

Tomasz Szumlak

List of Publications by Year in Descending Order

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Version: 2024-04-20

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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.

580
papers

21,788
citations

66
h-index

124
g-index

591
ext. papers

25,050
ext. citations

5.1
avg. IF

6.34
L-index

#	Paper	IF	Citations
580	The LHCb vertex locator upgrade II: the detector calibration overview. <i>Journal of Instrumentation</i> , 2022 , 17, C01046	1	
579	A Comparison of CPU and GPU Implementations for the LHCb Experiment Run 3 Trigger. <i>Computing and Software for Big Science</i> , 2022 , 6,	6	1
578	First measurement of the (CP)-violating phase in $(B^0 \rightarrow J/\psi) (e^+e^-)(\phi)$ decays. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	0
577	Comparison of selected general-purpose event generators for particle fluence simulation in LHC silicon trackers. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	
576	Search for heavy neutral leptons in $(W^+ \rightarrow \mu^+ \mu^{\pm}, \text{jet})$ decays. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	3
575	Search for the rare decay $B^0 \rightarrow \mu^+ \mu^-$. <i>Chinese Physics C</i> , 2021 , 45, 043001	2.2	1
574	Measurement of the branching fraction of the $(B^0 \rightarrow D^+_{s1} \pi^-)$ decay. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	2
573	Reconstruction of Long-Lived Particles in LHCb CERN Project by Data Analysis and Computational Intelligence Methods. <i>Lecture Notes in Computer Science</i> , 2021 , 293-300	0.9	
572	Search for long-lived particles decaying to $(e^{\pm} \mu^{\pm}) (\mu^{\pm} \mu^{\pm}) (\nu)$. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	3
571	Simulation and Optimization Studies of the LHCb Beetle Readout ASIC and Machine Learning Approach for Pulse Shape Reconstruction. <i>Sensors</i> , 2021 , 21,	3.8	1
570	Measurement of the $(\eta_c(1S))$ production cross-section in $(p-p)$ collisions at $(\sqrt{s} = 13)$ (TeV). <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	9
569	Search for CP violation in $(\chi^0 \rightarrow p \bar{K}^0 \pi^0)$ decays using model-independent techniques. <i>European Physical Journal C</i> , 2020 , 80, 1	4.2	7
568	The upgrade I of LHCb VELO: towards an intelligent monitoring platform. <i>Journal of Instrumentation</i> , 2020 , 15, C06009-C06009	1	2
567	Silicon detectors for the LHC Phase-II upgrade and beyond RD50 Status report. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020 , 958, 162187	1.2	3
566	Search for the rare decay $(B^+ \rightarrow \mu^+ \mu^- \mu^+ \nu_{\mu})$. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	8
565	Measurement of the Charm-Mixing Parameter y_{CP} . <i>Physical Review Letters</i> , 2019 , 122, 011802	7.4	8
564	Search for CP violation through an amplitude analysis of $D^0 \rightarrow K^+ K^-$ decays. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	2

563	Measurement of the branching fraction and (C!P) asymmetry in ($B^+ \rightarrow J/\psi \rho^+$) decays. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	1
562	Prompt B_c production in pPb collisions at ($\sqrt{s_{\text{NN}}}=5.02$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	10
561	Development of the LHCb VELO Detector Modules into a Standalone, Non-Invasive Online Beam Monitor for Medical Accelerators. <i>Instruments</i> , 2019 , 3, 1	1.2	2
560	Events reconstruction at 30 MHz for the LHCb upgrade. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 936, 356-357	1.2	1
559	Observation of Two Resonances in the $B^0 \rightarrow \pi^+ \pi^-$ Systems and Precise Measurement of $B^0 \rightarrow \pi^+ \pi^-$ and $B^0 \rightarrow \pi^+ \pi^0$ Properties. <i>Physical Review Letters</i> , 2019 , 122, 012001	7.4	29
558	Search for excited $B + c$ states. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	13
557	Search for Dark Photons Produced in 13 TeV pp Collisions. <i>Physical Review Letters</i> , 2018 , 120, 061801	7.4	75
556	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> , 2018 , 776, 430-439	4.2	1
555	Measurement of CP observables in $B^0 \rightarrow D^+ K^-$ and $B^0 \rightarrow D^+ \bar{K}^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 777, 16-30	4.2	10
554	A measurement of the CP asymmetry difference between $\Lambda^0 \rightarrow p \bar{K}^0$ and $p \rightarrow \Lambda^0$ decays. <i>Journal of High Energy Physics</i> , 2018 , 2018,	5.4	9
553	Measurement of CP asymmetry in $B^0 \rightarrow \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	4
552	Search for the lepton-flavour violating decays $B^0 \rightarrow \tau^+ \tau^-$. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	15
551	First measurement of the CP-violating phase (ϕ_s^{dotted}) in $B^0 \rightarrow \pi^+ \pi^- K^0$ decays. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	6
550	Radiation Damage Effects and Operation of the LHCb Vertex Locator. <i>IEEE Transactions on Nuclear Science</i> , 2018 , 65, 1127-1132	1.7	1
549	Test of lepton flavor universality by the measurement of the $B^0 \rightarrow D^{*+} \pi^-$ branching fraction using three-prong π decays. <i>Physical Review D</i> , 2018 , 97,	4.9	106
548	Measurement of the Ratio of the $B^0 \rightarrow D^{*+} \pi^-$ and $B^0 \rightarrow D^{*+} \pi^0$ Branching Fractions Using Three-Prong π Lepton Decays. <i>Physical Review Letters</i> , 2018 , 120, 171802	7.4	126
547	Measurement of the Ratio of Branching Fractions $B(B_{c^+} \rightarrow \pi^+ \pi^0)/B(B_{c^+} \rightarrow \pi^+ \pi^+)$. <i>Physical Review Letters</i> , 2018 , 120, 121801	7.4	109
546	Search for B_{c^+} decays to two charm mesons. <i>Nuclear Physics B</i> , 2018 , 930, 563-582	2.8	4

545	Measurement of the Lifetime of the Doubly Charmed Baryon Ξ_{cc}^{++} . <i>Physical Review Letters</i> , 2018 , 121, 052002	7.4	44
544	Measurement of branching fractions of charmless four-body B^0 and B^+ decays. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	8
543	Observation of the decay $B^0 \rightarrow \pi^+ \pi^- \pi^0$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 784, 101-111	4.2	7
542	Observation of a New Ξ_b^0 Resonance. <i>Physical Review Letters</i> , 2018 , 121, 072002	7.4	50
541	Evidence for the Rare Decay $B^0 \rightarrow \pi^+ \pi^- \pi^0$. <i>Physical Review Letters</i> , 2018 , 120, 221803	7.4	8
540	Central Exclusive Production Measurements in the LHCb. <i>Acta Physica Polonica B</i> , 2018 , 49, 1135	1.9	2
539	Central exclusive production of J/ψ and $\psi(2S)$ mesons in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018,	5.4	13
538	Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K^0 S^0$ decays. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	4
537	Study of η production in pPb collisions at $(\sqrt{s_{\text{NN}}}) = 8.16$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	8
536	Mapping the material in the LHCb vertex locator using secondary hadronic interactions. <i>Journal of Instrumentation</i> , 2018 , 13, P06008-P06008	1	10
535	Search for beautiful tetraquarks in the $\psi(1S)$ invariant-mass spectrum. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	21
534	Search for CP violation in $B^0 \rightarrow \pi^+ \pi^-$ and $B^0 \rightarrow \pi^0 \pi^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 787, 124-133	4.2	9
533	Search for lepton-flavour-violating decays of Higgs-like bosons. <i>European Physical Journal C</i> , 2018 , 78, 1008	4.2	3
532	Evidence for an resonance in decays. <i>European Physical Journal C</i> , 2018 , 78, 1019	4.2	26
531	Observation of the decay $B_s^0 \rightarrow D^0 K^+ K^-$. <i>Physical Review D</i> , 2018 , 98,	4.9	6
530	Observation of $B_s^0 \rightarrow D^0 \pi^0$ and search for $B^0 \rightarrow D^0 \pi^0$ decays. <i>Physical Review D</i> , 2018 , 98,	4.9	5
529	Measurement of Antiproton Production in p-He Collisions at $\sqrt{s_{\text{NN}}} = 110$ GeV. <i>Physical Review Letters</i> , 2018 , 121, 222001	7.4	22
528	Measurement of the inelastic pp cross-section at a centre-of-mass energy of 13 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	12

527	Measurement of χ production in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	6
526	Measurement of forward top pair production in the dilepton channel in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	4
525	Observation of the decay ($\overline{B}_s^0 \rightarrow \chi_{c2} K^+ K^-$) in the χ mass region. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	0
524	Search for a dimuon resonance in the χ mass region. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
523	Studies of the resonance structure in decays. <i>European Physical Journal C</i> , 2018 , 78, 443	4.2	11
522	Angular moments of the decay $B \rightarrow \mu^+ \mu^-$ at low hadronic recoil. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	17
521	Measurement of Z production in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	2
520	Measurement of D^0 production asymmetry in pp collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	4
519	Measurement of Angular and CP Asymmetries in $D^0 \rightarrow \mu^+ \mu^-$ and $D^0 \rightarrow K^+ K^-$ Decays. <i>Physical Review Letters</i> , 2018 , 121, 091801	7.4	8
518	Measurement of the Λ_c^0 Baryon Lifetime. <i>Physical Review Letters</i> , 2018 , 121, 092003	7.4	12
517	Evidence for the decay ($B_s^0 \rightarrow \overline{K}^{*0} \mu^+ \mu^-$). <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	15
516	Measurement of CP asymmetries in two-body $B(s)$ -meson decays to charged pions and kaons. <i>Physical Review D</i> , 2018 , 98,	4.9	13
515	Observation of the decay $B \rightarrow (2S) p$. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	5
514	Measurement of the CP asymmetry in $B \rightarrow D$ and $B \rightarrow D^0$ decays. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	1
513	Search for CP violation using triple product asymmetries in $B \rightarrow \mu^+ \mu^- K$ and $B \rightarrow \mu^+ \mu^- K^*$ decays. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	7
512	Updated determination of D^0 mixing and CP violation parameters with $D^0 \rightarrow K^+ K^-$ decays. <i>Physical Review D</i> , 2018 , 97,	4.9	11
511	Search for the rare decay $B \rightarrow \mu^+ \mu^-$. <i>Physical Review D</i> , 2018 , 97,	4.9	9
510	Search for weakly decaying b-flavored pentaquarks. <i>Physical Review D</i> , 2018 , 97,	4.9	5

509	First observation of $B^+ \rightarrow D^+ s K^+ K^0$ decays and a search for $B^+ \rightarrow D^+ s ?$ decays. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	6
508	Measurements of the branching fractions of $B^+ \rightarrow \rho^0 \pi^+$, $B^+ \rightarrow \rho^0 K^+$, and $B^+ \rightarrow \rho^0 K^+$. <i>Journal of High Energy Physics</i> , 2018 , 2018,	5.4	8
507	Measurement of CP violation in $B^0 \rightarrow D^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1	5.4	2
506	Amplitude Analysis of the Decay $B^0 \rightarrow \rho^0 K^+ K^-$ and First Observation of the CP Asymmetry in $B^0 \rightarrow \rho^0 K^+ K^-$. <i>Physical Review Letters</i> , 2018 , 120, 261801	7.4	7
505	Search for the CP-violating strong decays $B^0 \rightarrow \rho^0 \pi^0$ and $B^0 \rightarrow \rho^0 \pi^0$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 764, 233-240	4.2	7
504	Search for the suppressed decays $B^+ \rightarrow K^+ K^0$ and $B^+ \rightarrow \rho^0 K^0$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 765, 307-316	4.2	8
503	Measurement of matter-antimatter differences in beauty baryon decays. <i>Nature Physics</i> , 2017 , 13, 391-396	6.2	45
502	Amplitude analysis of $B^+ \rightarrow \rho^0 K^+$ decays. <i>Physical Review D</i> , 2017 , 95,	4.9	56
501	Observation of J/ψ Structures Consistent with Exotic States from Amplitude Analysis of $B^+ \rightarrow \rho^0 K^+$ Decays. <i>Physical Review Letters</i> , 2017 , 118, 022003	7.4	98
500	Observation of the Annihilation Decay Mode $B^0 \rightarrow \rho^+ K^-$. <i>Physical Review Letters</i> , 2017 , 118, 081801	7.4	18
499	First Experimental Study of Photon Polarization in Radiative $B_{s^0}^0$ Decays. <i>Physical Review Letters</i> , 2017 , 118, 021801	7.4	16
498	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> , 2017 , 767, 110-120	4.2	4
497	Observation of the decay $B_s^0 \rightarrow \rho^0 \pi^0$ and evidence for $B^0 \rightarrow \rho^0 \pi^0$. <i>Physical Review D</i> , 2017 , 95,	4.9	17
496	Measurement of the b-Quark Production Cross Section in 7 and 13 TeV pp Collisions. <i>Physical Review Letters</i> , 2017 , 118, 052002	7.4	36
495	Measurement of the phase difference between short- and long-distance amplitudes in the $B^0 \rightarrow \rho^0 \pi^0$ decay. <i>European Physical Journal C</i> , 2017 , 77, 161	4.2	25
494	Study of the $D^0 \rightarrow \rho^0 \pi^0$ amplitude in $B^0 \rightarrow D^0 \rho^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	33
493	Search for massive long-lived particles decaying semileptonically in the LHCb detector. <i>European Physical Journal C</i> , 2017 , 77, 224	4.2	35
492	Observation of $B^0 \rightarrow \rho^0 \pi^0$ and $B^0 \rightarrow \rho^0 \pi^0$ decays. <i>European Physical Journal C</i> , 2017 , 77, 72	4.2	4

491	Measurement of CP asymmetry in $D^0 \rightarrow K^+ K^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 767, 177-187	4.2	11
490	Observation of the Decay $B^0 \rightarrow \rho^+ K^-$. <i>Physical Review Letters</i> , 2017 , 118, 071801	7.4	7
489	Search for long-lived scalar particles in $B \rightarrow K + \text{invisible}$ decays. <i>Physical Review D</i> , 2017 , 95,	4.9	48
488	Study of prompt D^0 meson production in pPb collisions at $(\sqrt{s_{\text{NN}}}) = 5$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	27
487	Prompt and nonprompt J/ψ production and nuclear modification in pPb collisions at $\sqrt{s_{\text{NN}}} = 8.16$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 774, 159-178	4.2	26
486	Observation of charmless baryonic decays $B(s) \rightarrow \rho^+ \Lambda^0$. <i>Physical Review D</i> , 2017 , 96,	4.9	5
485	Study of charmonium production in π -hadron decays and first evidence for the decay. <i>European Physical Journal C</i> , 2017 , 77, 609	4.2	10
484	Improved limit on the branching fraction of the rare decay. <i>European Physical Journal C</i> , 2017 , 77, 678	4.2	7
483	Observation of $B_c \rightarrow \rho^0 K^*$ decays. <i>Physical Review D</i> , 2017 , 95,	4.9	8
482	Measurements of charm mixing and CP violation using $D^0 \rightarrow K^+ K^-$ decays. <i>Physical Review D</i> , 2017 , 95,	4.9	8
481	Measurement of the B^0 production asymmetry and the CP asymmetry in $B^0 \rightarrow \rho^+ K^-$ decays. <i>Physical Review D</i> , 2017 , 95,	4.9	6
480	Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B^0 \rightarrow \rho^+ K^-$ and $B^0 \rightarrow \rho^0 K^+$. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	2
479	Search for the $B^0 \rightarrow \rho^0 \gamma$ decay. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	1
478	Observation of the decay $B^0 \rightarrow \rho^+ K^-$ and a search for CP violation. <i>Journal of High Energy Physics</i> , 2017 , 2017,	5.4	5
477	Measurement of B_{s}^0 and D_{s}^0 Meson Lifetimes. <i>Physical Review Letters</i> , 2017 , 119, 101801	7.4	10
476	Observation of the Doubly Charmed Baryon Ξ_{cc}^{++} . <i>Physical Review Letters</i> , 2017 , 119, 112001	7.4	257
475	Measurement of the CP Violation Parameter A_{FB}^0 in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \rho^+ \rho^-$ Decays. <i>Physical Review Letters</i> , 2017 , 118, 261803	7.4	11
474	Observation of $B_{\text{c}}^+ \rightarrow D^0 K^+$ Decays. <i>Physical Review Letters</i> , 2017 , 118, 111803	7.4	13

473	Observation of Five New Narrow χ_{c0} States Decaying to $\chi_{c^+}K^-$. <i>Physical Review Letters</i> , 2017 , 118, 182001	7.4	154
472	Measurement of CP asymmetries in $D^0 \rightarrow \pi^0 \pi^0$ and $D_s^0 \rightarrow \pi^0 \pi^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 771, 21-30	4.2	6
471	Observation of $D(2S) \rightarrow \rho p$ and search for $X(3872) \rightarrow \rho p$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 769, 305-313	4.2	16
470	Observation of the $B^0 \rightarrow \pi^0 \pi^0$ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 772, 265-273	4.2	15
469	Measurement of the $B_{s^0} \rightarrow \pi^0 \pi^0$ Branching Fraction and Effective Lifetime and Search for $B^0 \rightarrow \pi^+ \pi^-$ Decays. <i>Physical Review Letters</i> , 2017 , 118, 191801	7.4	106
468	Study of J/ψ Production in Jets. <i>Physical Review Letters</i> , 2017 , 118, 192001	7.4	20
467	Observation of the Decays $\Lambda_b^0 \rightarrow \pi^+ p K^-$ and $\Lambda_b^0 \rightarrow \pi^+ n K^-$. <i>Physical Review Letters</i> , 2017 , 119, 062001	7.4	22
466	Observation of the $B^+ \rightarrow \pi^+ K_S^0$ decay. <i>Physical Review D</i> , 2017 , 96,	4.9	2
465	Search for the Decays $B_{s^0} \rightarrow \pi^+ \pi^-$ and $B^0 \rightarrow \pi^+ \pi^-$. <i>Physical Review Letters</i> , 2017 , 118, 251802	7.4	40
464	Measurement of the shape of the $B^0 \rightarrow \pi^0 \pi^0$ differential decay rate. <i>Physical Review D</i> , 2017 , 96,	4.9	23
463	Observation of the suppressed decay $\Lambda_b^0 \rightarrow \pi^0 p \pi^0$. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	10
462	Test of lepton universality with $B^0 \rightarrow K^* \pi^0$ decays. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	298
461	χ_{c1} and χ_{c2} Resonance Parameters with the Decays $\chi_{c1,2} \rightarrow \pi^+ \pi^-$. <i>Physical Review Letters</i> , 2017 , 119, 221801	7.4	8
460	Observation of D^0 Meson Decays to $\pi^+ \pi^- \pi^0$ and $K^+ K^- \pi^0$ Final States. <i>Physical Review Letters</i> , 2017 , 119, 181805	7.4	14
459	Search for Baryon-Number Violating Λ_b^0 Oscillations. <i>Physical Review Letters</i> , 2017 , 119, 181807	7.4	1
458	Measurement of the J/ψ pair production cross-section in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	25
457	New algorithms for identifying the flavour of [Formula: see text] mesons using pions and protons. <i>European Physical Journal C</i> , 2017 , 77, 238	4.2	4
456	Measurements of prompt charm production cross-sections in pp collisions at $s = 5 \sqrt{s}=5$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017,	5.4	16

455	Search for CP violation in the phase space of $D^0 \rightarrow \pi^+ \pi^- \pi^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 769, 345-356	4.2	7
454	Evidence for the two-body charmless baryonic decay ($\{B\}^+ \rightarrow \overline{\Lambda} p$). <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	4
453	Real time analysis with the upgraded LHCb trigger in Run III. <i>Journal of Physics: Conference Series</i> , 2017 , 898, 032051	0.3	
452	The LHCb Vertex Locator Upgrade. <i>Journal of Instrumentation</i> , 2017 , 12, C12054-C12054	1	1
451	First Observation of the Rare Purely Baryonic Decay $B^0 \rightarrow \overline{p} p$. <i>Physical Review Letters</i> , 2017 , 119, 232001	7.4	4
450	Resonances and CP violation in $B^0 \rightarrow J/\psi K^+ K^-$ decays in the mass region above the $\chi(1020)$. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	13
449	Study of ($\overline{b} b$) correlations in high energy proton-proton collisions. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	5
448	Measurement of CP observables in $B^0 \rightarrow DK^* \pi$ decays using two- and four-body D final states. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	4
447	Measurement of B^0 , B_s^0 , B^+ and B^0 production asymmetries in 7 and 8 TeV proton-proton collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017 , 774, 139-158	4.2	10
446	Measurement of CP violation in $B^0 \rightarrow J/\psi K^0$ and $B^0 \rightarrow \psi(2S) K^0$ decays. <i>Journal of High Energy Physics</i> , 2017 , 2017,	5.4	2
445	First Observation of a Baryonic $B_{s^0}^0$ Decay. <i>Physical Review Letters</i> , 2017 , 119, 041802	7.4	10
444	Updated search for long-lived particles decaying to jet pairs. <i>European Physical Journal C</i> , 2017 , 77, 812	4.2	23
443	Updated branching fraction measurements of $B^0 \rightarrow K^0 \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , 2017 , 2017,	5.4	4
442	Search for decays of neutral beauty mesons into four muons. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	7
441	Observation of the decay $B^0 \rightarrow \pi^+ \pi^-$ and evidence for $B^0 \rightarrow \pi^+ \pi^- \pi^0$. <i>Journal of High Energy Physics</i> , 2017 , 2017,	5.4	6
440	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> , 2017 , 2017, 1	5.4	3
439	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> , 2017 , 2017,	5.4	8
438	Measurement of the $Y(nS)$ polarizations in pp collisions at ($\sqrt{s}=7$) and 8 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1	5.4	6

437	Automatised data quality monitoring of the LHCb Vertex Locator. <i>Journal of Physics: Conference Series</i> , 2017 , 898, 092046	0.3	2
436	Measurement of the CP Asymmetry in $B_{s^0} \rightarrow B_{\text{mix}}^0$ Mixing. <i>Physical Review Letters</i> , 2016 , 117, 061803	7.4	18
435	Model-Independent Evidence for J/ψ Contributions to $B_{\text{mix}}^0 \rightarrow \psi K^0$ Decays. <i>Physical Review Letters</i> , 2016 , 117, 082002	7.4	85
434	Evidence for Exotic Hadron Contributions to $B_{\text{mix}}^0 \rightarrow \psi K^0$ Decays. <i>Physical Review Letters</i> , 2016 , 117, 082003	7.4	91
433	Studies of the resonance structure in $D^0 \rightarrow K_S^0 \pi^0$ decays. <i>Physical Review D</i> , 2016 , 93,	4.9	13
432	Measurement of the mass and lifetime of the Λ_b baryon. <i>Physical Review D</i> , 2016 , 93,	4.9	6
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430	First observation of the rare $B^+ \rightarrow D^+ K^0 \pi^0$ decay. <i>Physical Review D</i> , 2016 , 93,	4.9	3
429	Measurement of the $B_s^0 \rightarrow D_s^{(*)+} D_s^{(*)-}$ branching fractions. <i>Physical Review D</i> , 2016 , 93,	4.9	3
428	Constraints on the unitarity triangle angle Γ from Dalitz plot analysis of $B^0 \rightarrow D^+ K^- \pi^0$ decays. <i>Physical Review D</i> , 2016 , 93,	4.9	6
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424	Search for Structure in the $B_{\text{mix}}^0 \pi^0$ Invariant Mass Spectrum. <i>Physical Review Letters</i> , 2016 , 117, 152003	7.4	64
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420	Study of $\Upsilon(2S)$ production and cold nuclear matter effects in pPb collisions at $(\sqrt{s_{NN}} = 5) \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	10

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418	Measurements of prompt charm production cross-sections in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	65
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411	A precise measurement of the [Formula: see text] meson oscillation frequency. <i>European Physical Journal C</i> , 2016 , 76, 412	4.2	6
410	Search for Higgs-like bosons decaying into long-lived exotic particles. <i>European Physical Journal C</i> , 2016 , 76, 664	4.2	16
409	Observations of $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow K^+ K^0$ decays and searches for other D^0 and D^0 decays to $B^+ h^0$ final states. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	17
408	Measurement of forward W and Z boson production in association with jets in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	8
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406	Measurement of the properties of the Λ^0 baryon. <i>Journal of High Energy Physics</i> , 2016 , 2016,	5.4	15
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404	Measurement of the CKM angle Γ using $B^0 \rightarrow K^+ K^-$ with $D^0 \rightarrow K^+ K^-$ decays. <i>Journal of High Energy Physics</i> , 2016 , 2016,	5.4	6
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402	Measurement of the ratio of branching fractions ($\frac{\mathcal{B}(B^0 \rightarrow K^+ K^-)}{\mathcal{B}(B^0 \rightarrow K^+ K^0)}$) using $B^0 \rightarrow K^+ K^-$ decays. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1	5.4	5

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385	Observation of the $B^0 \rightarrow \mu^+ \mu^-$ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 759, 282-292	4.2	12
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353	Observation of the $B(s)(0) \rightarrow K^* K^0$ Decay. <i>Physical Review Letters</i> , 2015 , 115, 051801	7.4	7
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348	Bflavour tagging using charm decays at the LHCb experiment. <i>Journal of Instrumentation</i> , 2015 , 10, P10005-P10005	7.4	1005

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344	Measurement of the exclusive \overline{D}^0 production cross-section in pp collisions at ($\sqrt{s}=7$) TeV and 8 TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	42
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341	Measurement of the forward-backward asymmetry in $Z/\overline{D}^0 \rightarrow \overline{D}^0$ decays and determination of the effective weak mixing angle. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	22
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339	First measurement of the differential branching fraction and CP asymmetry of the $B_s^0 \rightarrow \overline{D}^0 \pi^+ \pi^0$ decay. <i>Journal of High Energy Physics</i> , 2015 , 2015,	5-4	27
338	Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow \overline{K}^0 K^0$ decays. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	11
337	Measurement of CP violation parameters and polarisation fractions in ($B_s^0 \rightarrow \overline{J}/\psi \overline{K}^0$) decays. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	12
336	Measurement of forward $Z \rightarrow e^+e^-$ production at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1	5-4	17
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305	Observation of the $D^0 \rightarrow b \rightarrow \pi$ decay. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	29
304	Observation of the $B^0 \rightarrow \pi^+ \pi^- K^0$ decay. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	5
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301	Measurement of φ production in pp collisions at $\sqrt{s} = 2.76$ TeV. <i>European Physical Journal C</i> , 2014 , 74,	4.2	23
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299	Measurement of polarisation in collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2014 , 74, 2872	4.2	35
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294	Observation of the resonant character of the $Z(4430)^-$ state. <i>Physical Review Letters</i> , 2014 , 112, 222002	7.4	234

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291	Performance of the LHCb Vertex Locator. <i>Journal of Instrumentation</i> , 2014 , 9, P09007-P09007	1	129
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288	Measurement of the CP-violating phase ϕ_s in $B_s(0) \rightarrow D_s(+/-) D_s(-/+)$ decays. <i>Physical Review Letters</i> , 2014 , 113, 211801	7.4	17
287	Measurement of CP violation parameters in $B_0 \rightarrow D K^* 0$ decays. <i>Physical Review D</i> , 2014 , 90,	4.9	11
286	Measurements of CP violation in the three-body phase space of charmless $B \rightarrow \pi \pi$ decays. <i>Physical Review D</i> , 2014 , 90,	4.9	47
285	Updated measurements of exclusive J/ψ and $\psi(2S)$ production cross-sections in pp collisions at $\sqrt{s}=7$ TeV. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2014 , 41, 055002	2.9	83
284	Measurement of CP asymmetries in the decays $B^0 \rightarrow \bar{K}^* 0 \pi^+$ and $B^+ \rightarrow \bar{K}^* 0 \pi^+$. <i>Journal of High Energy Physics</i> , 2014 , 2014,	5.4	15
283	Observation of $B_{s^*}^0 \rightarrow \{K^+ K^{\mp} \} \{K^{\mp} K^{\pm} \}$ and evidence for $B_{s^*}^0 \rightarrow \{K^+ K^{\mp} \} \{K^{\mp} K^{\pm} \} \pi^0$ decays. <i>New Journal of Physics</i> , 2014 , 16, 123001	2.9	6
282	Measurement of CP violation and constraints on the CKM angle $\sin 2\beta$ with $D \rightarrow K S_0$ decays. <i>Nuclear Physics B</i> , 2014 , 888, 169-193	2.8	13
281	Measurement of the $B^0 \rightarrow B^0$ and $B_s^0 \rightarrow B_s^0$ production asymmetries in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 739, 218-228	4.2	22
280	First measurement of the charge asymmetry in beauty-quark pair production. <i>Physical Review Letters</i> , 2014 , 113, 082003	7.4	15
279	Evidence for CP violation in $B^+ \rightarrow \bar{p} p K^+$ decays. <i>Physical Review Letters</i> , 2014 , 113, 141801	7.4	14
278	First observation of a baryonic B_c^+ decay. <i>Physical Review Letters</i> , 2014 , 113, 152003	7.4	24
277	Measurement of resonant and CP components in $B_c^0 \rightarrow \bar{p} \pi^0$ decays. <i>Physical Review D</i> , 2014 , 89,	4.9	54
276	Search for Majorana neutrinos in $B^- \rightarrow \bar{p} \pi^0$ decays. <i>Physical Review Letters</i> , 2014 , 112, 131802	7.4	70

275	Measurement of the B_{c}^+ meson lifetime in D_s^+ decays. <i>Physical Review Letters</i> , 2014 , 113, 172001	7.4	10
274	Measurement of CP violation in the phase space of $B_{\text{c}}^+ \rightarrow K^+ \eta$ and $B_{\text{c}}^+ \rightarrow \eta \eta$ decays. <i>Physical Review Letters</i> , 2014 , 112, 011801	7.4	61
273	Measurement of the resonant and CP components in $B_{\text{c}}^+ \rightarrow \eta/\eta'$ decays. <i>Physical Review D</i> , 2014 , 90,	4.9	52
272	Observation of overlapping spin-1 and spin-3 $D_0 K^-$ resonances at mass 2.86 GeV/c ² . <i>Physical Review Letters</i> , 2014 , 113, 162001	7.4	61
271	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> , 2014 , 112, 111802	7.4	12
270	Dalitz plot analysis of $B_s^0 \rightarrow D^0 K^0$ decays. <i>Physical Review D</i> , 2014 , 90,	4.9	70
269	Measurements of indirect CP asymmetries in $D^0 \rightarrow K^- K^+$ and $D^0 \rightarrow \eta \eta$ decays. <i>Physical Review Letters</i> , 2014 , 112, 041801	7.4	18
268	Precision measurement of the mass and lifetime of the $\Lambda_b(0)$ baryon. <i>Physical Review Letters</i> , 2014 , 113, 032001	7.4	30
267	Test of lepton universality using $b^+ \rightarrow K^+ \eta$ decays. <i>Physical Review Letters</i> , 2014 , 113, 151601	7.4	542
266	Precision measurement of the mass and lifetime of the Λ_b baryon. <i>Physical Review Letters</i> , 2014 , 113, 242002	7.4	26
265	Measurement of CP violation in $B_s^0 \rightarrow \eta'$ decays. <i>Physical Review D</i> , 2014 , 90,	4.9	13
264	Study of Beauty Hadron Decays into Pairs of Charm Hadrons. <i>Physical Review Letters</i> , 2014 , 112,	7.4	21
263	Observation of $B(s)(0) \rightarrow J/\psi f_1(1285)$ decays and measurement of the $f_1(1285)$ mixing angle. <i>Physical Review Letters</i> , 2014 , 112, 091802	7.4	17
262	Measurement of the ratio of B_{c}^+ branching fractions to J/ψ and J/ψ final states. <i>Physical Review D</i> , 2014 , 90,	4.9	23
261	Studies of beauty baryon decays to $D^0 p$ and $\bar{D}^0 h$ final states. <i>Physical Review D</i> , 2014 , 89,	4.9	25
260	Observation of charmonium pairs produced exclusively in pp collisions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2014 , 41, 115002	2.9	10
259	Study of $\chi_{\text{c}}^{\text{b}}$ meson production in pp collisions at $\sqrt{s} = 7$ and 8 TeV. <i>European Physical Journal C</i> , 2014 , 74,	4.2	33
258	Search for CP violation using T-odd correlations in $D^0 \rightarrow K^+ K^-$ decays. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5.4	16

257	Search for CP violation in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow K^+ K^0$ decays. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5-4	8
256	First observations of the rare decays $B^+ \rightarrow K^+ \pi^+ \pi^-$ and $B^+ \rightarrow K^+ \pi^+ \pi^0$. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5-4	7
255	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> , 2014 , 2014, 1	5-4	17
254	Measurement of the CKM angle γ using $B^0 \rightarrow D^+ K^-$ with $D^0 \rightarrow K^+ K^-$ decays. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5-4	19
253	Measurement of CP asymmetry in $B^0 \rightarrow D^+ K^-$ decays. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5-4	10
252	Measurement of the forward W boson cross-section in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5-4	14
251	Measurement of the flavour-specific CP-violating asymmetry. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 728, 607-615	4-2	31
250	A study of CP violation in $B^0 \rightarrow D^+ K^-$ and $B^0 \rightarrow D^+ \pi^-$ decays with $D \rightarrow K^+ K^-$ final states. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014 , 733, 36-45	4-2	12
249	Study of forward Z + jet production in pp collisions at (\sqrt{s}) = 7 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1	5-4	20
248	Differential branching fraction and angular analysis of the decay ($B_s^0 \rightarrow \rho^+ \pi^-$). <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	86
247	Search for CP violation in $D^+ \rightarrow \rho^+ \pi^-$ and ($D_s^+ \rightarrow K_S^0 \pi^+$) decays. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	14
246	Precision measurement of D meson mass differences. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	48
245	Production of J/ψ and (Υ) mesons in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	58
244	Measurement of the $B^0 \rightarrow K^+ e^- e^+$ branching fraction at low dilepton mass. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	22
243	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> , 2013 , 2013, 1	5-4	4
242	Measurement of the fragmentation fraction ratio f_s/f_d and its dependence on B meson kinematics. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	78
241	Measurement of CP observables in $B^0 \rightarrow D^+ K^-$ with $D \rightarrow K^+ K^-$. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	6
240	Measurement of the cross-section for $Z \rightarrow e^+ e^-$ production in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5-4	43

239	Differential branching fraction and angular analysis of the $B^+ \rightarrow K^+ \pi^+ \pi^0$ decay. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	63
238	First evidence for the annihilation decay mode $B^+ \rightarrow D_s^+ \pi^0$. <i>Journal of High Energy Physics</i> , 2013 , 2013,	5.4	13
237	Measurement of J/ψ production in pp collisions at $(\sqrt{s}=2.76 \text{ TeV})$. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	28
236	Measurement of the forward energy flow in collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2013 , 73, 2421	4.2	17
235	Measurements of the branching fractions of [Formula: see text] decays. <i>European Physical Journal C</i> , 2013 , 73, 2462	4.2	19
234	Search for $D(s) \rightarrow \pi^+ \pi^0$ and $D(s) \rightarrow \pi^+ \pi^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 724, 203-212	4.2	30
233	Model-independent search for CP violation in $B^0 \rightarrow \pi^+ \pi^-$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 726, 623-633	4.2	19
232	Measurement of the time-dependent CP asymmetry in $B^0 \rightarrow \pi^+ \pi^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 721, 24-31	4.2	11
231	Branching fraction and CP asymmetry of the decays $B^+ \rightarrow K^+ K^0$ and $B^+ \rightarrow K^+ K^0$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 726, 646-655	4.2	9
230	First measurement of time-dependent CP violation in $(B_s^0 \rightarrow K^+ K^-)$ decays. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	25
229	Study of $B_{(s)}^0 \rightarrow K_{\text{charmless}}^0 \{h^+ h^{\prime -}\}$ decays with first observation of $B_s^0 \rightarrow K_{\text{charmless}}^0 \{K^{\pm} \pi^{\mp}\}$ and $B_s^0 \rightarrow K_{\text{charmless}}^0 \{\pi^+ \pi^-\}$. <i>Journal of High Energy Physics</i> , 2013 , 2013,	5.4	14
228	Measurement of the relative rate of prompt χ_0, χ_1 and χ_2 production at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	31
227	First evidence for the two-body charmless baryonic decay $B^0 \rightarrow \overline{p} \pi^+$. <i>Journal of High Energy Physics</i> , 2013 , 2013,	5.4	7
226	Study of D meson decays to $D^+ \pi^0$ and $D^* \pi^0$ final states in pp collisions. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	69
225	First observation of the decay $(B_c^+ \rightarrow \{J/\psi \{K^+\}\})$. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	36
224	Searches for $(B_{(s)}^0 \rightarrow \{J/\psi \pi\}) \overline{p}$ and $B^+ \rightarrow \{J/\psi \pi\} \overline{p}$ decays. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	6
223	Differential branching fraction and angular analysis of the decay $B^0 \rightarrow K^* \pi^+ \pi^-$. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	99
222	Measurement of B meson production cross-sections in proton-proton collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	45

221	Implications of LHCb measurements and future prospects. <i>European Physical Journal C</i> , 2013 , 73, 1	4.2	116
220	Observation of $B^0_{(s)}$ $\overline{B}^0_{(s)}$ mixing and measurement of mixing frequencies using semileptonic B decays. <i>European Physical Journal C</i> , 2013 , 73,	4.2	14
219	Search for the doubly charmed baryon ($\Xi_{cc}^{\{+}\}$). <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	41
218	Measurement of ρ polarization in collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2013 , 73, 2631	4.2	87
217	Observation of the decay ($B_c^{\{+}\} \rightarrow F/\overline{K} + K$). <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	20
216	First observation of the decay ($B_s^0 \rightarrow \phi \overline{K}^{\{+}\}$). <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	7
215	First evidence for the decay $B(s)0 \rightarrow \mu^+ \mu^-$. <i>Physical Review Letters</i> , 2013 , 110, 021801	7.4	263
214	First observation of CP violation in the decays of $B(s)0$ mesons. <i>Physical Review Letters</i> , 2013 , 110, 221601	7.4	78
213	Search for the rare decay ($K_{\mathcal{S}}^0 \rightarrow \mu^{\{+}\} \mu^{\{-}\}$). <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	10
212	A study of the Z production cross-section in pp collisions at ($\sqrt{s}=7, \text{TeV}$) using tau final states. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1	5.4	13
211	Measurement of the ratio of branching fractions $B(B \rightarrow K^0)/B(B_s \rightarrow K^0)$ and the direct CP asymmetry in $B \rightarrow K^0$. <i>Nuclear Physics B</i> , 2013 , 867, 1-18	2.8	29
210	Measurement of the effective β . <i>Nuclear Physics B</i> , 2013 , 873, 275-292	2.8	10
209	Prompt charm production in pp collisions at $\sqrt{s}=7$. <i>Nuclear Physics B</i> , 2013 , 871, 1-20	2.8	163
208	Observation of the suppressed ADS modes $B \rightarrow \rho \pi$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 723, 44-53	4.2	14
207	Measurement of the CKM angle Γ from a combination of $B \rightarrow \rho \pi$ analyses. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 726, 151-163	4.2	33
206	Measurement of the $B \rightarrow \rho \pi$ oscillation frequency Γ_{hd} with the decays $B \rightarrow \rho \pi$ and $B \rightarrow \rho \pi^0$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 719, 318-325	4.2	15
205	Search for direct CP violation in $B \rightarrow \rho \pi$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 723, 33-43	4.2	29
204	Measurements of the $B \rightarrow \rho \pi$ decay amplitudes and the B^0 polarisation in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 724, 27-35	4.2	41

203	Observation of the decay $B_s^0 \rightarrow D^0 \tau^+ \tau^-$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 727, 403-411	4.2	13
202	Search for the rare decay $D^0 \rightarrow \mu^+ \mu^-$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 725, 15-24	4.2	23
201	Measurement of the differential branching fraction of the decay $B \rightarrow D^* \tau^+ \tau^-$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013 , 725, 25-35	4.2	29
200	Electroweak measurements in electron-positron collisions at W-boson-pair energies at LEP. <i>Physics Reports</i> , 2013 , 532, 119-244	27.7	291
199	Evidence for the decay $B^0 \rightarrow D^0 \tau^+ \tau^-$ and measurement of the relative branching fractions of B_s^0 meson decays to J/ψ and J/ψ . <i>Nuclear Physics B</i> , 2013 , 867, 547-566	2.8	25
198	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> , 2013 , 724, 36-45	4.2	27
197	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> , 2013 , 723, 47-54	1.2	20
196	Observation of $B \rightarrow D^* \tau^+ \tau^-$. <i>Nuclear Physics B</i> , 2013 , 874, 663-678	2.8	8
195	Observation of D^0 - \bar{D}^0 oscillations. <i>Physical Review Letters</i> , 2013 , 110, 101802	7.4	45
194	Observations of $B \rightarrow D^* \tau^+ \tau^-$. <i>Nuclear Physics B</i> , 2013 , 871, 403-419	2.8	16
193	Measurement of the $B_s^0 \rightarrow D^0 \tau^+ \tau^-$ oscillation frequency with the decay $B_s^0 \rightarrow D^0 \tau^+ \tau^-$. <i>Physical Review Letters</i> , 2013 , 718, 902-909	4.2	31
192	Precision measurement of the $B^0 \rightarrow D^0 \tau^+ \tau^-$ oscillation frequency with the decay $B^0 \rightarrow D^0 \tau^+ \tau^-$. <i>New Journal of Physics</i> , 2013 , 15, 053021	2.9	49
191	Exclusive J/ψ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2013 , 40, 045001	2.9	85
190	Search for the lepton-flavor-violating decays $B(s) \rightarrow \tau^+ \tau^- \mu^+ \mu^-$ and $B \rightarrow \tau^+ \tau^- \mu^+ \mu^-$. <i>Physical Review Letters</i> , 2013 , 111, 141801	7.4	25
189	Precision measurement of the $\Lambda_b(0)$ baryon lifetime. <i>Physical Review Letters</i> , 2013 , 111, 102003	7.4	32
188	Measurement of CP violation and the B_s^0 meson decay width difference with $B_s^0 \rightarrow \tau^+ \tau^- K^0$ and $B_s^0 \rightarrow \tau^+ \tau^- \bar{K}^0$ decays. <i>Physical Review D</i> , 2013 , 87,	4.9	66
187	Measurement of D^0 - \bar{D}^0 mixing parameters and search for CP violation using $D^0 \rightarrow K^+ \bar{K}^0$ decays. <i>Physical Review Letters</i> , 2013 , 111, 251801	7.4	34
186	First observations of $B \rightarrow D^* \tau^+ \tau^- D^0$ and $D^0 \rightarrow D^* \tau^+ \tau^- D^0$ decays. <i>Physical Review D</i> , 2013 , 87,	4.9	19

185	Measurement of the $\Lambda_b(0)$, $\Lambda_b(-)$, and $\Lambda_b(0)$ Baryon masses. <i>Physical Review Letters</i> , 2013 , 110, 182001	7.4	57
184	Measurement of the CP asymmetry in $B(+)K(+)K(0)$ decays. <i>Physical Review Letters</i> , 2013 , 111, 151801	7.4	11
183	First measurement of the CP-violating phase in $B_s(0) \rightarrow \mu^+\mu^-$ decays. <i>Physical Review Letters</i> , 2013 , 110, 241802	7.4	14
182	Determination of the $X(3872)$ meson quantum numbers. <i>Physical Review Letters</i> , 2013 , 110, 222001	7.4	234
181	Measurement of the branching fractions of the decays $B_s0 \rightarrow D^0 K^0$ and $B0 \rightarrow D^0 K^+$ <i>Physical Review D</i> , 2013 , 87,	4.9	16
180	Analysis of the resonant components in $B^0 \rightarrow \mu^+\mu^-$ <i>Physical Review D</i> , 2013 , 87,	4.9	49
179	Observation of the decay $B(c)(+) \rightarrow B(s)(0)$. <i>Physical Review Letters</i> , 2013 , 111, 181801	7.4	55
178	Search for the decay $B_s0 \rightarrow D^* \mu$. <i>Physical Review D</i> , 2013 , 87,	4.9	6
177	Measurement of the polarization amplitudes in $B0 \rightarrow \mu^+ \mu^- (892)0$ decays. <i>Physical Review D</i> , 2013 , 88,	4.9	15
176	Measurement of CP violation in the phase space of $B^0 \rightarrow K^0 K^0$ and $B^0 \rightarrow K^0 K^+$ decays. <i>Physical Review Letters</i> , 2013 , 111, 101801	7.4	70
175	Observation of the decay $Bc^+ \rightarrow D^0 S^0$. <i>Physical Review D</i> , 2013 , 87,	4.9	28
174	Measurement of form-factor-independent observables in the decay $B0 \rightarrow K^*(0) K(+) K(0)$. <i>Physical Review Letters</i> , 2013 , 111, 191801	7.4	314
173	Observation of $Bc^+ \rightarrow D^0 S^+$ and $Bc^+ \rightarrow D^0 S^{*+}$ decays. <i>Physical Review D</i> , 2013 , 87,	4.9	46
172	Study of $B0 \rightarrow D^* K^0$ and $B0 \rightarrow D^* K^+$ decays. <i>Physical Review D</i> , 2013 , 87,	4.9	9
171	Measurement of the CP asymmetry in $B(0) \rightarrow K^*(0) K(+) K(0)$ decays. <i>Physical Review Letters</i> , 2013 , 110, 031801	7.4	21
170	Studies of the decays $B^+ \rightarrow \rho^+ p$ and observation of $B^+ \rightarrow \rho(1520) p$. <i>Physical Review D</i> , 2013 , 88,	4.9	11
169	Observation of a resonance in $B^+ \rightarrow K^+ \mu^+ \mu^-$ decays at low recoil. <i>Physical Review Letters</i> , 2013 , 111, 112003	7.4	43
168	Amplitude analysis and branching fraction measurement of $B^0 \rightarrow \mu^+ \mu^- K^0$ <i>Physical Review D</i> , 2013 , 87,	4.9	32

167	First observation of the decay $B_s^{*2}(5840)(0)^{-} \rightarrow B^{*+} K^-$ and studies of excited $B_s(0)$ mesons. <i>Physical Review Letters</i> , 2013 , 110, 151803	7.4	42
166	First observation of $B \rightarrow 0\text{-}\beta/\bar{K}+K$ and search for $B \rightarrow 0\text{-}\beta/\bar{K}$ decays. <i>Physical Review D</i> , 2013 , 88,	4.9	14
165	Measurement of the $B_s(0) \rightarrow \mu^+\mu^-$ branching fraction and search for $B(0) \rightarrow \mu^+\mu^-$ decays at the LHCb experiment. <i>Physical Review Letters</i> , 2013 , 111, 101805	7.4	221
164	Search for rare $B(0) \rightarrow (s)\text{-}(c) \rightarrow (c) \rightarrow (c)$ decays. <i>Physical Review Letters</i> , 2013 , 110, 211801	7.4	14
163	Radiation damage in the LHCb vertex locator. <i>Journal of Instrumentation</i> , 2013 , 8, P08002-P08002	1	14
162	Observation of \dots . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 707, 52-59	4.2	104
161	Measurement of the effective $B_{s0} \rightarrow K+K$ lifetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 707, 349-356	4.2	16
160	Measurement of the CP violating phase \dots . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 707, 497-505	4.2	34
159	Search for the rare decays \dots . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 708, 55-67	4.2	29
158	Measurement of b-hadron masses. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 708, 241-248	4.2	55
157	First observation of the decay \dots . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 709, 50-58	4.2	22
156	Measurement of the $B_{s0} B_{s0}^0$ oscillation frequency Γ_{hs} in $B_{s0} \rightarrow D_s(B) \mu^+\mu^-$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 709, 177-184	4.2	42
155	Observation of CP violation in $B_{\text{H}} \rightarrow D K_{\text{H}}$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 712, 203-212	4.2	69
154	Measurement of charged particle multiplicities in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ in the forward region. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	24
153	Observation of X(3872) production in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	121
152	Opposite-side flavour tagging of mesons at the LHCb experiment. <i>European Physical Journal C</i> , 2012 , 72, 2022	4.2	39
151	Measurement of production in collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2012 , 72, 2025	4.2	83
150	Measurement of the $B \rightarrow \mu^+\mu^-$ production cross-section in pp collisions at $(\sqrt{s}) = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	19

149	Measurements of the branching fractions of the decays $B_s^0 \rightarrow D_s^{\pm} \pi^{\mp} K^{\pm}$ and $B_s^0 \rightarrow D_s^{\pm} \pi^{\mp} K^{\pm}$. <i>Journal of High Energy Physics</i> , 2012 , 2012,	5-4	15
148	Observation of double charm production involving open charm in pp collisions at $\sqrt{s} = 7$; $\sqrt{s} = 7$; $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	86
147	Measurement of the isospin asymmetry in $B \rightarrow K^* \pi$ decays. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	59
146	Measurement of b-hadron branching fractions for two-body decays into charmless charged hadrons. <i>Journal of High Energy Physics</i> , 2012 , 2012,	5-4	51
145	Study of D_s decays to $D^+ K_{\text{strange}}^0$ and $D^0 K^+$ final states in pp collisions. <i>Journal of High Energy Physics</i> , 2012 , 2012,	5-4	24
144	Measurement of the fraction of $\Lambda(1520)$ originating from $B(1P)$ decays in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	17
143	First observation of the decay $B \rightarrow \pi^+ \pi^- \pi^0$. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5-4	35
142	Evidence for CP violation in time-integrated $D^0 \rightarrow \pi^+ \pi^-$ decay rates. <i>Physical Review Letters</i> , 2012 , 108, 111602	7-4	150
141	Measurements of the branching fractions and CP asymmetries of $B_{\text{charmless}}^0 \rightarrow \pi^+ \pi^-$ and $B_{\text{charmless}}^0 \rightarrow \pi^0 \pi^0$ decays. <i>Physical Review D</i> , 2012 , 85,	4-9	19
140	First evidence of direct CP violation in charmless two-body decays of B_s^0 mesons. <i>Physical Review Letters</i> , 2012 , 108, 201601	7-4	43
139	Measurement of the ratio of branching fractions $B(B^0 \rightarrow K^* \pi^0)/B(B_s^0 \rightarrow K^* \pi^0)$. <i>Physical Review D</i> , 2012 , 85,	4-9	12
138	Searches for Majorana neutrinos in B decays. <i>Physical Review D</i> , 2012 , 85,	4-9	47
137	Measurement of b hadron production fractions in 7 TeV pp collisions. <i>Physical Review D</i> , 2012 , 85,	4-9	105
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135	Measurement of the α_s . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 713, 186-195	4-2	33
134	Measurement of the polarization amplitudes and triple product asymmetries in the $B \rightarrow K^* \pi$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 713, 369-377	4-2	13
133	Measurement of the CP-violating phase α_s . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 713, 378-386	4-2	31
132	Measurement of the cross-section ratio $\sigma(B \rightarrow K^* \pi)/\sigma(B \rightarrow K^* \pi^0)$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 714, 215-223	4-2	41

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130	Measurement of relative branching fractions of decays to (2) and $/$ mesons. <i>European Physical Journal C</i> , 2012 , 72, 2118	4.2	18
129	Measurement of prompt hadron production ratios in pp collisions at $(\sqrt{s} = 0.9 \text{ TeV})$ and $(\sqrt{s} = 7 \text{ TeV})$. <i>European Physical Journal C</i> , 2012 , 72, 1	4.2	23
128	Measurement of the effective α_s . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 716, 393-400	4.2	10
127	A model-independent Dalitz plot analysis of $B \rightarrow \pi^0 \pi^0$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 718, 43-55	4.2	20
126	Measurement of the ratio of prompt π^0 production. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 718, 431-440	4.2	42
125	Measurement of mixing and CP violation parameters in two-body charm decays. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	22
124	Inclusive W and Z production in the forward region at $(\sqrt{s} = 7 \text{ TeV})$. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1	5.4	60
123	First observation of the decay $B(c) \rightarrow \pi^0 \pi^0$. <i>Physical Review Letters</i> , 2012 , 108, 251802	7.4	50
122	Differential branching fraction and angular analysis of the decay $B^0 \rightarrow \pi^0 \pi^0$. <i>Physical Review Letters</i> , 2012 , 108, 181806	7.4	39
121	Measurement of the $B_s(0)$ effective lifetime in the $J/\psi(980)$ final state. <i>Physical Review Letters</i> , 2012 , 109, 152002	7.4	14
120	First observation of the decays $B(0) \rightarrow \pi^0 \pi^0 \pi^0$ and $B(-) \rightarrow \pi^0 \pi^0 \pi^0$. <i>Physical Review Letters</i> , 2012 , 108, 161801	7.4	8
119	Observation of excited (b) (0) baryons. <i>Physical Review Letters</i> , 2012 , 109, 172003	7.4	68
118	Observation of a new (b) state in radiative transitions to $(1S)$ and $(2S)$ at ATLAS. <i>Physical Review Letters</i> , 2012 , 108, 152001	7.4	77
117	Analysis of the resonant components in $B \rightarrow \pi^0 \pi^0$. <i>Physical Review D</i> , 2012 , 86,	4.9	59
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115	Measurement of the $B_s \rightarrow \pi^0 \pi^0$ branching fraction and angular amplitudes. <i>Physical Review D</i> , 2012 , 86,	4.9	17
114	Strong constraints on the rare decays $B_s(0) \rightarrow \pi^0 \pi^0$ and $B^0 \rightarrow \pi^0 \pi^0$. <i>Physical Review Letters</i> , 2012 , 108, 231801	7.4	144

113	Search for lepton number violating decays $B^+ \rightarrow \ell^+ \mu^+ \mu^-$ and $B^+ \rightarrow \ell^+ K^- \mu^+$. <i>Physical Review Letters</i> , 2012 , 108, 101601	7-4	35
112	Measurement of the CP-violating phase $\gamma(s)$ in the decay $B(s)(0) \rightarrow J/\psi$. <i>Physical Review Letters</i> , 2012 , 108, 101803	7-4	95
111	Search for the X(4140) state in $B^+ \rightarrow J/\psi K^+$ decays. <i>Physical Review D</i> , 2012 , 85,	4-9	55
110	First observation of the decays $B^0 \rightarrow D_s^+ K^0$ and $B^0 \rightarrow D_s^+ K^0(2536)$. <i>Physical Review D</i> , 2012 , 86,	4-9	9
109	Measurements of $B(c)^+$ production and mass with the $B(c)^+ \rightarrow J/\psi$ decay. <i>Physical Review Letters</i> , 2012 , 109, 232001	7-4	53
108	Observation of $B^0 \rightarrow D^0 K^+ K^-$ and evidence for $B(s)(0) \rightarrow D^0 K^+ K^-$. <i>Physical Review Letters</i> , 2012 , 109, 131801	7-4	22
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104	Observation of double charm production involving open charm in pp collisions at $(\sqrt{s} = 7); \{\text{TeV}\}$) 2012 , 2012, 1		2
103	Measurement of the inclusive γ cross-section in pp collisions at $\sqrt{s} = 7$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 703, 267-273	4-2	18
102	First observation of the decay $B^0 \rightarrow D^0 \pi^0$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 706, 32-39	4-2	14
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100	A study of the b-quark fragmentation function with the DELPHI detector at LEP I and an averaged distribution obtained at the Z Pole. <i>European Physical Journal C</i> , 2011 , 71, 1	4-2	25
99	Measurement of J/ψ production in pp collisions at $(\sqrt{s}=7)$ TeV. <i>European Physical Journal C</i> , 2011 , 71, 1	4-2	216
98	Measurement of V_0 production ratios in pp collisions at $(\sqrt{s} = 0.9)$ and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5-4	12
97	Search for CP violation in $D^+ \rightarrow K^+ \pi^0$ decays. <i>Physical Review D</i> , 2011 , 84,	4-9	17
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89	Measurements of CP-conserving trilinear gauge boson couplings WWV ($V=Z$) in e^+e^- collisions at LEP2. <i>European Physical Journal C</i> , 2010 , 66, 35-56	4.2	18
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60	Study of leading hadrons in gluon and quark fragmentation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006 , 643, 147-157	4.2	6

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55	A measurement of the tau hadronic branching ratios. <i>European Physical Journal C</i> , 2006 , 46, 1-26	4.2	3
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53	Determination of the b quark mass at the MZ scale with the DELPHI detector at LEP. <i>European Physical Journal C</i> , 2006 , 46, 569-583	4.2	11
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49	Search for neutral MSSM Higgs bosons at LEP. <i>European Physical Journal C</i> , 2006 , 47, 547	4.2	496
48	Coherent soft particle production in Z decays into three jets. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005 , 605, 37-48	4.2	4
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34	Search for SUSY in the AMSB scenario with the DELPHI detector. <i>European Physical Journal C</i> , 2004 , 34, 145-156	4.2	12
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13	Searches for supersymmetric particles in $e + e^-$ collisions up to 208 GeV and interpretation of the results within the MSSM. <i>European Physical Journal C</i> , 2003 , 31, 421-479	4.2	153
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