

# Lars Eklund

## 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.

639  
papers

19,588  
citations

63  
h-index

114  
g-index

669  
ext. papers

23,961  
ext. citations

5.1  
avg, IF

4.01  
L-index

#	Paper	IF	Citations
639	The ATLAS Experiment at the CERN Large Hadron Collider. <i>Journal of Instrumentation</i> , <b>2008</b> , 3, S08003-S08003	12.73	1273
638	The LHCb Detector at the LHC. <i>Journal of Instrumentation</i> , <b>2008</b> , 3, S08005-S08005	1	622
637	Observation of $J/\psi$ Resonances Consistent with Pentaquark States in $\Lambda_b^0 \rightarrow \psi p$ Decays. <i>Physical Review Letters</i> , <b>2015</b> , 115, 072001	7.4	580
636	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
635	Measurement of the ratio of branching fractions $\mathcal{B}(B \rightarrow \psi^* \mu^+ \mu^-) / \mathcal{B}(B \rightarrow \psi^* e^+ e^-)$ . <i>Physical Review Letters</i> , <b>2015</b> , 115, 111803	7.4	316
634	Measurement of form-factor-independent observables in the decay $B^0 \rightarrow K^{*0} \ell^+ \ell^-$ . <i>Physical Review Letters</i> , <b>2013</b> , 111, 191801	7.4	314
633	Test of lepton universality with $B^0 \rightarrow K^{*0} \ell^+ \ell^-$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	298
632	First evidence for the decay $B(s)(0) \rightarrow \mu^+ \mu^-$ . <i>Physical Review Letters</i> , <b>2013</b> , 110, 021801	7.4	263
631	Observation of the Doubly Charmed Baryon $\Lambda_{cc}^{++}$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 112001	7.4	257
630	Observation of the resonant character of the $Z(4430)^-$ state. <i>Physical Review Letters</i> , <b>2014</b> , 112, 222002	7.4	234
629	Determination of the $X(3872)$ meson quantum numbers. <i>Physical Review Letters</i> , <b>2013</b> , 110, 222001	7.4	234
628	Angular analysis of the $B^0 \rightarrow K^{*0} \ell^+ \ell^-$ decay using 3 fb of integrated luminosity. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	232
627	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
626	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
625	Observation of a Narrow Pentaquark State, $P_{c1}(4312)^{+}$ , and of the Two-Peak Structure of the $P_{c1}(4450)^{+}$ . <i>Physical Review Letters</i> , <b>2019</b> , 122, 222001	7.4	199
624	Prompt charm production in pp collisions at . <i>Nuclear Physics B</i> , <b>2013</b> , 871, 1-20	2.8	163
623	Observation of Five New Narrow $\Lambda_c^0$ States Decaying to $\Lambda_c^+ K^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 182001	7.4	154

622	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
621	Strong constraints on the rare decays $B(s) \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$ . <i>Physical Review Letters</i> , <b>2012</b> , 108, 231801	7.4	144
620	Differential branching fractions and isospin asymmetries of $B \rightarrow K^{(*)} \pi$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	142
619	Angular analysis and differential branching fraction of the decay $B^0 \rightarrow \pi^+ \pi^-$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	138
618	Search for Lepton-Universality Violation in $B^+ \rightarrow K^+ \mu^+ \mu^-$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 191801	7.4	137
617	Performance of the LHCb Vertex Locator. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, P09007-P09007	1	129
616	Measurement of the Ratio of the $B^+ \rightarrow D^{*-} \mu^+ \nu$ and $B^0 \rightarrow D^{*-} \mu^+ \nu$ Branching Fractions Using Three-Prong Lepton Decays. <i>Physical Review Letters</i> , <b>2018</b> , 120, 171802	7.4	126
615	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
614	Implications of LHCb measurements and future prospects. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1	4.2	116
613	Measurement of the Ratio of Branching Fractions $B(B_c^+ \rightarrow \mu^+ \nu) / B(B_c^+ \rightarrow \tau^+ \nu)$ . <i>Physical Review Letters</i> , <b>2018</b> , 120, 121801	7.4	109
612	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
611	Test of lepton flavor universality by the measurement of the $B^0 \rightarrow D^{*0} \mu^+ \mu^-$ branching fraction using three-prong decays. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	106
610	Measurement of the $B_{s^0} \rightarrow \mu^+ \mu^-$ Branching Fraction and Effective Lifetime and Search for $B^+ \rightarrow \mu^+ \mu^-$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 191801	7.4	106
609	Measurement of b hadron production fractions in 7 TeV pp collisions. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	105
608	Observation of $\alpha_s$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 52-59	4.2	104
607	Differential branching fraction and angular analysis of the decay $B^0 \rightarrow K^{*0} \pi^+ \pi^-$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	99
606	Observation of $J/\psi$ Structures Consistent with Exotic States from Amplitude Analysis of $B^+ \rightarrow \mu^+ \psi K^+$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 022003	7.4	98
605	Measurement of the CP-violating phase $\gamma(s)$ in the decay $B(s) \rightarrow f J/\psi$ . <i>Physical Review Letters</i> , <b>2012</b> , 108, 101803	7.4	95

604	Evidence for Exotic Hadron Contributions to $\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 082003	7.4	91
603	Measurement of $\Lambda_c^+$ polarization in collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2631	4.2	87
602	Differential branching fraction and angular analysis of the decay $(B_s^0 \rightarrow \rho^+ \pi^-)$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	86
601	Observation of double charm production involving open charm in pp collisions at $(\sqrt{s} = 7\text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	86
600	Model-Independent Evidence for $J/\psi$ Contributions to $\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 082002	7.4	85
599	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
598	Measurement of $\psi(2S)$ production in collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2025	4.2	83
597	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
596	Design and performance of the ABCD3TA ASIC for readout of silicon strip detectors in the ATLAS semiconductor tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2005</b> , 552, 292-328	1.2	83
595	Evidence for the decay $\Lambda_c^+ \rightarrow \Lambda^0 \pi^+$ . <i>Nuclear Physics B</i> , <b>2014</b> , 886, 665-680	2.8	79
594	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
593	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
592	Search for Dark Photons Produced in 13 TeV pp Collisions. <i>Physical Review Letters</i> , <b>2018</b> , 120, 061801	7.4	75
591	Search for Majorana neutrinos in $B \rightarrow \mu^+ \mu^-$ decays. <i>Physical Review Letters</i> , <b>2014</b> , 112, 131802	7.4	70
590	Dalitz plot analysis of $B_s^0 \rightarrow D^0 K^0$ decays. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	70
589	Measurement of CP violation in the phase space of $B^0 \rightarrow K^0 \pi^0$ and $B^0 \rightarrow K^0 K^+$ decays. <i>Physical Review Letters</i> , <b>2013</b> , 111, 101801	7.4	70
588	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
587	Study of $D^0$ meson decays to $D^+ \pi^-$ and $D^{*+} \pi^-$ final states in pp collisions. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	69

586	Observation of excited $\Lambda(0)$ baryons. <i>Physical Review Letters</i> , <b>2012</b> , 109, 172003	7.4	68
585	Measurement of CP violation and the $B_s^0$ meson decay width difference with $B_s^0 \rightarrow \bar{K}^0$ and $B_s^0 \rightarrow \bar{D}^0$ decays. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	66
584	First observation of $B_s^0 \rightarrow \bar{D}^0(980)$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 698, 115-122	4.2	66
583	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
582	Search for Hidden-Sector Bosons in $B(0) \rightarrow K^*(0) \mu^+ \mu^-$ Decays. <i>Physical Review Letters</i> , <b>2015</b> , 115, 161802	7.4	65
581	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
580	Search for Structure in the $B_{s^0} \mu^+ \mu^-$ Invariant Mass Spectrum. <i>Physical Review Letters</i> , <b>2016</b> , 117, 152003	7.4	64
579	Differential branching fraction and angular analysis of the $B^+ \rightarrow \bar{K}^0 \mu^+ \mu^-$ decay. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	63
578	Measurement of $\phi(2)$ meson production in collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2100	4.2	63
577	The barrel modules of the ATLAS semiconductor tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2006</b> , 568, 642-671	1.2	63
576	Measurement of CP violation in the phase space of $B^0 \rightarrow \bar{K}^0 \mu^+ \mu^-$ and $B^0 \rightarrow \bar{D}^0 \mu^+ \mu^-$ decays. <i>Physical Review Letters</i> , <b>2014</b> , 112, 011801	7.4	61
575	Observation of overlapping spin-1 and spin-3 $D_0 K^-$ resonances at mass 2.86 GeV/c <sup>2</sup> . <i>Physical Review Letters</i> , <b>2014</b> , 113, 162001	7.4	61
574	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
573	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
572	Search for $A^0 \rightarrow \mu^+ \mu^-$ Decays. <i>Physical Review Letters</i> , <b>2020</b> , 124, 041801	7.4	60
571	Measurement of the isospin asymmetry in $B \rightarrow \bar{K}^*(*) \mu^+ \mu^-$ decays. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	59
570	Development of n-on-p silicon sensors for very high radiation environments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 636, S24-S30	1.2	59
569	Analysis of the resonant components in $B \rightarrow \bar{D}^0 \mu^+ \mu^-$ <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	59

568	Production of $J/\psi$ and $(\psi')$ mesons in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	58
567	Search for the rare decays $B_s^0 \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 699, 330-340	4-2	58
566	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
565	Amplitude analysis of $B^{+-} \rightarrow \mu^+ K^+$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4-9	56
564	The ATLAS semiconductor tracker end-cap module. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 575, 353-389 <sup>1,2</sup>		56
563	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
562	Observation of the decay $B(c)^+ \rightarrow \mu^+ B(s)^0$ . <i>Physical Review Letters</i> , <b>2013</b> , 111, 181801	7-4	55
561	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
560	Search for the $X(4140)$ state in $B^{+-} \rightarrow \mu^+ K^+$ decays. <i>Physical Review D</i> , <b>2012</b> , 85,	4-9	55
559	Differential branching fraction and angular analysis of $B \rightarrow b \rightarrow \mu^+ \mu^-$ decays. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015,	5-4	54
558	Measurement of resonant and CP components in $B \rightarrow \mu^+ \mu^-$ decays. <i>Physical Review D</i> , <b>2014</b> , 89,	4-9	54
557	First Observation of the Doubly Charmed Baryon Decay $\Xi_{cc}^{++} \rightarrow \Xi_c^+ \mu^+$ . <i>Physical Review Letters</i> , <b>2018</b> , 121, 162002	7-4	54
556	Precision measurement of CP violation in $B(S)^0 \rightarrow \mu^+ K^-$ decays. <i>Physical Review Letters</i> , <b>2015</b> , 114, 041801	7-4	53
555	Dalitz plot analysis of $B^0 \rightarrow \mu^+ \mu^-$ decays. <i>Physical Review D</i> , <b>2015</b> , 92,	4-9	53
554	Measurements of $B(c)^+$ production and mass with the $B(c)^+ \rightarrow \mu^+ \mu^-$ decay. <i>Physical Review Letters</i> , <b>2012</b> , 109, 232001	7-4	53
553	Measurement of the resonant and CP components in $B \rightarrow \mu^+ \mu^-$ decays. <i>Physical Review D</i> , <b>2014</b> , 90,	4-9	52
552	Observation of CP Violation in Charm Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 211803	7-4	51
551	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

550	Observation of a New $\chi_{b1}^{\prime}$ Resonance. <i>Physical Review Letters</i> , <b>2018</b> , 121, 072002	7.4	50
549	First observation of the decay $B(c) \rightarrow \ell \nu \ell^+ \ell^-$ . <i>Physical Review Letters</i> , <b>2012</b> , 108, 251802	7.4	50
548	Precision measurement of the $B_s \rightarrow \mu^+ \mu^-$ oscillation frequency with the decay $B_s \rightarrow \mu^+ \mu^-$ . <i>New Journal of Physics</i> , <b>2013</b> , 15, 053021	2.9	49
547	Analysis of the resonant components in $B \rightarrow \mu^+ \mu^-$ . <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	49
546	The silicon microstrip sensors of the ATLAS semiconductor tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 578, 98-118	1.2	49
545	Search for long-lived scalar particles in $B \rightarrow K^+ \mu^+ \mu^-$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	48
544	Precision measurement of D meson mass differences. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013,	5.4	48
543	Measurements of the S-wave fraction in $B \rightarrow K^+ \mu^+ \mu^-$ decays and the $B \rightarrow K^+ \mu^+ \mu^-$ differential branching fraction. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	48
542	Measurement of forward J/ψ production cross-sections in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	47
541	Measurements of CP violation in the three-body phase space of charmless $B \rightarrow \mu^+ \mu^-$ decays. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	47
540	Searches for Majorana neutrinos in $B \rightarrow \mu^+ \mu^-$ decays. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	47
539	Measurement of CP-Averaged Observables in the $B \rightarrow K^+ \mu^+ \mu^-$ Decay. <i>Physical Review Letters</i> , <b>2020</b> , 125, 011802	7.4	46
538	Observation of $B_c \rightarrow \mu^+ D_s^+$ and $B_c \rightarrow \mu^+ D_s^{*+}$ decays. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	46
537	Measurement of matter-antimatter differences in beauty baryon decays. <i>Nature Physics</i> , <b>2017</b> , 13, 391-396.2	6.2	45
536	Measurement of B meson production cross-sections in proton-proton collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	45
535	Observation of $D_0$ - $\bar{D}_0$ oscillations. <i>Physical Review Letters</i> , <b>2013</b> , 110, 101802	7.4	45
534	Amplitude analysis of $B \rightarrow \mu^+ \mu^-$ decays. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	45
533	Measurement of the Lifetime of the Doubly Charmed Baryon $\chi_{cc}^{++}$ . <i>Physical Review Letters</i> , <b>2018</b> , 121, 052002	7.4	44

532	Precision measurement of the ratio of the . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 734, 122-130	4.2	43
531	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> , <b>2013</b> , 2013, 1	5.4	43
530	First evidence of direct CP violation in charmless two-body decays of $B_s^0$ mesons. <i>Physical Review Letters</i> , <b>2012</b> , 108, 201601	7.4	43
529	Observation of a resonance in $B^+ \rightarrow K^+ \pi^0$ decays at low recoil. <i>Physical Review Letters</i> , <b>2013</b> , 111, 112003	7.4	43
528	Measurement of CP asymmetry in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	42
527	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. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 709, 177-184	4.2	42
526	Measurement of the exclusive $\pi^0$ 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
525	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
524	First observation of the decay $B_{s2}^*(5840)(0) \rightarrow B^{*+} K^-$ and studies of excited $B_s(0)$ mesons. <i>Physical Review Letters</i> , <b>2013</b> , 110, 151803	7.4	42
523	Measurement of the $[ \text{Formula: see text} ]$ production cross-section in proton-proton collisions via the decay $[ \text{Formula: see text} ]$ . <i>European Physical Journal C</i> , <b>2015</b> , 75, 311	4.2	41
522	Charged particle tracking with the Timepix ASIC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2012</b> , 661, 31-49	1.2	41
521	Search for the doubly charmed baryon $(\Xi_{cc}^{++})$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	41
520	Measurements of the $B^0 \rightarrow \pi^0$ 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
519	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
518	Search for the Decays $B_{(s)}^0 \rightarrow B^{*+} \pi^-$ and $B^{*0} \rightarrow B^{*+} \pi^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 251802	7.4	40
517	Measurement of the Mass Difference Between Neutral Charm-Meson Eigenstates. <i>Physical Review Letters</i> , <b>2019</b> , 122, 231802	7.4	39
516	Opposite-side flavour tagging of mesons at the LHCb experiment. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2022	4.2	39
515	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



514	Combined performance tests before installation of the ATLAS Semiconductor and Transition Radiation Tracking Detectors. <i>Journal of Instrumentation</i> , <b>2008</b> , 3, P08003-P08003	1	39
513	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
512	First observation of the decay ( $B_c^+ \rightarrow J/\psi K^+$ ). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5-4	36
511	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
510	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
509	Measurement of $B_c^+$ polarisation in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2872	4-2	35
508	Observation of two new $(b)(-)$ baryon resonances. <i>Physical Review Letters</i> , <b>2015</b> , 114, 062004	7-4	35
507	First observation of the decay $B_c^+ \rightarrow J/\psi K^+$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4	35
506	Search for lepton number violating decays $B_c^+ \rightarrow J/\psi \mu^+ \mu^-$ and $B_c^+ \rightarrow J/\psi \tau^+ \tau^-$ . <i>Physical Review Letters</i> , <b>2012</b> , 108, 101601	7-4	35
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503	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
502	Quantum numbers of the X(3872) state and orbital angular momentum in its $J/\psi \eta$ decay. <i>Physical Review D</i> , <b>2015</b> , 92,	4-9	34
501	Measurement of $D^0$ - $\bar{D}^0$ mixing parameters and search for CP violation using $D^0 \rightarrow K^+ \eta$ decays. <i>Physical Review Letters</i> , <b>2013</b> , 111, 251801	7-4	34
500	Study of the $D^0 \rightarrow \rho^+ \pi^-$ amplitude in $D^0 \rightarrow b \rightarrow \bar{D}^0 \rho^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	33
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498	Measurement of the CKM angle $\phi_1$ from a combination of $B_c^0 \rightarrow \eta \eta'$ analyses. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 726, 151-163	4-2	33
497	Study of $\chi_{c0}(\mathrm{b})$ meson production in $pp$ collisions at $\sqrt{s}=7$ and $8$ TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74,	4-2	33

496	Measurement of the $\Lambda_c^+$ lifetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 713, 186-195	4.2	33
495	Measurement of the $B_c^+$ meson lifetime using $B_c^+ \rightarrow \tau^+ \nu_\tau$ decays. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2839	4.2	32
494	Precision measurement of the $\Lambda_b(0)$ baryon lifetime. <i>Physical Review Letters</i> , <b>2013</b> , 111, 102003	7.4	32
493	Amplitude analysis and branching fraction measurement of $B_c^+ \rightarrow \tau^+ \nu_\tau$ . <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	32
492	Measurements of long-range near-side angular correlations in $\sqrt{s_{NN}}=5\text{TeV}$ proton-lead collisions in the forward region. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 762, 473-483	4.2	32
491	Measurement of the relative rate of prompt $\tau^0$ , $\tau^1$ and $\tau^2$ production at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	31
490	Measurement of the forward Z boson production cross-section in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	31
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486	Operation, optimisation, and performance of the DELPHI RICH detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1999</b> , 433, 47-58	1.2	31
485	Study of the kinematic dependences of $D^0$ b production in pp collisions and a measurement of the $D^0 \rightarrow \tau^+ \nu_\tau c$ branching fraction. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	30
484	Search for $D(s)^+ \rightarrow \tau^+ \nu_\tau$ and $D(s)^+ \rightarrow \mu^+ \nu_\mu$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 724, 203-212	4.2	30
483	First observation and amplitude analysis of the $B_c^+ \rightarrow K^+ \tau^+ \nu_\tau$ decay. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	30
482	Precision measurement of the mass and lifetime of the $\Lambda_b(0)$ baryon. <i>Physical Review Letters</i> , <b>2014</b> , 113, 032001	7.4	30
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479	Observation of the $D^0 \rightarrow \tau^+ \nu_\tau c$ decay. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	29

478	Observation of photon polarization in the $b \rightarrow s \gamma$ transition. <i>Physical Review Letters</i> , <b>2014</b> , 112, 161801	7.4	29
477	Search for the rare decays $B \rightarrow K^* \ell^+ \ell^-$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 708, 55-67	4.2	29
476	Measurement of the ratio of branching fractions $B(B \rightarrow K^* \ell^+ \ell^-)/B(B \rightarrow K^* \mu^+ \mu^-)$ and the direct CP asymmetry in $B \rightarrow K^* \ell^+ \ell^-$ . <i>Nuclear Physics B</i> , <b>2013</b> , 867, 1-18	2.8	29
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472	Measurement of the semileptonic CP asymmetry in $B \rightarrow B^0$ mixing. <i>Physical Review Letters</i> , <b>2015</b> , 114, 041601	7.4	28
471	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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469	Study of prompt $D^0$ meson production in pPb collisions at $(\sqrt{s_{\text{NN}}}=5)$ TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	27
468	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
467	Study of $(\Upsilon)$ production and cold nuclear matter effects in pPb collisions at $(\sqrt{s_{\text{NN}}}) = 5$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	27
466	Searches for violation of lepton flavour and baryon number in tau lepton decays at LHCb. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 724, 36-45	4.2	27
465	First measurement of the differential branching fraction and CP asymmetry of the $B \rightarrow K^* \ell^+ \ell^-$ decay. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015,	5.4	27
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463	Measurement of b hadron fractions in 13 TeV pp collisions. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	26
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460	Evidence for an resonance in decays. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1019	4.2	26
459	Measurement of the phase difference between short- and long-distance amplitudes in the [Formula: see text] decay. <i>European Physical Journal C</i> , <b>2017</b> , 77, 161	4.2	25
458	Model-Independent Study of Structure in $B^{*+} \rightarrow D^{*+} K^{*+}$ Decays. <i>Physical Review Letters</i> , <b>2020</b> , 125, 242001	7.4	25
457	Measurement of the Difference of Time-Integrated CP Asymmetries in $D^0 \rightarrow \bar{K}^{*0} K^{*+}$ and $D^0 \rightarrow \bar{K}^{*0} K^{*+}$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 116, 191601	7.4	25
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446	Measurement of charged particle multiplicities in pp collisions at $(\sqrt{s}=7 \text{ TeV})$ in the forward region. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	24
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444	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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441	Measurement of $\Upsilon$ production in $pp$ collisions at $\sqrt{s} = 2.76$ TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74,	4.2	23
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439	Measurement of the shape of the $B_0 \rightarrow \mu^+ \mu^-$ differential decay rate. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	23
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433	Search for the lepton flavour violating decay $\mu \rightarrow e \gamma$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	22
432	Search for Violations of Lorentz Invariance and CPT Symmetry in $B_{(s)}$ Mixing. <i>Physical Review Letters</i> , <b>2016</b> , 116, 241601	7.4	22
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423	Measurement of mixing and CP violation parameters in two-body charm decays. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	22
422	Observation of $B^0\text{-}\bar{D}^0K^+K^-$ and evidence for $B(s)(0)\text{-}\bar{D}^0K^+K^-$ . <i>Physical Review Letters</i> , <b>2012</b> , 109, 131801	7.4	22
421	Measurement of Antiproton Production in p-He Collisions at $\sqrt{s_{NN}}=110\text{ GeV}$ . <i>Physical Review Letters</i> , <b>2018</b> , 121, 222001	7.4	22
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419	Study of Beauty Hadron Decays into Pairs of Charm Hadrons. <i>Physical Review Letters</i> , <b>2014</b> , 112,	7.4	21
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417	Search for beautiful tetraquarks in the $\chi(1S)\pi\pi$ invariant-mass spectrum. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	21
416	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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414	The Timepix Telescope for high performance particle tracking. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2013</b> , 723, 47-54	1.2	20
413	Study of $J/\psi$ Production in Jets. <i>Physical Review Letters</i> , <b>2017</b> , 118, 192001	7.4	20
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404	Amplitude analysis of the $B^+ \rightarrow \pi^+ \pi^0$ decay. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9 19
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400	Measurement of the $B \rightarrow \pi$ production cross-section in pp collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4 19
399	Measurements of the branching fractions and CP asymmetries of $B \rightarrow \pi \pi$ and $B \rightarrow \pi S$ decays. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9 19
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397	Observation of the Annihilation Decay Mode $B^0 \rightarrow K^+ K^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 081801	7.4 18
396	Observation of an Excited $B_{c^+}$ State. <i>Physical Review Letters</i> , <b>2019</b> , 122, 232001	7.4 18
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393	Observation of Several Sources of CP Violation in $B^+ \rightarrow \pi^+ \pi^0$ Decays. <i>Physical Review Letters</i> , <b>2020</b> , 124, 031801	7.4 18
392	Measurement of the CP Asymmetry in $B_{s^0} \rightarrow B_{\text{over } \pi_{s^0}}$ Mixing. <i>Physical Review Letters</i> , <b>2016</b> , 117, 061803	7.4 18
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383	Measurement of the forward energy flow in collisions at $\sqrt{s}$ . <i>European Physical Journal C</i> , <b>2013</b> , 73, 2421	4.2	17
382	Study of W boson production in association with beauty and charm. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	17
381	Measurement of forward Z $\rightarrow e^+ e^-$ production at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	17
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378	Measurement of the $B_c(3P)$ mass and of the relative rate of $B_c(1P)$ and $B_c(2P)$ production. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	17
377	Measurement of the fraction of $\chi(1S)$ originating from $B(1P)$ decays in pp collisions at $(\sqrt{s}=7, \text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	17
376	Search for CP violation in $D^+ \rightarrow K^+ K^0$ decays. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	17
375	Measurement of the $B_{s0} \rightarrow \mu^+ \mu^-$ branching fraction and angular amplitudes. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	17
374	Observations of $D^0 \rightarrow b \rightarrow K^+ K^-$ and $D^0 \rightarrow b \rightarrow K^+ K^0$ decays and searches for other $D^0 \rightarrow b$ and $D^0 \rightarrow b$ decays to $B + h$ final states. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	17
373	Study of $B_c^+$ decays to the $K^+ K^0$ final state and evidence for the decay $B_c^+ \rightarrow B^0 K^+$ . <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	17
372	Angular moments of the decay $D^0 \rightarrow b \rightarrow K^+ K^0$ at low hadronic recoil. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	17
371	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



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369	First Observation of $D^0 \rightarrow D^0$ Oscillations in $D^0 \rightarrow K^+ \pi^- \pi^+ \pi^-$ Decays and Measurement of the Associated Coherence Parameters. <i>Physical Review Letters</i> , <b>2016</b> , 116, 241801	7.4	16
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367	Evidence for the decay ( $B_{\text{c}}^+ \rightarrow J/\psi \text{ left} / \text{right} \{ \text{uppi}^+ \}^2 \{ \text{uppi}^- \} \}$ ). <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	16
366	Measurement of the effective $B_{\text{s}} \rightarrow K^+ K^-$ lifetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 349-356	4.2	16
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364	Observation of $\psi(2S) \rightarrow \rho^+ \rho^-$ and search for $X(3872) \rightarrow \rho^+ \rho^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 769, 305-313	4.2	16
363	Measurements of prompt charm production cross-sections in pp collisions at $\sqrt{s} = 5 \text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5.4	16
362	First observation of top quark production in the forward region. <i>Physical Review Letters</i> , <b>2015</b> , 115, 112001	7.4	16
361	Amplitude analysis of $B^0 \rightarrow D^0 K^+ \pi^-$ decays. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	16
360	Search for CP violation using T-odd correlations in $D^0 \rightarrow \pi^+ K^- \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	16
359	Observations of $\psi(2S) \rightarrow \rho^+ \rho^-$ . <i>Nuclear Physics B</i> , <b>2013</b> , 871, 403-419	2.8	16
358	Measurement of the branching fractions of the decays $B_{\text{s}}^0 \rightarrow D^0 K^+ K^-$ and $B^0 \rightarrow D^0 K^+ \pi^-$ . <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	16
357	Observation of $B_{\text{s}}(0) \rightarrow J/\psi(1525) \pi^+ \pi^-$ in $J/\psi \rightarrow K^+ K^-$ final states. <i>Physical Review Letters</i> , <b>2012</b> , 108, 151801	7.4	16
356	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
355	Measurement of CP observables in $B_{\text{c}}^+ \rightarrow D^0 K^+ \pi^-$ and $B_{\text{c}}^+ \rightarrow D^0 \pi^+ \pi^-$ 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
354	Search for the lepton-flavour violating decays $B^0 \rightarrow \tau^+ \mu^-$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	15
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352	Search for CP violation in the decay . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 728, 585-595	4.2	15
351	Measurement of the $B^0\bar{B}^0$ oscillation frequency $\Delta m_d$ with the decays $B^0\rightarrow D^+D^-$ and $B^0\rightarrow D^+D^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 719, 318-325	4.2	15
350	Observation of the $B^0\rightarrow K^+K^-$ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 772, 265-273	4.2	15
349	Measurement of CP asymmetries in the decays $B^0\rightarrow K^+K^-$ and $B^+\rightarrow K^+K^0$ . <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014,	5.4	15
348	First measurement of the charge asymmetry in beauty-quark pair production. <i>Physical Review Letters</i> , <b>2014</b> , 113, 082003	7.4	15
347	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
346	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
345	Study of the $\bar{D}(3823)$ and $\bar{D}1(3872)$ states in $B^+\rightarrow J/\psi K^+$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	15
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343	Measurement of the properties of the $\Lambda_b^0$ baryon. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016,	5.4	15
342	Evidence for the decay $(B_s^0\rightarrow \bar{K}^0\mu^+\mu^-)$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	15
341	Precise measurements of the properties of the $B(5721)^{0,+}$ and $B^*(5747)^{0,+}$ states and observation of $B_{(S)}^0$ mass structures. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	14
340	Measurement of indirect CP asymmetries in $D^0\rightarrow K^+K^-$ and $D^0\rightarrow K^+K^0$ decays using semileptonic B decays. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015,	5.4	14
339	Search for CP violation in $D^+\rightarrow \bar{K}^0\pi^+$ and $(D_s^+\rightarrow K_S^0\pi^+)$ decays. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	14
338	Study of $B_{(S)}^0\rightarrow K_{\text{charm}}^0 h^+ h'^-$ 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> , <b>2013</b> , 2013,	5.4	14
337	Observation of $B_{(S)}^0\rightarrow \bar{B}_{(S)}^0$ mixing and measurement of mixing frequencies using semileptonic B decays. <i>European Physical Journal C</i> , <b>2013</b> , 73,	4.2	14
336	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
335	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

334	Evidence for the Strangeness-Changing Weak Decay $B^+ \rightarrow \bar{c}^+ \bar{u}^0$ . <i>Physical Review Letters</i> , <b>2015</b> , 115, 241801	7.4	14
333	Evidence for CP violation in $B^+ \rightarrow \bar{c}^+ K^+$ decays. <i>Physical Review Letters</i> , <b>2014</b> , 113, 141801	7.4	14
332	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
331	First measurement of the CP-violating phase in $B_s(0) \rightarrow \bar{c}^+ \bar{u}^0$ decays. <i>Physical Review Letters</i> , <b>2013</b> , 110, 241802	7.4	14
330	First observation of $B^0 \rightarrow \bar{c}^+ K^0$ and search for $B^0 \rightarrow \bar{c}^+ \bar{u}^0$ decays. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	14
329	Search for rare $B(0) \rightarrow \bar{c}^+ \bar{u}^0$ decays. <i>Physical Review Letters</i> , <b>2013</b> , 110, 211801	7.4	14
328	Radiation damage in the LHCb vertex locator. <i>Journal of Instrumentation</i> , <b>2013</b> , 8, P08002-P08002	1	14
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326	Evaluation of the bulk and strip characteristics of large area n-in-p silicon sensors intended for a very high radiation environment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 636, S104-S110	1.2	14
325	Measurement of the $B^0 \rightarrow \bar{c}^+ \bar{u}^0$ effective lifetime in the $J/\psi(980)$ final state. <i>Physical Review Letters</i> , <b>2012</b> , 109, 152002	7.4	14
324	Angular Analysis of the $B^+ \rightarrow \bar{c}^+ \bar{u}^0$ Decay. <i>Physical Review Letters</i> , <b>2021</b> , 126, 161802	7.4	14
323	Search for the lepton-flavour violating decay $D^0 \rightarrow \bar{c}^+ \bar{u}^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 754, 167-175	4.2	14
322	Amplitude Analysis of $B^+ \rightarrow \bar{c}^+ \bar{u}^0$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 123, 231802	7.4	14
321	Model-Independent Observation of Exotic Contributions to $B^+ \rightarrow \bar{c}^+ \bar{u}^0$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 152002	7.4	13
320	Study of the rare $B_s^0$ and $B^0$ decays into the $J/\psi$ final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 743, 46-55	4.2	13
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317	First evidence for the annihilation decay mode $B^+ \rightarrow D_s^+ \phi$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013,	5.4	13

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315	Observation of the decay $B_{s0} \rightarrow \mu^+ \mu^-$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 727, 403-411	4.2	13
314	Observation of $B_{c^+} \rightarrow D^0 K^+$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 111803	7.4	13
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309	Measurement of CP violation in $B_{s0} \rightarrow \pi^0$ decays. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	13
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307	Progress with the single-sided module prototypes for the ATLAS tracker upgrade stave. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 636, S90-S96	1.2	13
306	Search for the doubly charmed baryon ( $\Xi_{cc}^{++}$ ). <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2020</b> , 63, 1	3.6	13
305	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
304	First study of the CP-violating phase and decay-width difference in $B_{s0} \rightarrow \rho^0 \rho^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 762, 253-262	4.2	13
303	Search for the Lepton-Flavor-Violating Decays $B_{s^0} \rightarrow \mu^+ \mu^-$ and $B^+ \rightarrow \mu^+ \mu^-$ . <i>Physical Review Letters</i> , <b>2019</b> , 123, 211801	7.4	13
302	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
301	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
300	Test of lepton universality with ( $\Lambda_b^0 \rightarrow p K^+ \ell^+ \ell^-$ ) decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	12
299	Measurement of CP violation parameters and polarisation fractions in ( $B_{s^0} \rightarrow J/\psi \overline{K}^0$ ) decays. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	12

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297	Measurement of the $B_s(0) \rightarrow D_s^- D_s^+$ and $B_s(0) \rightarrow \bar{D}^- D_s^+$ effective lifetimes. <i>Physical Review Letters</i> , <b>2014</b> , 112, 111802	7.4	12
296	A study of CP violation in $B^0 \rightarrow \bar{D}^0 K^0$ and $B^0 \rightarrow \bar{D}^0 \bar{K}^0$ decays with $D \rightarrow K^0 \bar{K}^0$ final states. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 733, 36-45	4.2	12
295	Measurement of the ratio of branching fractions $B(B^0 \rightarrow \rho^0 K^0)/B(B^0 \rightarrow \rho^0 \bar{K}^0)$ . <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	12
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293	Measurement of $V_{cb}$ 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
292	Observation of the $B^0 \rightarrow \rho^0$ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 282-292	4.2	12
291	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
290	Measurement of the $\Lambda_c^+$ Baryon Lifetime. <i>Physical Review Letters</i> , <b>2018</b> , 121, 092003	7.4	12
289	Measurement of CP asymmetry in $D^0 \rightarrow \bar{K}^0 K^+$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 767, 177-187	4.2	11
288	Precision measurement of the $(\chi_{cc}^{++})$ mass. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	11
287	Differential branching fraction and angular moments analysis of the decay $B^0 \rightarrow \bar{K}^0 K^0$ in the $K^*_{0,2}(1430)^0$ region. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	11
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284	Measurement of the CP Violation Parameter $A_{FB}^0$ in $D^0 \rightarrow \bar{K}^+ K^-$ and $D^0 \rightarrow \bar{K}^0 K^0$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 261803	7.4	11
283	Measurement of the branching fraction ratio $B(B_c^+ \rightarrow \rho^0 K^+)/B(B_c^+ \rightarrow \bar{K}^0 K^+)$ . <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	11
282	Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow \bar{K}^0 S^0 K^0 S^0$ decays. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	11
281	Measurement of CP violation parameters in $B^0 \rightarrow \bar{D}^0 K^0$ decays. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	11

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272	Measurement of CP observables in $B_{\bar{c}}-D(?)K_{\bar{c}}$ and $B_{\bar{c}}-D(?)\pi$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 777, 16-30	4.2	10
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269	Measurement of the $\bar{B}_{\bar{c}}\pi$ and $\bar{B}_{\bar{c}}\pi$ baryon lifetimes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 736, 154-162	4.2	10
268	Measurement of the charge asymmetry in $\pi$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 728, 85-94	4.2	10
267	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
266	Measurement of the effective $\alpha_s$ . <i>Nuclear Physics B</i> , <b>2013</b> , 873, 275-292	2.8	10
265	Measurement of $B_{\text{s}}^{\{0\}}$ and $D_{\text{s}}^{\{-\}}$ Meson Lifetimes. <i>Physical Review Letters</i> , <b>2017</b> , 119, 101801	7.4	10
264	Observation of the suppressed decay $\bar{D}^0 \rightarrow \bar{p}p\pi^+\pi^0$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	10
263	Measurement of $B^0$ , $B_{\text{s}}^0$ , $B^+$ and $\bar{B}^0$ 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

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260	Measurement of the $B_{\{s\}}^0$ meson lifetime in $D_s^+ \rightarrow B_{\{s\}}^0$ decays. <i>Physical Review Letters</i> , <b>2014</b> , 113, 172001	7.4	10
259	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
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254	Searches for low-mass dimuon resonances. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	10
253	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
252	Search for $B_c^+$ decays to the $pp^{\pi}$ final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 759, 313-321	4.2	10
251	Prompt $\bar{D}^0$ 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
250	Mapping the material in the LHCb vertex locator using secondary hadronic interactions. <i>Journal of Instrumentation</i> , <b>2018</b> , 13, P06008-P06008	1	10
249	Measurement of the mass and production rate of $B_{\{s\}}^0$ baryons. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	9
248	Determination of $\Gamma_{\{B\}}^0$ 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
247	Effective lifetime measurements in the $B_{\{s\}}^0 \rightarrow K^+ K^- B_{\{s\}}^0$ and $B_{\{s\}}^0 \rightarrow K^+ K^- B_{\{s\}}^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 736, 446-454	4.2	9
246	Branching fraction and CP asymmetry of the decays $B^+ \rightarrow K_S^0 \pi^+$ and $B^+ \rightarrow K_S^0 K^+$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 726, 646-655	4.2	9
245	Measurement of the time-dependent CP asymmetries in $B^0 \rightarrow \pi^+ \pi^-$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015,	5.4	9

244	Observation of the $B_0 \rightarrow D^0$ decay from an amplitude analysis of $B_0 \rightarrow D^0 \pi^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2015</b> , 747, 468-478	4.2	9
243	Study of $B_0 \rightarrow D^0 \pi^0$ and $B_0 \rightarrow D^0 \pi^+ \pi^-$ decays. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	9
242	First observation of the decays $B^0 \rightarrow D^0 \pi^0$ and $B^0 \rightarrow D^0 \pi^+ \pi^-$ . <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	9
241	Beamtest of nonirradiated and irradiated ATLAS SCT microstrip modules at KEK. <i>IEEE Transactions on Nuclear Science</i> , <b>2002</b> , 49, 1868-1875	1.7	9
240	Latest beam test results from RICH prototypes using hybrid photo detectors and multi anode PMTs. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1999</b> , 433, 159-163	1.2	9
239	Measurement of the $(\eta_c(1S))$ production cross-section in $(p)(p)$ collisions at $(\sqrt{s} = 13)$ (, text {TeV}). <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	9
238	Search for CP violation in $B_0 \rightarrow \rho^0 K^0$ and $B_0 \rightarrow \rho^+ K^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 787, 124-133	4.2	9
237	Measurement of the CKM angle $\Gamma$ using $B^0 \rightarrow D^0 K^0$ with $D^0 \rightarrow \pi^0 \pi^0$ and $D^0 \rightarrow \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	9
236	Search for the rare decay $B^0 \rightarrow \rho^0 \pi^0$ . <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	9
235	Search for the suppressed decays $B^+ \rightarrow K^+ K^0$ and $B^+ \rightarrow \pi^+ K^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 765, 307-316	4.2	8
234	Observation of $B_c^+ \rightarrow D^0(*) K^0(*)$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	8
233	Measurements of charm mixing and CP violation using $D^0 \rightarrow K^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	8
232	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
231	Measurement of the Charm-Mixing Parameter $y_{CP}$ . <i>Physical Review Letters</i> , <b>2019</b> , 122, 011802	7.4	8
230	Study of $\pi^0$ mixing from measurement of $B(s) \rightarrow \pi^0 \pi^0$ decay rates. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015,	5.4	8
229	Determination of quantum numbers for several excited charmed mesons observed in $B \rightarrow D^* \pi$ decays. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	8
228	Measurement of branching fractions of charmless four-body $B \rightarrow b$ and $B \rightarrow b$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	8
227	Evidence for the Rare Decay $B^0 \rightarrow \rho^0 \pi^0$ . <i>Physical Review Letters</i> , <b>2018</b> , 120, 221803	7.4	8



226	Measurement of polarization amplitudes and CP asymmetries in $B^0 \rightarrow \rho^0 K^*(892)^0$ . <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	8
225	Search for the decay $B^0 \rightarrow \rho^0 \pi^0 \pi^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 728, 234-243	4.2	8
224	Observation of $B^0 \rightarrow \rho^0 \pi^0 \pi^0$ . <i>Nuclear Physics B</i> , <b>2013</b> , 874, 663-678	2.8	8
223	$\Gamma_{c1}$ and $\Gamma_{c2}$ Resonance Parameters with the Decays $B^0 \rightarrow \rho^0 \pi^0 \pi^0$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 221801	7.4	8
222	Measurement of the $B^0$ 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
221	Measurement of the $B^0 \rightarrow \rho^0 \pi^0$ branching fraction and search for the decay $B^0 \rightarrow \rho^0 \pi^0 \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	8
220	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
219	Search for CP violation in $D^0 \rightarrow \rho^0 K^0$ and $D^0 \rightarrow \rho^0 K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	8
218	First observation of the decays $B^0 \rightarrow \rho^0 K^0 \pi^0$ and $B^0 \rightarrow \rho^0 K^0 \pi^0$ . <i>Physical Review Letters</i> , <b>2012</b> , 108, 161801	7.4	8
217	Search for the lepton flavour violating decay $B^+ \rightarrow K^+ \mu^+ \mu^-$ using $B^0 \rightarrow \rho^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	8
216	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
215	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
214	Search for Lepton-Flavor Violating Decays $B^+ \rightarrow K^+ \mu^+ \mu^- e^+$ . <i>Physical Review Letters</i> , <b>2019</b> , 123, 241802	7.4	8
213	Study of $\rho^0$ production in pPb collisions at $\sqrt{s_{\text{NN}}} = 8.16$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	8
212	Measurement of Angular and CP Asymmetries in $D^0 \rightarrow \rho^0 \pi^0 \pi^0$ and $D^0 \rightarrow \rho^0 K^+ K^- \pi^0$ Decays. <i>Physical Review Letters</i> , <b>2018</b> , 121, 091801	7.4	8
211	Measurements of the branching fractions of $\rho^0 \rightarrow \pi^0 \pi^0$ , $\rho^0 \rightarrow \pi^0 K^+ K^-$ , and $\rho^0 \rightarrow \pi^0 K^+ K^-$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018,	5.4	8
210	Search for the CP-violating strong decays $B^0 \rightarrow \rho^0 \pi^0 \pi^0$ and $B^0 \rightarrow \rho^0 \pi^0 \pi^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 764, 233-240	4.2	7
209	Observation of the Decay $B^0 \rightarrow \rho^0 K^+ K^-$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 071801	7.4	7

208	Improved limit on the branching fraction of the rare decay. <i>European Physical Journal C</i> , <b>2017</b> , 77, 678	4.2	7
207	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
206	Study of $D^{(*)} + sJ$ mesons decaying to $D^{*} + K^0_S$ and $D^0 K^+$ final states. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	7
205	Observation of the $B^0 \rightarrow \pi^+ \pi^-$ decay. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	7
204	Observation of the decay $B^0 \rightarrow \pi^+ \pi^-$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2018</b> , 784, 101-111	4.2	7
203	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
202	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
201	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
200	First evidence for the two-body charmless baryonic decay $\Lambda_b^0 \rightarrow \overline{p} \pi^+$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013,	5.4	7
199	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
198	Search for CP violation in the phase space of $D^0 \rightarrow \pi^+ \pi^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 769, 345-356	4.2	7
197	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
196	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
195	Observation of the $B(s)^0 \rightarrow \pi^0 \pi^0$ Decay. <i>Physical Review Letters</i> , <b>2015</b> , 115, 051801	7.4	7
194	First observations of the rare decays $B^+ \rightarrow \pi^+ K^0$ and $B^+ \rightarrow \pi^+ K^+$ . <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	7
193	First LHC beam induced tracks reconstructed in the LHCb VELO. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2009</b> , 604, 1-4	1.2	7
192	First spatial alignment of the LHCb VELO and analysis of beam absorber collision data. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 618, 108-120	1.2	7
191	SEU rate estimates for the ATLAS/SCT front-end ASIC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2003</b> , 515, 415-421 <sup>1.2</sup>	1.2	7

190	Search for CP violation in $(\{\{\{\varXi\}\}^+_{c}\} \rightarrow \{p\} \{\{K\}^-\} \{\{\pi\}^+\})$ decays using model-independent techniques. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	7
189	Observation of a new baryon state in the $(\{\Lambda\}_{\text{b}}^0 \{\{\pi\}^+\} \{\{\pi\}^-\})$ mass spectrum. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	7
188	Measurement of $f_{\text{s}}/f_{\text{u}}$ Variation with Proton-Proton Collision Energy and B-Meson Kinematics. <i>Physical Review Letters</i> , <b>2020</b> , 124, 122002	7.4	7
187	First Observation of the Decay $B_{\text{s}}^0 \rightarrow K^+ \pi^0$ and a Measurement of $ V_{\text{ub}} / V_{\text{cb}} $ . <i>Physical Review Letters</i> , <b>2021</b> , 126, 081804	7.4	7
186	Search for a dimuon resonance in the $\chi$ mass region. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
185	Search for CP violation using triple product asymmetries in $B \rightarrow b \rightarrow \bar{p} K^0 \pi^0$ and $B \rightarrow 0 b \rightarrow \bar{p} K^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	7
184	Amplitude Analysis of the Decay $B \rightarrow \pi^0 K^+ \pi^0$ and First Observation of the CP Asymmetry in $B \rightarrow \pi^0 K^+ (892)^-\pi^+$ . <i>Physical Review Letters</i> , <b>2018</b> , 120, 261801	7.4	7
183	Measurement of the $B_{\text{d}}$ production asymmetry and the CP asymmetry in $B_{\text{d}} \rightarrow \bar{0} K^0$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	6
182	Measurement of $ V_{\text{cb}} $ with $B_{\text{s}}^0 \rightarrow D_{\text{s}}^*(*) \pi^0$ decays. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	6
181	First measurement of the CP-violating phase $(\{\phi\}_{\text{s}}^{\overline{\text{d}}})$ in $B \rightarrow \text{s} \rightarrow \bar{f}(K^+ \pi^0)$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
180	Measurement of the mass and lifetime of the $\Xi_{\text{b}}$ baryon. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	6
179	Constraints on the unitarity triangle angle $\Gamma$ from Dalitz plot analysis of $B^0 \rightarrow \bar{0} K^+ \pi^0$ decays. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	6
178	Measurements of CP asymmetries in charmless four-body $(\{\{\Lambda\}^0_{\text{b}}\})$ and $(\{\{\Xi\}^0_{\text{b}}\})$ decays. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	6
177	Measurement of CP observables in $B \rightarrow 0 \rightarrow \bar{0} K^+ \pi^0$ with $D \rightarrow K^+ K^0$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	6
176	Searches for $(B_{\text{s}}^0 \rightarrow \{J \text{ left/ } \{\{\psi\} \text{ right.}\} \overline{\text{p}})$ and $B \rightarrow \bar{f} J / \bar{p} (\overline{\text{p}}) \pi^+$ decays. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1	5.4	6
175	Measurement of CP asymmetries in $D_{\text{d}} \rightarrow \bar{0} \pi^0$ and $D_{\text{s}} \rightarrow \bar{0} \pi^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2017</b> , 771, 21-30	4.2	6
174	Observation of the decay $B_{\text{s}}^0 \rightarrow \bar{f} \pi^+$ and evidence for $B_{\text{s}}^0 \rightarrow \bar{f} \pi^+ \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5.4	6
173	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

172	Edge pixel response studies of edgeless silicon sensor technology for pixellated imaging detectors. <i>Journal of Instrumentation</i> , <b>2015</b> , 10, P03018-P03018	1	6
171	Measurement of CP asymmetries and polarisation fractions in ( $B_s^0 \rightarrow \overline{K}^{*0} \ell^+ \ell^-$ ) decays. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	6
170	Search for the $B_b^- \rightarrow \ell^+ \ell^-$ and $B_b^- \rightarrow \ell^+ \ell^-$ decays with the LHCb detector. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	6
169	Observation of $B_{s^0} \rightarrow \overline{K}^{*0} \ell^+ \ell^-$ and evidence for $B_{s^0} \rightarrow \overline{K}^{*0} \ell^+ \ell^-$ decays. <i>New Journal of Physics</i> , <b>2014</b> , 16, 123001	2.9	6
168	Search for the decay $B_s^0 \rightarrow \ell^+ \ell^-$ . <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	6
167	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
166	Measurement of the CKM angle $\alpha$ using $B^0 \rightarrow \ell^+ \ell^- K^*0$ with $D \rightarrow \ell^+ \ell^-$ decays. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016,	5.4	6
165	Measurement of CP Violation in $B^0 \rightarrow \ell^+ \ell^- D^{\pm}$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 261801	7.4	6
164	Model-independent measurement of the CKM angle $\alpha$ using $B^0 \rightarrow \ell^+ \ell^- K^*0$ decays with $D \rightarrow \ell^+ \ell^-$ and $K \rightarrow \ell^+ \ell^-$ . <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	6
163	Observation of the decay $B_s^0 \rightarrow \ell^+ \ell^- K^*0$ . <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	6
162	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
161	First observation of $B^+ \rightarrow \ell^+ \ell^- K^*0$ decays and a search for $B^+ \rightarrow \ell^+ \ell^- \chi$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	6
160	Precise measurement of the $f_s/f_d$ ratio of fragmentation fractions and of $B_s^0$ decay branching fractions. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	6
159	Observation of charmless baryonic decays $B(s)0 \rightarrow \ell^+ \ell^- p \pi^+ \pi^-$ . <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	5
158	Observation of the ( $\Lambda_{\text{charm}}^0 \rightarrow \ell^+ \ell^-$ ) ( $3872$ ) pK decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
157	Observation of $B_{s^0} \rightarrow \ell^+ \ell^- K_S^0$ and Evidence for $B_{s^0} \rightarrow \ell^+ \ell^- K_S^0$ decays. <i>Physical Review Letters</i> , <b>2016</b> , 116, 161802	7.4	5
156	Amplitude analysis of $B^0 \rightarrow \ell^+ \ell^- K^*0$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
155	Observation of the $B^0 \rightarrow \ell^+ \ell^- K^*0$ decay. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1	5.4	5

154	Observation of the decay $B^0 \rightarrow \bar{K}^0 \mu^+ \mu^-$ and a search for CP violation. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5-4	5
153	Study of $(\overline{b}b)$ correlations in high energy proton-proton collisions. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5-4	5
152	Determination of the branching fractions of $B^0 \rightarrow S K^0$ and $B^0 \rightarrow \bar{D}^0 K^+$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5-4	5
151	Characterisation of edgeless technologies for pixellated and strip silicon detectors with a micro-focused X-ray beam. <i>Journal of Instrumentation</i> , <b>2013</b> , 8, P01018-P01018	1	5
150	The LHCb VELO upgrade. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 636, S185-S193	1.2	5
149	Branching Fraction Measurements of the Rare $B_{(s)}^{0-} \rightarrow \bar{K}^0 \mu^+ \mu^-$ and $B_{(s)}^{0-} \rightarrow \bar{K}^0 \pi^+ \pi^-$ Decays. <i>Physical Review Letters</i> , <b>2021</b> , 127, 151801	7-4	5
148	Updated measurement of decay-time-dependent CP asymmetries in $D^0 \rightarrow \bar{K}^0 K^0$ and $D^0 \rightarrow \bar{K}^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2020</b> , 101,	4-9	5
147	Measurement of the ratio of branching fractions $(\mathcal{B}(\mathcal{B} \rightarrow \mathcal{J} \mu^+ \mu^-) / \mathcal{B}(\mathcal{B} \rightarrow \mathcal{J} \mu^+ \mu^-)) / (\mathcal{B}(\mathcal{B} \rightarrow \mathcal{J} \mu^+ \mu^-) / \mathcal{B}(\mathcal{B} \rightarrow \mathcal{J} \mu^+ \mu^-))$ . <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5-4	5
146	A search for $(\Xi_{cc}^{++}) \rightarrow \bar{D}^0 p K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5-4	5
145	Observation of $B_s^0 \rightarrow \bar{D}^0 \pi^0$ and search for $B^0 \rightarrow \bar{D}^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2018</b> , 98,	4-9	5
144	Observation of the decay $B^0 \rightarrow \bar{K}^0 \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5-4	5
143	Search for weakly decaying b-flavored pentaquarks. <i>Physical Review D</i> , <b>2018</b> , 97,	4-9	5
142	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
141	Observation of $B_{(s)}^{0-} \rightarrow \bar{K}^0 \mu^+ \mu^-$ and $B_{(s)}^{0-} \rightarrow \bar{K}^0 \pi^+ \pi^-$ decays. <i>European Physical Journal C</i> , <b>2017</b> , 77, 72	4-2	4
140	Observation of $B_{(s)}^{0-} \rightarrow \bar{K}^0 \mu^+ \mu^-$ Decays and Precision Measurements of the $B_{(s)}^{0-}$ Masses. <i>Physical Review Letters</i> , <b>2019</b> , 122, 191804	7-4	4
139	Search for the Rare Decays $B_{(s)}^{0-} \rightarrow \bar{K}^0 e^+ e^-$ and $B_{(s)}^{0-} \rightarrow \bar{K}^0 \mu^+ \mu^-$ . <i>Physical Review Letters</i> , <b>2020</b> , 124, 211802	7-4	4
138	Measurement of the charged-current electron (anti)-neutrino inclusive cross-sections at the T2K off-axis near detector ND280. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5-4	4
137	Search for Electron Antineutrino Appearance in a Long-Baseline Muon Antineutrino Beam. <i>Physical Review Letters</i> , <b>2020</b> , 124, 161802	7-4	4

136	Measurement of $\chi_{cc}^{++}$ production in pp collisions at $\sqrt{s}=13$ TeV. <i>Chinese Physics C</i> , <b>2020</b> , 44, 022001	2.2	4
135	Measurement of CP asymmetry in $B^0 \rightarrow \pi^+ \pi^- K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
134	Search for $B_c^+$ decays to two charm mesons. <i>Nuclear Physics B</i> , <b>2018</b> , 930, 563-582	2.8	4
133	Dalitz plot analysis of the $D^+ \rightarrow \pi^+ K^+ K^-$ decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	4
132	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
131	New algorithms for identifying the flavour of $B$ mesons using pions and protons. <i>European Physical Journal C</i> , <b>2017</b> , 77, 238	4.2	4
130	Evidence for the two-body charmless baryonic decay ( $\Lambda_b^+ \rightarrow \bar{p} \Lambda^0$ ). <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	4
129	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
128	Measurement of CP observables in $B^0 \rightarrow \pi^+ \pi^- K^0$ decays using two- and four-body D final states. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	4
127	Updated branching fraction measurements of $B^0 \rightarrow \pi^+ \pi^- K^0$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5.4	4
126	Study of $B^0 \rightarrow \pi^+ \pi^- K^0$ and $B^0 \rightarrow \pi^+ \pi^- K^0$ decays and determination of the CKM angle $\alpha$ <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	4
125	First observation and measurement of the branching fraction for the decay $B^0 \rightarrow \pi^+ \pi^- K^0$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1	5.4	4
124	Beam study of irradiated ATLAS-SCT prototypes. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 485, 67-72	1.2	4
123	A prototype RICH detector using multi-anode photo multiplier tubes and hybrid photo-diodes. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2001</b> , 456, 233-247	1.2	4
122	Strong constraints on the $b \rightarrow s \gamma$ photon polarisation from $B^0 \rightarrow \pi^+ \pi^- e^+ e^-$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	4
121	Search for CP violation and observation of P violation in $B^0 \rightarrow \pi^+ \pi^-$ decays. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	4
120	Observation of Multiplicity Dependent Prompt $c\bar{c}$ (3872) and $\chi_{c1}$ Production in pp Collisions. <i>Physical Review Letters</i> , <b>2021</b> , 126, 092001	7.4	4
119	Measurement of the $B_s^0$ lifetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 762, 484-492	4.2	4

118	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
117	Observation of a new $B_0$ state. <i>Physical Review D</i> , <b>2021</b> , 103,	4.9	4
116	Measurement of the time-integrated CP asymmetry in $D_0 \rightarrow K_S^0 K_S^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	4
115	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
114	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
113	First branching fraction measurement of the suppressed decay $B_0 \rightarrow \bar{B}^+$ . <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	3
112	First observation of the rare $B^+ \rightarrow \bar{D}^+ K^+ \pi^+$ decay. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	3
111	Measurement of the $B_s^0 \rightarrow D_s^{(*)} + D_s^{(*)}$ branching fractions. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	3
110	First observation of the decay $B^0 \rightarrow \bar{K}^0 S^* K^*(892)^0$ at LHCb. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1	5.4	3
109	Amplitude analysis of the ( $B^0 \rightarrow K^{*0} \bar{K}^{*0}$ ) decays and measurement of the branching fraction of the ( $B^0 \rightarrow K^{*0} \bar{K}^{*0}$ ) decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	3
108	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
107	First Beam Test Characterisation of a 3D-stc Silicon Short Strip Detector. <i>IEEE Transactions on Nuclear Science</i> , <b>2009</b> , 56, 3834-3839	1.7	3
106	Engineering for the ATLAS SemiConductor Tracker (SCT) End-cap. <i>Journal of Instrumentation</i> , <b>2008</b> , 3, P05002-P05002	1	3
105	Observation of a New Excited $D_{s^+}$ Meson in $B^0 \rightarrow \bar{D}^+ D^+ K^+ \pi^-$ Decays. <i>Physical Review Letters</i> , <b>2021</b> , 126, 122002	7.4	3
104	Search for heavy neutral leptons in ( $W^+ \rightarrow \mu^+ \mu^{\pm}$ , text {jet}) decays. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	3
103	Measurement of the electron reconstruction efficiency at LHCb. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P11023-P11023	1	3
102	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
101	Search for long-lived particles decaying to ( $e^{\pm}$ ) ( $\mu^{\pm}$ ) ( $\nu$ ). <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	3

100	Search for lepton-flavour-violating decays of Higgs-like bosons. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1008	4.2	3
99	Search for the doubly heavy baryons $\Lambda_{cc}^+$ and $\Sigma_{cc}^+$ decaying to $\Lambda_c^+$ and $\Sigma_c^+$ $\pi^0$ . <i>Chinese Physics C</i> , <b>2021</b> , 45, 093002	2.2	3
98	Measurement of the relative $B_{\text{charm}}^0/D^0/D^{*0}$ branching fractions using $B_{\text{charm}}^0$ mesons from $B_{\text{charm}}^0 \rightarrow D^0$ decays. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	2
97	Measurement of the CP-violating phase $\gamma$ from $B_s^0 \rightarrow \mu^+ \mu^-$ 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
96	Search for CP Violation in $D_{\text{charm}}^+ \rightarrow K_{\text{charm}}^0 \pi^+$ , $D_{\text{charm}}^+ \rightarrow K_{\text{charm}}^+ \pi^0$ , and $D_{\text{charm}}^+ \rightarrow \pi^+ \pi^0$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 191803	7.4	2
95	Observation of the doubly Cabibbo-suppressed decay $B_c^- \rightarrow c^- \bar{\nu}_c$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
94	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
93	Measurement of the $(\lambda_{b^0})_{\text{charm}}^{\text{charm}}$ angular distribution and the $(\lambda_{b^0})_{\text{charm}}^{\text{charm}}$ polarisation in pp collisions. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
92	Measurement of CP observables in $B_{\text{charm}}^0 \rightarrow D K_{\text{charm}}^0$ and $B_{\text{charm}}^0 \rightarrow D^* K_{\text{charm}}^0$ with $D \rightarrow (K_{\text{charm}}^0 \pi^0)$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
91	Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B^+ \rightarrow \pi^+ \pi^0$ and $B^+ \rightarrow \pi^+ \pi^+$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	2
90	Study of the $B^0 \rightarrow \pi^0 K^*(892)^0$ decay with an amplitude analysis of $B^0 \rightarrow \pi^0 (K^+ \pi^-)$ decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
89	Observation of the $B^+ \rightarrow D^* K^+$ decay. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	2
88	Measurement of CP violation in $B^0 \rightarrow \pi^+ \pi^- S^0$ and $B^0 \rightarrow \pi^0 \pi^0 S^0$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017,	5.4	2
87	The ATLAS SCT grounding and shielding concept and implementation. <i>Journal of Instrumentation</i> , <b>2012</b> , 7, P03005-P03005	1	2
86	First results from the HEPAPS4 active pixel sensor. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2009</b> , 598, 64-66	1.2	2
85	Publisher's Note: Evidence for CP Violation in Time-Integrated $D^0 \rightarrow \pi^+ \pi^-$ decay rates [Phys. Rev. Lett. 108, 111602 (2012)]. <i>Physical Review Letters</i> , <b>2012</b> , 108,	7.4	2
84	The ATLAS Semiconductor Tracker overview and status. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 494, 102-106	1.2	2
83	The LHCb vertex locator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2005</b> , 546, 72-75	1.2	2



82	Measurement of prompt charged-particle production in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	2
81	Analysis of Neutral B-Meson Decays into Two Muons.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 041801	7.4	2
80	Measurements of prompt charm production cross-sections in pp collisions at ( $\sqrt{s}=13$ ) TeV <b>2016</b> , 2016, 1		2
79	Observation of double charm production involving open charm in pp collisions at ( $\sqrt{s} = 7$ ;{text{TeV}}) <b>2012</b> , 2012, 1		2
78	Measurements of the S-wave fraction in $B^0 \rightarrow K^+ K^-$ decays and the $B^0 \rightarrow K^*(892)^0 K^+ K^-$ differential branching fraction <b>2016</b> , 2016, 1		2
77	Search for the doubly heavy ( $\Xi_{bc}^0$ ) baryon via decays to $D^0 p K^0$ <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	2
76	Isospin Amplitudes in $B^0 \rightarrow \pi^+ \pi^-$ and $B^0 \rightarrow \pi^0 \pi^0$ Decays. <i>Physical Review Letters</i> , <b>2020</b> , 124, 111802	7.4	2
75	Observation of the ( $B_s^0 \rightarrow D^+ D^-$ ) decay. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
74	Measurement of CP observables in $B^0 \rightarrow D^{(*)} K^0$ and $B^0 \rightarrow D^{(*)} \pi^0$ decays using two-body D final states. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
73	Measurement of the branching fraction of the ( $B^0 \rightarrow D^+_{s1} \pi^-$ ) decay. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	2
72	The LHCb VELO Upgrade. <i>Nuclear and Particle Physics Proceedings</i> , <b>2016</b> , 273-275, 1079-1083	0.4	2
71	Measurement of CP-Violating and Mixing-Induced Observables in $B_{s1}^0 \rightarrow \pi^0$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 123, 081802	7.4	2
70	Study of ( $B_{s1}^0 \rightarrow J/\psi K^+ K^-$ ) decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	2
69	Measurement of Z $\rightarrow \mu^+ \mu^-$ production in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	2
68	Measurement of CP violation in $B^0 \rightarrow D^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	2
67	Observation of new excited $B^0_{s1}$ states. <i>European Physical Journal C</i> , <b>2021</b> , 81,	4.2	2
66	Search for CP violation in $B^0 \rightarrow K^+ K^-$ decays. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	2
65	Measurement of CP observables in the process $B^0 \rightarrow D^+ K^0$ with two- and four-body D decays. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	1

64	Physics benchmarks of the VELO upgrade. <i>Journal of Instrumentation</i> , <b>2016</b> , 11, C12066-C12066	1	1
63	Constraints on the $K_{S^0} \rightarrow \pi^+ \pi^-$ Branching Fraction. <i>Physical Review Letters</i> , <b>2020</b> , 125, 231801	7.4	1
62	Measurement of the branching fraction of the decay $B_{s0} \rightarrow K_S^0 K_S^0$ . <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	1
61	First observation of the decay $B^0 \rightarrow D^0 K^+ \pi^-$ . <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	1
60	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
59	Radiation Damage Effects and Operation of the LHCb Vertex Locator. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 1127-1132	1.7	1
58	Measurement of the ratio of branching fractions of the decays $B^0 \rightarrow \rho^+ \pi^-$ and $B^0 \rightarrow \rho^0 \pi^0$ . <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	1
57	Measurement of the branching fraction and (C)P asymmetry in $(B^+ \rightarrow J/\psi \rho^+)$ decays. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	1
56	Search for the $B^0 \rightarrow \rho^+ \pi^-$ decay. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1	5.4	1
55	Search for Baryon-Number Violating $[b]^0$ Oscillations. <i>Physical Review Letters</i> , <b>2017</b> , 119, 181807	7.4	1
54	High speed electrical transmission line design and characterization. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, C02002-C02002	1	1
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52	Characterisation of HEPAPS4A family of CMOS active pixel sensors for charged particle detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2009</b> , 604, 404-407	1.2	1
51	3D silicon strip detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2009</b> , 604, 234-237	1.2	1
50	Synchrotron tests of 3D Medipix2 and TimePix X-ray detectors <b>2009</b> ,		1
49	Evaluation of MCM-D technology for silicon strip detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 623, 162-164	1.2	1
48	The LHCb VELO: status and upgrade developments. <i>IEEE Transactions on Nuclear Science</i> , <b>2006</b> , 53, 1689-1693	1.6	1
47	Measurement of the $B_{s0} \rightarrow \pi^+ \pi^-$ decay properties and search for the $B^0 \rightarrow \pi^+ \pi^-$ and $B_{s0} \rightarrow \pi^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2022</b> , 105,	4.9	1

46	Measurement of the relative branching fractions of $B^+ \rightarrow \bar{h} h^+ h^+ h^+$ decays. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	1
45	Observation of the semileptonic decay $B^+ \rightarrow \bar{p} \mu^+ \nu_{\mu}$ . <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020,	5.4	1
44	Angular analysis of the rare decay $(B_s^0) \rightarrow \bar{p} \mu^+ \nu_{\mu}$ . <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
43	Measurement of $J/\psi$ production cross-sections in pp collisions at $(\sqrt{s}) = 5$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
42	Measurement of the shape of the $(B_s^0 \rightarrow D_s^{\pm} \mu^{\mp} \nu_{\mu})$ differential decay rate. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
41	Observation of Enhanced Double Parton Scattering in Proton-Lead Collisions at $\sqrt{s_{NN}}=8.16$ TeV. <i>Physical Review Letters</i> , <b>2020</b> , 125, 212001	7.4	1
40	Precision measurement of the $(B_c^+)$ meson mass. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	1
39	Measurements of $\sigma_{\text{had}}$ and $\sigma_{\text{had}}^{\text{ch}}$ charged-current cross-sections without detected pions or protons on water and hydrocarbon at a mean anti-neutrino energy of 0.86 GeV. <i>Progress of Theoretical and Experimental Physics</i> , <b>2021</b> , 2021,	5.4	1
38	Measurement of CP Violation in the Decay $B^+ \rightarrow K^+ \pi^0$ . <i>Physical Review Letters</i> , <b>2021</b> , 126, 091802	7.4	1
37	Observation of CP violation in two-body $(B_{(s)}^0)$ -meson decays to charged pions and kaons. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
36	Search for the rare decay $B^0 \rightarrow \bar{f} \ell^+ \nu^*$ . <i>Chinese Physics C</i> , <b>2021</b> , 45, 043001	2.2	1
35	Search for CP violation in $(D_{(s)}^+ \rightarrow h^+ \pi^0)$ and $(D_{(s)}^+ \rightarrow h^+ \eta)$ decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
34	Measurement of differential $(\bar{b})$ - and $(\bar{c})$ -dijet cross-sections in the forward region of pp collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	1
33	Measurement of the CP asymmetry in $B \rightarrow D$ and $B \rightarrow D^0$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	1
32	Simulation and Optimization Studies of the LHCb Beetle Readout ASIC and Machine Learning Approach for Pulse Shape Reconstruction. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
31	Search for the radiative $\chi_{b^{\pm}}$ decay. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0
30	Precise determination of the $B_{\text{osc}}$ oscillation frequency. <i>Nature Physics</i> , <b>2022</b> , 18, 1-5	16.2	0
29	Measurement of the W boson mass. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0

28	Measurement of $\Xi(3872)$ production in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
27	Evidence for a New Structure in the $J/\psi$ and $J/\psi[\text{over } \chi]$ Systems in $B_{s^0} \rightarrow \psi/\psi[\text{over } \chi] p[\text{over } \chi]$ Decays.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 062001	7.4	○
26	Measurement of CP violation in $B^0 \rightarrow D^* D^0$ decays. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	○
25	First measurement of the (CP)-violating phase in $(\{B^0_{s^0} \rightarrow J/\psi\} (e^+e^-))(\phi)$ decays. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	○
24	Observation of a $(\lambda_b) \chi[\text{overline } \lambda_b]$ production asymmetry in proton-proton collisions at $(\sqrt{s}) = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
23	Measurement of the CKM angle $\Delta$ and $(B_{s^0} \rightarrow \overline{B}_{s^0})$ mixing frequency with $(B_{s^0} \rightarrow D_{s^0}^{\pm} h^{\pm} \pi^{\pm} \pi^{\mp})$ decays. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
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21	Observation of the decay $(\lambda_{\text{charm}}) \rightarrow \psi p$ . <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
20	Searches for 25 rare and forbidden decays of $D^+$ and $(D_{s^+})$ mesons. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
19	Measurement of CP violation in the $(B_{s^0} \rightarrow \phi \phi)$ decay and search for the $B^0 \rightarrow \psi$ decay. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	○
18	Measurement of the CKM angle $\Delta$ in $B^0 \rightarrow D^* K^0$ and $B^0 \rightarrow D^* D^0$ decays with $D \rightarrow (K_{\text{charm}}^0) h^{\pm}$ . <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	○
17	Observation of the decay $(\overline{B}_{s^0} \rightarrow \chi_{c2}^+ K^+)$ in the $B$ mass region. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	○
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15	Observation of the Mass Difference between Neutral Charm-Meson Eigenstates. <i>Physical Review Letters</i> , <b>2021</b> , 127, 111801	7.4	○
14	Identification of charm jets at LHCb. <i>Journal of Instrumentation</i> , <b>2022</b> , 17, P02028	1	○
13	Study of Z Bosons Produced in Association with Charm in the Forward Region.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 082001	7.4	○
12	Measurement of the Nuclear Modification Factor and Prompt Charged Particle Production in p-Pb and pp Collisions at $\sqrt{s_{NN}} = 5$ TeV.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 142004	7.4	○
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- 4 LHCb vertex locator, overview and recent progress. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2006**, 569, 25-28 1.2
- 3 Angular analysis of  $(B^0 \rightarrow D^{*+} D_s^{*-})$  with  $(D_s^{*+} \rightarrow D_s^+ \gamma)$  decays. *Journal of High Energy Physics*, **2021**, 2021, 1 5.4
- 2 Readout firmware of the Vertex Locator for LHCb Run 3 and beyond. *IEEE Transactions on Nuclear Science*, **2021**, 1-1 1.7
- 1 Updated search for  $B_c^+$  decays to two charm mesons. *Journal of High Energy Physics*, **2021**, 2021, 1 5.4