36 TeV with ALICE at LHC. <i>European Physical Journal C</i> , 2010 , 68, 89-108	4.2	179
593	Production of pions, kaons and protons in pp collisions at $(\sqrt{s}=900\text{ GeV})$ with ALICE at the LHC. <i>European Physical Journal C</i> , 2011 , 71, 1	4.2	176
592	Charged-particle multiplicity measurement in proton-proton collisions at $(\sqrt{s}=7)$ TeV with ALICE at LHC. <i>European Physical Journal C</i> , 2010 , 68, 345-354	4.2	173
591	Prompt charm production in pp collisions at . <i>Nuclear Physics B</i> , 2013 , 871, 1-20	2.8	163
590	Observation of Five New Narrow χ_{c}^{0} States Decaying to $\chi_{c}^{+}K^{-}$. <i>Physical Review Letters</i> , 2017 , 118, 182001	7.4	154
589	Evidence for CP violation in time-integrated $D^0 \rightarrow h^{-}h^{+}$ decay rates. <i>Physical Review Letters</i> , 2012 , 108, 111602	7.4	150
588	Measurement of the proton structure function F_2 at very low Q^2 at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 487, 53-73	4.2	149
587	Strong constraints on the rare decays $B(s)(0) \rightarrow \mu \bar{\mu}$ and $B_0 \rightarrow \mu \bar{\mu}$ <i>Physical Review Letters</i> , 2012 , 108, 231801	7.4	144
586	Differential branching fractions and isospin asymmetries of $B \rightarrow K^{(*)} \mu^{+} \mu^{-}$ decays. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	142
585	Angular analysis and differential branching fraction of the decay $B^0 \rightarrow \mu^{+} \mu^{-}$ <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	138
584	Search for Lepton-Universality Violation in $B^{+} \rightarrow K^{+} \mu^{+} \mu^{-}$ Decays. <i>Physical Review Letters</i> , 2019 , 122, 191801	7.4	137
583	Transverse momentum spectra of charged particles in proton-proton collisions at $\sqrt{s}=900$ GeV with ALICE at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010 , 693, 53-68	4.2	135
582	Measurement of the Ratio of the $B^{0} \rightarrow D^{*-} \mu^{+} \mu^{-}$ and $B^{0} \rightarrow D^{*-} \mu^{+} \mu^{-}$ Branching Fractions Using Three-Prong Lepton Decays. <i>Physical Review Letters</i> , 2018 , 120, 171802	7.4	126
581	Measurement of the proton structure function F_2 and at low and very low x at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997 , 407, 432-448	4.2	123
580	Observation of $X(3872)$ production in pp collisions at $(\sqrt{s}=7\text{ TeV})$. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	121
579	Alignment of the ALICE Inner Tracking System with cosmic-ray tracks. <i>Journal of Instrumentation</i> , 2010 , 5, P03003-P03003	1	120

578	Implications of LHCb measurements and future prospects. <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	116
577	First proton-proton collisions at the LHC as observed with the ALICE detector: measurement of the charged-particle pseudorapidity density at ($\sqrt{s}=900$) GeV. <i>European Physical Journal C</i> , 2010 , 65, 111-125	4.2	113
576	Measurement of the Ratio of Branching Fractions $B(B_{c}^{+} \rightarrow J/\psi \pi^{+})/B(B_{c}^{+} \rightarrow J/\psi \pi^{0})$. <i>Physical Review Letters</i> , 2018 , 120, 121801	7.4	109
575	Measurement of α_s . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010 , 694, 209-216	4.2	107
574	Test of lepton flavor universality by the measurement of the $B^0 \rightarrow D^{*+} \pi^{-}$ branching fraction using three-prong π decays. <i>Physical Review D</i> , 2018 , 97,	4.9	106
573	Measurement of the $B_{s}^{0} \rightarrow \pi^{+} \pi^{-}$ Branching Fraction and Effective Lifetime and Search for $B^{0} \rightarrow \pi^{+} \pi^{-}$ Decays. <i>Physical Review Letters</i> , 2017 , 118, 191801	7.4	106
572	Measurement of b hadron production fractions in 7 TeV pp collisions. <i>Physical Review D</i> , 2012 , 85,	4.9	105
571	Observation of α_s . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 707, 52-59	4.2	104
570	Differential branching fraction and angular analysis of the decay $B^0 \rightarrow K^{*0} \pi^{+} \pi^{-}$. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	99
569	Observation of J/ψ Structures Consistent with Exotic States from Amplitude Analysis of $B^{+} \rightarrow J/\psi K^{+}$ Decays. <i>Physical Review Letters</i> , 2017 , 118, 022003	7.4	98
568	Measurement of the CP-violating phase $\gamma(s)$ in the decay $B(s)0 \rightarrow J/\psi$. <i>Physical Review Letters</i> , 2012 , 108, 101803	7.4	95
567	Evidence for Exotic Hadron Contributions to $\psi(b)^{0} \rightarrow J/\psi \pi^{+} \pi^{-}$ Decays. <i>Physical Review Letters</i> , 2016 , 117, 082003	7.4	91
566	Measurement of ρ polarization in collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2013 , 73, 2631	4.2	87
565	Measurement of elastic π photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998 , 437, 432-444	4.2	87
564	Measurement of the proton structure function F_2 at low x and low Q^2 at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1996 , 69, 607-620		87
563	Differential branching fraction and angular analysis of the decay $(B_s^0) \rightarrow \pi^{+} \pi^{-}$. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	86
562	Observation of double charm production involving open charm in pp collisions at ($\sqrt{s} = \{7\}; \{\text{TeV}\}$). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	86
561	Model-Independent Evidence for J/ψ Contributions to $\psi(b)^{0} \rightarrow J/\psi K^{+} \pi^{-}$ Decays. <i>Physical Review Letters</i> , 2016 , 117, 082002	7.4	85

560	Exclusive J/ψ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2013 , 40, 045001	2.9	85
559	Measurement of production in collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2012 , 72, 2025	4.2	83
558	Measurement of the track reconstruction efficiency at LHCb. <i>Journal of Instrumentation</i> , 2015 , 10, P02007-P02007	1.0	89
557	Updated measurements of exclusive J/ψ and $\psi(2S)$ production cross-sections in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2014 , 41, 055002	2.9	83
556	Determination of the quark coupling strength $ V_{ub} $ using baryonic decays. <i>Nature Physics</i> , 2015 , 11, 743-747	1.4	79
555	Evidence for the decay . <i>Nuclear Physics B</i> , 2014 , 886, 665-680	2.8	79
554	Precision luminosity measurements at LHCb. <i>Journal of Instrumentation</i> , 2014 , 9, P12005-P12005	1	79
553	Measurement of the fragmentation fraction ratio f_s/f_d and its dependence on B meson kinematics. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	78
552	First observation of CP violation in the decays of $B(s)_0$ mesons. <i>Physical Review Letters</i> , 2013 , 110, 221601-4	1.4	78
551	Search for Dark Photons Produced in 13 TeV pp Collisions. <i>Physical Review Letters</i> , 2018 , 120, 061801	7.4	75
550	Measurement of the cross section for the reaction $\bar{p} \rightarrow J/\psi$ with the ZEUS detector at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 350, 120-134	4.2	75
549	DIRAC: a community grid solution. <i>Journal of Physics: Conference Series</i> , 2008 , 119, 062048	0.3	73
548	Measurement of elastic \bar{p} photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996 , 377, 259-272	4.2	73
547	Search for Majorana neutrinos in $B^- \rightarrow \mu^+ \mu^-$ decays. <i>Physical Review Letters</i> , 2014 , 112, 131802	7.4	70
546	Dalitz plot analysis of $B_{s0} \rightarrow D^0 K^0$ decays. <i>Physical Review D</i> , 2014 , 90,	4.9	70
545	Measurement of CP violation in the phase space of $B_{\mu}^- \rightarrow K^0 \mu^+$ and $B_{\mu}^- \rightarrow K^0 K^+ K^-$ decays. <i>Physical Review Letters</i> , 2013 , 111, 101801	7.4	70
544	Observation of CP violation in $B_{\mu}^- \rightarrow D K^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 712, 203-212	4.2	69
543	Study of D^0 meson decays to $D^+ \pi^0$ and D^{*+} final states in pp collisions. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	69

542	Extraction of the gluon density of the proton at x. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 345, 576-588	4.2	69
541	Observation of excited $(\bar{b})_0$ baryons. <i>Physical Review Letters</i> , 2012 , 109, 172003	7.4	68
540	Study of deep inelastic inclusive and diffractive scattering with the ZEUS forward plug calorimeter. <i>Nuclear Physics B</i> , 2005 , 713, 3-80	2.8	67
539	Measurement of CP violation and the B_s^0 meson decay width difference with $B_s^0 \rightarrow J/\psi + K^0$ and $B_s^0 \rightarrow J/\psi + \bar{K}^0$ decays. <i>Physical Review D</i> , 2013 , 87,	4.9	66
538	First observation of $B_s^0 \rightarrow J/\psi(980)$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 698, 115-122	4.2	66
537	Measurements of prompt charm production cross-sections in pp collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	65
536	Search for Hidden-Sector Bosons in $B(0) \rightarrow K^{*0}(\rho^+)(\rho^-)$ Decays. <i>Physical Review Letters</i> , 2015 , 115, 161802	7.4	65
535	Dijet cross sections in photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 348, 665-680	4.2	65
534	Exclusive ρ^0 production in deep inelastic electron-proton scattering at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 356, 601-616	4.2	65
533	Study of the production of ρ^0 and hadrons in pp collisions and first measurement of the branching fraction. <i>Chinese Physics C</i> , 2016 , 40, 011001	2.2	65
532	Physics potential of the International Axion Observatory (IAXO). <i>Journal of Cosmology and Astroparticle Physics</i> , 2019 , 2019, 047-047	6.4	64
531	Search for Structure in the $B_{s^*}^0 \rho^0$ Invariant Mass Spectrum. <i>Physical Review Letters</i> , 2016 , 117, 152003	7.4	64
530	Differential branching fraction and angular analysis of the $B^+ \rightarrow K^+ \rho^0 \rho^0$ decay. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	63
529	Measurement of (2) meson production in collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2012 , 72, 2100	4.2	63
528	Observation of jet production in deep inelastic scattering with a large rapidity gap at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994 , 332, 228-243	4.2	62
527	Measurement of CP violation in the phase space of $B_{\bar{d}}^0 \rightarrow K^+ K^- \rho^0$ and $B_{\bar{d}}^0 \rightarrow \rho^0 \rho^0$ decays. <i>Physical Review Letters</i> , 2014 , 112, 011801	7.4	61
526	Observation of overlapping spin-1 and spin-3 D_0K^- resonances at mass 2.86 GeV/c ² . <i>Physical Review Letters</i> , 2014 , 113, 162001	7.4	61
525	Study of J/ψ production and cold nuclear matter effects in pPb collisions at $(\sqrt{\{s_{NN}\}}) = 5$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	60

524	Inclusive W and Z production in the forward region at ($\sqrt{s} = 7, \text{TeV}$). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	60
523	Search for $A^{\{+ \} \rightarrow \bar{D}^{\{+ \} \bar{D}^{\{- \} \}}$ Decays. <i>Physical Review Letters</i> , 2020 , 124, 041801	7-4	60
522	Measurement of the isospin asymmetry in $B \rightarrow K^{(*)} \pi \pi$ decays. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	59
521	Midrapidity antiproton-to-proton ratio in pp collisions at $\sqrt{s}=0.9$ and 7 TeV measured by the ALICE experiment. <i>Physical Review Letters</i> , 2010 , 105, 072002	7-4	59
520	Analysis of the resonant components in $B \rightarrow J/\psi \pi \pi$ <i>Physical Review D</i> , 2012 , 86,	4-9	59
519	Production of J/ψ and (φ) mesons in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	58
518	Search for the rare decays $B_s \rightarrow \pi \pi$ and $B \rightarrow \pi \pi$ <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 699, 330-340	4-2	58
517	Measurement of the $\Lambda_b(0)$, $\Lambda_b(-)$, and $\Lambda_b(-)$ Baryon masses. <i>Physical Review Letters</i> , 2013 , 110, 182001	7-4	57
516	Two-pion Bose-Einstein correlations in pp collisions at $\sqrt{s}=900$ GeV. <i>Physical Review D</i> , 2010 , 82,	4-9	57
515	Amplitude analysis of $B \rightarrow J/\psi K^+$ decays. <i>Physical Review D</i> , 2017 , 95,	4-9	56
514	Measurement of b-hadron masses. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 708, 241-248	4-2	55
513	Observation of the decay $B(c)(+) \rightarrow B(s)(0) \pi$. <i>Physical Review Letters</i> , 2013 , 111, 181801	7-4	55
512	Determination of the sign of the decay width difference in the $B(s)(0)$ system. <i>Physical Review Letters</i> , 2012 , 108, 241801	7-4	55
511	Search for the X(4140) state in $B \rightarrow J/\psi K^+$ decays. <i>Physical Review D</i> , 2012 , 85,	4-9	55
510	Differential branching fraction and angular analysis of $B \rightarrow \pi \pi$ decays. <i>Journal of High Energy Physics</i> , 2015 , 2015,	5-4	54
509	Measurement of resonant and CP components in $B \rightarrow J/\psi \pi \pi$ decays. <i>Physical Review D</i> , 2014 , 89,	4-9	54
508	First Observation of the Doubly Charmed Baryon Decay $\Lambda_{cc}^{++} \rightarrow \Lambda_c^+ \pi^+$. <i>Physical Review Letters</i> , 2018 , 121, 162002	7-4	54
507	Precision measurement of CP violation in $B(S)(0) \rightarrow J/\psi K^-$ decays. <i>Physical Review Letters</i> , 2015 , 114, 041801	7-4	53

506	Dalitz plot analysis of $B^0 \rightarrow D^0 \pi^+ \pi^-$ decays. <i>Physical Review D</i> , 2015 , 92,	4.9	53
505	Measurements of $B(c)^+$ production and mass with the $B(c)^+ \rightarrow J/\psi$ decay. <i>Physical Review Letters</i> , 2012 , 109, 232001	7.4	53
504	Diffractive hard photoproduction at HERA and evidence for the gluon content of the pomeron. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 356, 129-146	4.2	53
503	Measurement of the resonant and CP components in $B^0 \rightarrow J/\psi$ decays. <i>Physical Review D</i> , 2014 , 90,	4.9	52
502	Observation of CP Violation in Charm Decays. <i>Physical Review Letters</i> , 2019 , 122, 211803	7.4	51
501	Measurement of b-hadron branching fractions for two-body decays into charmless charged hadrons. <i>Journal of High Energy Physics</i> , 2012 , 2012,	5.4	51
500	Rapidity gaps between jets in photoproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996 , 369, 55-68	4.2	51
499	Observation of a New χ_{b1}^{\prime} Resonance. <i>Physical Review Letters</i> , 2018 , 121, 072002	7.4	50
498	First observation of the decay $B(c)^+ \rightarrow J/\psi \pi^+$. <i>Physical Review Letters</i> , 2012 , 108, 251802	7.4	50
497	Dijet photoproduction at HERA and the structure of the photon. <i>European Physical Journal C</i> , 2002 , 23, 615-631	4.2	50
496	Precision measurement of the $B_s^0 \rightarrow B^0$ oscillation frequency with the decay $B_s^0 \rightarrow D^0 \pi^+$. <i>New Journal of Physics</i> , 2013 , 15, 053021	2.9	49
495	Analysis of the resonant components in $B^0 \rightarrow J/\psi \pi^+$ <i>Physical Review D</i> , 2013 , 87,	4.9	49
494	Measurement of elastic J/ψ photoproduction at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1997 , 75, 215-228		49
493	Search for long-lived scalar particles in $B^+ \rightarrow K^+ \pi^+ \pi^-$ decays. <i>Physical Review D</i> , 2017 , 95,	4.9	48
492	Precision measurement of D meson mass differences. <i>Journal of High Energy Physics</i> , 2013 , 2013,	5.4	48
491	Measurements of the S-wave fraction in $B^0 \rightarrow K^+ \pi^- \pi^+$ decays and the $B^0 \rightarrow K^*(892)^0 \pi^+$ differential branching fraction. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	48
490	Measurement of forward J/ψ production cross-sections in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	47
489	Measurements of CP violation in the three-body phase space of charmless B^0 decays. <i>Physical Review D</i> , 2014 , 90,	4.9	47

488	Searches for Majorana neutrinos in B^0 decays. <i>Physical Review D</i> , 2012 , 85,	4.9	47
487	Observation of $B_c^+ \rightarrow J/\psi D_s^+$ and $B_c^+ \rightarrow J/\psi D_s^{*+}$ decays. <i>Physical Review D</i> , 2013 , 87,	4.9	46
486	Measurement of matter-antimatter differences in beauty baryon decays. <i>Nature Physics</i> , 2017 , 13, 391-396.	6.2	45
485	Measurement of B meson production cross-sections in proton-proton collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	45
484	Observation of D^0 - \bar{D}^0 oscillations. <i>Physical Review Letters</i> , 2013 , 110, 101802	7.4	45
483	Measurement of exclusive γ electroproduction at HERA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 487, 273-288	4.2	45
482	Amplitude analysis of $B^0 \rightarrow D^+ \pi^-$ decays. <i>Physical Review D</i> , 2016 , 94,	4.9	45
481	Measurement of the Lifetime of the Doubly Charmed Baryon Ξ_{cc}^{++} . <i>Physical Review Letters</i> , 2018 , 121, 052002	7.4	44
480	Precision measurement of the ratio of the . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 734, 122-130	4.2	43
479	Measurement of the cross-section for $Z \rightarrow e^+e^-$ production in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	43
478	First evidence of direct CP violation in charmless two-body decays of B_s^0 mesons. <i>Physical Review Letters</i> , 2012 , 108, 201601	7.4	43
477	Observation of a resonance in $B^+ \rightarrow K^+ \pi^0$ decays at low recoil. <i>Physical Review Letters</i> , 2013 , 111, 112003.	7.4	43
476	Measurement of CP asymmetry in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	42
475	Measurement of the $B_s^0 \rightarrow B^0$ oscillation frequency Δm_s in $B_s^0 \rightarrow D_s(B) \pi^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 709, 177-184	4.2	42
474	Measurement of the exclusive γ production cross-section in pp collisions at ($\sqrt{s}=7$) TeV and 8 TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	42
473	Measurement of the ratio of prompt . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 718, 431-440	4.2	42
472	First observation of the decay $B_s^{2*}(5840)(0) \rightarrow B^{*+} K^-$ and studies of excited $B_s(0)$ mesons. <i>Physical Review Letters</i> , 2013 , 110, 151803	7.4	42
471	Measurement of the [Formula: see text] production cross-section in proton-proton collisions via the decay [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 311	4.2	41

470	Search for the doubly charmed baryon (Ξ_{cc}^{++}). <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	41
469	Measurements of the $B^0 \rightarrow J/\psi$ decay amplitudes and the B^0 polarisation in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 724, 27-35	4.2	41
468	Measurement of the cross-section ratio. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 714, 215-223	4.2	41
467	DIRAC pilot framework and the DIRAC Workload Management System. <i>Journal of Physics: Conference Series</i> , 2010 , 219, 062049	0.3	41
466	Search for the Decays $B_{s1}^0 \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$. <i>Physical Review Letters</i> , 2017 , 118, 251802	7.4	40
465	Measurement of azimuthal asymmetries in deep inelastic scattering. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 481, 199-212	4.2	40
464	Measurement of the Mass Difference Between Neutral Charm-Meson Eigenstates. <i>Physical Review Letters</i> , 2019 , 122, 231802	7.4	39
463	Opposite-side flavour tagging of mesons at the LHCb experiment. <i>European Physical Journal C</i> , 2012 , 72, 2022	4.2	39
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355	Measurement of the $B^0 B^0$ and $B_s^0 B_s^0$ production asymmetries in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 739, 218-228	4.2	22
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312	Observation of $B(s)(0) \rightarrow J/\psi(1285)$ decays and measurement of the $f_1(1285)$ mixing angle. <i>Physical Review Letters</i> , 2014 , 112, 091802	7.4	17
311	Measurement of the $\Upsilon(3P)$ mass and of the relative rate of $\Upsilon(1P)$ and $\Upsilon(2P)$ production. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	17
310	Measurement of the fraction of $\Upsilon(1S)$ originating from $\Upsilon(1P)$ decays in pp collisions at ($\sqrt{s} = 7$, TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	17
309	Search for CP violation in $D^+ \rightarrow K \bar{K}^+ \pi^0$ decays. <i>Physical Review D</i> , 2011 , 84,	4.9	17

308	Measurement of the $B_s^0 \rightarrow J/\psi K^*0$ branching fraction and angular amplitudes. <i>Physical Review D</i> , 2012 , 86,	4.9	17
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306	Observations of $\Lambda_b \rightarrow \bar{K} + \Lambda$ and $\Lambda_b \rightarrow \bar{K} + K^0$ decays and searches for other Λ_b and Λ_b decays to $\bar{K} + h^0$ final states. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	17
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303	First Experimental Study of Photon Polarization in Radiative $B_{\{s\}^0}$ Decays. <i>Physical Review Letters</i> , 2017 , 118, 021801	7.4	16
302	Search for CP violation in $D^0 \rightarrow \bar{K}^0$ decays with the energy test. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 740, 158-167	4.2	16
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297	Observation of $\bar{D}(2S) \rightarrow \bar{p} p$ and search for $X(3872) \rightarrow \bar{p} p$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 769, 305-313	4.2	16
296	Measurements of prompt charm production cross-sections in pp collisions at $\sqrt{s} = 5$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017,	5.4	16
295	First observation of top quark production in the forward region. <i>Physical Review Letters</i> , 2015 , 115, 112001	7.4	16
294	Amplitude analysis of $B^0 \rightarrow D^0 K^+ K^-$ decays. <i>Physical Review D</i> , 2015 , 92,	4.9	16
293	Search for CP violation using T-odd correlations in $D^0 \rightarrow K^+ K^- \pi^0$ decays. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	16
292	Observations of . <i>Nuclear Physics B</i> , 2013 , 871, 403-419	2.8	16
291	Measurement of the branching fractions of the decays $B_s^0 \rightarrow D^0 K^0$ and $B^0 \rightarrow D^0 K^0$ <i>Physical Review D</i> , 2013 , 87,	4.9	16

290	Observation of $B(s)(0) \rightarrow J/\psi(2)'(1525)$ in $J/\psi + K$ - final states. <i>Physical Review Letters</i> , 2012 , 108, 151801	7.4	16
289	Search for Higgs-like bosons decaying into long-lived exotic particles. <i>European Physical Journal C</i> , 2016 , 76, 664	4.2	16
288	Measurement of CP observables in $B_{\pm} \rightarrow DK_{\pm}$ and $B_{\pm} \rightarrow D_{\pm}$ with two- and four-body D decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 760, 117-131	4.2	16
287	Search for the lepton-flavour violating decays $B^0(s) \rightarrow e\mu\gamma$. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	15
286	Observation of Z production in proton-lead collisions at LHCb. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	15
285	Search for CP violation in the decay $B \rightarrow \pi\pi$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 728, 585-595	4.2	15
284	Measurement of the $B^0\bar{B}^0$ oscillation frequency Δm_d with the decays $B^0 \rightarrow D_{\pm}^{\mp}$ and $B^0 \rightarrow J/\psi K^0$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 719, 318-325	4.2	15
283	Observation of the $B_{\pm} \rightarrow J/\psi K_{\pm}$ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 772, 265-273	4.2	15
282	Bflavour tagging using charm decays at the LHCb experiment. <i>Journal of Instrumentation</i> , 2015 , 10, P10005-P10005	10.0	5
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280	First measurement of the charge asymmetry in beauty-quark pair production. <i>Physical Review Letters</i> , 2014 , 113, 082003	7.4	15
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277	Measurement of the polarization amplitudes in $B^0 \rightarrow J/\psi K^*(892)^0$ decays. <i>Physical Review D</i> , 2013 , 88,	4.9	15
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268	Study of $B_{(s)}^0 \rightarrow K_{\text{charm}}^0 \{h^+\} \{h^{\prime -}\}$ decays with first observation of $B_s^0 \rightarrow K_{\text{charm}}^0 \{K^{\pm}\} \{\pi^{\mp}\}$ and $B_s^0 \rightarrow K_{\text{charm}}^0 \pi^+ \pi^-$. <i>Journal of High Energy Physics</i> , 2013 , 2013,	5-4	14
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266	Observation of the suppressed ADS modes . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 723, 44-53	4-2	14
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264	Evidence for the Strangeness-Changing Weak Decay $\bar{b}^{\prime} \rightarrow \bar{b}^0 \pi^-$. <i>Physical Review Letters</i> , 2015 , 115, 241801	7-4	14
263	Evidence for CP violation in $B^+ \rightarrow \pi^+ \pi^0$ decays. <i>Physical Review Letters</i> , 2014 , 113, 141801	7-4	14
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249	Studies of the resonance structure in $D^0 \rightarrow KS^0 K^{\pm}$ decays. <i>Physical Review D</i> , 2016 , 93,	4.9	13
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244	Observation of $B_{c^+} \rightarrow D^0 K^+$ Decays. <i>Physical Review Letters</i> , 2017 , 118, 111803	7.4	13
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232	Measurement of CP asymmetries in two-body $B(s)^0$ -meson decays to charged pions and kaons. <i>Physical Review D</i> , 2018 , 98,	4.9	13
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229	Measurement of CP violation parameters and polarisation fractions in ($B_{s^*}^0 \rightarrow \psi(2S) J/\psi$) decays. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	12
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224	Measurement of the $B^0 \rightarrow K^* K^0$ branching fraction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 713, 172-179	4.2	12
223	Measurement of V_0 production ratios in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	12
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221	A search for excited fermions in electron-proton collisions at HERA. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1995 , 65, 627-647		12
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219	Measurement of the inelastic pp cross-section at a centre-of-mass energy of 13 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	12

218	Measurement of the χ^0 Baryon Lifetime. <i>Physical Review Letters</i> , 2018 , 121, 092003	7.4	12
217	Measurement of CP asymmetry in $D^0 \rightarrow K\bar{K}^+$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 767, 177-187	4.2	11
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214	Differential branching fraction and angular moments analysis of the decay $B^0 \rightarrow K^* K^0$ in the $K^*_{0,2}(1430)^0$ region. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	11
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212	Measurement of the time-dependent CP asymmetry in $B^0 \rightarrow J/\psi K^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 721, 24-31	4.2	11
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209	Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K^0 K^0$ decays. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5.4	11
208	Measurement of CP violation parameters in $B^0 \rightarrow DK^0$ decays. <i>Physical Review D</i> , 2014 , 90,	4.9	11
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202	Studies of the resonance structure in decays. <i>European Physical Journal C</i> , 2018 , 78, 443	4.2	11
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192	Measurement of the effective α_s . <i>Nuclear Physics B</i> , 2013 , 873, 275-292	2.8	10
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165	Observation of $B_c^+ \rightarrow J/\psi K^+$ decays. <i>Physical Review D</i> , 2017 , 95,	4.9	8

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162	Measurement of the Charm-Mixing Parameter y_{CP} . <i>Physical Review Letters</i> , 2019 , 122, 011802	7.4	8
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160	Measurement of branching fractions of charmless four-body B^0 and B^+ decays. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	8
159	Evidence for the Rare Decay $B^+ \rightarrow p \pi^+ \pi^-$. <i>Physical Review Letters</i> , 2018 , 120, 221803	7.4	8
158	Measurement of polarization amplitudes and CP asymmetries in $B^0 \rightarrow K^*(892)^0$. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	8
157	Search for the decay $B^0 \rightarrow \pi^0 \pi^0$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 728, 234-243	4.2	8
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149	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> , 2016 , 2016, 1	5.4	8
148	Measurement of forward $W \rightarrow e\mu$ production in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	8
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146	Study of η production in pPb collisions at $(\sqrt{s_{\mathrm{NN}}}=8.16)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5-4	8
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143	Search for the CP-violating strong decays $B \rightarrow \pi \pi$ and $B(958) \rightarrow \pi \pi$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 764, 233-240	4-2	7
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138	Observation of the $B^0 \rightarrow J/\psi \pi^0$ decay. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	7
137	Observation of the decay $B^0 \rightarrow \pi^+ \pi^- \pi^0$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 784, 101-111	4-2	7
136	First Observation of the Radiative Decay $\Lambda_b^0 \rightarrow \gamma \pi^0$. <i>Physical Review Letters</i> , 2019 , 123, 031801	7-4	7
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134	Observation of associated production of a Z boson with a D meson in the forward region. <i>Journal of High Energy Physics</i> , 2014 , 2014,	5-4	7
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103	Measurement of CP Violation in $B^0 \rightarrow D^{*+} D^{-}$ Decays. <i>Physical Review Letters</i> , 2016 , 117, 261801	7.4	6
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101	Observation of the decay $B_s^0 \rightarrow D^0 K^+ K^-$. <i>Physical Review D</i> , 2018 , 98,	4.9	6
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88	Measurement of the ratio of branching fractions $(\text{BR}(\text{B}^0 \rightarrow \text{D}^* \text{K}^0) / \text{BR}(\text{B}^0 \rightarrow \text{D}^* \text{K}^+))$. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5-4	5
87	A search for $(\Xi_{cc}^{++}) \rightarrow \text{D}^+ \text{p} \text{K}^0$ decays. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5-4	5
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71	First Observation of the Rare Purely Baryonic Decay $B^{+} \rightarrow \overline{\Lambda}^{0} \pi^{+}$. <i>Physical Review Letters</i> , 2017 , 119, 232001	7-4	4
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61	Measurement of the B_c meson production fraction and asymmetry in 7 and 13 TeV pp collisions. <i>Physical Review D</i> , 2019 , 100,	4-9	4
60	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> , 2018 , 2018, 1	5-4	4
59	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> , 2018 , 2018, 1	5-4	4
58	Measurement of $D^{\pm} s$ production asymmetry in pp collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5-4	4
57	First observation of the rare $B^{+} \rightarrow D^{+} K^{+} \mu$ decay. <i>Physical Review D</i> , 2016 , 93,	4-9	3

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21	Measurement of the ratio of branching fractions of the decays $D^0 b \rightarrow (\psi) \pi^0$ and $D^0 b \rightarrow J/\psi$ <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	1

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