

# Celestina Satriano

## List of Publications by Citations

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550 papers	20,089 citations	68 h-index	115 g-index
564 ext. papers	23,313 ext. citations	5.2 avg, IF	6.09 L-index

#	Paper	IF	Citations
550	The LHCb Detector at the LHC. <i>Journal of Instrumentation</i> , <b>2008</b> , 3, S08005-S08005	1	622
549	Observation of $J/\psi$ Resonances Consistent with Pentaquark States in $\Lambda_b^0 \rightarrow \psi \Lambda^0$ Decays. <i>Physical Review Letters</i> , <b>2015</b> , 115, 072001	7.4	580
548	Test of lepton universality using $b \rightarrow c \ell \bar{\nu}_\ell$ decays. <i>Physical Review Letters</i> , <b>2014</b> , 113, 151601	7.4	542
547	LHCb detector performance. <i>International Journal of Modern Physics A</i> , <b>2015</b> , 30, 1530022	1.2	452
546	Observation of the rare $B(s) \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data. <i>Nature</i> , <b>2015</b> , 522, 68-72	50.4	326
545	Measurement of the ratio of branching fractions $B(B \rightarrow \mu^+ \mu^-) / B(B \rightarrow e^+ e^-)$ . <i>Physical Review Letters</i> , <b>2015</b> , 115, 111803	7.4	316
544	Measurement of form-factor-independent observables in the decay $B \rightarrow K^{*0} \ell^+ \ell^-$ . <i>Physical Review Letters</i> , <b>2013</b> , 111, 191801	7.4	314
543	Test of lepton universality with $B \rightarrow K^{*0} \ell^+ \ell^-$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	298
542	Measurement of the atmospheric neutrino-induced upgoing muon flux using MACRO. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1998</b> , 434, 451-457	4.2	294
541	First evidence for the decay $B(s) \rightarrow \mu^+ \mu^-$ . <i>Physical Review Letters</i> , <b>2013</b> , 110, 021801	7.4	263
540	Observation of the Doubly Charmed Baryon $\Lambda_{cc}^{++}$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 112001	7.4	257
539	Observation of the resonant character of the $Z(4430)^-$ state. <i>Physical Review Letters</i> , <b>2014</b> , 112, 222002	7.4	234
538	Angular analysis of the $B \rightarrow K^{*0} \ell^+ \ell^-$ decay using 3 fb of integrated luminosity. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	232
537	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> , <b>2013</b> , 111, 101805	7.4	221
536	Measurement of $J/\psi$ production in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	216
535	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
534	Prompt charm production in pp collisions at . <i>Nuclear Physics B</i> , <b>2013</b> , 871, 1-20	2.8	163

533	Observation of Five New Narrow $\chi_{c0}$ States Decaying to $\chi_{c1}^+ K^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 182001	7.4	154
532	Evidence for CP violation in time-integrated $D^0 \rightarrow h^+ h^-$ decay rates. <i>Physical Review Letters</i> , <b>2012</b> , 108, 111602	7.4	150
531	Strong constraints on the rare decays $B(s)(0) \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$ . <i>Physical Review Letters</i> , <b>2012</b> , 108, 231801	7.4	144
530	Matter effects in upward-going muons and sterile neutrino oscillations. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2001</b> , 517, 59-66	4.2	144
529	Differential branching fractions and isospin asymmetries of $B \rightarrow K^* \ell^+ \ell^-$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	142
528	Angular analysis and differential branching fraction of the decay $B \rightarrow s \gamma \ell^+ \ell^-$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	138
527	Search for Lepton-Universality Violation in $B^+ \rightarrow K^+ \ell^+ \ell^-$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 191801	7.4	137
526	Final results of magnetic monopole searches with the MACRO experiment. <i>European Physical Journal C</i> , <b>2002</b> , 25, 511-522	4.2	129
525	Vertical muon intensity measured with MACRO at the Gran Sasso laboratory. <i>Physical Review D</i> , <b>1995</b> , 52, 3793-3802	4.9	129
524	Measurement of the Ratio of the $B^0 \rightarrow D^{*-} \ell^+ \nu_\ell$ and $B^0 \rightarrow D^{*-} \ell^+ \nu_\ell$ Branching Fractions Using Three-Prong Lepton Decays. <i>Physical Review Letters</i> , <b>2018</b> , 120, 171802	7.4	126
523	First supermodule of the MACRO detector at Gran Sasso. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1993</b> , 324, 337-362	1.2	125
522	Observation of $X(3872)$ production in pp collisions at $(\sqrt{s}=7\text{TeV})$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	121
521	Performance of the LHCb muon system. <i>Journal of Instrumentation</i> , <b>2013</b> , 8, P02022-P02022	1	120
520	Implications of LHCb measurements and future prospects. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	116
519	Measurement of the Ratio of Branching Fractions $B(B_{c1}^+ \rightarrow \ell^+ \nu_\ell \ell^+ \ell^-) / B(B_{c1}^+ \rightarrow \ell^+ \nu_\ell \ell^+ \ell^-)$ . <i>Physical Review Letters</i> , <b>2018</b> , 120, 121801	7.4	109
518	Measurement of $\alpha_s$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2010</b> , 694, 209-216	4.2	107
517	Test of lepton flavor universality by the measurement of the $B^0 \rightarrow D^{*+} \ell^- \ell^+$ branching fraction using three-prong $D$ decays. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	106
516	Measurement of the $B_{s1}^0 \rightarrow \ell^+ \ell^-$ Branching Fraction and Effective Lifetime and Search for $B^0 \rightarrow \ell^+ \ell^-$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 191801	7.4	106

515	Measurement of b hadron production fractions in 7 TeV pp collisions. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	105
514	Observation of $\Lambda_c^+$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 52-59	4.2	104
513	Differential branching fraction and angular analysis of the decay $B^0 \rightarrow \pi^0 \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	99
512	Observation of $J/\psi$ Structures Consistent with Exotic States from Amplitude Analysis of $B^+ \rightarrow \pi^0 \pi^+ K^0$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 022003	7.4	98
511	Measurement of the CP-violating phase $\phi_1$ in the decay $B(s) \rightarrow \pi^0 \pi^0$ . <i>Physical Review Letters</i> , <b>2012</b> , 108, 101803	7.4	95
510	Seasonal variations in the underground muon intensity as seen by MACRO. <i>Astroparticle Physics</i> , <b>1997</b> , 7, 109-124	2.4	93
509	Evidence for Exotic Hadron Contributions to $B^0 \rightarrow \pi^0 \pi^0$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 082003	7.4	91
508	Measurements of atmospheric muon neutrino oscillations, global analysis of the data collected with MACRO detector. <i>European Physical Journal C</i> , <b>2004</b> , 36, 323-339	4.2	90
507	Atmospheric neutrino oscillations from upward throughgoing muon multiple scattering in MACRO. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2003</b> , 566, 35-44	4.2	88
506	Measurement of $\Lambda_c^+$ polarization in collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2631	4.2	87
505	Measurements of the magnetic form factor of the proton in the timelike region at large momentum transfer. <i>Physical Review D</i> , <b>1999</b> , 60,	4.9	87
504	Differential branching fraction and angular analysis of the decay $B_s^0 \rightarrow \pi^0 \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	86
503	Observation of double charm production involving open charm in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	86
502	Model-Independent Evidence for $J/\psi$ Contributions to $B^0 \rightarrow \pi^0 \pi^0$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 082002	7.4	85
501	Exclusive $J/\psi$ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2013</b> , 40, 045001	2.9	85
500	Measurement of $\Lambda_c^+$ production in collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2025	4.2	83
499	Measurement of the track reconstruction efficiency at LHCb. <i>Journal of Instrumentation</i> , <b>2015</b> , 10, P02007-P02007	4.9	83
498	Updated measurements of exclusive $J/\psi$ and $\psi(2S)$ production cross-sections in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2014</b> , 41, 055002	2.9	83

497	Atmospheric neutrino flux measurement using upgoing muons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1995</b> , 357, 481-486	4.2	80
496	Determination of the quark coupling strength $ V_{ub} $ using baryonic decays. <i>Nature Physics</i> , <b>2015</b> , 11, 743-747	7.4	79
495	Evidence for the decay $\Lambda_c^+ \rightarrow \Lambda^0 \pi^+$ . <i>Nuclear Physics B</i> , <b>2014</b> , 886, 665-680	2.8	79
494	Precision luminosity measurements at LHCb. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, P12005-P12005	1	79
493	Measurement of the fragmentation fraction ratio $f_s/f_d$ and its dependence on B meson kinematics. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	78
492	First observation of CP violation in the decays of $B(s)0$ mesons. <i>Physical Review Letters</i> , <b>2013</b> , 110, 221601	7.4	78
491	Search for Dark Photons Produced in 13 TeV pp Collisions. <i>Physical Review Letters</i> , <b>2018</b> , 120, 061801	7.4	75
490	Search for Majorana neutrinos in $B^- \rightarrow \mu^- \bar{\nu}_\mu$ decays. <i>Physical Review Letters</i> , <b>2014</b> , 112, 131802	7.4	70
489	Dalitz plot analysis of $B_s0 \rightarrow D^0 K^0$ decays. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	70
488	Measurement of CP violation in the phase space of $B^0 \rightarrow \bar{K}^0 \pi^0$ and $B^0 \rightarrow \bar{K}^0 K^+ K^-$ decays. <i>Physical Review Letters</i> , <b>2013</b> , 111, 101801	7.4	70
487	Limits on dark matter WIMPs using upward-going muons in the MACRO detector. <i>Physical Review D</i> , <b>1999</b> , 60,	4.9	70
486	Observation of CP violation in $B^0 \rightarrow D^0 K^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 712, 203-212	4.2	69
485	Study of $D^0$ meson decays to $D^+ D^-$ and $D^{*+} D^-$ final states in pp collisions. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	69
484	Low energy atmospheric muon neutrinos in MACRO. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2000</b> , 478, 5-13	4.2	69
483	Observation of excited $\Lambda_b(0)$ baryons. <i>Physical Review Letters</i> , <b>2012</b> , 109, 172003	7.4	68
482	Measurement of CP violation and the $B_s0$ meson decay width difference with $B_s0 \rightarrow \bar{K}^0 K^0$ and $B_s0 \rightarrow \bar{K}^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	66
481	First observation of $B_s0 \rightarrow \bar{K}^0(980)$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 698, 115-122	4.2	66
480	Measurements of prompt charm production cross-sections in pp collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	65

479	Search for Hidden-Sector Bosons in $B(0) \rightarrow K^{*0}(\pi^+\pi^-)$ Decays. <i>Physical Review Letters</i> , <b>2015</b> , 115, 161802	7.4	65
478	Study of the production of and hadrons in pp collisions and first measurement of the branching fraction. <i>Chinese Physics C</i> , <b>2016</b> , 40, 011001	2.2	65
477	Search for Structure in the $B_{\{s\}}^0 \rightarrow \pi^0$ Invariant Mass Spectrum. <i>Physical Review Letters</i> , <b>2016</b> , 117, 152003	7.4	64
476	The cosmic ray primary composition between 1015 and 1016 eV from Extensive Air Showers electromagnetic and TeV muon data. <i>Astroparticle Physics</i> , <b>2004</b> , 20, 641-652	2.4	64
475	Differential branching fraction and angular analysis of the $B \rightarrow \pi K + \pi^0 \pi^0$ decay. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	63
474	Measurement of $\langle 2 \rangle$ meson production in collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2100	4.2	63
473	Measurement of CP violation in the phase space of $B \rightarrow \pi K + K - \pi^0$ and $B \rightarrow \pi \pi^0 \pi^0$ decays. <i>Physical Review Letters</i> , <b>2014</b> , 112, 011801	7.4	61
472	Observation of overlapping spin-1 and spin-3 $D0K^-$ resonances at mass 2.86 GeV/c <sup>2</sup> . <i>Physical Review Letters</i> , <b>2014</b> , 113, 162001	7.4	61
471	Study of $J/\psi$ production and cold nuclear matter effects in pPb collisions at $(\sqrt{s_{NN}}) = 5$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	60
470	Inclusive W and Z production in the forward region at $(\sqrt{s} = 7, \text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	60
469	Neutrino Astronomy with the MACRO Detector. <i>Astrophysical Journal</i> , <b>2001</b> , 546, 1038-1054	4.7	60
468	Measurement of the isospin asymmetry in $B \rightarrow K^{*0} \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	59
467	Analysis of the resonant components in $B \rightarrow \pi^0 \pi^0 \pi^0$ <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	59
466	Production of $J/\psi$ and $(\Upsilon)$ mesons in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	58
465	Search for the rare decays $B_{s0} \rightarrow \pi^0 \pi^0$ and $B_0 \rightarrow \pi^0 \pi^0$ <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 699, 330-340	4.2	58
464	Measurement of the $\Lambda_b(0)$ , $\Lambda_b(-)$ , and $\Lambda_b((-)$ Baryon masses. <i>Physical Review Letters</i> , <b>2013</b> , 110, 182001	7.4	57
463	Amplitude analysis of $B \rightarrow \pi^0 K^+$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	56
462	The MACRO detector at Gran Sasso. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 486, 663-707	1.2	56

461	Measurement of b-hadron masses. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 708, 241-248	4.2	55
460	Observation of the decay $B(c)(+) \rightarrow B(s)(0) \pi^0$ . <i>Physical Review Letters</i> , <b>2013</b> , 111, 181801	7.4	55
459	Determination of the sign of the decay width difference in the $B(s)(0)$ system. <i>Physical Review Letters</i> , <b>2012</b> , 108, 241801	7.4	55
458	Search for the $X(4140)$ state in $B^+ \rightarrow \pi^0 K^+$ decays. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	55
457	Differential branching fraction and angular analysis of $B \rightarrow b \rightarrow \pi \pi$ decays. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015,	5.4	54
456	Measurement of resonant and CP components in $B \rightarrow \pi^0 \pi^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	54
455	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
454	Precision measurement of CP violation in $B(S)(0) \rightarrow \pi^0 K^-$ decays. <i>Physical Review Letters</i> , <b>2015</b> , 114, 041801	7.4	53
453	Dalitz plot analysis of $B^0 \rightarrow \pi^0 \pi^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	53
452	Measurements of $B(c)^+$ production and mass with the $B(c)^+ \rightarrow \pi^0 \pi^0$ decay. <i>Physical Review Letters</i> , <b>2012</b> , 109, 232001	7.4	53
451	Measurement of the resonant and CP components in $B \rightarrow \pi^0 \pi^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	52
450	Observation of CP Violation in Charm Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 211803	7.4	51
449	Measurement of b-hadron branching fractions for two-body decays into charmless charged hadrons. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012,	5.4	51
448	Observation of a New $\Xi_b^0$ Resonance. <i>Physical Review Letters</i> , <b>2018</b> , 121, 072002	7.4	50
447	First observation of the decay $B(c)^+ \rightarrow \pi^0 \pi^0 \pi^0$ . <i>Physical Review Letters</i> , <b>2012</b> , 108, 251802	7.4	50
446	Precision measurement of the $B_0 \rightarrow \pi^0 \pi^0$ oscillation frequency with the decay $B_0 \rightarrow \pi^0 \pi^0$ . <i>New Journal of Physics</i> , <b>2013</b> , 15, 053021	2.9	49
445	Analysis of the resonant components in $B \rightarrow \pi^0 \pi^0 \pi^0$ <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	49
444	Search for long-lived scalar particles in $B^+ \rightarrow K^+ \pi^0$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	48



- 443 Precision measurement of D meson mass differences. *Journal of High Energy Physics*, **2013**, 2013, 5-4 48
- 442 Measurements of the S-wave fraction in  $B^0 \rightarrow K^+ K^- \pi^+ \pi^-$  decays and the  $B^0 \rightarrow K^+ (892)^0 \pi^-$  differential branching fraction. *Journal of High Energy Physics*, **2016**, 2016, 1 5-4 48
- 441 Measurement of forward J/ψ production cross-sections in pp collisions at ( $\sqrt{s}=13$ ) TeV. *Journal of High Energy Physics*, **2015**, 2015, 1 5-4 47
- 440 Measurements of CP violation in the three-body phase space of charmless  $B \rightarrow \pi \pi$  decays. *Physical Review D*, **2014**, 90, 4-9 47
- 439 Searches for Majorana neutrinos in  $B \rightarrow \pi \pi$  decays. *Physical Review D*, **2012**, 85, 4-9 47
- 438 Observation of  $B_c^+ \rightarrow \ell^+ D_s^+$  and  $B_c^+ \rightarrow \ell^+ D_s^{*+}$  decays. *Physical Review D*, **2013**, 87, 4-9 46
- 437 Measurement of matter-antimatter differences in beauty baryon decays. *Nature Physics*, **2017**, 13, 391-396 4-2 45
- 436 Measurement of B meson production cross-sections in proton-proton collisions at ( $\sqrt{s}=7$ ) TeV. *Journal of High Energy Physics*, **2013**, 2013, 1 5-4 45
- 435 Observation of  $D^0$ - $\bar{D}^0$  oscillations. *Physical Review Letters*, **2013**, 110, 101802 7-4 45
- 434 Amplitude analysis of  $B \rightarrow \pi \pi$  decays. *Physical Review D*, **2016**, 94, 4-9 45
- 433 Measurement of the Lifetime of the Doubly Charmed Baryon  $\Xi_{cc}^{++}$ . *Physical Review Letters*, **2018**, 121, 052002 7-4 44
- 432 Search for the sidereal and solar diurnal modulations in the total MACRO muon data set. *Physical Review D*, **2003**, 67, 4-9 44
- 431 Precision measurement of the ratio of the . *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2014**, 734, 122-130 4-2 43
- 430 Measurement of the cross-section for  $Z \rightarrow e^+ e^-$  production in pp collisions at ( $\sqrt{s}=7$ ) TeV. *Journal of High Energy Physics*, **2013**, 2013, 1 5-4 43
- 429 First evidence of direct CP violation in charmless two-body decays of  $B_s^0$  mesons. *Physical Review Letters*, **2012**, 108, 201601 7-4 43
- 428 Observation of a resonance in  $B^+ \rightarrow K^+ \pi^+ \pi^-$  decays at low recoil. *Physical Review Letters*, **2013**, 111, 112003 7-4 43
- 427 Measurement of CP asymmetry in  $D^0 \rightarrow K^+ K^-$  and  $D^0 \rightarrow \pi^+ \pi^-$  decays. *Journal of High Energy Physics*, **2014**, 2014, 1 5-4 42
- 426 Measurement of the  $B_s^0 \rightarrow B^0$  oscillation frequency  $\Delta m_s$  in  $B_s^0 \rightarrow D_s(B) \pi^0$  decays. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2012**, 709, 177-184 4-2 42



425	Measurement of the exclusive [production cross-section in pp collisions at ( $\sqrt{s}=7$ ) TeV and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	42
424	Measurement of the ratio of prompt . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 718, 431-440	4.2	42
423	First observation of the decay $B_s^{*2}(5840)(0)-B^{*+} K^-$ and studies of excited $B_s(0)$ mesons. <i>Physical Review Letters</i> , <b>2013</b> , 110, 151803	7.4	42
422	The cosmic ray proton, helium and CNO fluxes in the 100 TeV energy region from TeV muons and EAS atmospheric Cherenkov light observations of MACRO and EAS-TOP. <i>Astroparticle Physics</i> , <b>2004</b> , 21, 223-240	2.4	42
421	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> , <b>2015</b> , 75, 311	4.2	41
420	Search for the doubly charmed baryon ( $\Xi_{cc}^{++}$ ). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	41
419	Measurements of the $B^0-B^0/\bar{B}^0$ 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> , <b>2013</b> , 724, 27-35	4.2	41
418	Measurement of the cross-section ratio . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 714, 215-223	4.2	41
417	Search for the Decays $B_{s1}^0-B^{*+}D^{-}$ and $B^{*0}-B^{*+}D^{-}$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 251802	7.4	40
416	Measurement of the Mass Difference Between Neutral Charm-Meson Eigenstates. <i>Physical Review Letters</i> , <b>2019</b> , 122, 231802	7.4	39
415	Opposite-side flavour tagging of mesons at the LHCb experiment. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2022	4.2	39
414	Differential branching fraction and angular analysis of the decay $B^0 \rightarrow K^{*0} \pi^0$ . <i>Physical Review Letters</i> , <b>2012</b> , 108, 181806	7.4	39
413	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
412	First observation of the decay ( $B_c^{+} \rightarrow [J \text{ left/ } \{\psi \{K^{+}\}\} \text{ right.}]$ ). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	36
411	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
410	Measurement of $B_c^{+}$ Production in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2015</b> , 114, 132001	7.4	35
409	Measurement of [Formula: see text] polarisation in [Formula: see text] collisions at [Formula: see text] = 7 TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2872	4.2	35
408	Observation of two new $(b)(-)$ baryon resonances. <i>Physical Review Letters</i> , <b>2015</b> , 114, 062004	7.4	35

407	First observation of the decay $B^+ \rightarrow \pi^+ \pi^0 \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	35
406	Search for lepton number violating decays $B^+ \rightarrow \ell^+ \ell^+ \ell^-$ and $B^+ \rightarrow \ell^+ K^- \ell^+$ . <i>Physical Review Letters</i> , <b>2012</b> , 108, 101601	7-4	35
405	The observation of up-going charged particles produced by high energy muons in underground detectors. <i>Astroparticle Physics</i> , <b>1998</b> , 9, 105-117	2-4	35
404	Measurement of forward W and Z boson production in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016,	5-4	34
403	Measurement of the CP violating phase $\phi_1$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 497-505	4-2	34
402	Quantum numbers of the X(3872) state and orbital angular momentum in its $J/\psi$ decay. <i>Physical Review D</i> , <b>2015</b> , 92,	4-9	34
401	Measurement of $D^0$ - $\bar{D}^0$ mixing parameters and search for CP violation using $D^0 \rightarrow K^+ \pi^-$ decays. <i>Physical Review Letters</i> , <b>2013</b> , 111, 251801	7-4	34
400	Absolute luminosity measurements with the LHCb detector at the LHC. <i>Journal of Instrumentation</i> , <b>2012</b> , 7, P01010-P01010	1	34
399	Study of the $D^0 \rightarrow \pi^+ \pi^-$ amplitude in $B^0 \rightarrow D^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	33
398	Measurement of the CP-violating phase $\phi_1$ in $B^0 \rightarrow \pi^+ \pi^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 736, 186-195	4-2	33
397	Measurement of the CKM angle $\phi_1$ from a combination of $B^0 \rightarrow \pi^+ \pi^-$ analyses. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 726, 151-163	4-2	33
396	Study of $\chi_{c0}$ meson production in $p\bar{p}$ collisions at $\sqrt{s} = 7$ and $8$ TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74,	4-2	33
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393	Identification of beauty and charm quark jets at LHCb. <i>Journal of Instrumentation</i> , <b>2015</b> , 10, P06013-P06013		32
392	Measurement of the $B^0$ meson lifetime using $B^0 \rightarrow \pi^+ \pi^-$ decays. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2839	4-2	32
391	Precision measurement of the $B(0)$ baryon lifetime. <i>Physical Review Letters</i> , <b>2013</b> , 111, 102003	7-4	32
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384	Measurement of the flavour-specific CP-violating asymmetry. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 728, 607-615	4.2	31
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377	Observation of the $D^0 b \rightarrow f1/\rho^0$ decay. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	29
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375	Search for the rare decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 708, 55-67	4.2	29
374	Measurement of the ratio of branching fractions $B(B^0 \rightarrow K^0)/B(B^0 \rightarrow \rho^0)$ and the direct CP asymmetry in $B^0 \rightarrow K^0$ . <i>Nuclear Physics B</i> , <b>2013</b> , 867, 1-18	2.8	29
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369	Measurement of $J/\psi$ production in pp collisions at $(\sqrt{s}=2.76\text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	28
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366	Addendum: Observation of double charm production involving open charm in pp collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	27
365	Study of $(\varphi)$ production and cold nuclear matter effects in pPb collisions at $(\sqrt{s_{NN}}) = 5$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	27
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359	Search for long-lived particles decaying to jet pairs. <i>European Physical Journal C</i> , <b>2015</b> , 75, 152	4.2	26
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357	Search for slowly moving magnetic monopoles with the MACRO detector. <i>Physical Review Letters</i> , <b>1994</b> , 72, 608-612	7.4	26
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340	First observation of a baryonic $B_c^+$ decay. <i>Physical Review Letters</i> , <b>2014</b> , 113, 152003	7.4	24
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313	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
312	Forward production of mesons in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	21
311	Study of Beauty Hadron Decays into Pairs of Charm Hadrons. <i>Physical Review Letters</i> , <b>2014</b> , 112,	7.4	21
310	Measurement of the CP asymmetry in $B^0 \rightarrow K^{*0} \ell^+ \ell^-$ decays. <i>Physical Review Letters</i> , <b>2013</b> , 110, 031801	7.4	21
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308	Measurement of charged particle multiplicities and densities in [Formula: see text] collisions at [Formula: see text] TeV in the forward region. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2888	4.2	20
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274	Measurement of the $B_s(0) \rightarrow K^+ K^0$ branching fraction and angular amplitudes. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	17
273	Muon energy estimate through multiple scattering with the MACRO detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 492, 376-386	1.2	17
272	Statistical analysis of non-stationary voltage recordings in geoelectrical prospecting1. <i>Geophysical Prospecting</i> , <b>1994</b> , 42, 917-952	1.9	17
271	Observations of $\Upsilon(0) \rightarrow b \rightarrow K^+ K^0$ and $\Upsilon(0) \rightarrow b \rightarrow K^+ K^0$ decays and searches for other $\Upsilon(0)$ and $\Upsilon(0)$ decays to $b \rightarrow h \rightarrow$ final states. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	17
270	Study of $B_c^+$ decays to the $K^+ K^0$ final state and evidence for the decay $B_c^+ \rightarrow \bar{D}^0 K^+$ . <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	17
269	Angular moments of the decay $\Upsilon(0) \rightarrow b \rightarrow K^+ K^0$ at low hadronic recoil. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	17
268	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
267	Search for CP violation in $D(0) \rightarrow D^0$ decays with the energy test. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 740, 158-167	4.2	16
266	First Observation of $D^{*0} \rightarrow D^0 \pi^0$ Oscillations in $D^{*0} \rightarrow K^+ \pi^- \pi^0$ Decays and Measurement of the Associated Coherence Parameters. <i>Physical Review Letters</i> , <b>2016</b> , 116, 241801	7.4	16
265	Near-threshold ( $\overline{D} \rightarrow D$ ) spectroscopy and observation of a new charmonium state. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	16
264	Evidence for the decay ( $B_c^+ \rightarrow J/\psi \pi^+ \pi^0$ ). <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	16

263	Measurement of the effective $B_s^0 \rightarrow K^0 K^0$ lifetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 349-356	4.2	16
262	Observation of $B(2S) \rightarrow \rho^0 \rho^0$ and search for $X(3872) \rightarrow \rho^0 \rho^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 769, 305-313	4.2	16
261	Measurements of prompt charm production cross-sections in pp collisions at $\sqrt{s} = 5$ TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5.4	16
260	First observation of top quark production in the forward region. <i>Physical Review Letters</i> , <b>2015</b> , 115, 112001	7.1	16
259	Amplitude analysis of $B^0 \rightarrow D^0 K^0$ decays. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	16
258	Search for CP violation using T-odd correlations in $D^0 \rightarrow K^0 K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	16
257	Observations of $\Lambda$ . <i>Nuclear Physics B</i> , <b>2013</b> , 871, 403-419	2.8	16
256	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> , <b>2013</b> , 87,	4.9	16
255	Observation of $B(s)(0) \rightarrow f_1(1525) K$ in $J/\psi \rightarrow K^-$ final states. <i>Physical Review Letters</i> , <b>2012</b> , 108, 151801	7.4	16
254	The performance of MACRO liquid scintillator in the search for magnetic monopoles with 10 <sup>10</sup> . <i>Astroparticle Physics</i> , <b>1997</b> , 6, 113-128	2.4	16
253	Real time supernova neutrino burst detection with MACRO. <i>Astroparticle Physics</i> , <b>1998</b> , 8, 123-133	2.4	16
252	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
251	Measurement of CP observables in $B \rightarrow D K$ and $B \rightarrow D^* K$ with two- and four-body D decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 760, 117-131	4.2	16
250	Search for the lepton-flavour violating decays $B^0(s) \rightarrow \ell^+ \ell^-$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	15
249	Observation of Z production in proton-lead collisions at LHCb. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	15
248	Search for CP violation in the decay $B \rightarrow D^0 K^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 728, 585-595	4.2	15
247	Measurement of the $B^0 \rightarrow D^0$ oscillation frequency $\Delta m_d$ with the decays $B^0 \rightarrow D^0 K^0$ and $B^0 \rightarrow D^0 \bar{K}^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 719, 318-325	4.2	15
246	Observation of the $B \rightarrow D^0 K^0$ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 265-273	4.2	15

245	Bflavour tagging using charm decays at the LHCb experiment. <i>Journal of Instrumentation</i> , <b>2015</b> , 10, P10005-P10005		
244	Measurement of CP asymmetries in the decays $B^0 \rightarrow K^+ K^-$ and $B^+ \rightarrow K^+ K^-$ . <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014,	5.4	15
243	First measurement of the charge asymmetry in beauty-quark pair production. <i>Physical Review Letters</i> , <b>2014</b> , 113, 082003	7.4	15
242	Measurements of the branching fractions of the decays $B_s^0 \rightarrow D_s^{\pm} K^{\mp}$ and $B_s^0 \rightarrow D_s^{\pm} \pi^{\mp}$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012,	5.4	15
241	Measurement of the polarization amplitudes in $B^0 \rightarrow K^*(892)^0$ decays. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	15
240	High energy cosmic ray physics with underground muons in MACRO. I. Analysis methods and experimental results. <i>Physical Review D</i> , <b>1997</b> , 56, 1407-1417	4.9	15
239	Nuclearite search with the MACRO detector at Gran Sasso. <i>European Physical Journal C</i> , <b>2000</b> , 13, 453-458.	4.2	15
238	Observation of $\Lambda_b^0 \rightarrow p K^-$ and $\Lambda_b^0 \rightarrow n K^0$ decays and a measurement of the $\Lambda_b^0$ baryon mass. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	15
237	Measurement of the properties of the $\Lambda_b^0$ baryon. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016,	5.4	15
236	Evidence for the decay $(B_s^0 \rightarrow \overline{K}^0 \mu^+ \mu^-)$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	15
235	Precise measurements of the properties of the $B(5721)^{0,+}$ and $B^*(5747)^{0,+}$ states and observation of $B_{u,d}^0$ mass structures. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	14
234	Measurement of indirect CP asymmetries in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \pi^+ \pi^-$ decays using semileptonic B decays. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015,	5.4	14
233	Precision measurement of the $\Lambda_b^0$ , $\Lambda_b^+$ , and $\Lambda_b^-$ baryon lifetimes. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	14
232	Search for CP violation in $D^+ \rightarrow \pi^+ \pi^-$ and $(D_s^+ \rightarrow K^+ \pi^+)$ decays. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	14
231	Study of $B_{(s)}^0 \rightarrow K_{\text{S}}^0 h^+ h^-$ decays with first observation of $B_s^0 \rightarrow K_{\text{S}}^0 K^{\pm} \pi^{\mp}$ and $B_s^0 \rightarrow K_{\text{S}}^0 \pi^+ \pi^-$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013,	5.4	14
230	Observation of $B^0 \rightarrow \overline{B}^0$ mixing and measurement of mixing frequencies using semileptonic B decays. <i>European Physical Journal C</i> , <b>2013</b> , 73,	4.2	14
229	Observation of the suppressed ADS modes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 723, 44-53	4.2	14
228	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

227	Evidence for the Strangeness-Changing Weak Decay $\bar{b} \rightarrow \bar{u} \ell^+ \ell^-$ . <i>Physical Review Letters</i> , <b>2015</b> , 115, 241801	7.4	14
226	Evidence for CP violation in $B^+ \rightarrow \pi^+ \rho^0 K^+$ decays. <i>Physical Review Letters</i> , <b>2014</b> , 113, 141801	7.4	14
225	Measurement of the forward W boson cross-section in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	14
224	First measurement of the CP-violating phase in $B_s(0) \rightarrow \pi^+ \pi^-$ decays. <i>Physical Review Letters</i> , <b>2013</b> , 110, 241802	7.4	14
223	First observation of $B \rightarrow \pi \ell^+ \ell^-$ and search for $B \rightarrow \pi \ell^+ \ell^-$ decays. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	14
222	Search for rare $B(0) \rightarrow (\pi^+ \pi^-) (\ell^+ \ell^-)$ decays. <i>Physical Review Letters</i> , <b>2013</b> , 110, 211801	7.4	14
221	First observation of the decay $B \rightarrow \pi \ell^+ \ell^-$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 706, 32-39	4.2	14
220	Measurement of the $B \rightarrow \pi(0)$ effective lifetime in the $J/\psi(980)$ final state. <i>Physical Review Letters</i> , <b>2012</b> , 109, 152002	7.4	14
219	Search for lightly ionizing particles with the MACRO detector. <i>Physical Review D</i> , <b>2000</b> , 62,	4.9	14
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217	Model-Independent Observation of Exotic Contributions to $B^0 \rightarrow \pi^+ \pi^-$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 152002	7.4	13
216	Study of the rare $B_s^0$ and $B^0$ decays into the $\pi^+ \pi^-$ final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 743, 46-55	4.2	13
215	Search for excited $B + c$ states. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	13
214	Studies of the resonance structure in $D^0 \rightarrow \rho^0 K^0$ decays. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	13
213	First evidence for the annihilation decay mode $B^+ \rightarrow D_s^+ \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013,	5.4	13
212	A study of the Z production cross-section in pp collisions at $(\sqrt{s}=7, \text{TeV})$ using tau final states. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	13
211	Observation of the decay $B_s^0 \rightarrow \pi^+ \pi^-$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 727, 403-411	4.2	13
210	Observation of $B_{c^+} \rightarrow D^0 K^+$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 111803	7.4	13

209	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
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206	Measurement of CP violation and constraints on the CKM angle $\sin 2\beta$ with $D^0 \rightarrow K^0 \pi^0$ decays. <i>Nuclear Physics B</i> , <b>2014</b> , 888, 169-193	2.8	13
205	Measurement of CP violation in $B_s^0 \rightarrow \pi^0$ decays. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	13
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203	Measurements of nighttime atmospheric optical depth preliminary data from a mountain site in southern Italy. <i>Journal of Aerosol Science</i> , <b>1998</b> , 29, 1213-1218	4.3	13
202	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
201	First study of the CP-violating phase and decay-width difference in $B_s^0 \rightarrow \pi^0 \pi^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 762, 253-262	4.2	13
200	Search for the Lepton-Flavor-Violating Decays $B_{\{s\}}^0 \rightarrow \ell^+ \ell^- \pi^0$ and $B^0 \rightarrow \ell^+ \ell^- \pi^0$ . <i>Physical Review Letters</i> , <b>2019</b> , 123, 211801	7.4	13
199	Central exclusive production of $J/\psi$ and $\psi(2S)$ mesons in pp collisions at $s = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018,	5.4	13
198	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
197	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
196	Measurement of CP violation parameters and polarisation fractions in $(\overline{B}^0 \rightarrow J/\psi \{K^+K^-\})$ decays. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	12
195	Observation of the decay $B^0 \rightarrow \pi^0 \pi^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 747, 484-494	4.2	12
194	Measurement of the $B_s(0) \rightarrow \pi^0 D_s^+ D_s^-$ and $B_s(0) \rightarrow \pi^0 D_s^+ D_s^-$ effective lifetimes. <i>Physical Review Letters</i> , <b>2014</b> , 112, 111802	7.4	12
193	A study of CP violation in $B^0 \rightarrow \pi^0 K^0$ and $B^0 \rightarrow \pi^0 \pi^0$ decays with $D^0 \rightarrow K^0 \pi^0$ final states. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 733, 36-45	4.2	12
192	Measurement of the ratio of branching fractions $B(B^0 \rightarrow K^0 \pi^0)/B(B^0 \rightarrow \pi^0 \pi^0)$ . <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	12



191	Measurement of the $\Lambda_c^+$ lifetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 713, 172-179	4.2	12
190	Measurement of $V_0$ production ratios in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	12
189	Observation of the $B_0 \rightarrow \pi^0$ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 282-292	4.2	12
188	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
187	Measurement of the $\Lambda_c^+$ Baryon Lifetime. <i>Physical Review Letters</i> , <b>2018</b> , 121, 092003	7.4	12
186	Measurement of CP asymmetry in $D^0 \rightarrow K^+ K^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 767, 177-187	4.2	11
185	Study of coherent $J/\psi$ production in lead-lead collisions at $\sqrt{s_{NN}} = 5$ TeV with the LHCb experiment. <i>Nuclear Physics A</i> , <b>2019</b> , 982, 247-250	1.3	11
184	Differential branching fraction and angular moments analysis of the decay $B^0 \rightarrow K^+ K^- \pi^0$ in the $K^*0(1430)^0$ region. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	11
183	Model-independent measurement of mixing parameters in $D^0 \rightarrow K^+ K^- \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016,	5.4	11
182	Measurement of the time-dependent CP asymmetry in $B^0 \rightarrow K^+ K^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 721, 24-31	4.2	11
181	Measurement of the CP Violation Parameter $A_{CP}$ in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow K^+ \pi^-$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 261803	7.4	11
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179	Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K^+ K^-$ decays. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	11
178	Measurement of CP violation parameters in $B^0 \rightarrow K^+ K^-$ decays. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	11
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176	Studies of the decays $B^+ \rightarrow \rho^+ \pi^0$ and observation of $B^+ \rightarrow \rho(1520)^+ \pi^0$ . <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	11
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174	Updated determination of $D^0 \bar{D}^0$ mixing and CP violation parameters with $D^0 \rightarrow K^+ K^-$ decays. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	11



173	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
172	Measurement of CP observables in $B^0 \rightarrow D^0 K^0$ and $B^0 \rightarrow D^0 \pi^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 777, 16-30	4.2	10
171	Study of $\chi(2S)$ production and cold nuclear matter effects in pPb collisions at $(\sqrt{s_{NN}}=5)$ TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	10
170	First observation of the decay $D^0 \rightarrow K^0 \pi^0$ in the $D^0$ region of the dimuon mass spectrum. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 757, 558-567	4.2	10
169	Measurement of the $B^0$ and $B^+$ baryon lifetimes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 736, 154-162	4.2	10
168	Measurement of the charge asymmetry in $B^0 \rightarrow \pi^0 \pi^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 728, 85-94	4.2	10
167	Search for the rare decay $(K_{\text{S}}^0 \rightarrow \mu^+ \mu^-)$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	10
166	Measurement of the effective $B^0 \rightarrow \pi^0 \pi^0$ . <i>Nuclear Physics B</i> , <b>2013</b> , 873, 275-292	2.8	10
165	Measurement of $B_{\text{S}}^0$ and $D_{\text{S}}^0$ Meson Lifetimes. <i>Physical Review Letters</i> , <b>2017</b> , 119, 101801	7.4	10
164	Observation of the suppressed decay $B^0 \rightarrow \pi^0 \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	10
163	Measurement of $B^0$ , $B_{\text{S}}^0$ , $B^+$ and $B^0$ 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
162	First Observation of a Baryonic $B_{\text{S}}^0$ Decay. <i>Physical Review Letters</i> , <b>2017</b> , 119, 041802	7.4	10
161	Search for the decay $(B_{\text{S}}^0 \rightarrow \overline{D}^0 \pi^0)$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	10
160	Measurement of the $B_{\text{S}}^0$ meson lifetime in $D_{\text{S}}^+ \pi^-$ decays. <i>Physical Review Letters</i> , <b>2014</b> , 113, 172001	7.4	10
159	Observation of charmonium pairs produced exclusively in $pp$ collisions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2014</b> , 41, 115002	2.9	10
158	Measurement of CP asymmetry in $B^0 \rightarrow \pi^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	10
157	Measurement of the effective $B^0 \rightarrow \pi^0 \pi^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 716, 393-400	4.2	10
156	A new algorithm for identifying the flavour of $B^0$ mesons at LHCb. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, P05010-P05010	1	10

155	Search for $B_c^+$ decays to the $p\pi^0$ final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 313-321	4.2	10
154	Prompt $B_c$ production in pPb collisions at ( $\sqrt{s_{\mathrm{NN}}}=5.02$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	10
153	Measurement of the mass and production rate of $B$ baryons. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	9
152	Determination of $\Gamma$ and $\mathcal{B}$ from charmless two-body decays of beauty mesons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 741, 1-11	4.2	9
151	A measurement of the CP asymmetry difference between $B^+ \rightarrow \pi^0 K^+ K^-$ and $p \pi$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018,	5.4	9
150	Effective lifetime measurements in the $B_s^0 \rightarrow K^+ K^-$ and $B_s^0 \rightarrow K^+ K^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 736, 446-454	4.2	9
149	Branching fraction and CP asymmetry of the decays $B^+ \rightarrow K^0 K^+$ and $B^+ \rightarrow K^0 K^+$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 726, 646-655	4.2	9
148	Measurement of the time-dependent CP asymmetries in $B \rightarrow \pi^0 \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015,	5.4	9
147	Observation of the $B^0 \rightarrow \pi^0 \pi^0$ decay from an amplitude analysis of $B^0 \rightarrow \pi^0 \pi^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 747, 468-478	4.2	9
146	Study of $B^0 \rightarrow \pi^0 \pi^0$ and $B^0 \rightarrow \pi^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	9
145	First observation of the decays $B^0 \rightarrow \pi^0 \pi^0$ and $B^0 \rightarrow \pi^0 \pi^0$ . <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	9
144	A combined analysis technique for the search for fast magnetic monopoles with the MACRO detector. <i>Astroparticle Physics</i> , <b>2002</b> , 18, 27-41	2.4	9
143	Observation of the shadowing of cosmic rays by the Moon using a deep underground detector. <i>Physical Review D</i> , <b>1998</b> , 59,	4.9	9
142	Search for CP violation in $B^0 \rightarrow \pi^0 \pi^0$ 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
141	Search for the rare decay $B^+ \rightarrow \pi^0 \pi^0$ . <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	9
140	Search for the suppressed decays $B^+ \rightarrow K^+ K^+$ and $B^+ \rightarrow K^+ K^+$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 765, 307-316	4.2	8
139	Observation of $B_c^+ \rightarrow \pi^0 K^+$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	8
138	Measurements of charm mixing and CP violation using $D^0 \rightarrow K^+ K^-$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	8

137	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
136	Measurement of the Charm-Mixing Parameter $y_{CP}$ . <i>Physical Review Letters</i> , <b>2019</b> , 122, 011802	7.4	8
135	Study of $B$ mixing from measurement of $B(s) \rightarrow J/\psi$ decay rates. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015,	5.4	8
134	Measurement of branching fractions of charmless four-body $B$ and $\bar{B}$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	8
133	Evidence for the Rare Decay $B^+ \rightarrow \rho^+ \pi^0$ . <i>Physical Review Letters</i> , <b>2018</b> , 120, 221803	7.4	8
132	Measurement of polarization amplitudes and CP asymmetries in $B \rightarrow \rho^0 K^{*}(892)^0$ . <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	8
131	Search for the decay $B \rightarrow \rho^0 \pi^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 728, 234-243	4.2	8
130	Observation of $B \rightarrow \rho^0 \pi^0$ . <i>Nuclear Physics B</i> , <b>2013</b> , 874, 663-678	2.8	8
129	$B(c1)$ and $B(c2)$ Resonance Parameters with the Decays $B(c1,c2) \rightarrow \rho^0 \pi^0$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 221801	7.4	8
128	Measurement of the $B$ 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
127	Measurement of the $B \rightarrow \rho^0 \pi^0$ branching fraction and search for the decay $B \rightarrow \rho^0 \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	8
126	Search for long-lived heavy charged particles using a ring imaging Cherenkov technique at LHCb. <i>European Physical Journal C</i> , <b>2015</b> , 75, 595	4.2	8
125	Search for CP violation in $D \rightarrow \rho^0 K^0$ and $D \rightarrow \rho^0 K^{\pm}$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	8
124	First observation of the decays $B(0) \rightarrow D^+(K^-(\pi^+\pi^-))$ and $B(-) \rightarrow D^0(K^-(\pi^+\pi^-))$ . <i>Physical Review Letters</i> , <b>2012</b> , 108, 161801	7.4	8
123	Experimental determination of the Townsend coefficient for Argon $\text{CO}_2$ gas mixtures at high fields. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2003</b> , 513, 484-489	1.2	8
122	Search for cosmic ray sources using muons detected by the MACRO experiment. <i>Astroparticle Physics</i> , <b>2003</b> , 18, 615-627	2.4	8
121	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
120	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

119	Study of $\Upsilon$ production in pPb collisions at $(\sqrt{s_{\mathrm{NN}}})=8.16$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	8
118	Measurement of Angular and CP Asymmetries in $D^{*0} \rightarrow \pi^+ \pi^- \pi^+$ and $D^{*0} \rightarrow K^+ K^- \pi^+$ Decays. <i>Physical Review Letters</i> , <b>2018</b> , 121, 091801	7-4	8
117	Measurements of the branching fractions of $\Lambda_c^+ \rightarrow \pi^0 \Lambda$ , $\Lambda_c^+ \rightarrow \pi^0 K^0$ , and $\Lambda_c^+ \rightarrow \pi^0 \Sigma^+$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018,	5-4	8
116	Search for the CP-violating strong decays $B^0 \rightarrow \pi^0 \pi^0$ and $B^0 \rightarrow \pi^0 \pi^0 \pi^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 764, 233-240	4-2	7
115	Observation of the Decay $B^0 \rightarrow \pi^0 K^0$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 071801	7-4	7
114	Improved limit on the branching fraction of the rare decay. <i>European Physical Journal C</i> , <b>2017</b> , 77, 678	4-2	7
113	Measurement of the Z+b-jet cross-section in pp collisions at $(\sqrt{s}) = 7$ TeV in the forward region. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5-4	7
112	Study of $D^{*0} \rightarrow \pi^0 \pi^0$ and $D^{*0} \rightarrow \pi^0 \pi^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5-4	7
111	Observation of the $B^0 \rightarrow \pi^0 \pi^0$ decay. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5-4	7
110	Observation of the decay $B^0 \rightarrow \pi^0 \pi^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 784, 101-111	4-2	7
109	First Observation of the Radiative Decay $B^0 \rightarrow \pi^0 \gamma$ . <i>Physical Review Letters</i> , <b>2019</b> , 123, 031801	7-4	7
108	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
107	Observation of associated production of a Z boson with a D meson in the forward region. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014,	5-4	7
106	First evidence for the two-body charmless baryonic decay $\Lambda_b^0 \rightarrow \overline{p} \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013,	5-4	7
105	First observation of the decay $(B_s^0 \rightarrow \pi^0 \overline{K}^{*0})$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	7
104	Search for CP violation in the phase space of $D^0 \rightarrow \pi^0 \pi^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 769, 345-356	4-2	7
103	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
102	Search for the rare decays $B^0 \rightarrow \pi^0 \pi^0$ and $B_s^0 \rightarrow \pi^0 \pi^0$ . <i>Physical Review D</i> , <b>2015</b> , 92,	4-9	7

101	Observation of the $B(s)(0) \rightarrow \mu^+ \mu^-$ Decay. <i>Physical Review Letters</i> , <b>2015</b> , 115, 051801	7.4	7
100	First observations of the rare decays $B \rightarrow \pi^0 K^+ \pi^-$ and $B \rightarrow \pi^+ K^0 \pi^-$ . <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	7
99	Search for stellar gravitational collapses with the MACRO detector. <i>European Physical Journal C</i> , <b>2004</b> , 37, 265-272	4.2	7
98	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
97	Search for CP violation using triple product asymmetries in $B \rightarrow \pi^0 \pi^0 \pi^0$ and $B \rightarrow \pi^0 \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
96	Amplitude Analysis of the Decay $B \rightarrow \pi^0 \pi^+ \pi^-$ and First Observation of the CP Asymmetry in $B \rightarrow \pi^0 \pi^+ \pi^- (892)^+$ . <i>Physical Review Letters</i> , <b>2018</b> , 120, 261801	7.4	7
95	Measurement of the $B \rightarrow \pi$ production asymmetry and the CP asymmetry in $B \rightarrow \pi^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	6
94	First measurement of the CP-violating phase $(\phi_s^{\overline{d}})$ in $B \rightarrow \pi^0 \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
93	Measurement of the mass and lifetime of the $B_c$ baryon. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	6
92	Constraints on the unitarity triangle angle $\Gamma$ from Dalitz plot analysis of $B \rightarrow \pi^0 K^+ \pi^-$ decays. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	6
91	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
90	Searches for $B \rightarrow \pi^0 \pi^+ \pi^-$ and $B \rightarrow \pi^+ \pi^0 \pi^-$ decays. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	6
89	Measurement of CP asymmetries in $D \rightarrow \pi^0 \pi^0$ and $D \rightarrow \pi^+ \pi^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 771, 21-30	4.2	6
88	Observation of the decay $B \rightarrow \pi^0 \pi^+ \pi^-$ and evidence for $B \rightarrow \pi^0 \pi^+ \pi^-$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5.4	6
87	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
86	Measurement of CP asymmetries and polarisation fractions in $B \rightarrow \pi^0 \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	6
85	Search for the $B \rightarrow \pi^0 \pi^+ \pi^-$ and $B \rightarrow \pi^+ \pi^0 \pi^-$ decays with the LHCb detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	6
84	Observation of $B \rightarrow \pi^0 \pi^+ \pi^-$ and evidence for $B \rightarrow \pi^0 \pi^+ \pi^-$ decays. <i>New Journal of Physics</i> , <b>2014</b> , 16, 123001	2.9	6

83	Search for the decay $B_s^0 \rightarrow D^{*+} \pi^-$ . <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	6
82	Feasibility of 1 arcmin resolution gamma-ray air-shower multiple telescope experiment. <i>Astroparticle Physics</i> , <b>1995</b> , 3, 215-229	2.4	6
81	A precise measurement of the [Formula: see text] meson oscillation frequency. <i>European Physical Journal C</i> , <b>2016</b> , 76, 412	4.2	6
80	Measurement of the CKM angle $\bar{\Gamma}$ using $B^0 \rightarrow D^{*+} K^-$ decays. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016,	5.4	6
79	Measurement of CP Violation in $B^0 \rightarrow D^{*+} D^{*-}$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 261801	7.4	6
78	Model-independent measurement of the CKM angle $\bar{\Gamma}$ using $B^0 \rightarrow D^{*+} K^-$ decays with $D^{*+} \rightarrow \pi^+ \pi^0$ and $K^0 \rightarrow K^+ K^-$ . <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	6
77	Observation of the decay $B_s^0 \rightarrow D^{*+} K^-$ . <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	6
76	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
75	First observation of $B^+ \rightarrow D^+ s K^+ K^-$ decays and a search for $B^+ \rightarrow D^+ s \chi$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
74	Observation of charmless baryonic decays $B(s) \rightarrow \bar{p} p \pi^+ \pi^-$ . <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	5
73	Observation of the ( $\Lambda_{\text{b}}^0 \rightarrow \chi_{\text{c}1}$ ) (3872) pK decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
72	Observation of $B_{\text{s}}^0 \rightarrow D^+ K_{\text{S}}^-$ and Evidence for $B_{\text{s}}^0 \rightarrow D^+ K_{\text{S}}^-$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 116, 161802	7.4	5
71	Amplitude analysis of $B^0 \rightarrow \pi^+ \pi^- K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
70	Observation of the $B^0 \rightarrow \pi^+ \pi^- K^0$ decay. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	5
69	Observation of the decay $B^0 \rightarrow \pi^+ \pi^-$ and a search for CP violation. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5.4	5
68	Study of ( $\overline{\text{b}} \text{b}$ ) correlations in high energy proton-proton collisions. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	5
67	Determination of the branching fractions of $B^0 \rightarrow \pi^+ \pi^- K^0$ and $B^0 \rightarrow \pi^+ \pi^- K^+$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	5
66	Measurement of the ratio of branching fractions ( $\frac{\text{Br}(B \rightarrow \pi^+ \pi^- K^+)}{\text{Br}(B \rightarrow \pi^+ \pi^- K^-)}$ ). <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	5



65	Observation of $B_s^0 \rightarrow D^{*0} \gamma$ and search for $B^0 \rightarrow D^0 \gamma$ decays. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	5
64	Observation of the decay $D^0 \rightarrow \pi^+ \pi^- \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	5
63	Search for weakly decaying b-flavored pentaquarks. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	5
62	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
61	Observation of $B^0 \rightarrow D^{*0} \gamma$ and $B^0 \rightarrow D^0 \gamma$ decays. <i>European Physical Journal C</i> , <b>2017</b> , 77, 72	4.2	4
60	Direct photon production at LHCb. <i>Nuclear Physics A</i> , <b>2019</b> , 982, 251-254	1.3	4
59	Observation of $B_{(s)}^0 \rightarrow \ell^+ \ell^- \pi^0$ Decays and Precision Measurements of the $B_{(s)}^0$ Masses. <i>Physical Review Letters</i> , <b>2019</b> , 122, 191804	7.4	4
58	Measurement of CP asymmetry in $B^0 \rightarrow D^+ D^- K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
57	Search for $B_c^+$ decays to two charm mesons. <i>Nuclear Physics B</i> , <b>2018</b> , 930, 563-582	2.8	4
56	Dalitz plot analysis of the $D^+ \rightarrow K^0 K^+ K^0$ decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	4
55	Limits on neutral Higgs boson production in the forward region in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	4
54	New algorithms for identifying the flavour of $B_{(s)}^0$ mesons using pions and protons. <i>European Physical Journal C</i> , <b>2017</b> , 77, 238	4.2	4
53	Evidence for the two-body charmless baryonic decay $(\Lambda_b^0 \rightarrow \bar{p} \Lambda^0)$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	4
52	First Observation of the Rare Purely Baryonic Decay $\Lambda_b^0 \rightarrow \bar{p} p$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 232001	7.4	4
51	Measurement of CP observables in $B^0 \rightarrow D^{*0} K^0$ decays using two- and four-body D final states. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	4
50	Updated branching fraction measurements of $B^0 \rightarrow K^0 K^+ K^-$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5.4	4
49	Study of $B \rightarrow DK$ and $B \rightarrow D^* K$ decays and determination of the CKM angle $\alpha$ . <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	4
48	First observation and measurement of the branching fraction for the decay $B^0 \rightarrow D^{*0} K^0$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	4



47	Measurement of the $B_s^0$ - $\bar{B}^0$ lifetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 762, 484-492	4.2	4
46	Measurement of the $B_c$ meson production fraction and asymmetry in 7 and 13 TeV pp collisions. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	4
45	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
44	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
43	Measurement of $D \rightarrow s$ 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
42	First observation of the rare $B^+ \rightarrow D^+ K^+ \pi^0$ decay. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	3
41	Measurement of the $B_s^0 \rightarrow D_s^{(*)} + D_s^{(*)} \pi^0$ branching fractions. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	3
40	First observation of the decay $B^0 \rightarrow \pi^0 K^+ K^- (892)^0$ at LHCb. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	3
39	Measurement of the branching fractions of the decays $D^+ \rightarrow \pi^0 K^+ K^+$ , $D^+ \rightarrow \pi^0 K^+ \pi^0$ and $D^+ \rightarrow \pi^0 K^+ \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019,	5.4	3
38	Amplitude analysis of the ( $B^0 \rightarrow K^0 \pi^0 \pi^0$ ) decays and measurement of the branching fraction of the ( $B^0 \rightarrow K^0 \pi^0 \pi^0$ ) decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	3
37	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
36	On the methods of evaluation of apparent resistivity under conditions of low message-to-noise ratio. <i>Geothermics</i> , <b>1987</b> , 16, 487-504	4.3	3
35	Measurement of Charged Hadron Production in Z-Tagged Jets in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 123, 232001	7.4	3
34	Search for lepton-flavour-violating decays of Higgs-like bosons. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1008	4.2	3
33	Measurement of the relative $B \rightarrow D^0 D^{*0} \pi^0$ branching fractions using $B$ mesons from $B \rightarrow D^0 D^{*0} \pi^0$ decays. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	2
32	Measurement of the CP-violating phase $\gamma$ from $B_s^0 \rightarrow \pi^0 \pi^0$ 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
31	Search for CP Violation in $D_{s1}^+ \rightarrow K_{S1}^0 \pi^+$ , $D^+ \rightarrow K_{S1}^0 K^+$ , and $D^+ \rightarrow \pi^0 \pi^+$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 191803	7.4	2
30	Observation of the doubly Cabibbo-suppressed decay $\pi^+ \rightarrow \rho^0 \pi^+$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2

29	Search for CP violation through an amplitude analysis of $D^0 \rightarrow K^+ K^- \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
28	Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B \rightarrow \pi^0 \pi^0$ and $B \rightarrow \pi^0 \pi^+ \pi^-$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	2
27	Study of the $B^0 \rightarrow \pi^0 \pi^0 K^*(892)^0$ decay with an amplitude analysis of $B^0 \rightarrow \pi^0 \pi^0 K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
26	Observation of the $B^+ \rightarrow \pi^+ K^0$ decay. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	2
25	Measurement of CP violation in $B^0 \rightarrow \pi^0 \pi^0 K^0$ and $B^0 \rightarrow \pi^0 \pi^+ \pi^- K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5.4	2
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22	Relevance of the hadronic interaction model in the interpretation of multiple muon data as detected with the MACRO experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>1999</b> , 75, 265-268		2
21	Measurement of the front-end dead-time of the LHCb muon detector and evaluation of its contribution to the muon detection inefficiency. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, P04010-P04010	1	2
20	Measurement of CP-Violating and Mixing-Induced Observables in $B_{s^0} \rightarrow \pi^0 \pi^0$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 123, 081802	7.4	2
19	Measurement of $Z \rightarrow b\bar{b}$ 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
18	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
17	Measurement of CP observables in the process $B^0 \rightarrow \pi^0 K^*0$ with two- and four-body D decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	1
16	Prompt $\bar{B}^+$ baryons and $D^0$ meson production cross-section and nuclear modification in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV with the LHCb detector. <i>Nuclear Physics A</i> , <b>2019</b> , 982, 683-686	1.3	1
15	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
14	Measurement of the ratio of branching fractions of the decays $D^0 \rightarrow \pi^0 \pi^0$ and $D^0 \rightarrow \pi^+ \pi^-$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	1
13	Measurement of the branching fraction and (C)P asymmetry in $\{B^+ \rightarrow J/\psi \pi^+\} \rightarrow \{J/\psi \pi^+ \rho^+\}$ decays. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	1
12	Search for the $B^0 \rightarrow \pi^0 \pi^0$ decay. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	1

11	Search for Baryon-Number Violating $\{b\}^0$ Oscillations. <i>Physical Review Letters</i> , <b>2017</b> , 119, 181807	7.4	1
10	Calibrations of CR39 and Makrofol nuclear track detectors and search for exotic particles. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>2003</b> , 125, 217-221		1
9	Search for neutrinos from the Sun and the Earth with the MACRO detector. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>1996</b> , 48, 87-90		1
8	Coincident observation of air Cerenkov light by a surface array and muon bundles by a deep underground detector. <i>Physical Review D</i> , <b>1994</b> , 50, 3046-3058	4.9	1
7	Measurement of the CP asymmetry in $B^0 \rightarrow D^0$ and $B^0 \rightarrow D^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	1
6	Observation of the decay $(\overline{B}_s^0 \rightarrow \chi_{c2}^+ K^-)$ in the $\tau$ mass region. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	0
5	Bose-Einstein correlations and $bb$ correlations in pp collisions with LHCb. <i>Nuclear Physics A</i> , <b>2019</b> , 982, 347-350	1.3	
4	Highlights from the LHCb experiment. <i>Nuclear Physics A</i> , <b>2019</b> , 982, 15-21	1.3	
3	High energy cosmic ray physics with the MACRO experiment at Gran Sasso. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>1997</b> , 52, 172-175		
2	Muon astrophysics with the MACRO detector. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>1994</b> , 35, 229-234		
1	A Method Based on Muon System to Monitor LHCb Luminosity. <i>Symmetry</i> , <b>2022</b> , 14, 860	2.7	