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article

2024

1. A search for rare $B \rightarrow D\mu^+\mu^-$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 02 (2024) 032
2. Observation of Cabibbo-suppressed two-body hadronic decays and precision mass measurement of the Ω_c^0 baryon, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 132 (2024) 081802
3. Measurement of the Z boson production cross-section in pp collisions at $\sqrt{s} = 5.02$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 02 (2024) 070
4. Measurement of the CKM angle γ in the $B^0 \rightarrow DK^{*0}$ channel using self-conjugate $D \rightarrow K_S^0 h^+ h^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 84 (2024) 206
5. Measurement of CP violation in $B^0 \rightarrow \psi(\rightarrow \ell^+\ell^-)K_S^0(\rightarrow \pi^+\pi^-)$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 132 (2024) 021801
6. Measurement of prompt D^+ and D_s^+ production in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 01 (2024) 070
7. Helium identification with LHCb, R. Aaij *et al.*, LHCb Collaboration, J. Instrum 19 (2024) P02010
8. Enhanced production of Λ_b^0 baryons in high- multiplicity pp collisions at $\sqrt{s} = 13$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 132 (2024) 081901
9. Production of η and η' mesons in pp and pPb collisions, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. C 109 (2024) 024907
10. Fraction of χ_c decays in prompt J/ψ production measured in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 132 (2024) 102302
11. A model-independent measurement of the CKM angle γ in partially reconstructed $B^\pm \rightarrow D^* h^\pm$ decays with $D \rightarrow K_S^0 h^+ h^-$ ($h = \pi, K$), R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 02 (2024) 118
12. Momentum scale calibration of the LHCb spectrometer, R. Aaij *et al.*, LHCb Collaboration, J. Instrum 19 (2024) P02008
13. Study of $B_c^+ \rightarrow \chi_c \pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 02 (2024) 173

2023

1. Search for the doubly heavy baryon Ξ_{bc}^+ decaying to $J/\psi \Xi_c^+$, R. Aaij *et al.*, LHCb Collaboration, Chin. Phys. C 47 (2023) 093001
2. Nuclear modification factor of neutral pions in the forward and backward regions in $p\text{Pb}$ collisions, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 131 (2023) 042302
3. Measurement of CP asymmetries in $D_{(s)}^+ \rightarrow \eta\pi^+$ and $D_{(s)}^+ \rightarrow \eta'\pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 04 (2023) 081
4. Observation of sizeable ω contribution to $\chi_{c1}(3872) \rightarrow \pi^+\pi^-J/\psi$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) L011103
5. Evidence for modification of b quark hadronization in high-multiplicity pp collisions at $\sqrt{s} = 13$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 131 (2023) 061901
6. Measurement of the prompt D^0 nuclear modification factor in $p\text{Pb}$ collisions at $\sqrt{s_{NN}} = 8.16$ TeV, I. Bezshyiko *et al.*, LHCb Collaboration, Phys. Rev. Lett 131 (2023) 102301
7. Measurement of antiproton production from antihyperon decays in $p\text{He}$ collisions at $\sqrt{s_{NN}} = 110\text{GeV}$, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 83 (2023) 543
8. Search for CP violation using \hat{T} -odd correlations in $B^0 \rightarrow p\bar{p}K^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) 032007
9. Measurement of the Z boson production cross-section in proton-lead collisions at $\sqrt{s_{NN}} = 8.16$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2023) 022
10. Measurement of thermal properties of the LHCb VELO detector using track-based software alignment, K. Akiba *et al.*, J. Instrum 18 (2023) P10003
11. Search for direct CP violation in charged charmless $B \rightarrow PV$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) 012013
12. Measurement of τ_L using the $B_s^0 \rightarrow J/\psi\eta$ decay mode, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 83 (2023) 629
13. Search for the rare hadronic decay $B_s^0 \rightarrow p\bar{p}$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) 012007
14. Direct CP violation in charmless three-body decays of B^\pm mesons, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) 012008
15. Study of exclusive photoproduction of charmonium in ultra- peripheral lead-lead collisions, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2023) 146
16. Search for the lepton-flavour violating decays $B^0 \rightarrow K^{*0}\text{e}$ and $B_s^0 \rightarrow e$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2023) 073

17. Amplitude analysis of the $D^+ \rightarrow \pi^- \pi^+ \pi^+$ decay and measurement of the $\pi^- \pi^+$ S-wave amplitude, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2023) 044
18. Amplitude analysis of the $\Lambda_c^+ \rightarrow p K^- \pi^+$ decay and Λ_c^+ baryon polarization measurement in semileptonic beauty hadron decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) 012023
19. Model-independent measurement of charm mixing parameters in $\bar{B} \rightarrow D^0 (\rightarrow K_S^0 \pi^+ \pi^-) \mu^- \bar{\nu}_\mu X$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) 052005
20. Study of B_c^+ meson decays to charmonia plus multihadron final states, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2023) 198
21. Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K^- K^+$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 131 (2023) 091802
22. Measurement of the CKM angle γ with $B^\pm \rightarrow D[K^\mp \pi^\pm \pi^\pm \pi^\mp] h^\pm$ decays using a binned phase-space approach, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2023) 138
23. Search for the lepton-flavour violating decays $B^0 \rightarrow K^{*0} \tau^\pm \mu^\mp$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2023) 143
24. Amplitude analysis of the $D_s^+ \rightarrow \pi^+ \eta'$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2023) 204
25. Measurement of the Λ_c^+ to D^0 production ratio in periphera PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2023) 132
26. Search for the baryon- and lepton-number violating decays $B^0 \rightarrow p \mu^-$ and $B_s^0 \rightarrow p \mu^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) 012021
27. Observation of a $J/\psi \Lambda$ resonance consistent with a strange pentaquark candidate in $B^- \rightarrow J/\psi \Lambda \bar{p}$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 131 (2023) 031901
28. Measurement of the ratio of branching fractions $\mathcal{B}(B_c^+ \rightarrow B_s^0 \pi^+) / \mathcal{B}(B_c^+ \rightarrow J/\psi \pi^+)$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2023) 066
29. Observation of the $B_s^0 \rightarrow D^{*+} D^{*-}$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2023) 119
30. Observation of a resonant structure near the $D_s^+ D_s^-$ threshold in the $B^+ \rightarrow D_s^+ D_s^- K^+$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 131 (2023) 071901
31. Study of the $B^- \rightarrow \Lambda_c^+ \bar{\Lambda}_c^- K^-$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) 012020
32. First observation of the $B^+ \rightarrow D_s^+ D_s^- K^+$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) 034012

33. Searches for the rare hadronic decays $B^0 \rightarrow p\bar{p}p\bar{p}$ and $B_s^0 \rightarrow p\bar{p}p\bar{p}$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 131 (2023) 091901
34. J/ψ and D^0 production in $\sqrt{s_{NN}} = 68.5 \text{ GeV}$ PbNe collisions, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 83 (2023) 658
35. Charmonium production in pNe collisions at $\sqrt{s_{NN}} = 68.5 \text{ GeV}$, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 83 (2023) 625
36. Open charm production and asymmetry in pNe collisions at $\sqrt{s_{NN}} = 68.5 \text{ GeV}$, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 83 (2023) 541
37. First Observation of a Doubly Charged Tetraquark and Its Neutral Partner, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 131 (2023) 041902
38. Amplitude analysis of $B^0 \rightarrow \overline{D}^0 D_s^+ \pi^-$ and $B^+ \rightarrow D^- D_s^+ \pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) 012017
39. Search for $K_{S(L)}^0 \rightarrow \mu^+ \mu^- \mu^+ \mu^-$ decays at LHCb, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) L031102
40. Search for the rare decays $W^+ \rightarrow D_s^+ \gamma$ and $Z \rightarrow D^0 \gamma$ at LHCb, R. Aaij *et al.*, LHCb Collaboration, Chin. Phys. C 47 (2023) 093002
41. Measurement of lepton universality parameters in $B^+ \rightarrow K^+ \ell^+ \ell^-$ and $B^0 \rightarrow K^{*0} \ell^+ \ell^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) 032002
42. Test of lepton universality in $b \rightarrow s \ell^+ \ell^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 131 (2023) 051803
43. Search for Rare Decays of D^0 Mesons into Two Muons, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 131 (2023) 041804
44. First observation and branching fraction measurement of the $\Lambda_b^0 \rightarrow D_s^- p$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2023) 075
45. Measurement of production in pp collisions at $\sqrt{s} = 5 \text{ TeV}$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2023) 069
46. Evidence of a $J/\psi K_S^0$ structure in $B^0 \rightarrow J/\psi \phi K_S^0$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 131 (2023) 131901
47. Λ_c^+ polarimetry using the dominant hadronic mode, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2023) 228
48. A study of CP violation in the decays $B^\pm \rightarrow [K^+ K^- \pi^+ \pi^-]_D h^\pm$ ($h = K, \pi$) and $B^\pm \rightarrow [\pi^+ \pi^- \pi^+ \pi^-]_D h^\pm$, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 83 (2023) 547
49. Observation of new Ω_c^0 states decaying to the $\Xi_c^+ K^-$ final state, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 131 (2023) 131902
50. Measurement of the $\Lambda_b^0 \rightarrow \Lambda(1520) \mu^+ \mu^-$ differential branching fraction, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 131 (2023) 151801

51. Observation of the $B_s^0 \rightarrow c_1(3872)^+$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2023) 084
52. Search for CP violation in $D_{(s)}^+ \rightarrow K^- K^+ K^+$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2023) 067
53. Observation of the $B^+ \rightarrow J/\psi \eta' K^+$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 08 (2023) 174
54. Search for $D^*(2007)^0 \rightarrow \mu^+ \mu^-$ in $B^- \rightarrow \pi^- \mu^+ \mu^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 83 (2023) 666
55. Precision measurement of CP violation in the penguin-mediated decay $B_s^0 \rightarrow \phi \phi$, I. Bezshyiko *et al.*, LHCb Collaboration, Phys. Rev. Lett 131 (2023) 171802
56. Study of charmonium decays to $K_S^0 K\pi$ in the $B \rightarrow (K_S^0 K\pi) K$ channels, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) 032010
57. Test of lepton flavour universality using $B^0 \rightarrow D^{*-} \tau^+ \nu_\tau$ decays with hadronic τ channels, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) 012018
58. Associated production of prompt J/ψ and ψ' mesons in pp collisions at $\sqrt{s} = 13$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 08 (2023) 093
59. Measurement of the mass difference and relative production rate of the Ω_b^- and Ξ_b^- baryons, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) 052008
60. Evidence for the decays $B^0 \rightarrow \overline{D}^{(*)0}$ and updated measurements of the branching fractions of the $B_s^0 \rightarrow \overline{D}^{(*)0}$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2023) 123
61. Measurement of CP asymmetries and branching fraction ratios of B decays to two charm mesons, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 09 (2023) 202
62. Study of the Bose-Einstein correlations of same-sign pions in proton-lead collisions, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 09 (2023) 172
63. Search for CP violation in the phase space of $D^0 \rightarrow \pi^+ \pi^-$ decays with the energy test, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 09 (2023) 129
64. Observation and branching fraction measurement of the decay $\Xi_b^- \rightarrow \Lambda_b^0 \pi^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 108 (2023) 072002
65. Observation of new baryons in the $\Xi_b^- \pi^+ \pi^-$ and $\Xi_b^0 \pi^+ \pi^-$ systems, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 131 (2023) 171901
66. Observation of the decays $B_{(s)}^0 \rightarrow D_{s1}(2536) K$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2023) 106

67. Measurement of the CKM angle γ using the $B \rightarrow D^* h$ channels, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 12 (2023) 013
68. Amplitude analysis of the $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ decay, R. Aaij *et al.*, LHCb Collaboration, indéfini (2023)

2022

1. Test of lepton universality in beauty-quark decays, R. Aaij *et al.*, LHCb Collaboration, Nat. Phys 18 (2022) 277-282
2. A Comparison of CPU and GPU implementations for the LHCb Experiment Run 3 Trigger, R. Aaij *et al.*, LHCb Collaboration, Comput. Softw. Big Sci. 6 (2022) 1
3. Measurement of the W boson mass, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 01 (2022) 036
4. Study of B_c^+ decays to charmonia and three light hadrons, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 01 (2022) 065

2021

1. Observation of multiplicity-dependent prompt $\chi_{c1}(3872)$ and $\psi(2S)$ production in pp collisions, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 126 (2021) 092001
2. Measurement of the CKM angle γ in $B^\pm \rightarrow DK^\pm$ and $B^\pm \rightarrow D\pi^\pm$ decays with $D \rightarrow K_S^0 h^+ h^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2102 (2021) 169
3. Measurement of differential $b\bar{b}$ - and $c\bar{c}$ -dijet cross-sections in the forward region of pp collisions at $\sqrt{s} = 13$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2102 (2021) 023
4. Measurement of the branching fraction of the $B^0 \rightarrow D_s^+ \pi^-$ decay, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 81 (2021) 314
5. Observation of a new Ξ_b^0 state, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 103 (2021) 012004
6. Searches for 25 rare and forbidden decays of D^+ and D_s^+ mesons, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2021) 044
7. Observation of new excited B_s^0 states, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 81 (2021) 601
8. Study of $B_s^0 \rightarrow J/\psi \pi^+ \pi^- K^+ K^-$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2102 (2021) 024
9. Search for heavy neutral leptons in $W^+ \rightarrow \mu^+ \mu^\pm \text{jet}$ decays, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 81 (2021) 248
10. Search for the rare decay $B^0 \rightarrow J/\psi \phi$, R. Aaij *et al.*, LHCb Collaboration, Chin. Phys. C 45 (2021) 043001

11. Observation of a new excited D_s^+ meson in B^0 to $D^- D^+ K^+ \pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 126 (2021) 122002
12. Measurement of the CKM angle γ and $B_s^0 - \overline{B_s^0}$ mixing frequency with $B_s^0 \rightarrow D_s^\mp h^\pm \pi^\pm \pi^\mp$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2103 (2021) 137
13. Observation of the $b_c^0 \rightarrow_c^+ K^+ K^- \pi^-$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 815 (2021) 136172
14. Search for long-lived particles decaying to $e^\pm \mu^\mp \nu$, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 81 (2021) 261
15. Observation of CP violation in two-body $B_{(s)}^0$ -meson decays to charged pions and kaons, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 03 (2021) 075
16. Observation of CP violation in two-body $B_{(s)}^0$ -meson decays to charged pions and kaons, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2103 (2021) 075
17. First observation of the decay $B_s^0 \rightarrow K^- \mu^+ \nu_\mu$ and measurement of $|V_{ub}|/|V_{cb}|$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 126 (2021) 081804
18. Measurement of CP observables in $B^\pm \rightarrow D^{(*)} K^\pm$ and $B^\pm \rightarrow D^{(*)} \pi^\pm$ decays using two-body D final states, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2104 (2021) 081
19. Observation of the $B_s^0 \rightarrow D^{*\pm} D^\mp$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2103 (2021) 099
20. Measurement of CP violation in the decay $B^+ \rightarrow K^+ \pi^0$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 126 (2021) 091802
21. Angular analysis of the $B^+ \rightarrow K^{*+} \mu^+ \mu^-$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 126 (2021) 161802
22. Observation of New Resonances Decaying to $J/\psi K^{++}$ and $J/\psi \phi$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 127 (2021) 082001
23. Efficient description of experimental effects in amplitude analyses, A. Mathad *et al.*, J. Instrum 16 (2021) P06016
24. Observation of the decay $\Lambda_b^0 \rightarrow \chi_{c1} p \pi^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2105 (2021) 095
25. Averages of b-hadron, c-hadron, and tau-lepton properties as of 2018, A. Amhis *et al.*, Heavy Flavor Averaging Group, Eur. Phys. J. C 81 (2021) 226
26. Measurement of prompt-production cross-section ratio $\sigma(\chi_{c2})/\sigma(\chi_{c1})$ in $p\text{Pb}$ collisions at $\sqrt{s_{NN}} = 8.16$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. C 103 (2021) 064905

27. Precise measurement of the f_s/f_d ratio of fragmentation fractions and of B_s^0 decay branching fractions, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 104 (2021) 032005
28. Search for CP violation in $D_{(s)}^+ \rightarrow h^+\pi^0$ and $D_{(s)}^+ \rightarrow h^+\eta$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2106 (2021) 019
29. Search for the doubly heavy baryons Ω_{bc}^0 and Ξ_{bc}^0 decaying to $\Lambda_c^+\pi^-$ and $\Xi_c^+\pi^-$, R. Aaij *et al.*, LHCb Collaboration, Chin. Phys. C 45 (2021) 093002
30. Search for CP violation in $\Xi_b^- \rightarrow pK^-K^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 104 (2021) 052010
31. Measurement of CP asymmetry in $D^0 \rightarrow K_S^0K_S^0$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 104 (2021) L031102
32. Angular analysis of $B^0 \rightarrow D^{*-}D_s^{*+}$ with $D_s^{*+} \rightarrow D_s^+\gamma$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2106 (2021) 177
33. Search for the doubly charmed baryon Ω_{cc}^+ , R. Aaij *et al.*, LHCb Collaboration, Sci. China Phys. Mech. Astron. 64 (2021) 101062
34. Search for time-dependent CP violation in $D^0 \rightarrow K^+K^-$ and $D^0 \rightarrow \pi^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 104 (2021) 072010
35. First measurement of the CP -violating phase in $B_s^0 \rightarrow J/\psi(\rightarrow e^+e^-)\phi$ decays, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 81 (2021) 1026
36. Branching Fraction Measurements of the Rare $B_s^0 \rightarrow \phi\mu^+\mu^-$ and $B_s^0 \rightarrow f_2'(1525)\mu^+\mu^-$ Decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 127 (2021) 151801
37. Observation of the Mass Difference Between Neutral Charm- Meson Eigenstates, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 127 (2021) 111801
38. Short-Pulse Laser-Assisted Fabrication of a Si-SiO₂ Microcooling Device, A. Mouskouftaras *et al.*, Micromachines 12(9) (2021) 1054
39. Observation of excited Ω_c^0 baryons in $\Omega_b^- \rightarrow \Xi_c^+K^-\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 104 (2021) L091102
40. Observation of a $\Lambda_b^0\bar{\Lambda}_b^0$ production asymmetry in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2110 (2021) 060
41. Angular analysis of the rare decay $B_s^0 \rightarrow \phi\mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2111 (2021) 043
42. Observation of the suppressed $\Lambda_b^0 \rightarrow DpK^-$ decay with $D \rightarrow K^+\pi^-$ and measurement of its CP asymmetry, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 104 (2021) 112008
43. Search for the doubly charmed baryon Ξ_{cc}^+ in the $\Xi_c^+\pi^-\pi^+$ final state, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2112 (2021) 107

2020

1. Measurement of $\psi(2S)$ production cross-sections in proton-proton collisions at $\sqrt{s} = 7$ and 13 TeV, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 80 (2020) 185
2. Observation of several sources of CP violation in $B^+ \rightarrow \pi^+\pi^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 124 (2020) 031801
3. Amplitude analysis of the $B^+ \rightarrow \pi^+\pi^+\pi^-$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 101 (2020) 012006
4. Search for the doubly charmed baryon Ξ_{cc}^+ , R. Aaij *et al.*, LHCb Collaboration, Sci China Phys Mech 63 (2020) 221062
5. Search for $A' \rightarrow \mu^+\mu^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 124 (2020) 041801
6. Measurement of f_s/f_u variation with proton-proton collision energy and B -meson kinematics, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 124 (2020) 122002
7. Measurement of Ξ_{cc}^{++} production in pp collisions at $\sqrt{s} = 13$ TeV, R. Aaij *et al.*, LHCb Collaboration, Chin. Phys. C 44 (2020) 022001
8. Updated measurement of decay-time-dependent CP asymmetries in $D^0 \rightarrow K^+K^-$ and $D^0 \rightarrow \pi^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 101 (2020) 012005
9. Measurement of the $\eta_c(1S)$ production cross-section in pp collisions at $\sqrt{s} = 13$ TeV, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 80 (2020) 191
10. Determination of quantum numbers for several excited charmed mesons observed in $B^- \rightarrow D^{*+}\pi^-\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 101 (2020) 032005
11. Observation of the semileptonic decay $B^+ \rightarrow p\bar{p}\mu^+\nu_\mu$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2003 (2020) 146
12. Precision measurement of the Ξ_{cc}^{++} mass, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2002 (2020) 049
13. Oscillations of B_s^0 mesons as a probe of decays with unreconstructed particles, A. Poluektov *et al.*, J. High Energy Phys. 2002 (2020) 163
14. Isospin amplitudes in $\Lambda_b^0 \rightarrow J/\psi\Lambda(\Sigma^0)$ and $\Xi_b^0 \rightarrow J/\psi\Xi^0(\Lambda)$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 124 (2020) 111802
15. Measurement of CP violation in $B^0 \rightarrow D^{*\pm}D^\mp$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2003 (2020) 147
16. Test of lepton universality with $\Lambda_b^0 \rightarrow pK^-\ell^+\ell^-$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2020 (2020) 040
17. Search for CP violation and observation of P violation in $\Lambda_b^0 \rightarrow p\pi^-\pi^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 102 (2020) 051101

18. First observation of excited Ω_b^- states, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 124 (2020) 082002
19. Measurement of $|V_{cb}|$ with $B_s^0 \rightarrow D_s^{(*)-} \mu^+ \nu_\mu$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 101 (2020) 072004
20. Strong constraints on the $K_S^0 \rightarrow \mu^+ \mu^-$ branching fraction, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 125 (2020) 231801
21. Observation of a new baryon state in the $\Lambda_b^0 \pi^+ \pi^-$ mass spectrum, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2006 (2020) 136
22. Measurement of the branching fraction of the decay $B_s^0 \rightarrow K_S^0 K_S^0$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 102 (2020) 012011
23. Measurement of CP observables in $B^\pm \rightarrow DK^\pm$ and $B^\pm \rightarrow D\pi^\pm$ with $D \rightarrow K_S^0 K^\pm \pi^\mp$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2006 (2020) 058
24. Search for the rare decays $B_s^0 \rightarrow e^+ e^-$ and $B^0 \rightarrow e^+ e^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 124 (2020) 211802
25. Measurement of CP -averaged observables in the $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 125 (2020) 011802
26. Search for the lepton flavour violating decay $B^+ \rightarrow K^+ \mu^- \tau^+$ using B_{s2}^{*0} decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2006 (2020) 129
27. Measurement of the shape of the $B_s^0 \rightarrow D_s^{*-} \mu^+ \nu_\mu$ differential decay rate, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2012 (2020) 144
28. Observation of new Ξ_c^0 baryons decaying to $\Lambda_c^+ K^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 124 (2020) 222001
29. Precision measurement of the B_c^+ meson mass, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2007 (2020) 123
30. Measurement of the $\Lambda_b^0 \rightarrow J/\psi \Lambda$ angular distribution and the Λ_b^0 polarisation in pp collisions, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2006 (2020) 110
31. Measurement of the branching fractions for $B^+ \rightarrow D^{*+} D^- K^+$, $B^+ \rightarrow D^{*-} D^+ K^+$, and $B^0 \rightarrow D^{*-} D^0 K^+$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2012 (2020) 139
32. Measurement of branching fraction ratios for $B^+ \rightarrow D^{*+} D^- K^+$, $B^+ \rightarrow D^{*-} D^+ K^+$, and $B^0 \rightarrow D^{*-} D^0 K^+$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 12 (2020) 139
33. Study of the $\psi_2(3823)$ and $\chi_{c1}(3872)$ states in $B^+ \rightarrow (J/\psi \pi^+ \pi^-) K^+$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2008 (2020) 123
34. Study of the lineshape of the $\chi_{c1}(3872)$ state, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 102 (2020) 092005

35. Search for CP violation in $\Xi_c^+ \rightarrow pK^-\pi^+$ decays using model-independent techniques, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 80 (2020) 986
36. Observation of structure in the J/ψ -pair mass spectrum, R. Aaij *et al.*, LHCb Collaboration, Sci. Bull. 65 (2020) 1983-1993
37. First observation of the decay $B^0 \rightarrow D^0\bar{D}^0K^+\pi^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 102 (2020) 051102
38. Searches for low-mass dimuon resonances, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2010 (2020) 156
39. Observation of enhanced double parton scattering in proton- lead collisions at $\sqrt{s_{NN}} = 8.16$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 125 (2020) 212001
40. First observation of the decay $\Lambda_b^0 \rightarrow \eta_c(1S)pK^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 102 (2020) 112012
41. First branching fraction measurement of the suppressed decay $\Xi_c^0 \rightarrow \pi^-\Lambda_c^+$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 102 (2020) 071101
42. Amplitude analysis of the $B^+ \rightarrow D^+D^-K^+$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 102 (2020) 112003
43. A model-independent study of resonant structure in $B^+ \rightarrow D^+D^-K^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 125 (2020) 242001
44. Search for the doubly heavy Ξ_{bc}^0 baryon via decays to D^0pK^- , R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2011 (2020) 095
45. Strong constraints on the $b \rightarrow s\gamma$ photon polarisation from $B^0 \rightarrow K^{*0}e^+e^-$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 2012 (2020) 081
46. Measurement of the relative branching fractions of $B^+ \rightarrow h^+h'^+h'^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 102 (2020) 112010

2019

1. Angular distributions of $\bar{B} \rightarrow D^{(*)}\ell\bar{\nu}_\ell$ decays and search of New Physics, D. Becirevic *et al.*, Nucl. Phys. B 946 (2019) 114707
2. Selection and processing of calibration samples to measure the particle identification performance of the LHCb experiment in Run 2, R. Aaij *et al.*, EPJ Tech. Instrum. 6 (2019) 1
3. Measurement of the relative $B^- \rightarrow D^0/D^{*0}/D^{**0}\mu^-\bar{\nu}_\mu$ branching fractions using B^- mesons from \bar{B}_{s2}^{*0} decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 99 (2019) 092009
4. Prompt Λ_c^+ production in $p\text{Pb}$ collisions at $\sqrt{s_{NN}} = 5.02$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1902 (2019) 102

5. Observation of two resonances in the $\Lambda_b^0\pi^\pm$ systems and precise measurement of Σ_b^\pm and $\Sigma_b^{*\pm}$ properties, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 122 (2019) 012001
6. Measurement of the branching fractions of the decays $D^+ \rightarrow K^-K^+K^+$, $D^+ \rightarrow \pi^-\pi^+K^+$ and $D_s^+ \rightarrow \pi^-K^+K^+$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1903 (2019) 176
7. Displaced B_c mesons as an inclusive signature of weakly decaying double beauty hadrons, T. Gershon *et al.*, J. High Energy Phys. 1901 (2019) 019
8. Measurement of the Charm-Mixing Parameter y_{CP} , R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 122 (2019) 011802
9. First measurement of charm production in fixed-target configuration at the LHC, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 122 (2019) 132002
10. Search for CP violation through an amplitude analysis of $D^0 \rightarrow K^+K^-\pi^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 02 (2019) 126
11. HE-LHC: The High-Energy Large Hadron Collider, A. Abada *et al.*, Eur. Phys. J. ST 228 (2019) 1109-1382
12. FCC Physics Opportunities, A. Abada *et al.*, FCC Collaboration, Eur. Phys. J. C 79 (2019) 474
13. FCC-ee: The Lepton Collider, A. Abada *et al.*, FCC Collaboration, Eur. Phys. J. ST 228 (2019) 261-623
14. FCC-hh: The Hadron Collider, Abada, A. *et al.*, FCC Collaboration, Eur. Phys. J. ST 228 (2019) 4 (2019) 755-1107
15. Search for the rare decay $B^+ \rightarrow \mu^+\mu^-\mu^+\nu_\mu$, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 79 (2019) 675
16. Study of the $B^0 \rightarrow \rho(770)^0 K^*(892)^0$ decay with an amplitude analysis of $B^0 \rightarrow (\pi^+\pi^-)(K^+\pi^-)$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 05 (2019) 026
17. Measurement of the branching fraction and CP asymmetry in $B^+ \rightarrow J/\psi\rho^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 79 (2019) 537
18. Design and performance of the LHCb trigger and full real-time reconstruction in Run 2 of the LHC, R. Aaij *et al.*, J. Instrum 14 (2019) P04013
19. Model-independent observation of exotic contributions to $B^0 \rightarrow J/\psi K^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 122 (2019) 152002
20. Observation of the doubly Cabibbo-suppressed decay $\Xi_c^+ \rightarrow p\phi$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1904 (2019) 084
21. Measurement of the mass and production rate of Ξ_b^- baryons, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 99 (2019) 052006

22. Measurement of the ratio of branching fractions of the decays $\Lambda_b^0 \rightarrow \psi(2S)\Lambda$ and $\Lambda_b^0 \rightarrow J/\psi\Lambda$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 03 (2019) 126
23. Measurement of B^+ , B^0 and Λ_b^0 production in $p\text{Pb}$ collisions at $\sqrt{s_{NN}} = 8.16$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 99 (2019) 052011
24. Observation of $B_{(s)}^0 \rightarrow J/\psi p\bar{p}$ decays and precision measurements of the $B_{(s)}^0$ masses, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 122 (2019) 191804
25. Dalitz Plot analysis of the $D^+ \rightarrow K^-K^+K^+$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 04 (2019) 063
26. Measurement of b -hadron fractions in 13 TeV pp collisions, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 100 (2019) 031102
27. Amplitude analysis of $B_s^0 \rightarrow K_S^0 K^\pm \pi^\mp$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1906 (2019) 114
28. Search for CP violation in $D_s^+ \rightarrow K_S^0 \pi^+$, $D^+ \rightarrow K_S^0 K^+$ and $D^+ \rightarrow \phi \pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 122 (2019) 191803
29. Measurement of the mass difference between neutral charm- meson eigenstates, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 122 (2019) 231802
30. Measurement of the CP -violating phase ϕ_s from $B_s^0 \rightarrow J/\psi \pi^+ \pi^-$ decays in 13 TeV pp collisions, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 797 (2019) 134789
31. Measurements of CP asymmetries in charmless four-body Λ_b^0 and Ξ_b^0 decays, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 79 (2019) 745
32. Observation of CP violation in charm decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 122 (2019) 211803
33. Search for lepton-universality violation in $B^+ \rightarrow K^+ \ell^+ \ell^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 122 (2019) 191801
34. Observation of an excited B_c^+ state, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 122 (2019) 232001
35. Near-threshold $D\bar{D}$ spectroscopy and observation of a new charmonium state, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1907 (2019) 035
36. Observation of a narrow pentaquark state, $P_c(4312)^+$, and of two-peak structure of the $P_c(4450)^+$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 122 (2019) 222001
37. First observation of the radiative decay $\Lambda_b^0 \rightarrow \Lambda \gamma$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 123 (2019) 031801

38. Measurement of charged hadron production in Z -tagged jets in proton-proton collisions at $\sqrt{s} = 8$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 123 (2019) 232001
39. A search for $\Xi_{cc}^{++} \rightarrow D^+ p K^- \pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1910 (2019) 124
40. Search for the lepton-flavour-violating decays $B_s^0 \rightarrow \tau^\pm \mu^\mp$ and $B^0 \rightarrow \tau^\pm \mu^\mp$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 123 (2019) 211801
41. Amplitude analysis of the $B_{(s)}^0 \rightarrow K^{*0} \bar{K}^{*0}$ decays and measurement of the branching fraction of the $B^0 \rightarrow K^{*0} \bar{K}^{*0}$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1907 (2019) 032
42. Measurement of CP -violating and mixing-induced observables in $B_s^0 \rightarrow \phi \gamma$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 123 (2019) 081802
43. Amplitude analysis of $B^\pm \rightarrow \pi^\pm K^+ K^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 123 (2019) 231802
44. Updated measurement of time-dependent CP -violating observables in $B_s^0 \rightarrow J/\psi K^+ K^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 79 (2019) 706
45. Measurement of CP observables in the process $B^0 \rightarrow D K^{*0}$ with two- and four-body D decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1908 (2019) 041
46. Precision measurement of the Λ_c^+ , Ξ_c^+ and Ξ_c^0 baryon lifetimes, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 100 (2019) 032001
47. Observation of the $\Lambda_b^0 \rightarrow \chi_{c1}(3872) p K^-$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1909 (2019) 028
48. Measurement of CP violation in the $B_s^0 \rightarrow \phi \phi$ decay and search for the $B^0 \rightarrow \phi \phi$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 12 (2019) 155
49. Observation of new resonances in the $\Lambda_b^0 \pi^+ \pi^-$ system, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 123 (2019) 152001
50. Model-independent method for measuring the angular coefficients of $B^0 \rightarrow D^{*-} \tau^+ \nu_\tau$ decays, D. Hill *et al.*, J. High Energy Phys. 1911 (2019) 133
51. Search for the lepton-flavour violating decays $B^+ \rightarrow K^+ \mu^\pm e^\mp$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 123 (2019) 241802
52. Measurement of the electron reconstruction efficiency at LHCb, R. Aaij *et al.*, LHCb Collaboration, J. Instrum 14 (2019) P11023
53. Measurement of the B_c^- meson production fraction and asymmetry in 7 and 13 TeV pp collisions, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 100 (2019) 112006

2018

1. Measurement of CP observables in $B^\pm \rightarrow D^{(*)}K^\pm$ and $B^\pm \rightarrow D^{(*)}\pi^\pm$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 777 (2018) 16-30
2. Measurement of the ratio of the $B^0 \rightarrow D^{*-}\tau^+\nu_\tau$ and $B^0 \rightarrow D^{*-}\mu^+\nu_\mu$ branching fractions using three-prong τ -lepton decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 120 (2018) 171802
3. First observation of forward $Z \rightarrow b\bar{b}$ production in pp collisions at $\sqrt{s} = 8$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 776 (2018) 430-439
4. Search for dark photons produced in 13 TeV pp collisions, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 120 (2018) 061801
5. Search for the lepton-flavour violating decays $B_{(s)}^0 \rightarrow e^\pm\mu^\mp$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 03 (2018) 078
6. Measurements of the branching fractions of $\Lambda_c^+ \rightarrow p\pi^-\pi^+$, $\Lambda_c^+ \rightarrow pK^-K^+$, and $\Lambda_c^+ \rightarrow p\pi^-K^+$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 03 (2018) 043
7. Test of Lepton Flavor Universality by the measurement of the $B^0 \rightarrow D^{*-}\tau^+\nu_\tau$ branching fraction using three-prong τ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 97 (2018) 072013
8. Measurement of the ratio of branching fractions $\mathcal{B}(B_c^+ \rightarrow J/\psi\tau^+\nu_\tau)/\mathcal{B}(B_c^+ \rightarrow J/\psi\mu^+\nu_\mu)$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 120 (2018) 121801
9. First observation of $B^+ \rightarrow D_s^+ K^+ K^-$ decays and a search for $B^+ \rightarrow D_s^+ \phi$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 01 (2018) 131
10. Measurement of branching fractions of charmless four-body Λ_b^0 and Ξ_b^0 decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 02 (2018) 098
11. Search for excited B_c^+ states, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 01 (2018) 138
12. Updated determination of D^0 - \overline{D}^0 mixing and CP violation parameters with $D^0 \rightarrow K^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 97 (2018) 031101
13. A measurement of the CP asymmetry difference in $\Lambda_c^+ \rightarrow pK^-K^+$ and $p\pi^-\pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 03 (2018) 182
14. Measurement of CP asymmetry in $B_s^0 \rightarrow D_s^\mp K^\pm$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 03 (2018) 059
15. Search for the rare decay $\Lambda_c^+ \rightarrow p\mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 97 (2018) 091101

16. Search for weakly decaying b -flavored pentaquarks, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 97 (2018) 032010
17. Amplitude analysis of the decay $\bar{B}^0 \rightarrow K_S^0 \pi^+ \pi^-$ and first observation of the CP asymmetry in $\bar{B}^0 \rightarrow K^*(892)^- \pi^+$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 120 (2018) 261801
18. First measurement of the CP -violating phase $\phi_s^{d\bar{d}}$ in $B_s^0 \rightarrow (K^+ \pi^-)(K^- \pi^+)$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 03 (2018) 140
19. Studies of the resonance structure in $D^0 \rightarrow K^\mp \pi^\pm \pi^\pm \pi^\mp$ decays, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 78 (2018) 443
20. Evidence for the rare decay $\Sigma^+ \rightarrow p \mu^+ \mu^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 120 (2018) 221803
21. Measurement of forward top pair production in the dilepton channel in pp collisions at $\sqrt{s} = 13$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 08 (2018) 174
22. Search for B_c^+ decays to two charm mesons, R. Aaij *et al.*, LHCb Collaboration, Nucl. Phys. B 930 (2018) 563-582
23. Measurement of the inelastic pp cross-section at a centre-of-mass energy of 13 TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2018) 100
24. Measurement of the CP asymmetry in $B^- \rightarrow D_s^- D^0$ and $B^- \rightarrow D^- D^0$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 05 (2018) 160
25. Evidence for the decay $B_s^0 \rightarrow \bar{K}^{*0} \mu^+ \mu^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2018) 020
26. Measurement of Υ production in pp collisions at $\sqrt{s}= 13$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2018) 134
27. Observation of the decay $\Lambda_b^0 \rightarrow \Lambda_c^+ pp \pi^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 784 (2018) 101-111
28. Measurement of CP violation in $B^0 \rightarrow D^\mp \pi^\pm$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2018) 084
29. Search for CP violation using triple product asymmetries in $\Lambda_b^0 \rightarrow p K^- \pi^+ \pi^-$, $\Lambda_b^0 \rightarrow p K^- K^+ K^-$ and $\Xi_b^0 \rightarrow p K^- K^- \pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1808 (2018) 039
30. Measurement of CP asymmetries in two-body $B_{(s)}^0$ -meson decays to charged pions and kaons, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 98 (2018) 032004
31. Observation of a new Ξ_b^- resonance, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 121 (2018) 072002

32. Measurement of D_s^\pm production asymmetry in pp collisions at $\sqrt{s} = 7$ and 8 TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 08 (2018) 008
33. Measurement of the CKM angle γ using $B^\pm \rightarrow DK^\pm$ with $D \rightarrow K_S^0\pi^+\pi^-$, $K_S^0K^+K^-$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 08 (2018) 176
34. Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K_S^0K_S^0$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 11 (2018) 048
35. Search for a dimuon resonance in the Υ mass region, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 09 (2018) 147
36. First measurement of the lifetime of the doubly charmed baryon Ξ_{cc}^{++} , R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 121 (2018) 052002
37. Central exclusive production of J/ψ and $\psi(2S)$ mesons in pp collisions at $\sqrt{s} = 13$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2018) 167
38. Measurement of $Z \rightarrow \tau^+\tau^-$ production in proton-proton collisions at $\sqrt{s} = 8$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 09 (2018) 159
39. Observation of the decay $\Lambda_b^0 \rightarrow \psi(2S)p\pi^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 08 (2018) 131
40. Search for beautiful tetraquarks in the $\Upsilon(1S)\mu^+\mu^-$ invariant-mass spectrum, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2018) 086
41. Observation of the decay $\overline{B}_s^0 \rightarrow \chi_{c2}K^+K^-$ in the ϕ mass region, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 08 (2018) 191
42. Measurement of angular and CP asymmetries in $D^0 \rightarrow \pi^+\pi^-\mu^+\mu^-$ and $D^0 \rightarrow K^+K^-\mu^+\mu^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 121 (2018) 091801
43. Observation of the decay $B_s^0 \rightarrow \overline{D}^0K^+K^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 98 (2018) 072006
44. Observation of $B_s^0 \rightarrow \overline{D}^{*0}\phi$ and search for $B^0 \rightarrow \overline{D}^0\phi$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 98 (2018) 071103
45. Measurement of the Ω_c^0 baryon lifetime, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 121 (2018) 092003
46. First observation of the doubly charmed baryon decay $\Xi_{cc}^{++} \rightarrow \Xi_c^+\pi^+$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 121 (2018) 162002
47. Search for CP violation in $\Lambda_b^0 \rightarrow pK^-$ and $\Lambda_b^0 \rightarrow p\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 787 (2018) 124-133
48. Angular moments of the decay $\Lambda_b^0 \rightarrow \Lambda\mu^+\mu^-$ at low hadronic recoil, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 09 (2018) 146

49. Measurement of antiproton production in pHe collisions at $\sqrt{s_{NN}} = 110$ GeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 121 (2018) 222001
 50. Search for lepton-flavour-violating decays of Higgs-like bosons, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 78 (2018) 1008
 51. Evidence for an $\eta_c(1S)\pi^-$ resonance in $B^0 \rightarrow \eta_c(1S)K^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 78 (2018) 1019
 52. Study of Υ production in $p\text{Pb}$ collisions at $\sqrt{s_{NN}} = 8.16$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 11 (2018) 194
- 2017
1. Amplitude analysis of $B^+ \rightarrow J/\psi\phi K^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 95 (2017) 012002
 2. Observation of $J/\psi\phi$ structures consistent with exotic states from amplitude analysis of $B^+ \rightarrow J/\psi\phi K^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 118 (2017) 022003
 3. Observation of $\eta_c(2S) \rightarrow p\bar{p}$ and search for $X(3872) \rightarrow p\bar{p}$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 769 (2017) 305-313
 4. Search for the suppressed decays $B^+ \rightarrow K^+K^+\pi^-$ and $B^+ \rightarrow \pi^+\pi^+K^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 765 (2017) 307-316
 5. First experimental study of photon polarization in radiative B_s^0 decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 118 (2017) 021801
 6. Measurement of matter-antimatter differences in beauty baryon decays, R. Aaij *et al.*, LHCb Collaboration, Nat. Phys 13 (2017) 391-396
 7. Observation of $B^+ \rightarrow J/\psi 3\pi^+ 2\pi^-$ and $B^+ \rightarrow \psi(2S)\pi^+\pi^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 77 (2017) 72
 8. Measurements of prompt charm production cross-sections in pp collisions at $\sqrt{s} = 5$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1706 (2017) 147
 9. Search for the CP -violating strong decays $\eta \rightarrow \pi^+\pi^-$ and $\eta'(958) \rightarrow \pi^+\pi^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 764 (2017) 233-240
 10. Observation of the decay $B_s^0 \rightarrow \phi\pi^+\pi^-$ and evidence for $B^0 \rightarrow \phi\pi^+\pi^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 95 (2017) 012006
 11. New algorithms for identifying the flavour of B^0 mesons using pions and protons, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 77 (2017) 238
 12. Measurement of forward $t\bar{t}$, $W+b\bar{b}$ and $W+c\bar{c}$ production in pp collisions at $\sqrt{s} = 8$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 767 (2017) 110-120
 13. Observation of the annihilation decay mode $B^0 \rightarrow K^+K^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 118 (2017) 081801

14. Measurement of CP asymmetry in $D^0 \rightarrow K^-K^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 767 (2017) 177-187
15. Measurements of charm mixing and CP violation using $D^0 \rightarrow K^\pm\pi^\mp$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 95 (2017) 052004
16. Search for decays of neutral beauty mesons into four muons, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1703 (2017) 001
17. Evidence for the two-body charmless baryonic decay $B^+ \rightarrow p\bar{\Lambda}$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 04 (2017) 162
18. Search for massive long-lived particles decaying semileptonically in the LHCb detector, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 77 (2017) 224
19. Observation of the decay $\Xi_b^- \rightarrow pK^-K^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 118 (2017) 071801
20. Search for CP violation in the phase space of $D^0 \rightarrow \pi^+\pi^-\pi^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 769 (2017) 345-356
21. Measurement of the b -quark production cross-section in 7 and 13 TeV pp collisions, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 118 (2017) 052002
22. Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B^+ \rightarrow J/\psi\pi^+$ and $B^+ \rightarrow J/\psi K^+$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1703 (2017) 036
23. Measurement of the phase difference between short- and long- distance amplitudes in the $B^+ \rightarrow K^+\mu^+\mu^-$ decay, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 77 (2017) 161
24. Averages of b -hadron, c -hadron, and τ -lepton properties as of summer 2016, Y. Amhis *et al.*, Eur. Phys. J. C 77 (2017) 895
25. Search for long-lived scalar particles in $b \rightarrow sl^+l^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 95 (2017) 071101
26. Measurement of the J/ψ pair production cross-section in pp collisions at $\sqrt{s} = 13$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2017) 047
27. Observation of $B_c^+ \rightarrow J/\psi D^{(*)}K^{(*)}$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 95 (2017) 032005
28. Search for the $B_s^0 \rightarrow \eta'\phi$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 05 (2017) 158
29. Observation of $B_c^+ \rightarrow D^0K^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 118 (2017) 111803
30. Measurement of CP asymmetries in $D^\pm \rightarrow \eta'\pi^\pm$ and $D_s^\pm \rightarrow \eta'\pi^\pm$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 771 (2017) 21-30

31. Study of J/ψ production in jets, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 118 (2017) 192001
32. Measurement of the B^\pm production asymmetry and the CP asymmetry in $B^\pm \rightarrow J/\psi K^\pm$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 95 (2017) 052005
33. Observation of the $\Xi_b^- \rightarrow J/\psi \Lambda K^-$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 772 (2017) 265-273
34. Study of the $D^0 p$ amplitude in $\Lambda_b^0 \rightarrow D^0 p \pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 05 (2017) 030
35. Observation of the suppressed decay $\Lambda_b^0 \rightarrow p \pi^- \mu^+ \mu^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1704 (2017) 029
36. Measurement of the CP violation parameter A_Γ in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \pi^+ \pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 118 (2017) 261803
37. Observation of the decay $B_s^0 \rightarrow \eta_c \phi$ and evidence for $B_s^0 \rightarrow \eta_c \pi^+ \pi^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2017) 021
38. Observation of the decay $\Lambda_b^0 \rightarrow p K^- \mu^+ \mu^-$ and a search for CP violation, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1706 (2017) 108
39. Search for the decays $B_s^0 \rightarrow \tau^+ \tau^-$ and $B^0 \rightarrow \tau^+ \tau^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 118 (2017) 251802
40. Measurement of the $B_s^0 \rightarrow \mu^+ \mu^-$ branching fraction and effective lifetime and search for $B^0 \rightarrow \mu^+ \mu^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 118 (2017) 191801
41. Measurement of B^0 , B_s^0 , B^+ and Λ_b^0 production asymmetries in 7 and 8 TeV proton-proton collisions, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 774 (2017) 139-158
42. First observation of a baryonic B_s^0 decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 119 (2017) 041802
43. Observation of the $B^+ \rightarrow D^{*-} K^+ \pi^+$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 96 (2017) 011101
44. Observation of the decays $\Lambda_b^0 \rightarrow \chi_{c1} p K^-$ and $\Lambda_b^0 \rightarrow \chi_{c2} p K^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 119 (2017) 062001
45. Observation of charmless baryonic decays $B_{(s)}^0 \rightarrow p \bar{p} h^+ h^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 96 (2017) 051103
46. Resonances and CP violation in B_s^0 and $\bar{B}_s^0 \rightarrow J/\psi K^+ K^-$ decays in the mass region above the $\phi(1020)$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 08 (2017) 037
47. Observation of five new narrow Ω_c^0 states decaying to $\Xi_c^+ K^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 118 (2017) 182001

48. Measurement of B_s^0 and D_s^- meson lifetimes, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 119 (2017) 101801
49. Test of lepton universality with $B^0 \rightarrow K^{*0}\ell^+\ell^-$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 08 (2017) 055
50. Updated search for long-lived particles decaying to jet pairs, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 77 (2017) 812
51. Improved limit on the branching fraction of the rare decay $K_s^0 \rightarrow \mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 77 (2017) 678
52. Study of charmonium production in b -hadron decays and first evidence for the decay $B_s^0 \rightarrow \phi\phi$, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 77 (2017) 609
53. Prompt and nonprompt J/ψ production and nuclear modification in $p\text{Pb}$ collisions at $\sqrt{s_{\text{NN}}} = 8.16$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 774 (2017) 159-178
54. Observation of the doubly charmed baryon Ξ_{cc}^{++} , R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 119 (2017) 112001
55. Updated branching fraction measurements of $B_{(s)}^0 \rightarrow K_s^0 h^+ h^-$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1711 (2017) 027
56. Study of prompt D^0 meson production in $p\text{Pb}$ collisions at $\sqrt{s} = 5\text{TeV}$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2017) 090
57. Study of prompt D^0 meson production in $p\text{Pb}$ collisions at $\sqrt{s_{\text{NN}}} = 5$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1710 (2017) 090
58. Observation of D^0 meson decays to $\pi^+\pi^-\mu^+\mu^-$ and $K^+K^-\mu^+\mu^-$ final states, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 119 (2017) 181805
59. Search for baryon-number-violating Ξ_b^0 oscillations, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 119 (2017) 181807
60. Study of $b\bar{b}$ correlations in high energy proton- proton collisions, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 11 (2017) 030
61. Measurement of the Υ polarizations in pp collisions at $\sqrt{s}=7$ and 8TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 12 (2017) 110
62. Measurement of the shape of the $\Lambda_b^0 \rightarrow \Lambda_c^+ \mu^- \bar{\nu}_\mu$ differential decay rate, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 96 (2017) 112005
63. Bose-Einstein correlations of same-sign charged pions in the forward region in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 12 (2017) 025
64. First observation of the rare purely baryonic decay $B^0 \rightarrow p\bar{p}$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 119 (2017) 232001

65. Measurement of CP violation in $B^0 \rightarrow J/\psi K_S^0$ and $B^0 \rightarrow \psi(2S)K_S^0$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 11 (2017) 170
66. Precise measurement of the χ_{c1} and χ_{c2} resonance parameters with the decays $\chi_{c1,c2} \rightarrow J/\psi \mu^+ \mu^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 119 (2017) 221801
67. Measurement of CP observables in $B^\pm \rightarrow DK^{*\pm}$ decays using two- and four-body D final states, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 11 (2017) 156
68. Measurement of the B^\pm production cross-section in pp collisions at $\sqrt{s} = 7$ and 13 TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1712 (2017) 026

2016

1. First observation of the decay $B_s^0 \rightarrow K_S^0 K^*(892)^0$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 01 (2016) 012
2. Study of the production of Λ_b^0 and $\bar{\Lambda}^0$ hadrons in pp collisions and first measurement of the $\Lambda_b^0 \rightarrow J/\psi p K^-$ branching fraction, R. Aaij *et al.*, LHCb Collaboration, Chin. Phys. C 40 (2016) 011001
3. Studies of the resonance structure in $D^0 \rightarrow K_S^0 K^\pm \pi^\mp$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 93 (2016) 052018
4. Model-independent measurement of mixing parameters in $D^0 \rightarrow K_S^0 \pi^+ \pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 04 (2016) 033
5. Measurements of prompt charm production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 03 (2016) 159
6. Production of associated Υ and open charm hadrons in pp collisions at $\sqrt{s} = 7$ and 8 TeV via double parton scattering, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2016) 052
7. First observation of the decay $D^0 \rightarrow K^- \pi^+ \mu^+ \mu^-$ in the ρ^0 - ω region of the dimuon mass spectrum, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 757 (2016) 558
8. Measurement of forward W and Z boson production in pp collisions at $\sqrt{s} = 8$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 01 (2016) 155
9. Search for the lepton-flavour violating decay $D^0 \rightarrow e^\pm \mu^\mp$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 754 (2016) 167
10. First observation of the rare $B^+ \rightarrow D^+ K^+ \pi^-$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 93 (2016) 051101(R)
11. Angular analysis of the $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 02 (2016) 104

12. Study of $D_{sJ}^{(*)+}$ mesons decaying to $D^{*+}K_S^0$ and $D^{*0}K^+$ final states, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 02 (2016) 133
13. Observation of the $B_s^0 \rightarrow J/\psi\phi\phi$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 03 (2016) 040
14. Study of $\psi(2S)$ production and cold nuclear matter effects in $p\text{Pb}$ collisions at $\sqrt{s_{NN}} = 5$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1603 (2016) 133
15. Constraints on the unitarity triangle angle γ from Dalitz plot analysis of $B^0 \rightarrow DK^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 93 (2016) 112018
16. Measurement of the difference of time-integrated CP asymmetries in $D^0 \rightarrow K^-K^+$ and $D^0 \rightarrow \pi^-\pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 116 (2016) 191601
17. A new algorithm for identifying the flavour of B_s^0 mesons at LHCb, R. Aaij *et al.*, LHCb Collaboration, J. Instrum 11 (2016) P05010
18. First observation of $D^0 - \bar{D}^0$ oscillations in $D^0 \rightarrow K^+\pi^-\pi^+\pi^-$ decays and measurement of the associated coherence parameters, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 116 (2016) 241801
19. Observations of $\Lambda_b^0 \rightarrow \Lambda K^+\pi^-$ and $\Lambda_b^0 \rightarrow \Lambda K^+K^-$ decays and searches for other Λ_b^0 and Ξ_b^0 decays to $\Lambda h^+h'^-$ final states, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 05 (2016) 081
20. Observation of $B_s^0 \rightarrow \bar{D}^0 K_S^0$ and evidence for $B_s^0 \rightarrow \bar{D}^{*0} K_S^0$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 116 (2016) 161802
21. Observation of the $\Lambda_b^0 \rightarrow \Lambda\phi$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 759 (2016) 282-292
22. Search for violations of Lorentz invariance and CPT symmetry in $B_{(s)}^0$ mixing, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 116 (2016) 241601
23. Search for B_c^+ decays to the $p\bar{p}\pi^+$ final state, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 759 (2016) 313-321
24. Observation of $\Lambda_b^0 \rightarrow \psi(2S)pK^-$ and $\Lambda_b^0 \rightarrow J/\psi\pi^+\pi^-pK^-$ decays and a measurement of the Λ_b^0 baryon mass, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 05 (2016) 132
25. Measurement of the $B_s^0 \rightarrow D_s^{(*)+}D_s^{(*)-}$ branching fractions, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 93 (2016) 092008
26. Measurement of CP observables in $B^\pm \rightarrow DK^\pm$ and $B^\pm \rightarrow D\pi^\pm$ with two- and four-body D decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 76 (2016) 117-131
27. Measurement of the mass and lifetime of the Ω_b^- baryon, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 93 (2016) 092007

28. Model-independent measurement of the CKM angle γ using $B^0 \rightarrow DK^{*0}$ decays with $D \rightarrow K_S^0\pi^+\pi^-$ and $K_S^0K^+K^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2016) 131
29. A precise measurement of the B^0 meson oscillation frequency, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 76 (2016) 412
30. Measurement of the properties of the Ξ_b^{*0} baryon, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 05 (2016) 161
31. Model-independent evidence for $J/\psi p$ contributions to $\Lambda_b^0 \rightarrow J/\psi p K^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 117 (2016) 082002
32. Angular analysis of $B^- \ell J/\psi K 1$: towards a model independent determination of the photon polarization with $B^- \ell K 1$ gamma, E. Kou *et al.*, Phys. Lett. B 763 (2016) 66-71
33. Measurement of forward W and Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 8$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 05 (2016) 131
34. Measurement of the CKM angle γ using $B^0 \rightarrow DK^{*0}$ with $D \rightarrow K_S^0\pi^+\pi^-$ decays, C. Abellán Beteta *et al.*, LHCb Collaboration, J. High Energy Phys. 08 (2016) 137
35. Measurement of the CP asymmetry in $B_s^0 - \bar{B}_s^0$ mixing, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 11 (2016) 061803
36. Measurements of the S-wave fraction in $B^0 \rightarrow K^+\pi^-\mu^+\mu^-$ decays and the $B^0 \rightarrow K^*(892)^0\mu^+\mu^-$ differential branching fraction, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1611 (2016) 047
37. Evidence for exotic hadron contributions to $\Lambda_b^0 \rightarrow J/\psi p \pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 117 (2016) 082003
38. Study of B_c^+ decays to the $K^+K^-\pi^+$ final state and evidence for the decay $B_c^+ \rightarrow \chi_{c0}\pi^+$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 94 (2016) 091102
39. Measurement of the forward Z boson production cross-section in pp collisions at $\sqrt{s} = 13$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 09 (2016) 136
40. Measurement of the $B_s^0 \rightarrow J/\psi \eta$ lifetime, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 762 (2016) 484-492
41. Measurement of the ratio of branching fractions $\mathcal{B}(B_c^+ \rightarrow J/\psi K^+)/\mathcal{B}(B_c^+ \rightarrow J/\psi \pi^+)$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 09 (2016) 153
42. Search for structure in the $B_s^0\pi^\pm$ invariant mass spectrum, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 117 (2016) 152003
43. Amplitude analysis of $B^- \rightarrow D^+\pi^-\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 94 (2016) 072001

44. Measurement of forward $W \rightarrow e\nu$ production in pp collisions at $\sqrt{s} = 8$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2016) 030
45. Measurement of the CP-violating phase and decay-width difference in $B_s^0 \rightarrow \psi(2S)\phi$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 762 (2016) 253-262
46. Measurement of CP violation in $B^0 \rightarrow D^+D^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 117 (2016) 261801
47. Search for Higgs-like bosons decaying into long-lived exotic particles, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 76 (2016) 664
48. Differential branching fraction and angular moments analysis of the decay $B^0 \rightarrow K^+\pi^-\mu^+\mu^-$ in the $K_{0,2}^*(1430)^0$ region, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1612 (2016) 065
49. Measurement of the CKM angle γ from a combination of LHCb results ${}^{40}\text{Ca} + {}^{58}\text{Ni}$ and ${}^{40}\text{Ca} + {}^{64}\text{Ni}$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 1612 (2016) 087

2015

1. Measurement of the track reconstruction efficiency at LHCb, R. Aaij *et al.*, LHCb Collaboration, J. Instrum 10 (2015) P02007
2. Determination of γ and $-2\beta_s$ from charmless two-body decays of beauty mesons, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 741 (2015) 1
3. Measurement of the $\eta_c(1S)$ production cross-section in proton-proton collisions via the decay $\eta_c(1S) \rightarrow p\bar{p}$, R. Aaij *et al.*, Eur. Phys. J. C 75 (2015) 311
4. Measurement of the semileptonic CP asymmetry in $B^0 - \overline{B}^0$ mixing, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 114 (2015) 041601
5. Search for the lepton flavour violating decay $\tau^- \rightarrow \mu^-\mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 02 (2015) 121
6. Search for CP violation in $D^0 \rightarrow \pi^-\pi^+\pi^0$ decays with the energy test, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 740 (2015) 158
7. Measurement of the Z+b-jet cross-section in pp collisions at $\sqrt{s} = 7$ TeV in the forward region, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 01 (2015) 064
8. Study of $\eta - \eta'$ mixing from measurement of $B_{(s)}^0 \rightarrow J/\psi\eta^{(\prime)}$ decay rates, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 01 (2015) 024
9. Measurement of the CP-violating phase β in $B^0 \rightarrow J/\psi\pi^+\pi^-$ decays and limits on penguin effects, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 742 (2015) 38-49
10. Precision measurement of CP violation in $B_s^0 \rightarrow J/\psi K^+K^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 114 (2015) 041801

11. Measurement of B_c^+ production in proton-proton collisions at $\sqrt{s} = 8$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 114 (2015) 132001
12. Observation of the rare $B_s^0 \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data, V. Khachatryan *et al.*, CMS Collaboration, LHCb Collaboration, Nature 522 (2015) 68-72
13. Observation of two new Ξ_b^- baryon resonances, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 114 (2015) 062004
14. Measurement of the lifetime of the B_c^+ meson using the $B_c^+ \rightarrow J/\psi \pi^+$ decay mode, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 742 (2015) 29-37
15. Measurement of the inelastic pp cross-section at a centre-of-mass energy of $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 02 (2015) 129
16. Search for long-lived particles decaying to jet pairs, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 75 (2015) 152
17. LHCb Detector Performance, R. Aaij *et al.*, LHCb Collaboration, Int. J. Mod. Phys. A 30 (2015) 1530022
18. Study of the rare B_s^0 and B^0 decays into the $\pi^+ \pi^- \mu^+ \mu^-$ final state, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 743 (2015) 46
19. Determination of the branching fractions of $B_S^0 \rightarrow D_S^- K$ and $B^0 \rightarrow D_S^- K^+$, R. Aaij *et al.*, J. High Energy Phys. 1505 (2015) 019
20. Angular analysis of the $B^0 \rightarrow K^{*0} e^+ e^-$ decay in the low- q^2 region, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 04 (2015) 064
21. Measurement of indirect CP asymmetries in $D^0 \rightarrow K^- K^+$ and $D^0 \rightarrow \pi^- \pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 04 (2015) 043
22. Precise measurements of the properties of the $B_1(5721)^{0,+}$ and $B_2^*(5747)^{0,+}$ states and observation of $B^{+,0} \pi^{-,+}$ mass structures, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 04 (2015) 024
23. Measurement of forward $Z \rightarrow e^+ e^-$ production at $\sqrt{s} = 8$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 05 (2015) 109
24. Measurement of CP asymmetries and polarisation fractions in $B_s^0 \rightarrow K^{*0} \bar{K}^{*0}$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2015) 166
25. Differential branching fraction and angular analysis of $\Lambda_b^0 \rightarrow \Lambda^0 \mu^+ \mu^-$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2015) 115
26. Observation of the decay $\overline{B}_s^0 \rightarrow \psi(2S) K^+ \pi^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 747 (2015) 484
27. Measurement of CP violation in $B^0 \rightarrow J/\psi K_S^0$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 115 (2015) 031601

28. Observation of the $B_s^0 \rightarrow \eta'\eta'$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 115 (2015) 051801
29. Measurement of the time-dependent CP asymmetries in $B_s^0 \rightarrow J/\psi K_S^0$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2015) 131
30. Observation of the $B^0 \rightarrow \rho^0\rho^0$ decay from an amplitude analysis of $B^0 \rightarrow (\pi^+\pi^-)(\pi^+\pi^-)$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 747 (2015) 468-478
31. First observation and measurement of the branching fraction for the decay $B_s^0 \rightarrow D_s^{*\mp} K^\pm$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2015) 130
32. Determination of the quark coupling strength $|V_{ub}|$ using baryonic decays, R. Aaij *et al.*, LHCb Collaboration, Nat. Phys 11 (2015) 743-747
33. A study of CP violation in $B^\mp \rightarrow Dh^\mp$ ($h = K, \pi$) with the modes $D \rightarrow K^\mp\pi^\pm\pi^0$, $D \rightarrow \pi^+\pi^-\pi^0$ and $D \rightarrow K^+K^-\pi^0$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 91 (2015) 112014
34. Quantum numbers of the $X(3872)$ state and orbital angular momentum in its $\rho^0 J/\psi$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 92 (2015) 011102
35. Identification of beauty and charm quark jets at LHCb, R. Aaij *et al.*, LHCb Collaboration, J. Instrum 10 (2015) P06013
36. First observation and amplitude analysis of the $B^- \rightarrow D^+ K^- \pi^-$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 91 (2015) 092002
37. Amplitude analysis of $B^0 \rightarrow \bar{D}^0 K^+ \pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 92 (2015) 012012
38. Search for the decay $B_s^0 \rightarrow \bar{D}^0 f_0(980)$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 08 (2015) 005
39. Dalitz plot analysis of $B^0 \rightarrow \bar{D}^0 \pi^+ \pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 92 (2015) 032002
40. Search for the $\Lambda_b^0 \rightarrow \Lambda\eta'$ and $\Lambda_b^0 \rightarrow \Lambda\eta$ decays with the LHCb detector, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 09 (2015) 006
41. Study of W boson production in association with beauty and charm, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 92 (2015) 052001
42. Study of $B^- \rightarrow DK^-\pi^+\pi^-$ and $B^- \rightarrow D\pi^-\pi^+\pi^-$ decays and determination of the CKM angle γ , R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 92 (2015) 112005
43. Measurement of the forward Z boson production cross- section in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 08 (2015) 039

44. Measurement of the exclusive Υ production cross- section in pp collisions at $\sqrt{s} = 7$ TeV and 8 TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 09 (2015) 084
45. First observation of top quark production in the forward region, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 115 (2015) 112001
46. Measurement of the ratio of branching fractions $\mathcal{B}(\overline{B}^0 \rightarrow D^{*+}\tau^-\bar{\nu}_\tau)/\mathcal{B}(\overline{B}^0 \rightarrow D^{*+}\mu^-\bar{\nu}_\mu)$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 115 (2015) 111803
47. Angular analysis and differential branching fraction of the decay $B_s^0 \rightarrow \phi\mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 09 (2015) 179
48. Search for long-lived heavy charged particles using a ring imaging Cherenkov technique at LHCb, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 75 (2015) 595
49. Observation of $J/\psi p$ resonances consistent with pentaquark states in $\Lambda_b^0 \rightarrow J/\psi K^- p$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 115 (2015) 072001
50. Measurement of the branching fraction ratio $\mathcal{B}(B_c^+ \rightarrow \psi(2S)\pi^+)/\mathcal{B}(B_c^+ \rightarrow J/\psi\pi^+)$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 92 (2015) 072007
51. B flavour tagging using charm decays at the LHCb experiment, R. Aaij *et al.*, LHCb Collaboration, J. Instrum 10 (2015) P10005
52. Measurement of the $B_s^0 \rightarrow \phi\phi$ branching fraction and search for the decay $B^0 \rightarrow \phi\phi$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2015) 053
53. Search for hidden-sector bosons in $B^0 \rightarrow K^{*0}\mu^+\mu^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 115 (2015) 161802
54. Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K_S^0\bar{K}_S^0$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2015) 055
55. First measurement of the differential branching fraction and CP asymmetry of the $B^\pm \rightarrow \pi^\pm\mu^+\mu^-$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2015) 034
56. Measurement of CP violation parameters and polarisation fractions in $B_s^0 \rightarrow J/\psi\overline{K}^{*0}$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 11 (2015) 082
57. Measurement of forward J/ψ production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2015) 172
58. Forward production of Υ mesons in pp collisions at $\sqrt{s} = 7$ and 8 TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 11 (2015) 103

59. Measurement of the forward-backward asymmetry in $Z/\gamma^* \rightarrow \mu^+\mu^-$ decays and determination of the effective weak mixing angle, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 11 (2015) 190
60. Model-independent confirmation of the $Z(4430)^-$ state, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 92 (2015) 112009
61. Evidence for the strangeness-changing weak decay $\Xi_b^- \rightarrow \Lambda_b^0\pi^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 115 (2015) 241801
62. Search for the rare decays $B^0 \rightarrow J/\psi\gamma$ and $B_s^0 \rightarrow J/\psi\gamma$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 92 (2015) 112002
63. Measurements of long-range near-side angular correlations in $\sqrt{s_{NN}} = 5\text{TeV}$ proton-lead collisions in the forward region, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 762 (2015) 473-483

2014

1. Measurement of the flavour-specific CP -violating asymmetry a_{sl}^s in B_s^0 decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 728 (2014) 607-615
2. Study of J/ψ production and cold nuclear matter effects in $p\text{Pb}$ collisions at $\sqrt{s_{NN}} = 5\text{ TeV}$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 02 (2014) 072
3. Measurement of the charge asymmetry in $B^\pm \rightarrow \phi K^\pm$ and search for $B^\pm \rightarrow \phi\pi^\pm$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 728 (2014) 85-94
4. Observation of $\bar{B}_{(s)}^0 \rightarrow J/\psi f_1(1285)$ decays and measurement of the $f_1(1285)$ mixing angle, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 112 (2014) 091802
5. Search for the decay $D^0 \rightarrow \pi^+\pi^-\mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 728 (2014) 234-243
6. Measurement of CP violation in the phase space of $B^\pm \rightarrow K^+K^-\pi^\pm$ and $B^\pm \rightarrow \pi^+\pi^-\pi^\pm$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 112 (2014) 011801
7. Measurements of indirect CP asymmetries in $D^0 \rightarrow K^-K^+$ and $D^0 \rightarrow \pi^-\pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 112 (2014) 041801
8. Search for CP violation in the decay $D^+ \rightarrow \pi^-\pi^+\pi^+$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 728 (2014) 585-595
9. Study of forward Z+jet production in pp collisions at $\sqrt{s} = 7\text{ TeV}$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 01 (2014) 033
10. Studies of beauty baryon decays to D^0ph^- and $\Lambda_c^+h^-$ final states, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 89 (2014) 032001

11. Measurement of the $\bar{B}_s^0 \rightarrow D_s^- D_s^+$ and $\bar{B}_s^0 \rightarrow D^- D_s^+$ effective lifetimes, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 112 (2014) 111802
12. Observation of associated production of a Z boson with a D meson in the forward region, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 04 (2014) 091
13. Updated measurements of exclusive J/ψ and $\psi(2S)$ production cross-sections in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. Phys. G-Nucl. Partic 41 (2014) 055002
14. Search for Majorana neutrinos in $B^- \rightarrow \pi^+ \mu^- \mu^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 112 (2014) 131802
15. Measurement of the B_c^+ meson lifetime using $B_c^+ \rightarrow J/\psi \mu^+ \nu_\mu X$ decays, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 74 (2014) 2839
16. Searches for Λ_b^0 and Ξ_b^0 decays to $K_S^0 p \pi^-$ and $K_S^0 p K^-$ final states with first observation of the $\Lambda_b^0 \rightarrow K_S^0 p \pi^-$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 04 (2014) 087
17. Measurement of Υ production in pp collisions at $\sqrt{s} = 2.76$ TeV, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 74 (2014) 2835
18. Measurements of the B^+ , B^0 , B_s^0 meson and Λ_b^0 baryon lifetimes, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 04 (2014) 114
19. A study of CP violation in $B^\pm \rightarrow DK^\pm$ and $B^\pm \rightarrow D\pi^\pm$ decays with $D \rightarrow K_S^0 K^\pm \pi^\mp$ final states, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 733 (2014) 36-45
20. Measurement of charged particle multiplicities and densities in pp collisions at $\sqrt{s} = 7$ TeV in the forward region, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 74 (2014) 2888
21. Precision measurement of the ratio of the Λ_b^0 to \bar{B}^0 lifetimes, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 734 (2014) 122-130
22. Measurement of resonant and CP components in $\bar{B}_s^0 \rightarrow J/\psi \pi^+ \pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 89 (2014) 092006
23. Observation of photon polarization in the $b \rightarrow s\gamma$ transition, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 112 (2014) 161801
24. Measurement of $\psi(2S)$ polarisation in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 74 (2014) 2872
25. Measurement of polarization amplitudes and CP asymmetries in $B^0 \rightarrow \phi K^*(892)^0$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 05 (2014) 069
26. Study of beauty hadron decays into pairs of charm hadrons, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 112 (2014) 202001

27. Differential branching fractions and isospin asymmetries of $B \rightarrow K^{(*)}\mu^+\mu^+$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2014) 133
28. Angular analysis of charged and neutral $B \rightarrow K\mu^+\mu^-$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 05 (2014) 082
29. Evidence for the decay $X(3872) \rightarrow \psi(2S)\gamma$, R. Aaij *et al.*, LHCb Collaboration, Nucl. Phys. B 886 (2014) 665-680
30. Evidence for the decay $B_c^+ \rightarrow J/\psi 3\pi^+ 2\pi^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 05 (2014) 148
31. Observation of the resonant character of the $Z(4430)^-$ state, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 112 (2014) 222002
32. Measurement of the resonant and CP components in $\bar{B}^0 \rightarrow J/\psi \pi^+ \pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 90 (2014) 012003
33. Measurement of the Ξ_b^- and Ω_b^- baryon lifetimes, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 736 (2014) 154-162
34. Measurement of CP asymmetry in $D^0 \rightarrow K^-K^+$ and $D^0 \rightarrow \pi^-\pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2014) 014
35. Observation of the $B_s^0 \rightarrow J/\psi K_S^0 K^\pm \pi^\mp$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2014) 140
36. Measurement of the CP-violating phase ϕ_s in $\bar{B}_s^0 \rightarrow J/\psi \pi^+ \pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 736 (2014) 186
37. Study of Υ production and cold nuclear matter effects in pPb collisions at $\sqrt{s_{NN}} = 5$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2014) 094
38. Study of the kinematic dependences of Λ_b^0 production in pp collisions and a measurement of the $\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-$ branching fraction, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 08 (2014) 143
39. Observation of the $\Lambda_b^0 \rightarrow J/\psi p \pi^-$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2014) 103
40. Search for CP violation in $D^\pm \rightarrow K_S^0 K^\pm$ and $D_s^\pm \rightarrow K_S^0 \pi^\pm$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2014) 25
41. Observation of Z production in proton-lead collisions at LHCb, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 09 (2014) 030
42. First measurement of the charge asymmetry in beauty-quark pair production, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 113 (2014) 082003
43. Test of lepton universality using $B^+ \rightarrow K^+ \ell^+ \ell^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 113 (2014) 151601

44. Effective lifetime measurements in the $B_s^0 \rightarrow K^+K^-$, $B^0 \rightarrow K^+\pi^-$ and $B_s^0 \rightarrow \pi^+K^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 736 (2014) 446-454
45. Measurement of CP violation in $B_s^0 \rightarrow \phi\phi$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 90 (2014) 052011
46. Precision measurement of the mass and lifetime of the Ξ_b^0 baryon, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 113 (2014) 032001
47. Observation of charmonium pairs produced exclusively in pp collisions, R. Aaij *et al.*, LHCb Collaboration, J. Phys. G-Nucl. Partic 41 (2014) 115002
48. Measurement of the \bar{B}_s^0 meson lifetime in $D_s^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 113 (2014) 172001
49. Evidence of CP violation in $B^+ \rightarrow p\bar{p}K^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 113 (2014) 141801
50. Measurement of CP violation and constraints on the CKM angle γ in $B^\pm \rightarrow DK^\pm$ with $D \rightarrow K_S^0\pi^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Nucl. Phys. B 888 (2014) 169-193
51. Measurement of CP asymmetry in $B_s^0 \rightarrow D_s^\mp K^\pm$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 11 (2014) 060
52. Measurement of the ratio of B_c^+ branching fractions to $J/\psi\pi^+$ and $J/\psi\mu^+\nu_\mu$ final states, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 90 (2014) 032009
53. Observation of overlapping spin-1 and spin-3 \bar{D}^0K^- resonances at mass $2.86\text{GeV}/c^2$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 113 (2014) 162001
54. Observation of $B_s^0 \rightarrow K^{*\pm}K^\mp$ and evidence for $B_s^0 \rightarrow K^{*-}\pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, New J. Phys 16 (2014) 123001
55. Study of χ_b meson production in pp collisions at $\sqrt{s} = 7$ and 8TeV and observation of the decay $\chi_b(3P) \rightarrow \Upsilon(3S)\gamma$, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 74 (2014) 3092
56. Measurement of CP violation parameters in $B^0 \rightarrow DK^{*0}$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 90 (2014) 112002
57. Measurement of the $\bar{B}^0 - B^0$ and $\bar{B}_s^0 - B_s^0$ production asymmetries in pp collisions at $\sqrt{s} = 7\text{ TeV}$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 739 (2014) 218-228
58. First observations of the rare decays $B^+ \rightarrow K^+\pi^+\pi^-\mu^+\mu^-$ and $B^+ \rightarrow \phi K^+\mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2014) 064
59. Measurement of CP asymmetries in the decays $B^0 \rightarrow K^{*0}\mu^+\mu^-$ and $B^+ \rightarrow K^+\mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 09 (2014) 177

60. First observation of a baryonic B_c^+ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 113 (2014) 152003
61. Dalitz plot analysis of $B_s^0 \rightarrow \bar{D}^0 K^- \pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 90 (2014) 072003
62. Search for CP violation using T -odd correlations in $D^0 \rightarrow K^+ K^- \pi^+ \pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2014) 005
63. Measurement of the CKM angle γ using $B^\pm \rightarrow DK^\pm$ with $D \rightarrow K_S^0 \pi^+ \pi^-$, $K_S^0 K^+ K^-$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2014) 097
64. Measurement of the forward W boson cross-section in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 12 (2014) 079
65. Measurements of CP violation in the three-body phase space of charmless B^\pm decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 90 (2014) 112004
66. Measurement of the $\chi_b(3P)$ mass and of the relative rate of $\chi_{b1}(1P)$ and $\chi_{b2}(1P)$ production, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2014) 088
67. Measurement of the CP -violating phase ϕ_s in $\bar{B}_s^0 \rightarrow D_s^+ D_s^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 113 (2014) 211801
68. Precision measurement of the mass and lifetime of the Ξ_b^- baryon, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 113 (2014) 242002
69. Precision luminosity measurements at LHCb, R. Aaij *et al.*, LHCb Collaboration, J. Instrum 9 (2014) P12005

2013

1. Implications of LHCb measurements and future prospects, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 73 (2013) 2373
2. Search for the rare decay $K_S^0 \rightarrow \mu^+ \mu^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 01 (2013) 090
3. Differential branching fraction and angular analysis of the $B^+ \rightarrow K^+ \mu^+ \mu^-$ decay, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 02 (2013) 105
4. First evidence for the annihilation decay mode $B^+ \rightarrow D_s^+ \phi$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 02 (2013) 043
5. Evidence for the decay $B^0 \rightarrow J/\psi \omega$ and measurement of the relative branching fractions of B_s^0 meson decays to $J/\psi \eta$ and $J/\psi \eta'$, R. Aaij *et al.*, LHCb Collaboration, Nucl. Phys. B 867 (2013) 547-566

6. Measurement of the D^\pm production asymmetry in 7 TeV pp collisions, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 718 (2013) 902-909
7. Measurement of the CP asymmetry in $B^0 \rightarrow K^{*0}\mu^+\mu^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 110 (2013) 031801
8. Observation of $D^0 - \bar{D}^0$ oscillations, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 110 (2013) 101802
9. Measurement of the $B^0 - \bar{B}^0$ oscillation frequency Δm_d with the decays $B^0 \rightarrow D^-\pi^+$ and $B^0 \rightarrow J/\psi K^{*0}$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 719 (2013) 318-325
10. A study of the Z production cross-section in pp collisions at $\sqrt{s} = 7$ TeV using tau final states, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 01 (2013) 111
11. First Evidence for the Decay $B_s^0 \rightarrow \mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 110 (2013) 021801
12. The LHCb Trigger and its Performance in 2011, R. Aaij *et al.*, LHCb Collaboration, J. Instrum 8 (2013) P04022
13. Measurement of the time-dependent CP asymmetry in $B^0 \rightarrow J/\psi K_S^0$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 721 (2013) 24-31
14. First observation of the $B_{s2}^*(5840)^0 \rightarrow B^{*+}K^-$ and studies of excited B_s^0 mesons, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 110 (2013) 151803
15. Measurement of J/ψ production in pp collisions at $\sqrt{s} = 2.76$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 02 (2013) 041
16. Measurement of the forward energy flow in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 73 (2013) 2421
17. Measurement of the cross-section for $Z \rightarrow e^+e^-$ production in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 02 (2013) 106
18. Measurement of CP observables in $B^0 \rightarrow DK^{*0}$ with $D \rightarrow K^+K^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 03 (2013) 067
19. Measurement of the fragmentation fraction ratio f_s/f_d and its dependence on B meson kinematics, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 04 (2013) 001
20. Analysis of the resonant components in $\bar{B}^0 \rightarrow J/\psi\pi^+\pi^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 87 (2013) 052001
21. Exclusive J/ψ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. Phys. G-Nucl. Partic 40 (2013) 045001
22. Measurement of the Λ_b^0 , Ξ_b^- and Ω_b^- baryon masses, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 110 (2013) 182001

23. Amplitude analysis and the branching fraction measurement of $\bar{B}_s^0 \rightarrow J/\psi K^+ K^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 87 (2013) 072004
24. Prompt charm production in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, Nucl. Phys. B 871 (2013) 1-20
25. Determination of the $X(3872)$ meson quantum numbers, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 110 (2013) 222001
26. Observation of the $B_s^0 \rightarrow \psi(2S)\eta$ and $B_{(s)}^0 \rightarrow \psi(2S)\pi^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Nucl. Phys. B 871 (2013) 403-419
27. Measurements of the $\Lambda_b^0 \rightarrow J/\psi\Lambda$ decay amplitudes and the Λ_b^0 polarisation in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 724 (2013) 27
28. Observation of the decay $B_c^+ \rightarrow \psi(2S)\pi^+$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 87 (2013) 071103
29. Search for direct CP violation in $D^0 \rightarrow h^- h^+$ modes using semileptonic B decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 723 (2013) 33-43
30. Search for the decay $B_s^0 \rightarrow D^{*\mp}\pi^\pm$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 87 (2013) 071101
31. First observations of $\bar{B}_s^0 \rightarrow D^+D^-$, $D_s^+D^-$ and $D^0\bar{D}^0$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 87 (2013) 092007
32. Search for rare $B_{(s)}^0 \rightarrow \mu^+\mu^-\mu^+\mu^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 110 (2013) 1528276
33. Observation of the suppressed ADS modes $B^\pm \rightarrow [\pi^\pm K^\mp\pi^+\pi^-]_D K^\pm$ and $B^\pm \rightarrow [\pi^\pm K^\mp\pi^+\pi^-]_D \pi^\pm$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 723 (2013) 44-53
34. Search for CP violation in $D^+ \rightarrow \phi\pi^+$ and $D_s^+ \rightarrow K_S^0\pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2013) 112
35. First measurement of the CP -violating phase in $B_s^0 \rightarrow \phi\phi$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 110 (2013) 241802
36. Measurement of CP violation and the B_s^0 meson decay width difference with $B_s^0 \rightarrow J/\psi K^+ K^-$ and $B_s^0 \rightarrow J/\psi\pi^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 87 (2013) 112010
37. Limits on neutral Higgs boson production in the forward region in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 05 (2013) 132
38. Differential branching fraction and angular analysis of the decay $B^0 \rightarrow K^{*0}\mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 08 (2013) 131
39. Measurement of the effective $B_s^0 \rightarrow J/\psi K_S^0$ lifetime, R. Aaij *et al.*, LHCb Collaboration, Nucl. Phys. B 873 (2013) 275-292

40. Observation of $B_c^+ \rightarrow J/\psi D_s^+$ and $B_c^+ \rightarrow J/\psi D_s^{*+}$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 87 (2013) 112012
41. Searches for violation of lepton flavour and baryon number in tau lepton decays at LHCb, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 724 (2013) 36-45
42. Precision measurement of the $B_s^0 - \bar{B}_s^0$ oscillation frequency with the decay $B_s^0 \rightarrow D_s^- \pi^+$, R. Aaij *et al.*, LHCb Collaboration, New J. Phys 15 (2013) 053021
43. Measurement of the branching fractions of the decays $B_s^0 \rightarrow \bar{D}^0 K^- \pi^+$ and $B^0 \rightarrow \bar{D}^0 K^+ \pi^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 87 (2013) 112009
44. Search for $D_{(s)}^+ \rightarrow \pi^+ \mu^+ \mu^-$ and $D_{(s)}^+ \rightarrow \pi^- \mu^+ \mu^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 724 (2013) 203-212
45. Measurements of the branching fractions of $B^+ \rightarrow p\bar{p}K^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 73 (2013) 2462
46. First observation of CP violation in the decays of B_s^0 mesons, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 110 (2013) 221601
47. Precision measurement of D meson mass differences, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2013) 065
48. Measurement of the $B^0 \rightarrow K^{*0} e^+ e^-$ branching fraction at low dilepton mass, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 05 (2013) 159
49. Production of J/ψ and Υ mesons in pp collisions at $\sqrt{s} = 8$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2013) 064
50. Differential branching fraction and angular analysis of the decay $B_s^0 \rightarrow \phi \mu^+ \mu^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2013) 084
51. Measurement of the CKM angle γ from a combination of $B^\pm \rightarrow Dh^\pm$ analyses, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 726 (2013) 151-163
52. Study of $B^0 \rightarrow D^{*-} \pi^+ \pi^- \pi^+$ and $B^0 \rightarrow D^{*-} K^+ \pi^- \pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 87 (2013) 092001
53. Search for the rare decay $D^0 \rightarrow \mu^+ \mu^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 725 (2013) 15-24
54. Observation of $B_s^0 \rightarrow \chi_{c1}\phi$ decay and study of $B^0 \rightarrow \chi_{c1,2} K^{*0}$ decays, R. Aaij *et al.*, LHCb Collaboration, Nucl. Phys. B 874 (2013) 663-678
55. First observation of the decay $B_s^0 \rightarrow \phi \bar{K}^{*0}$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 11 (2013) 092

56. Measurement of the differential branching fraction of the decay $\Lambda_b^0 \rightarrow \Lambda\mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 725 (2013) 25–35
57. Measurement of CP violation in the phase space of $B^\pm \rightarrow K^\pm\pi^+\pi^-$ and $B^\pm \rightarrow K^\pm K^+K^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 111 (2013) 101801
58. Searches for $B_{(s)}^0 \rightarrow J/\psi p\bar{p}$ and $B^+ \rightarrow J/\psi p\bar{p}\pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 09 (2013) 006
59. First observation of the decay $B_c^+ \rightarrow J/\psi K^+$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 09 (2013) 075
60. Measurement of B meson production cross-sections in proton-proton collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 08 (2013) 117
61. Precision measurement of the Λ_b^0 baryon lifetime, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 111 (2013) 102003
62. Measurement of the polarization amplitudes in $B^0 \rightarrow J/\psi K^*(892)^0$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 88 (2013) 052002
63. Measurement of the relative rate of prompt χ_{c0} , χ_{c1} and χ_{c2} production at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2013) 115
64. Study of D_J meson decays to $D^+\pi^-$, $D^0\pi^+$ and $D^{*+}\pi^-$ final states in pp collisions, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 09 (2013) 145
65. Measurement of the $B_s^0 \rightarrow \mu^+\mu^-$ branching fraction and search for $B^0 \rightarrow \mu^+\mu^-$ decays at the LHCb experiment, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 111 (2013) 101805
66. Studies of the decays $B^+ \rightarrow p\bar{p}l^+$ and observation of $B^+ \rightarrow \bar{\Lambda}(1520)p$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 88 (2013) 052015
67. Measurement of J/ψ polarization in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 73 (2013) 2631
68. Observation of a resonance in $B^+ \rightarrow K^+\mu^+\mu^-$ decays at low recoil, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 111 (2013) 112003
69. Study of $B_{(s)}^0 \rightarrow K_s^0 h^+h'^-$ decays with first observation of $B_s^0 \rightarrow K_s^0 K^\pm\pi^\mp$ and $B_s^0 \rightarrow K_s^0 \pi^+\pi^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2013) 143
70. First evidence for the two-body charmless baryonic decay $B^0 \rightarrow p\bar{p}$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2013) 005
71. Measurement of the CP asymmetry in $B^+ \rightarrow K^+\mu^+\mu^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 111 (2013) 151801
72. Search for the lepton-flavor violating decays $B_s^0 \rightarrow e^\pm\mu^\mp$ and $B^0 \rightarrow e^\pm\mu^\mp$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 111 (2013) 141801

73. Branching fraction and CP asymmetry of the decays $B^+ \rightarrow K_s^0\pi^+$ and $B^+ \rightarrow K_s^0K^+$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 726 (2013) 646-655
74. Measurement of form-factor independent observables in the decay $B^0 \rightarrow K^{*0}\mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 111 (2013) 191801
75. Observation of B_s^0 - \bar{B}_s^0 mixing and measurement of mixing frequencies using semileptonic B decays, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 73 (2013) 2655
76. First measurement of time-dependent CP violation in $B_s^0 \rightarrow K^+K^-$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2013) 183
77. Model-independent search for CP violation in $D^0 \rightarrow K^-K^+\pi^-\pi^+$ and $D^0 \rightarrow \pi^-\pi^+\pi^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 726 (2013) 623-633
78. Observation of the decay $B_c^+ \rightarrow B_s^0\pi^+$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 111 (2013) 181801
79. Observation of the decay $B_s^0 \rightarrow \bar{D}^0\phi$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 727 (2013) 403-411
80. First observation of $\bar{B}^0 \rightarrow J/\psi K^+K^-$ and search for $\bar{B}^0 \rightarrow J/\psi\phi$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 88 (2013) 072005
81. Observation of the decay $B_c^+ \rightarrow J/\psi K^+K^-\pi^+$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 11 (2013) 094
82. Measurement of D^0 - \bar{D}^0 mixing parameters and search for CP violation using $D^0 \rightarrow K^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 111 (2013) 251801
83. Search for the doubly charmed baryon Ξ_{cc}^+ , R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 12 (2013) 090

2012

1. Observation of J/ψ pair production in pp collisions at $\sqrt{s}=7$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 707 (2012) 52-59
2. Search for the lepton number violating decays $B^+ \rightarrow \pi^-\mu^+\mu^+$ and $B^+ \rightarrow K^-\mu^+\mu^+$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 108 (2012) 101601
3. Absolute luminosity measurements with the LHCb detector at the LHC, R. Aaij *et al.*, LHCb Collaboration, J. Instrum 7 (2012) P01010
4. Measurement of the effective $B_s^0 \rightarrow K^+K^-$ lifetime, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 707 (2012) 349-356
5. Measurement of b hadron production fractions in 7 TeV pp collisions, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 85 (2012) 032008

6. First observation of the decay $B_s^0 \rightarrow K^{*0}\bar{K}^{*0}$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 709 (2012) 50–58
7. Evidence for CP violation in time-integrated $D^0 \rightarrow h^-h^+$ decay rates, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 108 (2012) 111602
8. Search for the rare decays $B_s^0 \rightarrow \mu^+\mu^-$ and $B^0 \rightarrow \mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 708 (2012) 55–67
9. Measurement of the CP violating phase ϕ_s in $\bar{B}_s^0 \rightarrow J/\psi f_0(980)$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 707 (2012) 497–505
10. Measurement of the CP-violating phase ϕ_s in the decay $B_s^0 \rightarrow J/\psi\phi$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 108 (2012) 101803
11. Differential branching fraction and angular analysis of the decay $B^0 \rightarrow K^{*0}\mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 108 (2012) 181806
12. Measurement of the $B_s^0 - \bar{B}_s^0$ oscillation frequency Δm_s in $B_s^0 \rightarrow D_s^-(3)\pi$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 709 (2012) 177–184
13. Measurement of charged particle multiplicities in pp collisions at $\sqrt{s} = 7$ TeV in the forward region, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 72 (2012) 1947
14. Measurement of mixing and CP violation parameters in two- body charm decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 04 (2012) 129
15. Observation of $\bar{B}_s^0 \rightarrow J/\psi f'_2(1525)$ in $J/\psi K^+K^-$ final states, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 108 (2012) 151801
16. Measurement of b -hadron masses, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 708 (2012) 241–248
17. Observation of $X(3872)$ production in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 72 (2012) 1972
18. First observation of the decays $\bar{B}^0 \rightarrow D^+K^-\pi^+\pi^-$ and $B^- \rightarrow D^0K^-\pi^+\pi^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 108 (2012) 161801
19. Searches for Majorana neutrinos in B^- decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 85 (2012) 112004
20. Measurement of the cross-section ratio $\sigma(\chi_{c2})/\sigma(\chi_{c1})$ for prompt χ_c production at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 714 (2012) 215–223
21. Determination of the sign of the decay width difference in the B_s^0 system, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 108 (2012) 241801
22. Search for the $X(4140)$ state in $B^+ \rightarrow J/\psi\phi K^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 85 (2012) 091103

23. Measurement of the B^\pm production cross-section in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 04 (2012) 093
24. Opposite-side flavour tagging of B mesons at the LHCb experiment, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 72 (2012) 2022
25. First evidence of direct CP violation in charmless two- body decays of B_s^0 mesons, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 108 (2012) 201601
26. Measurement of Υ production in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 72 (2012) 2025
27. Measurement of the ratio of branching fractions $\mathcal{B}(B^0 \rightarrow K^{*0}\gamma)/\mathcal{B}(B_s^0 \rightarrow \phi\gamma)$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 85 (2012) 112013
28. Measurements of the branching fractions and CP asymmetries of $B^\pm \rightarrow J/\psi\pi^\pm$ and $B^\pm \rightarrow \psi(2S)\pi^\pm$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 85 (2012) 091105(R)
29. Observation of CP violation in $B^\pm \rightarrow DK^\pm$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 712 (2012) 203-212
30. Strong constraints on the rare decays $B_s^0 \rightarrow \mu^+\mu^-$ and $B^0 \rightarrow \mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 108 (2012) 231801
31. Measurement of $\psi(2S)$ meson production in pp collisions at $\sqrt{s}=7$ TeV, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 72 (2012) 2100
32. Inclusive W and Z production in the forward region at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2012) 058
33. Measurement of the polarization amplitudes and triple product asymmetries in the $B_s^0 \rightarrow \phi\phi$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 713 (2012) 369-377
34. First observation of decay $B_c^+ \rightarrow J/\psi\pi^+\pi^-\pi^+$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 108 (2012) 251802
35. Measurement of the ratio of prompt χ_c to J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 718 (2012) 431-440
36. Measurement of the branching fractions of the decays $B_s^0 \rightarrow D_s^\mp K^\pm$ and $B_s^0 \rightarrow D_s^-\pi^+$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2012) 115
37. Analysis of the resonant components in $\overline{B}_s^0 \rightarrow J/\psi\pi^+\pi^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 86 (2012) 052006
38. Measurement of the CP -violating phase ϕ_s in $\overline{B}_s^0 \rightarrow J/\psi\pi^+\pi^-$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 713 (2012) 378-386

39. Measurement of the isospin asymmetry in $B \rightarrow K^{(*)}\mu^+\mu^-$ decays, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 07 (2012) 133
40. Measurement of the $D_s^+ - D_s^-$ production asymmetry in 7 TeV pp collisions, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 713 (2012) 186-195
41. Observation of double charm production involving open charm in pp collisions at $\sqrt{s}=7$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 06 (2012) 141
42. Measurement of relative branching fractions of B decays to $\psi(2S)$ and J/ψ mesons, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 72 (2012) 2118
43. Measurement of the $B_s^0 \rightarrow J/\psi K_S^0$ branching fraction, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 713 (2012) 172-179
44. Observation of excited Λ_b^0 baryons, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 109 (2012) 172003
45. Measurement of b -hadron branching fractions for two-body decays into charmless charged hadrons, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2012) 037
46. Measurement of prompt hadron production ratios in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 72 (2012) 2168
47. Measurement of the \bar{B}_s^0 effective lifetime in the $J/\psi f_0(980)$ final state, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 109 (2012) 152002
48. Study of D_{sJ} decays to $D^+K_S^0$ and D^0K^+ final states in pp collisions, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 10 (2012) 151
49. Measurement of the effective $B_s^0 \rightarrow K^+K^-$ lifetime, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 716 (2012) 393-400
50. Observation of $B^0 \rightarrow \bar{D}^0K^+K^-$ and evidence of $B_s^0 \rightarrow \bar{D}^0K^+K^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 109 (2012) 131801
51. Measurement of the $B_s^0 \rightarrow J/\psi \bar{K}^{*0}$ branching fraction and angular amplitudes, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 86 (2012) 071102
52. Measurement of the ratio of branching fractions $B(B^0 \rightarrow K^{*0}\gamma)/B(B_s^0 \rightarrow \phi\gamma)$ and the direct CP asymmetry in $B^0 \rightarrow K^{*0}\gamma$, R. Aaij *et al.*, LHCb Collaboration, Nucl. Phys. B 867 (2012) 1-18
53. Measurement of the fraction of $\Upsilon(1S)$ originating from $\chi_b(1P)$ decays in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 11 (2012) 031
54. A model-independent Dalitz plot analysis of $B^\pm \rightarrow DK^\pm$ with $D \rightarrow K_S^0 h^+h^-$ ($h = \pi, K$) decays and constraints on the CKM angle γ , R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 718 (2012) 43-55
55. Measurements of B_c^+ production and mass with the $B_c^+ \rightarrow J/\psi\pi^+$ decay, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 109 (2012) 232001

56. First observation of the decay $B^+ \rightarrow \pi^+\mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 12 (2012) 125
57. First observation of the decays $\bar{B}_{(s)}^0 \rightarrow D_s^+ K^- \pi^+ \pi^-$ and $\bar{B}_s^0 \rightarrow D_{s1}(2536)^+ \pi^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 86 (2012) 112005

2011

1. First observation of $B_s^0 \rightarrow J/\psi f_0(980)$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 698 (2011) 115-122
2. First observation of $\bar{B}_s^0 \rightarrow D_{s2}^{*+} X \mu^- \bar{\nu}$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 698 (2011) 14-20
3. Measurement of J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, Eur. Phys. J. C 71 (2011) 1645
4. Search for the rare decays $B_s^0 \rightarrow \mu^+\mu^-$ and $B^0 \rightarrow \mu^+\mu^-$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 699 (2011) 330-340
5. Determination of f_s/f_d for 7 TeV pp collisions and a measurement of the branching fraction of the decay $B^0 \rightarrow D^- K^+$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. Lett 107 (2011) 211801
6. Measurement of V^0 production ratios in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV, R. Aaij *et al.*, LHCb Collaboration, J. High Energy Phys. 08 (2011) 034
7. Measurement of the inclusive ϕ cross-section in pp collisions at $\sqrt{s} = 7$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 703 (2011) 267-273
8. Measurements of the Branching fractions for $B_{(s)} \rightarrow D_{(s)}\pi\pi\pi$ and $\Lambda_b^0 \rightarrow \Lambda_c^+\pi\pi\pi$, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 84 (2011) 092001
9. First observation of the decay $\bar{B}_s^0 \rightarrow D^0 K^{*0}$ and a measurement of the ratio of branching fractions $\frac{\mathcal{B}(\bar{B}_s^0 \rightarrow D^0 K^{*0})}{\mathcal{B}(\bar{B}_s^0 \rightarrow D^0 \rho^0)}$, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 706 (2011) 32-39
10. Search for CP violation in $D^+ \rightarrow K^- K^+ \pi^+$ decays, R. Aaij *et al.*, LHCb Collaboration, Phys. Rev. D 84 (2011) 112008

2010

1. Prompt K_S^0 production in pp collisions at $\sqrt{s} = 0.9$ TeV, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 693 (2010) 69-80
2. Measurement of $\sigma(pp \rightarrow b\bar{b}X)$ at $\sqrt{s} = 7$ TeV in the forward region, R. Aaij *et al.*, LHCb Collaboration, Phys. Lett. B 694 (2010) 209-216

acte de conférence

2024

1. LHCb measurements on semileptonic decays of b -hadrons, C. Chen, PoS, EPS-HEP2023, 2023 European Physical Society Conference on High Energy Physics (2024) 338, Hamburg, Germany, 21-25 Aug 2023

2021

1. Evolution of the energy efficiency of LHCb's real-time processing, R. Aaij, D. H. Cámpora Pérez, T. Colombo, C. Fitzpatrick, V. V. Gligorov, A. Hennequin, N. Neufeld, N. Nolte, R. Schwemmer, D. Vom Bruch, EPJ Web Conf., 251, 25th International Conference on Computing in High-Energy and Nuclear Physics (CHEP) (2021) 04009, Online, indéfini, 17-21 May 2021

2018

1. Tests of lepton universality with semitauonic b-quark decays, O. Leroy, PoS, ICHEP2018, 39th International Conference on High Energy Physics (2018) 126, Seoul, Korea, 4-11 Jul 2018
2. Using TensorFlow for amplitude fits: The TensorFlowAnalysis package, A. Morris, A. Poluektov, A. Mauri, A. Merli, A.Mathad, M. Martinelli, indéfini, PyHEP workshop (2018), Sofia, Bulgaria, 7-8 Jui 2018

2017

1. Summary of the CKM 2016 working group on rare decays, A. Ishikawa, E. Lunghi, M. Moulson, J. Serrano, PoS, CKM2016, 9th International Workshop on the CKM Unitarity Triangle (2017) 016, Mumbai, India, 28 Nov - 03 Dec 2016
2. Lepton Flavour Violation in Tau Decays: Results and Prospects at the LHC, K. De Bruyn, Nucl.Part.Phys.Proc, 287-288, The 14th International Workshop on Tau Lepton Physics (Tau2016) (2017) 164-167, Beijing, China, 18-23 Sep 2016
3. Tests of Lepton Universality at LHCb, K. A. De Bruyn, N.P.P.P., 287-288, The 14th International Workshop on Tau Lepton Physics (Tau2016) (2017) 177-180, Beijing, China, 18-23 Sep 2016
4. Rare decays and exotic states in quark flavour physics, J. Serrano, PoS, EPS-HEP2017, 2017 European Physical Society Conference on High Energy Physics (2017) 602, Venice, Italy, 5-12 Jul 2017

2016

1. EW and radiative penguin transitions from B-factories, S. Akar, PoS, BEAUTY2016, 16th International Conference on B-Physics at Frontier Machines (2016) 040, Marseille, France, 2-6 May 2016

2. A Roadmap to Controlling Penguin Effects in ϕ_d and ϕ_s , K. De Bruyn, PoS, BEAUTY2016, 16th International Conference on B-Physics at Frontier Machines (2016) 004, Marseille, France, 2-6 May 2016
3. Editorial: Beauty in the South of France, O. Leroy, R. Fleischer, N. Harnew, PoS, BEAUTY2016, 16th International Conference on B-Physics at Frontier Machines (2016) 073, Marseille, France, 2-6 May 2016

2015

1. The LHCb Distributed Computing Model and Operations during LHC Runs 1, 2 and 3, S. Roiser, A. Casajus Ramo, M. Cattaneo, P. Charpentier, P. Clarke, J. Closier, M. Corvo, A. Falabella, J. Flix Molina, J.V. De Franca Messias Medeiros, R. Graciani Diaz, C. Haen, M. Hushchyn, C. Luzzi, Z. Mathe, A. McNab, R. Nandakumar, S. Perazzini, D. Remenska, V. Romanovskiy, M. Salichos, R. Santana, M.W. Slater, L. Tomassetti, A. Tsaregorodtsev, A. Ustyuzhanin, V. Vagnoni, A. Vedaee, A. Zhelezov, PoS, SGC2015, International Symposium on Grids and Clouds 2015 (2015) 005, Tapei, Taiwan, 15-20 Mar 2015
2. Pilots 2.0: DIRAC pilots for all the skies, F. Stagni, A. Tsaregorodtsev, A. Mcnab, C. Luzzi, J. Phys. Conf. Ser., 664, 21st Conference in High Energy and Nuclear Physics 2015 (2015) 062061, Okinawa, Japan, 13-17 Apr 2015

2014

1. Clock and timing distribution in the LHCb upgraded detector and readout system, F. Alessio, S. Baron, M. Barros Marin, J. Cachemiche, F. Hachon, R. Jacobsson, K. Wyllie, indéfini, Topical Workshop on Electronics for Particle Physics 2014 (2014), Aix En Provence, France, 22-26 Sep 2014

2013

1. Recent developments for the Upgrade of the LHCb readout system, J. P. Cachemiche, P. Y. Duval, F. Hachon, R. Le Gac, F. Réthoré, J. Instrum, 8, Topical Workshop on Electronics for Particle Physics 2012 (TWEPP12) (2013) C02014, Oxford, United Kingdom, 17-21 Sep 2012
2. Searches for very rare decays to purely leptonic final states at LHCb, M. Perrin-Terrin, indéfini, 36th International Conference on High Energy Physics (2013), Melbourne, Australia, 4-11 Jul 2012
3. Searches for rare decays at LHCb, M. Perrin- Terrin, indéfini, DPF 2013 (2013), Santa Cruz, United States, 13-17 Aug 2013
4. Measurement of ϕ_s at LHCb, O. Leroy, indéfini, Meeting of the American Physical Society Division of Particles and Fields (2013), Santa Cruz, United States, 13-17 Aug 2013
5. Rare decays of beauty and charm hadrons at LHCb, J. Serrano, indéfini, 9th Rencontres du Vietnam: Windows on the Universe (2013), Quy Nhon, Vietnam, 11-17 Aug 2013

6. Study of penguin's contribution in the measurement of the phase ϕ_s in $B_s^0 \rightarrow J/\psi\phi$ decays at LHCb, W. Kanso, indéfini, volume, Journées de Rencontres des Jeunes Chercheurs 2013 (2013) pages, Barbaste, France, 1-7 Dec 2013
7. Rare dileptonic $B_{(s)}^0$ decays at LHCb, A. Morda, indéfini, volume, Journées de Rencontres des Jeunes Chercheurs 2013 (2013) pages, Barbaste, France, 1-7 Dec 2013

2012

1. Prospects for CP violation in $B_s^0 \rightarrow J/\psi\phi$ from first LHCb data, O. Leroy, J. Phys. Conf. Ser., 335, Symposium on Prospects in the Physics of Discrete Symmetries (2012) 012042, Rome, Italy, 6-11 Dec 2010
2. Prospects for CP violation in $B_s^0 \rightarrow J/\psi\phi$ from first LHCb data, O. Leroy, Nuovo Cim. C, 35, 25ème Rencontres de Physique de La Vallée d'Aoste (2012) C N.1, La Thuile, Italy, 27 Feb - 5 Mar 2011
3. The LHCb Upgrade, R. Le Gac, indéfini, XX International Workshop on Deep-Inelastic Scattering and Related Subjects (2012), Bonn, Germany, 26-30 Mar 2012
4. Study of CPV in b and Charm Systems at LHCb, E. Maurice, indéfini, 26ème Rencontres de Physique de La Vallée d'Aoste (2012), La Thuile, Italy, 26 Feb - 3 Mar 2012
5. Recent results from LHCb, J. Serrano, PoS, Lattice 2012 - The 30th International Symposium on Lattice Field Theory (2012), Cairns, Australia, 24-29 Jun 2012
6. Mixing and CP violation, O. Leroy, indéfini, Physics at LHC 2012 (2012), Vancouver, Canada, 4-9 Jun 2012
7. Rare decays at LHCb, C. Adrover Pacheco, indéfini, Physics at LHC 2012 (2012), Vancouver, Canada, 4-9 Jun 2012
8. $B_{(s)}^0 \rightarrow \mu^+\mu^-$ searches at LHCb, C. Adrover Pacheco, indéfini, Physics at LHC 2012 (2012), Vancouver, Canada, 4-9 Jun 2012
9. Rare Decays with LHCb, G. Mancinelli, indéfini, International conference : Beyond The Standard Model of Particle Physics (2012), Quy Nhon, Vietnam, 15-21 Jul 2012

2011

1. Search for New Physics with Rare Heavy Flavour Decays at LHCb, G. Mancinelli, indéfini, 35th International Conference on High Energy Physics (2011), Paris, France, 22-28 Jul 2010
2. Operation and Performance of the LHCb experiment, F. Alessio, indéfini, Workshop on Discovery Physics at the LHC (2011), Mpumalanga, South Africa, 5-10 Dec 2010

3. Summary of WG4: Lifetime, mixing and weak mixing phase in charm and beauty, including direct determination of V_{tx} , M. Kreps, A. Lenz, O. Leroy, indéfini, 6th International Workshop on the CKM Unitarity Triangle (2011), Warwick, United Kingdom, 6-10 Sep 2010
4. $b \rightarrow \mu^+ \mu^-$ and $b \rightarrow s\mu^+ \mu^-$ at LHC, G. Mancinelli, indéfini, Flavor Physics and CP Violation 2011 (2011), Maale Hachamisha, Israel, 23-27 May 2011
5. Near beam-gas background for LHCb at 3.5 TeV, D. R. Brett, R. B. Appleby, G. Corti, F. Alessio, R. Jacobsson, V. Talanov, M. H. Lieng, indéfini, 2nd International Particle Accelerator Conference (2011), San Sebastian, Spain, 4-9 Sep 2011
6. Search for the rare decays $B_{(s)}^0 \rightarrow \mu^+ \mu^-$ at LHCb, J. Serrano, indéfini, 2011 Europhysics Conference on High Energy Physics (2011), Grenoble, France, 21-27 Jul 2011
7. Search for $B_s^0 \rightarrow \mu^+ \mu^-$ and $B_d^0 \rightarrow \mu^+ \mu^-$, M. Perrin-Terrin, indéfini, Physics at LHC 2011 (2011), Perugia, Italy, 6-11 Jun 2011

2010

1. Study for the LHCb readout board, J.-P. Cachemiche, P.-Y. Duval, F. Hachon, R. Le Gac, F. Marin, indéfini, 5, TWEPP 2010 Topical Workshop on Electronics for Particle Physics (2010) C12036, Aachen, Germany, 20-24 Jun 2010
2. LHCb prospects for full energy and beyond (incl. upgrades), R. Le Gac, indéfini, Hadron Collider Physics Symposium 2010 (2010), Toronto, Canada, 23-27 Aug 2010
3. Recherche de la Nouvelle Physique dans les Désintégrations $B_s^0 \rightarrow J/\psi \phi$ avec le DéTECTeur LHCb auprès du LHC, E. Maurice, indéfini, Journées Jeunes Chercheurs (JJC2010) (2010), Angers, indéfini, 21-27 Nov 2010
4. Search for $BR(Bs \rightarrow \mu^+ \mu^-)$ at the LHCb experiment, C. Adrover, indéfini, Journées Jeunes Chercheurs (JRJC2010) (2010), Nantes, France, 21-27 Nov 2010

présentation orale

2021

1. Real-time track reconstruction with GPUs, **D. Vom Bruch**, DPG Spring Meeting 2021, Dortmund, Germany, 15-19 Mar 2021
2. Rare decays at LHCb, **J. Cerasoli**, 28th International Workshop on Weak Interactions and Neutrinos (WIN 2021), Online, indéfini, 7-12 Jun 2021
3. Prospects for $b \rightarrow s\tau^+\tau^-$ and related decays at LHCb, **J. Cerasoli**, Mini-workshop on missing particle signatures and new physics at Belle II and LHCb, virtual, 5-6 Jul 2021

4. Rare decays at LHCb, **J. Cerasoli**, 20th Lomonosov Conference on Elementary Particle Physics, Moscow, Russia, 19-25 Aug 2021
5. Status and future prospects of Lepton Universality tests at LHCb, **R. Puthumanaillam**, NuFact 2021: The 22nd International Workshop on Neutrinos from Accelerators, , indéfini, 6-11 Sep 2021
6. CP violation in b baryon decays at LHCb, **A. Poluektov**, The International Workshop on Partial Wave Analyses and Advanced Tools for Hadron Spectroscopy (PWA12/ATHOS7), Bristol, United Kingdom, 6-10 Sep 2021
7. Searches for effects Beyond the Standard Model in semileptonic decays of B mesons at LHCb, **V. Dedu**, Journées de Rencontre des Jeunes Chercheurs 2021, La Rochelle, France, 17-23 Oct 2021
8. Search for CPV in $B \rightarrow D^* \mu \bar{\nu}_\mu$ at LHCb, **V.-G. Dedu**, GDR-InF annual workshop 2021, Paris, France, 15-17 Nov 2021
9. Measurements of the Unitarity Triangle angle at LHCb, **A. Poluektov**, GDR-InF annual workshop 2021, , indéfini, 15-17 Nov 2021
10. Summary of WG5: Direct CP violation (DCPV) including ϕ_3/γ from $B \rightarrow DK$, DCPV effects, branching fractions and polarisation in charmless $B_{(s)}$ decays, J. Brod, **R. Puthumanaillam**, W. Qian, 11th International Workshop on the CKM Unitarity Triangle (CKM 2021), Melbourne, Australia, 22-26 Nov 2021
11. LHCb data processing, **D. Vom Bruch**, Workshop IX on Streaming Readout, , indéfini, 8-10 Dec 2021
12. Flavor Physics Summary, **O. Leroy**, 13th France China Particle Physics Laboratory workshop (FCPPL2021), , indéfini, 13-16 Dec 2021

2020

1. Software trigger for upgraded LHCb detector, **A. Poluektov**, Instrumentation for Colliding Beam Physics, Novosibirsk, Russia, 24-28 Feb 2020
2. TensorFlow as a compute engine in HEP analyses Experience with amplitude analyses at LHCb, **A. Poluektov**, 142nd LHCC Meeting, CERN, Switzerland, 4-5 May 2020
3. Recent results from charged-current semileptonic B decays at LHCb, **D. Gerstel**, 18th Conference on Flavor Physics and CP Violation, Illa Da Toxa, Spain, 8-12 Jun 2020
4. Oscillations of B_s^0 mesons as a probe of decays with unreconstructed particles, **A. Poluektov**, 40th International Conference on High Energy Physics (ICHEP 2020), Prague, Czech Republic, 28 Jul - 6 Aug 2020
5. Measurement of the Unitarity Triangle angle gamma at LHCb, **A. Poluektov**, 19th International Conference on B-Physics at Frontier Machines, Virtual World, Japan, 21-24 Sep 2020

6. Introduction to TensorFlow and its use as a compute engine for HEP, **A. Poluektov**, GDR Intensity Frontier "Hands on" project on GPU and vectorization, Virtual, France, 30 Sep - 15 Oct 2020
7. Anomalies in $b \rightarrow c\tau\nu$ transitions at LHCb, **R. Puthumanailam**, GDR-InF annual workshop, Virtual, France, 28 Sep - 16 Oct 2020
8. Polarisation in heavy-meson decays, **A. Poluektov**, Polarisation measurements in ee, ep, pp and heavy-ion collisions, Paris, France, 14-18 Dec 2020

2019

1. Hadron spectroscopy at LHCb, **A. Poluektov**, Annual meeting of German LHCb groups (theory and experiment), Rostock, Germany, 1 Oct 2019
2. Lepton Flavor Violation in rare B decays, **G. Mancinelli**, Standard Model @ LHC 2019, Zurich, Switzerland, 23-26 Apr 2019
3. Gamma and Dalitz plot analyses, **A. Poluektov**, K. Trabelsi, GDR intensity frontier lectures, Paris, France, 28-29 May 2019
4. Searches for Lepton Flavour Violating decays at LHCb, **C. Meaux**, The 27th International Workshop on Weak Interactions and Neutrinos, Bari, Italy, 3-8 Jun 2019
5. CP violation in multi-body charmless b -hadron decays at LHCb, **A. Morris**, European Physical Society Conference on High Energy Physics (EPS-HEP) 2019, Ghent, Belgium, 10-17 Jul 2019
6. Prospects with taus at LHCb, Belle II and more..., **J. Serrano**, 7th Workshop on Rare Semileptonic B Decays, Lyon, France, 4-6 Sep 2019
7. Conventional hadron spectroscopy at LHCb, **A. Poluektov**, Implications of LHCb measurements and future prospects, Cern, Switzerland, 16-18 Oct 2019
8. $b \rightarrow s\ell\ell$ transitions @ LHCb, **J. Cogan**, GDR-InF annual workshop, Sommieres, France, 04-06 Nov 2019
9. Lepton Flavour universality in $b \rightarrow c$ transitions, **A. Morris**, GDR-InF annual workshop, Sommieres, France, 04-06 Nov 2019
10. It takes a Village, **G. Mancinelli**, GDR-InF annual workshop, Sommieres, France, 04-06 Nov 2019
11. Flavour physics: From correlations to new probes, **J. Cerasoli**, GDR-InF annual workshop, Sommieres, France, 04-06 Nov 2019
12. $B^0 \rightarrow K^*\tau^+\tau^-$ Testing Lepton Flavor Universality with the decay at the LHCb experiment, **J. Cerasoli**, Journées de Rencontro des Jeunes Chercheurs 2019, Logonna-Daoulas, France, 24-30 Nov 2019

2018

1. LHCb prospects for measurements of UT angles, **A. Poluektov**, XIII Meeting on B Physics : Synergy between LHC and SUPERKEKB in the Quest for New Physics, Marseille, France, 1-3 Oct 2018
2. Lepton flavour universality violating B decays in trees, **A. Morris**, XIII Meeting on B Physics: Synergy between LHC and SUPERKEKB in the Quest for New Physics, Marseille, France, 1-3 Oct 2018
3. LHCb Upgrade(s), **R. Le Gac**, GDR-InF workshop: The future of the intensity frontier?, Genéve, Switzerland, 1-2 Feb 2018
4. SM tests in rare B decays with tau leptons in the final state, **G. Mancinelli**, Towards the Ultimate Precision in Flavour Physics, London, United Kingdom, 16-18 Apr 2018
5. New Physics searches using Lepton Flavour Universality tests at LHCb, **O. Leroy**, 11th France China Particle Physics Laboratory workshop (FCPPL2018), Marseille, France, 22-25 Mai 2018
6. Tests of lepton universality with semitauonic b-quark decays, **O. Leroy**, XXXIX International Conference on High Energy Physics, Seoul, South Korea, 4-11 Jul 2018
7. Using TensorFlow for amplitude fits: The TensorFlowAnalysis package, **A. Morris**, A. Poluektov, A. Mauri, A. Merli, A.Mathad, M. Martinelli, PyHEP workshop, Sofia, Bulgaria, 7-8 Jui 2018
8. Lepton Flavor Violating B decays at LHCb, **J. Arnau Romeu**, 16th Conference on Flavor Physics and CP Violation (FPCP 2018), Hyderabad, India, 14-18 Jul 2018
9. Tests of lepton flavour universality using semitauonic B decays at LHCb, **A. Morris**, 10th International Workshop on the CKM Unitarity Triangle, Heidelberg, Germany, 17-21 Sep 2018
10. Rare B decays with final state including τ leptons, **J. Cogan**, XIII Meeting on B Physics : Synergy between LHC and SUPERKEKB in the Quest for New Physics, Marseille, France, 01-03 Oct 2018
11. Tests of Lepton Flavour Universality using semitauonic decays at LHCb, **D. Gerstel**, **O. Leroy**, **A. Morris** and R(D*) Run1 proponent, The GDR-InF annual workshop, Arles, France, 5-7 Nov 2018
12. Rare heavy mesons decays to leptons, **C. Méaux**, **G. Mancinelli**, **J. Serrano**, A. Bharucha, D. Boito, GdR workshop, Paris, France, 7-12 Jun 2018

2017

1. Exclusive $b \rightarrow s\tau^+\tau^-$ Decays from LHCb, **K. De Bruyn**, Workshop Current Trends in Flavor Physics, Paris, France, 29-31 Mar 2017
2. Using virtualized computing resources with the DIRAC Interware, **A.Tsaregorodtsev**, International Simposium on Grids and Clouds, Taipei, Taiwan, 5-10 Mar 2017

3. New physics searches with $b \rightarrow sl^+l^-$ transitions and rare decays at LHCb, **K. De Bruyn**, XXXI Rencontres de Physique de La Vallée d'Aoste, La Thuile, Italy, 5-11 Mar 2017
4. Searching for $B \rightarrow \tau^+\tau^-$ Decays, **K. De Bruyn**, Rencontre de Physique des Particules (RPP) 2017, Marseille, France, 24-26 Avr 2017
5. Tests of Lepton Universality at LHCb, **K. A. De Bruyn**, The 14th International Workshop on Tau Lepton Physics (Tau2016), Beijing, China, 18-23 Sep 2016
6. BSM searches with tests of LFU and rare decays at LHCb, **O. Leroy**, In search of new paradigms, New York, United States, 11-13 Oct 2017

2016

1. Heavy Flavor Rare Decays, **J. Cogan**, 2016 Aspen Winter Conference on Particle Physics, Aspen, United States, 11-16 Jan 2016
2. Flavor Physics, **O. Leroy**, Lake Louise Winter Institute 2016, Lake Louise, Canada, 07-13 Feb 2016
3. DIRAC Data Management Framework, **A. Tsaregorodtsev**, International Symposium on Grids and Clouds 2016, Taipei, Taiwan, 13-18 Mar 2016
4. A Roadmap to Controlling Penguin Effects in ϕ_d and ϕ_s , **K. De Bruyn**, 16th International Conference on B-Physics at Frontier Machines, Beauty 2016, Marseille, France, 01-06 May 2016
5. EW and radiative penguin transitions from B-factories, **S. Akar**, 16th International Conference on B-Physics at Frontier Machines, Marseille, France, 2-6 May 2016
6. CP violation in B and charm decays at LHCb, **S. Akar**, 28th Rencontres de Blois on Particle Physics and Cosmology, Blois, France, 29 May - 2 Jun 2016
7. DIRAC Data Management System, **A. Tsaregorodtsev**, 7th International Conference "Distributed Computing and Grid- technologies in Science and Education" (GRID2016), Dubnia, Russia, 04-09 Jun 2016
8. Experimental prospects on time-dependent CP Violation and Mixing in $B_{(s)}^0$ Meson decays, **O. Leroy**, Heavy Flavour 2016 - Quo Vadis?, Islay, United Kingdom, 11-15 Jul 2016
9. Potential for CPV measurements in the HL-LHC period, **S. Akar**, Heavy Flavour physics at HL-LHC, Genève, Switzerland, 31 Aug 2016
10. Tests of Lepton Universality at LHCb and LFV in Tau Decays: Results and Prospects at the LHC, **K. De Bruyn**, The 14th International Workshop on Tau Lepton Physics (Tau2016), Beijing, China, 18-23 Sep 2016
11. WG3 Summary-Rare B,D,K Decays, **J. Serrano**, 9th International Workshop on the CKM Unitarity Triangle (CKM2016), Mumbai, India, 28 Nov - 2 Dec 2016

12. Rare B decays with taus, **J. Serrano**, Workshop 'LFV/LFUV, why and How?, Paris, France, 7-9 Nov 2016

2015

1. Flavour Physics, **J. Serrano**, Journée de la Société Française de Physique sur le futur de la Physique des Particules, Paris, France, 23 Jan 2015
2. Federating LHCb datasets using the DIRAC File catalog, C. Haen, P. Charpentier, M. Frank, A. Tsaregorodtsev, 21st Conference in High Energy and Nuclear Physics 2015, Okinawa, Japan, 13-17 Apr 2015
3. Mixing-induced CP violation in B_s decays, **S. Akar**, Flavor Physics & CP violation 2015" (FPCP 2015), Nagoya, Japan, 25-29 Mai 2015
4. Rare beauty and charm decays at LHCb, **A. Morda**, 27th Rencontres de Blois on Particle Physics and Cosmology, Blois, France, 31 May - 5 Jun 2015
5. Rare Decays in Search for BSM physics at LHCb, **J. Serrano**, LISHEP 2015, Manaus, Brazil, 2-9 Aou 2015
6. Heavy flavour physics at LHCb: Run I highlights and future prospects, **S. Akar**, XXIIIe Congrès Général de la Société Française de Physique, Strasbourg, France, 24-28 Aou 2015
7. TWEPP 2015 - Topical Workshop on Electronics for Particle Physics, F. Rethoré, TWEPP 2015 - Topical Workshop on Electronics for Particle Physics, Lisbonne, Portugal, 28 Sep - 03 Oct 2015
8. Status of the DIRAC Project: overview and recent developments, **A. Tsaregorodtsev**, XXV International Symposium on Nuclear Electronics and Computing NEC'2015, Budva, Becici, Montenegro, 28 Sep 2015 2 Oct 2015
9. The PCIe-based readout system for the LHCb experiment, **F. Rethore**, Topical Workshop on Electronics for Particle Physics, Lisbon, Portugal, 28 Sep - 2 Oct 2015
10. Experimental overview of measurements of mixing phases and CPV results with $B \rightarrow J/\psi X$ decays, **S. Akar**, Implications of LHCb measurements and future prospects, Genève, Switzerland, 3-5 Nov 2015

2014

1. Rare $B_{(s)}^0$ dileptonic decays at LHCb, **A. Mordá**, 28ème Rencontres de Physique de La Vallée d'Aoste, La Thuile, Italy, 23 Feb - 1 Mar 2014
2. Latest Results on Rare Decays from LHCb, **J. Serrano**, 28ème Rencontres de Physique de La Vallée d'Aoste, La Thuile, Italy, 23 Feb - 1 Mar 2014
3. On the possibility of measuring $B(B_s \rightarrow \tau\tau)$, **A. Morda**, Flavor of new physics b \rightarrow s transitions, Paris, France, 2-3 Jun 2014
4. Rare dileptonic $B_{(s)}^0 \rightarrow \ell\bar{\ell}$ decays at LHCb, **A. Morda**, 3ème workshop OCEVU, Montpellier, France, 16-17 Jun 2014

5. Branching ratio measurement of $B_{(s)}^0 \rightarrow \mu^+ \mu^-$ decay at LHCb, **A. Mordà**, The 2014 European School of High-Energy Physics, Amsterdam, Netherlands, 18 Jun - 1 Jul 2014
6. LHC Searches in Rare Heavy-Flavor Decays, **G. Mancinelli**, Astroparticle Physics - A Joint TeVPA/ IDM Conference, Amsterdam, Netherlands, 23-28 Jun 2014
7. On the possibility of measuring $\mathcal{B}(B_s \rightarrow \tau\tau)$ at LHCb, **A. Mordà**, Flavor of new physics $b \rightarrow s$ transitions, Paris, France, 2-3 Jul 2014
8. The LHCb Upgrade, **S. Akar**, 11th International Conference on Hyperons, Charm and Beauty Hadrons, Birmingham, United Kingdom, 21-26 Jul 2014
9. CP violating phase ϕ_s measurement and penguin pollution in ϕ_s at LHCb, **W. Kanso**, 8th International Workshop on the CKM Unitarity Triangle, Univ. Tech., Austria, 08-12 Sep 2014
10. LHCb status and prospects, **O. Leroy**, Miami 2014 : A topical conference on elementary particles, astrophysics, and cosmology, Fort Lauderdale, United States, 17-23 Dec 2014

2013

1. Search for the very rare decays $B_{s/d} \rightarrow \mu^+ \mu^-$ at LHCb, **J. Serrano**, Third Workshop on Flavour Physics in the LHC Era: Theoretical and Experimental Views, Valencia, Spain, 4-6 Feb 2013
2. The measurement of the CP-violating phase, ϕ_s , and the penguin contributions in $B_s^0 \rightarrow J/\psi \phi$ at LHCb, **W. Kanso**, LHC France 2013, Annecy, France, 2-6 Apr 2013
3. Experimental report on $B_{(s)}^0 \rightarrow \mu^+ \mu^-$, **M. Perrin-Terrin**, LHC France 2013, Annecy, France, 2-6 Apr 2013
4. Measurement of CP violation in $B_s^0 \rightarrow J/\psi \phi$ at LHCb, **O. Leroy**, LHC France 2013: French Meeting on High Energy Physics at the LHC, Annecy, France, 2-6 Apr 2013
5. The LHCb Upgrade, **R. Le Gac**, Flavor Physics & CP Violation, Buzios, Brazil, 19-24 May 2013
6. Rare $B_{s,d}^0$ dileptonic decay, **A. Mordà**, 2nd Labex Workshop OCEVU 2013, Toulouse, France, 11-13 Jun 2013
7. Rare Decays of Heavy Mesons, **G. Mancinelli**, 26th International Symposium on Lepton Photon Interactions at High Energies, San Francisco, United States, 24-29 Jun 2013
8. Saveurs lourdes et recherche de nouvelle physique avec LHcb, **J. Serrano**, 22ème Congrès Général de la SFP, Marseille, France, 1-5 Jul 2013
9. The measurement of the CP-violating phase, ϕ_s , and the penguin contributions in $B_s^0 \rightarrow J/\psi \phi$ at LHCb, **W. Kanso**, 22ème Congrès général de la Société Française de Physique SFP, Marseille, France, 1-5 Jul 2013

10. The LHCb upgrade, **J. Cogan**, EPS-HEP 2013 European Physical Society Conference on High Energy Physics, Stockholm, Sweden, 18-24 Jul 2013
11. Observation of $B_s \rightarrow \mu^+ \mu^-$ at the LHC: LHCb results, **J. Serrano**, CERN-LHC Seminar: Observation of the $B_s \rightarrow \mu^+ \mu^-$ Rare Decay at the LHC, Cern, Switzerland, 6 Aug 2013
12. Rare decays of beauty and charm hadrons at LHCb, **J. Serrano**, 9th Rencontres du Vietnam: Windows on the Universe, Quy Nhon, Vietnam, 11-17 Aug 2013
13. Measurement of ϕ_s at LHCb, **O. Leroy**, Meeting of the American Physical Society Division of Particles and Fields, Santa Cruz, United States, 13-17 Aug 2013
14. Searches for Rare Decays at LHCb, **M. Perrin-Terrin**, Meeting of the American Physical Society Division of Particles and Fields, Santa Cruz, United States, 13-17 Aug 2013
15. Evaluation of 400m, 5Gbit Versatile Link lengths over OM3 and OM4 fibres for the LHCb upgrade, R. Schwemme, J.-P. Cachemiche, N. Neufeld, C. Soos, J.Troska, Twepp 2013, Perugia, Italy, 23-27 Sep 2013
16. Powering large FPGAs - ALTERA, J.P. Cachemiche, R. Réthoré, TWEPP 2013, Perugia, Italy, 23-27 Sep 2013
17. Update on the ATCA/AMC readout cards for LHCb, C. Abellan, **J.-P. Cachemiche**, P.-Y. Duval, F. Hachon, R. Le Gac, F. Réthoré, Topical Workshop on Electronics for Particle Physics, Perugia, Italy, 23-27 Sep 2013

2012

1. ϕ_s and B_s mixing at LHCb, **E. Maurice**, 8th Meeting on B Physics, Genoa, Italy, 6-8 Feb 2012
2. Study of CPV in b and Charm Systems at LHCb, **E. Maurice**, 26ème Rencontres de Physique de La Vallée d'Aoste, La Thuile, Italy, 26 Feb - 3 Mar 2012
3. The LHCb Upgrade, **R. Le Gac**, XX International Workshop on Deep-Inelastic Scattering and Related Subjects, Bonn, Germany, 26-30 Mar 2012
4. Mixing and CP violation, **O. Leroy**, Physics at LHC 2012, Vancouver, Canada, 4-9 Jun 2012
5. Rare decays at LHCb, **C. Adrover Pacheco**, Physics at LHC 2012, Vancouver, Canada, 4-9 Jun 2012
6. $B_{(s)}^0 \rightarrow \mu^+ \mu^-$ searches at LHCb, **C. Adrover Pacheco**, Physics at LHC 2012, Vancouver, Canada, 4-9 Jun 2012
7. Recent results from LHCb, **J. Serrano**, Lattice 2012 - The 30th International Symposium on Lattice Field Theory, Cairns, Australia, 24-29 Jun 2012

8. Searches for very rare decays to purely leptonic final states at LHCb, **M. Perrin-Terrin**, 36th International Conference on High Energy Physics, Melbourne, Australia, 4-11 Jul 2012
9. Rare Decays with LHCb, **G. Mancinelli**, International conference : Beyond The Standard Model of Particle Physics, Quy Nhon, Vietnam, 15-21 Jul 2012
10. xTCA developments for the LHCb Readout, J. P. Cachemiche, P. Y. Duval, F. Hachon, R. Le Gac, F. Réthoré, Topical Workshop on Electronics for Particle Physics 2012, Oxford, United Kingdom, 17-21 Sep 2012
11. Recent developments for the Upgrade of the LHCb readout system, J. P. Cachemiche, P. Y. Duval, F. Hachon, R. Le Gac, F. Réthoré, Topical Workshop on Electronics for Particle Physics, Oxford, United Kingdom, 17-21 Sep 2012
12. LHCb status, **J. Cogan**, LHC days in Split 2012, Split, Croatia, 1-6 Oct 2012

2011

1. Prospects for CP violation in $B_s^0 \rightarrow J/\psi\phi$ from first LHCb data, **O. Leroy**, 25ème Rencontres de Physique de La Vallée d'Aoste, La Thuile, Italy, 27 Feb - 5 Mar 2011
2. Quarkonia studies in LHCb: $\Upsilon(1S)$, Double J/Ψ , $\Psi(2S)$, χ_c , **J. Cogan**, 13th International Conference on B-Physics at Hadron Machines, Amsterdam, Netherlands, 4-8 Apr 2011
3. $b \rightarrow \mu^+\mu^-$ and $b \rightarrow s\mu^+\mu^-$ at LHC, **G. Mancinelli**, Flavor Physics and CP Violation 2011, Maale Hachamisha, Israel, 23-27 May 2011
4. Search for $B_s^0 \rightarrow \mu^+\mu^-$ and $B_d^0 \rightarrow \mu^+\mu^-$, **M. Perrin-Terrin**, Physics at LHC 2011, Perugia, Italy, 6-11 Jun 2011
5. Search for the rare decays $B_{(s)}^0 \rightarrow \mu^+\mu^-$ at LHCb, **J. Serrano**, 2011 Europhysics Conference on High Energy Physics, Grenoble, France, 21-27 Jul 2011

2010

1. Search for New Physics with Rare Heavy Flavour Decays at LHCb, **G. Mancinelli**, 35th International Conference on High Energy Physics, Paris, France, 22-28 Jul 2010
2. LHCb prospects for full energy and beyond (incl. upgrades), **R. Le Gac**, Hadron Collider Physics Symposium 2010, Toronto, Canada, 23-27 Aug 2010
3. Operation and Performance of the LHCb experiment, **F. Alessio**, Workshop on Discovery Physics at the LHC, Mpumalanga, South Africa, 5-10 Dec 2010
4. Prospects for CP violation in $B_s^0 \rightarrow J/\psi\phi$ from first LHCb data, **O. Leroy**, Symposium on Prospects in the Physics of Discrete Symmetries, Rome, Italy, 6-11 Dec 2010

rapport

2017

1. Upgrade trigger: Biannual performance update, R. Aaij, J. Albrecht, B. Couturier, S. Esen, M. De Cian, J. A. De Vries, A. Dziurda, C. Fitzpatrick, M. Fontana, L. Grillo, C. Hasse, C. R. Jones, R. Le Gac, R. Matev, N. Neufeld, T. Nikodem, F. Polci, L. Del Buono, R. Quagliani, R. Schwemmer, P. Seyfert, S. Stahl, T. Szumlak, M. A. Vesterinen, J. Wanczyk, . Williams, H. Yin, E. A. Zacharjasz, CERN-LHCb-PUB-2017-005, LHCb-PUB-2017-005
2. Search for the decays $B_s^0 \rightarrow t^+t$ and $B^0 \rightarrow t^+t$, J. Cogan, K. De Bruyn, G. Mancinelli, J. Serrano, LHCb- ANA-2017-007
3. Expression of Interest for a Phase-II LHCb Upgrade: Opportunities in flavour physics, and beyond, in the HL-LHC era, R. Aaij, B. Adeva, M. Adinolfi, Z. Ajaltouni, S. Akar, J. Albrecht, F. Alessio, M. Alexander, S. Ali, G. Alkhazov, P. Alvarez Cartelle, A.-A. Alves Jr, S. Amato, S. Amerio, Y. Amhis, L. An, L. Anderlini, G. Andreassi, M. Andreotti, J. Andrews, M. Anelli, R. Appleby, F. Archilli, D'Argent, Philippe, J. Arnau Romeu, A. Artamonov, M. Artuso, E. Aslanides, G. Auriemma, M. Baalouch, I. Babuschkin, S. Bachmann, J. Back, A. Badalov, C. Baesso, S. Baker, V. Balagura, W. Baldini, A. Balla, A. Baranov, R. Barlow, C. Barschel, S. Barsuk, W. Barter, F. Baryshnikov, M. Baszczyk, V. Batozskaya, B. Batsukh, V. Battista, A. Bay, L. Beaucourt, J. Beddow, F. Bedeschi, I. Bediaga, A. Beiter, L. Bel, V. Bellee, N. Belloli, K. Belous, I. Belyaev, E. Ben-Haim, G. Bencivenni, S. Benson, S. Beranek, A. Berezhnoy, R. Bernet, A. Bertolin, C. Betancourt, F. Betti, M.-O. Bettler, M. Van Beuzekom, I. Bezshyiko, S. Bifani, P. Billoir, A. Birnkraut, A. Bitadze, A. Bizzeti, T. Blake, F. Blanc, J. Blouw, S. Blusk, V. Bocci, T. Boettcher, A. Bondar, N. Bondar, W. Bonivento, I. Bordyuzhin, A. Borgheresi, S. Borghi, M. Borisjak, M. Borsato, F. Bossu, M. Boubdir, T. Bowcock, E.-E. Bowen, C. Bozzi, S. Braun, T. Britton, J. Brodzicka, D. Brundu, E. Buchanan, C. Burr, A. Bursche, J. Buytaert, S. Cadeddu, R. Calabrese, M. Calvi, M. Calvo Gomez, A. Camboni, P. Campana, D.-H. Campora Perez, L. Capriotti, A. Carbone, G. Carboni, R. Cardinale, A. Cardini, M. Carletti, P. Carniti, L. Carson, K. Carvalho Akiba, G. Casse, L. Cassina, L. Castillo Garcia, L. Casu, M. Cattaneo, G. Cavallero, R. Cenci, D. Chamont, M. Charles, P. Charpentier, G. Chatzikostantinidis, M. Chefdeville, S. Chen, S.-F. Cheung, V. Chobanova, M. Chrzaszcz, A. Chubykin, P. Ciambrone, X. Cid Vidal, G. Ciezarek, M. Citterio, P. Clarke, M. Clemencic, H. Cliff, J. Closier, V. Coco, S. Coelli, J. Cogan, E. Cogneras, V. Cogoni, L. Cojocariu, P. Collins, A. Comerma-Montells, A. Contu, A. Cook, G. Coombs, S. Coquereau, G. Corti, M. Corvo, C.-M. Costa Sobral, B. Couturier, G. Cowan, D.-C. Craik, A. Crocombe, M.-M. Cruz Torres, S. Cunliffe, R. Currie, D'Ambrosio, Carmelo, F. Da Cunha Marinho, Dall'Occo, Elena, J. Dalseno, P. David, A. Davis, K. De Bruyn, S. De Capua, M. De Cian, J. De Miranda, L. De Paula, M. De Serio, P. De Simone, C.-T. Dean, D. Decamp, M. Deckenhoff, L. Del Buono, M. Demmer, A. Dendek, D. Derkach, O. Deschamps, F. Dettori, B. Dey, A. Di Canto, P. Di Nezza, H. Dijkstra, F. Dordei, M.

Dorigo, Dosil SuÁRez, Alvaro, A. Dovbnya, K. Dreimanis, L. Dufour, G. Dujany, K. Dungs, P. Durante, R. Dzhelyadin, A. Dziurda, A. Dzyuba, DÉLÉAge, Nicolas, S. Easo, M. Ebert, U. Egede, V. Egorychev, S. Eidelman, S. Eisenhardt, U. Eitschberger, R. Ekelhof, L. Eklund, S. Ely, S. Esen, H.-M. Evans, T. Evans, A. Falabella, N. Farley, S. Farry, R. Fay, D. Fazzini, G. Felici, D. Ferguson, G. Fernandez, A. Fernandez Prieto, F. Ferrari, F. Ferreira Rodrigues, M. Ferro-Luzzi, S. Filippov, R.-A. Fini, M. Fiore, M. Fiorini, M. Firlej, C. Fitzpatrick, T. Fiutowski, F. Fleuret, K. Fohl, M. Fontana, F. Fontanelli, D.-C. Forshaw, R. Forty, V. Franco Lima, M. Frank, C. Frei, P. Fresch, J. Fu, W. Funk, E. Furfaro, FÄRber, Christian, A. Gallas Torreira, D. Galli, S. Gallorini, S. Gambetta, M. Gandelman, P. Gandini, Y. Gao, L.-M. Garcia Martin, GarcÍA PardiÑAs, JuliÁN, J. Garra Tico, L. Garrido, P.-J. Garsed, D. Gascon, C. Gaspar, M. Gatta, L. Gavardi, G. Gazzoni, D. Gerick, E. Gersabeck, M. Gersabeck, T. Gershon, P. Ghez, GianÌ, Sebastiana, V. Gibson, Girard, Olivier GÖRan, L.-H. Giubega, K. Gizzov, V. Gligorov, D. Golubkov, A. Golutvin, A. Gomes, I.-V. Gorelov, C. Gotti, E. Govorkova, R. Graciani Diaz, L.-A. Granado Cardoso, GraugÉS, Eugeni, E. Graverini, G. Graziani, A. Grecu, R. Greim, P. Griffith, L. Grillo, B.-R. Gruberg Cazon, GrÜNberg, Oliver, E. Gushchin, Y. Guz, T. Gys, GÖBel, Carla, T. Hadavizadeh, C. Hadjivasilou, G. Haefeli, C. Haen, S. Haines, B. Hamilton, X. Han, S. Hansmann- Menzemer, N. Harnew, S. Harnew, J. Harrison, M. Hatch, J. He, T. Head, A. Heister, K. Hennessy, P. Henrard, L. Henry, E. Van Herwijnen, M. Heß, Hicheur, AdlÈNe, D. Hill, C. Hombach, P.-H. Hopchev, Z. Huard, W. Hulsbergen, T. Humair, M. Hushchyn, D. Hutchcroft, M. Idzik, P. Ilten, R. Jacobsson, P. Jalocha, E. Jans, A. Jawahery, F. Jiang, M. John, D. Johnson, C. Jones, C. Joram, B. Jost, N. Jurik, S. Kandybei, M. Karacson, J.-M. Kariuki, S. Karodia, M. Kecke, M. Kelsey, M. Kenzie, T. Ketel, E. Khairullin, B. Khanji, C. Khurewathanakul, T. Kirn, S. Klaver, K. Klimaszewski, T. Klimkovich, S. Koliiev, M. Kolpin, I. Komarov, P. Koppenburg, A. Kosmyntseva, S. Kotriakhova, A. Kozachuk, M. Kozeiha, L. Kravchuk, K. Kreplin, M. Kreps, P. Krokovny, F. Kruse, W. Krzemien, W. Kucewicz, M. Kucharczyk, V. Kudryavtsev, A.-K. Kuonen, K. Kurek, T. Kvaratskheliya, D. Lacarrere, G. Lafferty, A. Lai, C. Langenbruch, T. Latham, C. Lazzaroni, R. Le Gac, J. Van Leerdam, A. Leflat, LefranÇOis, Jacques, LefÈVre, Regis, F. Lemaitre, E. Lemos Cid, O. Leroy, T. Lesiak, B. Leverington, T. Li, Y. Li, Z. Li, T. Likhomanenko, R. Lindner, F. Lionetto, X. Liu, D. Loh, A. Loi, I. Longstaff, J. Lopes, D. Lucchesi, M. Lucio Martinez, H. Luo, A. Lupato, E. Luppi, O. Lupton, A. Lusiani, X.-R. Lyu, F. Machefert, F. Maciuc, O. Maev, K. Maguire, S. Malde, A. Malinin, T. Maltsev, G. Manca, G. Mancinelli, P.-M. Manning, J. Maratas, Marchand, Jean FranÇOis, U. Marconi, C. Marin Benito, M. Marinangeli, P. Marino, Marks, JÖRg, D. Marras, G. Martellotti, M. Martin, M. Martinelli, D. Martinez Santos, F. Martinez Vidal, D. Martins Tostes, L.-M. Massacrier, Massafferri, AndrÉ, R. Matev, A. Mathad, Z. Mathe, C. Matteuzzi, A. Mauri, E. Maurice, B. Maurin, A. Mazurov, M. Mccann, A. Mcnab, R. Mcnulty, B. Meadows, F. Meier, D. Melnychuk, M. Merk, A. Merli, E. Michielin, D.-A. Milanes, M.-N. Minard, D.-S. Mitzel, A. Mogini, J. Molina Rodriguez, I.-A. Monroy, S. Monteil, M. Morandin, P. Morawski, M.-J. Morello, O. Morgunova, J. Moron, A.-B. Morris, R. Mountain, F. Muheim, M. Mulder, M. Mussini, MÜller,

Dominik, MÜller, Janine, MÜller, Katharina, MÜller, Vanessa, P. Naik, T. Nakada, R. Nandakumar, A. Nandi, I. Nasteva, M. Needham, N. Neri, S. Neubert, N. Neufeld, M. Neuner, T.-D. Nguyen, C. Nguyen- Mau, S. Nieswand, R. Niet, N. Nikitin, T. Nikodem, A. Nogay, A. Novoselov, O'Hanlon, Daniel Patrick, A. Oblakowska-Mucha, V. Obraztsov, S. Ogilvy, R. Oldeman, G. Onderwater, J.-M. Otalora Goicochea, A. Otto, P. Owen, M.-A. Oyanguren, P.-R. Pais, A. Palano, M. Palutan, A. Papanestis, M. Pappagallo, L. Pappalardo, C. Pappenheimer, W. Parker, C. Parkes, G. Passaleva, A. Pastore, M. Patel, C. Patrignani, A. Pearce, A. Pellegrino, G. Penso, M. Pepe Altarelli, S. Perazzini, P. Perret, L. Pescatore, K. Petridis, A. Petrolini, A. Petrov, M. Petruzzo, E. Picatoste Olloqui, B. Pietrzyk, M. Pikies, D. Pinci, A. Pistone, A. Piucci, V.-M. Placinta, S. Playfer, M. Plo Casasus, T. Poikela, F. Polci, M. Poli Lener, A. Poluektov, I. Polyakov, E. Polycarpo, G.-J. Pomery, S. Ponce, A. Popov, D. Popov, B. Popovici, S. Poslavskii, Potterat, CÉDric, E. Price, J. Prisciandaro, C. Prouve, V. Pugatch, A. Puig Navarro, G. Punzi, C. Qian, W. Qian, R. Quagliani, B. Rachwal, J. Rademacker, M. Rama, M. Ramos Pernas, M. Rangel, I. Raniuk, F. Ratnikov, G. Raven, F. Redi, S. Reichert, A. Dos Reis, C. Remon Alepuz, V. Renaudin, S. Ricciardi, S. Richards, M. Rihl, K. Rinnert, V. Rives Molina, P. Robbe, A.-B. Rodrigues, E. Rodrigues, J.-A. Rodriguez Lopez, P. Rodriguez Perez, A. Rogozhnikov, S. Roiser, A.-P. Rollings, V. Romanovskiy, A. Romero Vidal, J.-W. Ronayne, M. Rotondo, M.-S. Rudolph, T. Ruf, P. Ruiz Valls, J.-J. Saborido Silva, E. Sadykhov, N. Sagidova, B. Saitta, V. Salustino Guimaraes, D. Sanchez Gonzalo, C. Sanchez Mayordomo, B. Sanmartin Sedes, R. Santacesaria, C. Santamarina Rios, M. Santimaria, E. Santovetti, A. Saputi, A. Sarti, C. Satriano, A. Satta, D.-M. Saunders, D. Savrina, S. Schael, M. Schellenberg, M. Schiller, H. Schindler, M. Schlupp, M. Schmelling, T. Schmelzer, B. Schmidt, O. Schneider, A. Schopper, H. Schreiner, K. Schubert, M. Schubiger, M.-H. Schune, R. Schwemmer, B. Sciascia, A. Sciubba, A. Semennikov, A. Sergi, N. Serra, J. Serrano, L. Sestini, P. Seyfert, M. Shapkin, I. Shapoval, Y. Shcheglov, T. Shears, L. Shekhtman, V. Shevchenko, B.-G. Siddi, R. Silva Coutinho, L.-G. Silva De Oliveira, G. Simi, S. Simone, M. Sirendi, N. Skidmore, T. Skwarnicki, E. Smith, I.-T. Smith, J. Smith, M. Smith, L. Soares Lavra, M. Sokoloff, P. Soler, B. Souza De Paula, B. Spaan, P. Spradlin, S. Sridharan, F. Stagni, M. Stahl, S. Stahl, P. Steffko, S. Stefkova, O. Steinkamp, S. Stemmle, O. Stenyakin, H. Stevens, S. Stoica, S. Stone, B. Storaci, S. Stracka, M.-E. Stramaglia, M. Stratificiuc, U. Straumann, L. Sun, W. Sutcliffe, K. Swientek, V. Syropoulos, M. Szczekowski, T. Szumlak, T'Jampens, Stephane, A. Tayduganov, T. Tekampe, G. Tellarini, F. Teubert, E. Thomas, J. Van Tilburg, M.-J. Tilley, V. Tisserand, M. Tobin, S. Tolk, L. Tomassetti, D. Tonelli, S. Topp- Joergensen, F. Toriello, R. Tourinho Jadallah Aoude, E. Tournefier, S. Tourneur, K. Trabelsi, M. Traill, Tran, Minh TÂM, M. Tresch, A. Trisovic, A. Tsaregorodtsev, P. Tsopelas, A. Tully, N. Tuning, A. Ukleja, A. Ustyuzhanin, U. Uwer, C. Vacca, V. Vagnoni, A. Valassi, S. Valat, G. Valenti, M. Van Dijk, R. Vazquez Gomez, P. Vazquez Regueiro, S. Vecchi, M. Van Veghel, J. Velthuis, M. Veltri, G. Veneziano, A. Venkateswaran, T.-A. Verlage, M. Vernet, M. Vesterinen, J.-V. Viana Barbosa, B. Viaud, D. Vieira, M. Vieites Diaz, H. Viemann, X. Vilasis-Cardona, M. Vitti, V. Volkov, A. Vollhardt, B. Voneki, A. Vorobyev, V. Vorobyev, C. Voß, J. De Vries, VÁZquez Sierra, Carlos, R. Waldi, C. Wallace,

R. Wallace, J. Walsh, J. Wang, D. Ward, H.-M. Wark, N. Watson, D. Websdale, A. Weiden, M. Whitehead, J. Wicht, G. Wilkinson, M. Wilkinson, Williams, Mark Richard James, M. Williams, M. Williams, T. Williams, F. Wilson, J. Wimberley, M.-A. Winn, J. Wishahi, W. Wislicki, M. Witek, G. Wormser, S. Wotton, K. Wraight, K. Wyllie, Y. Xie, Z. Xing, Z. Xu, Z. Yang, Z. Yang, Y. Yao, H. Yin, J. Yu, X. Yuan, O. Yushchenko, K.-A. Zarebski, M. Zavertyaev, L. Zhang, Y. Zhang, A. Zhelezov, Y. Zheng, X. Zhu, V. Zhukov, S. Zucchelli, CERN-LHCC-2017-003

2016

1. $B_s^0 \rightarrow \eta_c h^+ h^-$ decays, S. Akar, J. He, O. Leroy, M. Martin, R. Cardinale, C. Patrignani, A. Pistone , CERN-LHCb-ANA-2016-056
2. Measurement of the CP violating asymmetry a_{sl}^s , M. Artuso, K. De Bruyn, L. Dufour, M. Gersabeck, C. Hadjivasilou, M.J. Kelsey, S. Klaver, C. Parkes, M. Stahl, S. Stone, LHCb-ANA-2016-004
3. Search for the $B^0 \rightarrow \mu^+ \mu^-$ decay and measurement of the $B_s^0 \rightarrow \mu^+ \mu^-$ branching fraction and effective lifetime, F. Archilli, M.O. Bettler, X. Cid Vidal, H.V. Cliff, F. Dettori, H. M. Evans, V. Gibson, G. Mancinelli, D. Martinez Santos, A. Morda, LHCb-ANA-2016-038
4. Search for $B_s^0 \rightarrow t^+ t^-$, J. Cogan, K. De Bruyn, G. Mancinelli, A. Morda, J. Serrano, LHCb-ANA-2016-047

2015

1. Till Moritz Karbach, Scientific Legacy, R. Aaij, B. Adeua, M. Adinolfi, A. Affolder, Z. Ajaltouni, S. Akar, J. Albrecht, F. Alessio, M. Alexander, S. Ali, G. Alkhazov, P. Alvarez Cartelle, A. A. Alves Jr, S. Amato, S. Amerio, Y. Amhis, L. An, L. Anderlini, J. Anderson, G. Andreassi, M. Andreotti, J. Andrews, R. Appleby, O. Aquines Gutierrez, F. Archilli, P. D'Argent, A. Artamonov, M. Artuso, E. Aslanides, G. Auriemma, M. Baalouch, S. Bachmann, J. Back, A. Badalov, C. Baesso, W. Baldini, R. Barlow, C. Barschel, S. Barsuk, W. Barter, V. Batozskaya, V. Battista, A. Bay, L. Beaucourt, J. Beddow, F. Bedeschi, I. Bediaga, L. Bel, V. Bellei, I. Belyaev, E. Ben-Haim, G. Bencivenni, S. Benson, J. Benton, A. Berezhnoy, R. Bernet, A. Bertolin, M. Bettler, M. Van Beuzekom, A. Bien, S. Bifani, T. Bird, A. Birnkraut, A. Bizzeti, T. Blake, F. Blanc, J. Blouw, S. Blusk, V. Bocci, A. Bondar, N. Bondar, W. Bonivento, S. Borghi, M. Borsato, T. Bowcock, E. E. Bowen, C. Bozzi, S. Braun, D. Brett, M. Britsch, T. Britton, J. Brodzicka, N. Brook, A. Bursche, J. Buytaert, S. Cadeddu, R. Calabrese, M. Calvi, M. Calvo Gomez, P. Campana, D. Campora Perez, L. Capriotti, A. Carbone, G. Carboni, R. Cardinale, A. Cardini, P. Carniti, L. Carson, K. Carvalho Akiba, G. Casse, L. Cassina, L. Castillo Garcia, M. Cattaneo, C. Cauet, G. Cavallero, R. Cenci, M. Charles, P. Charpentier, M. Chefdeville, S. Chen, S. Cheung, N. Chiapolini, M. Chrzaszcz, X. Cid Vidal, G. Ciezarek, P. Clarke, M. Clemencic, H. Cliff, J. Closier, V. Coco, J. Cogan, E. Cogneras, V. Cogoni, L. Cojocariu, G. Collazuol, P. Collins, A. Comerma-Montells, A. Contu, A. Cook, M. Coombes, S. Coquereau, G. Corti, M. Corvo, B.

Couturier, G. Cowan, D. C. Craik, A. Crocombe, M. M. Cruz Torres, S. Cunliffe, R. Currie, C. D'Ambrosio, J. Dalseno, P. David, A. Davis, K. De Bruyn, S. De Capua, M. De Cian, J. De Miranda, L. De Paula, W. De Silva, P. De Simone, C. T. Dean, D. Decamp, M. Deckenhoff, L. Del Buono, N. Déléage, M. Demmer, D. Derkach, O. Deschamps, F. Dettori, B. Dey, A. Di Canto, F. Di Ruscio, H. Dijkstra, S. Donleavy, F. Dordei, M. Dorigo, A. Dosil Suárez, D. Dossett, A. Dovbnya, K. Dreimanis, L. Dufour, G. Dujany, F. Dupertuis, P. Durante, R. Dzhelyadin, A. Dziurda, A. Dzyuba, S. Easo, U. Egede, V. Egorychev, S. Eidelman, S. Eisenhardt, U. Eitschberger, R. Ekelhof, L. Eklund, I. El Rifai, C. Elsasser, S. Ely, S. Esen, H. M. Evans, T. Evans, A. Falabella, C. Färber, C. Farinelli, N. Farley, S. Farry, R. Fay, D. Ferguson, V. Fernandez Albor, F. Ferrari, F. Ferreira Rodrigues, M. Ferro-Luzzi, S. Filippov, M. Fiore, M. Fiorini, M. Firlej, C. Fitzpatrick, T. Fiutowski, K. Fohl, P. Fol, M. Fontana, F. Fontanelli, R. Forty, O. Francisco, M. Frank, C. Frei, M. Frosini, J. Fu, E. Furfaro, A. Gallas Torreira, D. Galli, S. Gallorini, S. Gambetta, M. Gandelman, P. Gandini, Y. Gao, J. García Pardiñas, J. Garra Tico, L. Garrido, D. Gascon, C. Gaspar, U. Gastaldi, R. Gauld, L. Gavardi, G. Gazzoni, A. Geraci, D. Gerick, E. Gersabeck, M. Gersabeck, T. Gershon, P. Ghez, A. Gianelle, S. Gianì, V. Gibson, O. G. Girard, L. Giubega, V. Gligorov, C. Göbel, D. Golubkov, A. Golutvin, A. Gomes, C. Gotti, M. Grabalosa Gándara, R. Graciani Diaz, L. A. Granado Cardoso, E. Graugés, E. Graverini, G. Graziani, A. Grecu, E. Greening, S. Gregson, P. Griffith, L. Grillo, O. Grünberg, B. Gui, E. Gushchin, Y. Guz, T. Gys, T. Hadavizadeh, C. Hadjivasiliou, G. Haefeli, C. Haen, S. Haines, S. Hall, B. Hamilton, X. Han, S. Hansmann-Menzemer, N. Harnew, S. Harnew, J. Harrison, J. He, T. Head, V. Heijne, K. Hennessy, P. Henrard, L. Henry, J. A. Hernando Morata, E. Van Herwijnen, M. Heß, A. Hicheur, D. Hill, M. Hoballah, C. Hombach, W. Hulsbergen, T. Humair, N. Hussain, D. Hutchcroft, D. Hynds, M. Idzik, P. Ilten, R. Jacobsson, A. Jaeger, P. Jalocha, E. Jans, A. Jawahery, F. Jing, M. John, D. Johnson, C. Jones, C. Joram, B. Jost, N. Jurik, S. Kandybei, W. Kanso, M. Karacson, S. Karodia, M. Kelsey, I. Kenyon, M. Kenzie, T. Ketel, B. Khanji, C. Khurewathanakul, S. Klaver, K. Klimaszewski, O. Kochebina, M. Kolpin, I. Komarov, R. Koopman, P. Koppenburg, M. Korolev, M. Kozeiha, L. Kravchuk, K. Kreplin, M. Kreps, G. Krocker, P. Krokovny, F. Kruse, W. Kucewicz, M. Kucharczyk, V. Kudryavtsev, A. K. Kuonen, K. Kurek, T. Kvaratskheliya, D. Lacarrere, G. Lafferty, A. Lai, D. Lambert, R. W. Lambert, G. Lanfranchi, C. Langenbruch, B. Langhans, T. Latham, C. Lazzeroni, R. Le Gac, J. Van Leerdam, J. Lees, R. Lefèvre, A. Leflat, J. Lefrançois, O. Leroy, T. Lesiak, B. Leverington, Y. Li, T. Likhomanenko, M. Liles, R. Lindner, C. Linn, F. Lionetto, B. Liu, X. Liu, D. Loh, S. Lohn, I. Longstaff, J. Lopes, P. Lowdon, D. Lucchesi, H. Luo, A. Lupato, E. Luppi, O. Lupton, F. Machefert, F. Maciuc, O. Maev, K. Maguire, S. Malde, A. Malinin, G. Manca, G. Mancinelli, P. M. Manning, A. Mapelli, J. Maratas, J. F. Marchand, U. Marconi, C. Marin Benito, P. Marino, R. Märki, J. Marks, G. Martellotti, M. Martin, M. Martinelli, D. Martinez Santos, F. Martinez Vidal, D. Martins Tostes, A. Massafferri, R. Matev, A. Mathad, Z. Mathe, C. Matteuzzi, A. Mauri, B. Maurin, A. Mazurov, M. Mccann, J. McCarthy, A. Mcnab, R. Mcnulty, B. Meadows, F. Meier, M. Meissner, D. Melnychuk, M. Merk, D. A. Milanes, M. Minard,

D. S. Mitzel, J. Molina Rodriguez, S. Monteil, M. Morandin, P. Morawski, A. Mordà, M. J. Morello, J. Moron, A. B. Morris, R. Mountain, F. Muheim, J. Müller, K. Müller, V. Müller, M. Mussini, B. Muster, P. Naik, T. Nakada, R. Nandakumar, A. Nandi, I. Nasteva, M. Needham, N. Neri, S. Neubert, N. Neufeld, M. Neuner, A. D. Nguyen, T. Nguyen, C. Nguyen-Mau, V. Niess, R. Niet, N. Nikitin, T. Nikodem, D. Ninci, A. Novoselov, D. P. O'Hanlon, A. Oblakowska-Mucha, V. Obraztsov, S. Ogilvy, O. Okhrimenko, R. Oldeman, G. Onderwater, B. Osorio Rodrigues, J. M. Otalora Goicochea, A. Otto, P. Owen, M. A. Oyanguren, A. Palano, F. Palombo, M. Palutan, J. Panman, A. Papanestis, M. Pappagallo, L. Pappalardo, C. Pappenheimer, C. Parkes, G. Passaleva, G. Patel, M. Patel, C. Patrignani, A. Pearce, A. Pellegrino, G. Penso, M. Pepe Altarelli, S. Perazzini, P. Perret, L. Pescatore, K. Petridis, A. Petrolini, M. Petruzzo, E. Picatoste Olloqui, B. Pietrzyk, T. Pilař, D. Pinci, A. Pistone, A. Piucci, S. Playfer, M. Plo Casasus, T. Poikela, F. Polci, A. Poluektov, I. Polyakov, E. Polycarpo, A. Popov, D. Popov, B. Popovici, C. Potterat, E. Price, J. D. Price, J. Prisciandaro, A. Pritchard, C. Prouve, V. Pugatch, A. Puig Navarro, G. Punzi, W. Qian, R. Quagliani, B. Rachwal, J. Rademacker, M. Rama, M. Rangel, I. Raniuk, N. Rauschmayr, G. Raven, F. Redi, S. Reichert, M. Reid, A. Dos Reis, S. Ricciardi, S. Richards, M. Rihl, K. Rinnert, V. Rives Molina, P. Robbe, A. B. Rodrigues, E. Rodrigues, J. A. Rodriguez Lopez, P. Rodriguez Perez, S. Roiser, V. Romanovsky, A. Romero Vidal, J. W. Ronayne, M. Rotondo, J. Rouvinet, T. Ruf, H. Ruiz, P. Ruiz Valls, J. J. Saborido Silva, N. Sagidova, P. Sail, B. Saitta, V. Salustino Guimaraes, C. Sanchez Mayordomo, B. Sanmartin Sedes, R. Santacesaria, C. Santamarina Rios, M. Santimaria, E. Santovetti, A. Sarti, C. Satriano, A. Satta, D. M. Saunders, D. Savrina, M. Schiller, H. Schindler, M. Schlupp, M. Schmeling, T. Schmelzer, B. Schmidt, O. Schneider, A. Schopper, M. Schubiger, M. H. Schune, R. Schwemmer, B. Sciascia, A. Sciubba, A. Semennikov, N. Serra, J. Serrano, L. Sestini, P. Seyfert, M. Shapkin, I. Shapoval, Y. Shcheglov, T. Shears, L. Shekhtman, V. Shevchenko, A. Shires, R. Silva Coutinho, G. Simi, M. Sirendi, N. Skidmore, I. Skillicorn, T. Skwarnicki, E. Smith, E. Smith, I. T. Smith, J. Smith, M. Smith, H. Snoek, M. Sokoloff, P. Soler, F. Soomro, D. Souza, B. Souza De Paula, B. Spaan, P. Spradlin, S. Sridharan, F. Stagni, M. Stahl, S. Stahl, O. Steinkamp, O. Stenyakin, C. F. Sterpka, S. Stevenson, S. Stoica, S. Stone, B. Storaci, S. Stracka, M. Straticiuc, U. Straumann, L. Sun, W. Sutcliffe, K. Swientek, S. Swientek, V. Syropoulos, M. Szczekowski, P. Szczypka, T. Szumlak, S. T'Jampens, T. Tekampe, M. Teklishyn, G. Tellarini, F. Teubert, C. Thomas, E. Thomas, J. Van Tilburg, V. Tisserand, M. Tobin, J. Todd, S. Tolk, L. Tomassetti, D. Tonelli, S. Topp-Joergensen, N. Torr, E. Tournefier, S. Tourneur, K. Trabelsi, M. T. Tran, M. Tresch, A. Trisovic, A. Tsaregorodtsev, P. Tsopelas, N. Tuning, A. Ukleja, A. Ustyuzhanin, U. Uwer, C. Vacca, V. Vagnoni, G. Valenti, A. Vallier, R. Vazquez Gomez, P. Vazquez Regueiro, C. Vázquez Sierra, S. Vecchi, J. Velthuis, M. Veltre, G. Veneziano, M. Vesterinen, B. Viaud, D. Vieira, M. Vieites Diaz, X. Vilasis-Cardona, A. Vollhardt, D. Volyansky, D. Voong, A. Vorobyev, V. Vorobyev, C. Voß, J. De Vries, R. Waldi, C. Wallace, R. Wallace, J. Walsh, S. Wandernoth, J. Wang, D. Ward, N. Watson, D. Websdale, A. Weiden, M. Whitehead, D. Wiedner, G. Wilkinson, M. Wilkinson, M. R. Williams, M. Williams, M. Williams, T. Williams, F. Wilson, J. Wimberley, J. Wishahi,

W. Wislicki, M. Witek, G. Wormser, S. Wotton, S. Wright, K. Wyllie, Y. Xie, Z. Xu, Z. Yang, J. Yu, X. Yuan, O. Yushchenko, M. Zangoli, M. Zavertyaev, L. Zhang, Y. Zhang, A. Zhelezov, A. Zhokhov, L. Zhong, CERN-LHCb- PUB-2015-010, LHCb-PUB-2015-010

2. Tagged time-dependent analysis of $B_s^0 \rightarrow J/\psi K^+K^-$ and $B_s^0 \rightarrow J/\psi \pi^+\pi^-$ decays with 1.0 fb^{-1} , R. Aad, Y. Amhis, M. Calvi, P. Clarke, G. Cowan, R. Currie, F. Dordet, F. Dupertuis, D. van Eijk, D. Ferguson, M. Grabalosa, S. Hansmann-Menzemer, W. Hulsbergen, G. Krocker, J. van Leerdam, O. Leroy, C. Linn, E. Maurice, T. Nikodem, D. Martinez Santos, F. Muheim, M. Needham, G. Raven, S. Stone, U. Uwer, S. Vecchi, Y. Xie, L. Zhang ,
3. Measurement of CP violation and polarization fractions in $B_s^0 \rightarrow J/\psi \bar{K}^{*0}(892)$ decays with 3 fb^{-1} , D. Martinez Santos, S. Akar, P. Alvarez Cartelle, G ; Chatzikonstantinidis, A. Dosil Suarez, J. Garcia Pardinas, W. Kanso, M. Kozyulin, O. Leroy, J.- J. Saborido Silva, V. Syropoulos, C. Vasquez Sierra,

2014

1. Évolution de la contribution française à l'upgrade de LHCb, Z. Ajaltouni, S. Akar, Y. Amhis, E. Aslanides, M. Baalouch, S. Barsuk, L. Beaucourt, C. Beigbeder- Beau, E. Ben-Haim, J. Bonnard, M. Borsato, T. Cacérès, J.-P. Cachemiche, S. Cap, H. Chanal, D. Charlet, M. Charles, M. Chefdeville, J. Cogan, E. Cogneras, S. Coquereau, C. Crozatier, D. Decamp, L. Del Buono, N. Déléage, O. Deschamps, C. Drancourt, O. Duarte, P.-Y. Duval, I. El Rifai, L. Fournier, C. Gasq, Ph. Ghez, M. Grabalosa, F. Hachon, P. Henrard, L. Henry, M. Hoballah, C. Insa, M. Jevaud, W. Kanso, O. Kochebina, O. Le Dortz, J.-P. Lees, R. Lefèvre, J. Lefrançois, R. Le Gac, O. Leroy, B. Lieunard, F. Machefert, M. Magne, G. Mancinelli, J.-M. Maratas, J.-F. Marchand, M.-L. Mercier, D. Milanes, M.-N. Minard, S. Monteil, A. Mordà, V. Niess, C. Pailler, P. Perret, B. Pietrzyk, N. Pillet, F. Polci, W. Qian, F. Rethore, P. Robbe, M.-H. Schune, J. Serrano, M. Taurigna, S. M. Teklishyn, T'Jampens, V. Tisserand, E. Tournefier, A. Tsaregorodtsev, A. Vallier, R. Vandaele, B. Viaud, G. Vouters, G. Wormser, F. Yengui2014, IN2P3-00943386
2. Estimation of the TPU cost, J.-P. Cachemiche, B. Jost, R. Le Gac, N. Neufeld, EDMS 1360078
3. The LHCb readout for the Run 3, S. Akar, F. Alessio, I. d'Antone, G. Balbi, J.-P. Cachemiche, D. Campora, J. Cogan, C. Drancourt, P. Durante, I. Lax, R. Le Gac, U. Marconi, N. Neufeld, P. Robbe, L. Roy, R. Schwemmer, S. T'Jampens, G. Vouters, K. Wyllie, EDMS 1357418
4. LHCb Tracker Upgrade Technical Design Report, LHCb Collaboration, CERN-LHCC-2014-001, LHCB-TDR-015
5. Review Document: Low Level Trigger (LLT), S. Akar, J. Cachemiche, H. Chanal, J. Cogan, C. Drancourt, R. Lefèvre, R. Le Gac, N. Neufeld, P. Robbe, M. Vesterinen, CERN-LHCb-PUB-2014-037, LHCb-PUB-2014-037
6. LHCb Trigger and Online Upgrade Technical Design Report, LHCb Collaboration, CERN-LHCC-2014-016, LHCB-TDR-016

7. Reply to questions from the LHCC referees to the LHCb Trigger and Online upgrade TDR, LHCb Collaboration, LHCb- INT-2014-33
8. Flavour tagged time-dependent angular analysis of $B_s^0 \rightarrow J/\psi K^+ K^-$ decays in the low $K^+ K^-$ mass range, R. Aaij, P. Clarke, G. Cowan, R. Currie, F. Dordoi, M. Dorigo, F. Dupertuis, S. Esen, D. Ferguson, S. Hansmann-Menzemer, W. Kanso, R.W. Lambert, O. Leroy, C. Linn, D. Martinez Santos, F. Muheim, T. Nikodem, G. Raven, V. Syropoulos, S. Vecchi, Y. Xie ,
9. Averages of b -hadron, c -hadron, and τ -lepton properties as of summer 2014, Y. Amhis, S. Banerjee, E. Ben-Haim, S. Blyth, A. Bozek, C. Bozzi, A. Carbone, R. Chistov, M. Chrzaszcz, G. Cibinetto, J. Dingfelder, M. Gelb, M. Gersabeck, T. Gershon, L. Gibbons, B. Golob, R. Harr, K. Hayasaka, H. Hayashii, T. Kuhr, O. Leroy, A. Lusiani, K. Miyabayashi, P. Naik, S. Nishida, A. Campos, M. Patel, D. Pedrini, M. Petric, M. Rama, M. Roney, M. Rotondo, O. Schneider, C. Schwanda, A. Schwartz, B. Shwartz, J. Smith, R. Tesarek, K. Trabelsi, P. Urquijo, R. Van Kooten, A. Zupanc, FERMILAB-PUB-15-004-PPD

2013

1. Search for rare decays $B_s^0 \rightarrow \mu^+ \mu^-$ at the LHC with the ATLAS, CMS and LHCb experiments, G. Mancinelli, M. Perrin-Terrin, CERN-LHCb-INT-2013-012
2. Electronics Architecture of the LHCb Upgrade, K. Wyllie, F. Alessio, C. Gaspar, R. Jacobsson, R. Le Gac, N. Neufeld, R. Schwemmer, CERN-LHCb-PUB-2011-011, LHCb-PUB-2011-011
3. Towards a model independent branching ratio measurement of $B_s^0 \rightarrow \mu^+ \mu^-$, M. Perrin-Terrin, G. Mancinelli, F. Dettori, J. Serrano , CERN-LHCb-INT-2013-012
4. LHCb VELO Upgrade Technical Design Report, LHCb Collaboration, CERN-LHCC-2013-021, LHCB-TDR-013
5. LHCb PID Upgrade Technical Design Report, LHCb Collaboration, CERN-LHCC-2013-022, LHCB-TDR-014
6. ECFA High Luminosity LHC Experiments Workshop: Physics and Technology Challenges, D. Abbaneo, M. Abbrescia, P. P. Allport, C. Amelung, A. Ball, D. Barney, C. F. Bedoya, P. De Barbaro, O. Beltramello, S. Bertolucci, H. Borel, O. Bruning , P. Buncic, C. M. Buttar, J.-P. Cachemiche, P. Campana, A. Cardini, S. Caron, M. Chamizo Llatas, D. G. Charlton, J. Christiansen, D. C. Contardo, G. Corti, C. G. Cuadrado, A. Dainese, B. Dahmes, B. Di Girolamo, P. Dupieux, P. Elmer, P. Farthouat, D. Ferrere, M. Ferro-Luzzi, I. Fisk, M. Garcia-Sciveres, T. Gershon, S. Giagu, P. Giubellino, G. Graziani, I. M. Gregor, B. Gorini, M. Hansen, C.S. Hill, K. Hoepfner, P. Iengo, J. Incandela, M. Ishino, P. Jenni, A. Kluge, P. Kluit, M. Klute, T. Kollegger, M. Krammer, N. Konstantinidis, O. Kortner, G. Lanfranchi, F. Lanni, R. Le Gac, R. Lindner, F. Machefer, M. Mangano, M. Mannelli, V. Manzari, A. Marchioro, S. McMahon, I.-A. Melzer-Pellmann, S. Mersi, P.

Braun Munzinger, W. J. Murray, S. Myers, A. Nisati, N. Neufeld, P. Phillips, D. Pinci, K. Prokofiev, C. Rembser, P. Riedler, W. Riegler, D. Rousseau, L. Rossi, A. Safonov, G. P. Salam, A. Sbrizzi, C. Schaefer, B. Schmidt, C. Schwick, D. Silvermyr, W. H. Smith, A. Valero, P. Vande Vyvre, F. Vasey, S. Veneziano, B. Verlaat, T.S. Virdee, A.R. Weidberg, A. Weiler, P. Wells, H. Wessels , G. Wilkinson, K. Wyllie, ECFA/13/284

7. Search for rare decays $B_s^0 \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$ with 3 fb^{-1} at LHCb, C. Adrover, J. Albrecht, F. Archilli, M-O. Bettler, X. Cid Vidal, F. Dettori, C. Elsasser, J. A. Hernando Morata, G. Lanfranchi, G. Mancinelli, D. Martinez Santos, S. Oggero, M. Palutan, A. Pellegrino, M. Perrin-Terrin, N. Sagidova, A. Sarti, J. Serrano, B. Sciascia, Y. Shcheglov, F. Soomro, O. Steinkamp, S. Tolk, CERN-LHCb-ANA-2013-032

2012

1. Optimisation of the binning of the discriminating variables used in the computation of $\mathcal{B}(B_s^0 \rightarrow \mu^+ \mu^-)$ upper limits with the modified frequentist approach, G. Mancinelli, M. Perrin-Terrin, CERN-LHCb-INT-2012-003
2. Search for the rare decays $B_s^0 \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$ with 1.02 fb^{-1} , C. Adrover, J. Albrecht, F. Archilli, M. Bettler, X. Cid Vidal, F. Dettori, C. Elsasser, J. A. Hernando Morata, G. Lanfranchi, G. Mancinelli, D. Martinez Santos, M. Palutan, M. Perrin-Terrin, N. Sagidova, A. Sarti, B. Sciascia, J. Serrano, F. Soomro, Y. Shcheglov, O. Steinkamp, CERN-LHCb-ANA-2011-102
3. Search for the rare decays $B_s^0 \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$ with 1 fb^{-1} of 2012 data, C. Adrover, J. Albrecht, F. Archilli, M-O. Bettler, X. Cid Vidal, F. Dettori, C. Elsasser, G. Lanfranchi, G. Mancinelli, D. Martinez Santos, A. Mordà, S. Oggero, M. Palutan, A. Pellegrino, M. Perrin-Terrin, M. Rama, A. Sarti, M. Schlupp, J. Serrano, B. Sciascia, F. Soomro, S. Tolk, A. Ustyuzhanin, R. Vazquez Gomez, CERN-LHCb-ANA-081
4. Measurement of the B_d^0 mixing frequency Δm_d in $B^0 \rightarrow J/\psi K^{*0}$ and $B^0 \rightarrow D^- \pi^+$, T. Brambach, M. Calvi, M. Calvo, C. Cauet, D. Derkach, U. Eitschberger, S. Furcas, G. Krocker, F. Kruse, O. Leroy, J. von Loeben, M. Grabalosa, F. Meier, E. Maurice, S. Vecchi, J. Wishahi, CERN-LHCb-ANA-2012-018
5. Contribution française à l'upgrade de LHCb, C. Adrover, Z. Ajaltouni, E. Aslanides, S. Barsuk, C. Beigbeder-Beau, E. Ben-Haim, M. Benayoun, I. De Bonis, J.-P. Cachemiche, S. Cap, T. Cacerès, O. Callot, D. Charlet, H. Chanal, J. Cogan, E. Cogneras, P. David, D. Decamp, L. Del Buono, O. Deschamps, C. Drancourt, O. Duarte, P.-Y. Duval, I. El Rifai, Ph. Ghez, F. Hachon, J. He, P. Henrard, M. Hoballah, P. Hopchev, M. Jahjah Hussein, B. Jean-Marie, B. Khanji, O. Kochebina, J.-P. Lees, R. Lefèvre, J. Lefrançois, R. Le Gac, O. Leroy, L. Li Gioi, F. Machefert, I.V. Machikhiliyan, G. Mancinelli, A. Martin Sanchez, A. Martens, E. Maurice, M.-N. Minard, S. Monteil, M. Nicol, V. Niess, M. Perrin-Terrin, P. Perret, B. Pietrzyk, F. Polci, F. Rethore, D.A. Roa Romero, P. Robbe, M. Sapunov, M.-H. Schune, J. Serrano, K.

Sobczak, S. T'Jampens, M. Teklichyn, V. Tisserand, V. Tocut, E. Tournefier, A. Tsaregorodtsev, B. Viaud, I. Videau, G. Vouters, IN2P3-00925089

6. Tagged time-dependent angular analysis of $B_s^0 \rightarrow J/\psi\phi$ decays with 1.03 fb $^{-1}$, R. Aaij, Y. Amhis, T. Brambach, M. Calvi, M. Calvo, C. Cauet, P. Clarke, G. Cowan, R. Currie, D. Derkach, F. Dordei, F. Dupertius, U. Eitschberger, C. Fitzpatrick, S. Furcas, M. Grabalosa, S. Hansmann-Menzemer, W. Hulsbergen, G. Krocker, C. Langenbruch, O. Leroy, C. Linn, E. Maurice, F. Muheim, M. Needham, G. Raven, U. Uwer, D. Van Eijk, J. Van Leerdam, S. Vecchi, J. Wishahi, J. Von Loeben, Y. Xie, CERN-LHCb-ANA-2012-004
7. Angular analysis of $B^0 \rightarrow K^{*0}\mu^+\mu^-$ at LHCb with 1 fb $^{-1}$, T. Blake, E. Ben-Haim, M. De Cian, U. Egede, J. Lefrançois, C. Parkinson, M. Patel, F. Polci, C. Salzmann, A. Satta, M. H. Schune, J. Serrano, N. Serra, A. Shires, CERN-LHCb-ANA-2012-051
8. Performance of flavor tagging algorithms optimised for the analysis of $B_s^0 \rightarrow J/\psi\phi$, R. Aaij, B. Adeua, M. Adinolfi, C. Adrover, A. Affolder, Z. Ajaltouni, J. Albrecht, F. Alessio, M. Alexander, S. Ali, G. Alkhazov, P. Alvarez Cartelle, A. A. Alves Jr, S. Amato, S. Amerio, Y. Amhis, L. Anderlini, J. Anderson, R. Andreassen, J. E. Andrews, R. B. Appleby, O. Aquines Gutierrez, F. Archilli, A. Artamonov, M. Artuso, E. Aslanides, G. Auriemma, M. Baalouch, S. Bachmann, J. J. Back, C. Baesso, V. Balagura, W. Baldini, R. J. Barlow, C. Barschel, S. Barsuk, W. Barter, T. Bauer, A. Bay, J. Beddow, F. Bedeschi, I. Bediaga, S. Belogurov, K. Belous, I. Belyaev, E. Ben-Haim, G. Bencivenni, S. Benson, J. Benton, A. Berezhnoy, R. Bernet, M.-O. Bettler, M. Van Beuzekom, A. Bien, S. Bifani, T. Bird, A. Bizzeti, P. M. Bjørnstad, T. Blake, F. Blanc, J. Blouw, S. Blusk, V. Bocci, A. Bondar, N. Bondar, W. Bonivento, S. Borghi, A. Borgia, T. J. Bowcock, E. Bowen, C. Bozzi, T. Brambach, J. Van Den Brand, J. Bressieux, D. Brett, M. Britsch, T. Britton, N. H. Brook, H. Brown, I. Burducea, A. Bursche, G. Busetto, J. Buytaert, S. Cadeddu, O. Callot, M. Calvi, M. Calvo Gomez, A. Camboni, P. Campana, D. Campora Perez, A. Carbone, G. Carboni, R. Cardinale, A. Cardini, H. Carranza-Mejia, L. Carson, K. Carvalho Akiba, G. Casse, L. Castillo Garcia, M. Cattaneo, C. Cauet, R. Cenci, M. Charles, P. Charpentier, P. Chen, N. Chiapolini, M. Chrzaszcz, K. Ciba, X. Cid Vidal, G. Ciezarek, P. E. Clarke, M. Clemencic, H. V. Cliff, J. Closier, C. Coca, V. Coco, J. Cogan, E. Cogneras, P. Collins, A. Comerma- Montells, A. Contu, A. Cook, M. Coombes, S. Coquereau, G. Corti, B. Couturier, G. A. Cowan, D. C. Craik, S. Cunliffe, R. Currie, C. D'Ambrosio, P. David, P. N. David, A. Davis, I. De Bonis, K. De Bruyn, S. De Capua, M. De Cian, J. M. De Miranda, L. De Paula, W. De Silva, P. De Simone, D. Decamp, M. Deckenhoff, L. Del Buono, N. Déléage, D. Derkach, O. Deschamps, F. Dettori, A. Di Canto, H. Dijkstra, M. Dogaru, S. Donleavy, F. Dordei, A. Dosil Suárez, D. Dossett, A. Dovbnya, F. Dupertius, P. Durante, R. Dzhelyadin, A. Dziurda, A. Dzyuba, S. Easo, U. Egede, V. Egorichev, S. Eidelman, D. Van Eijk, S. Eisenhardt, U. Eitschberger, R. Ekelhof, L. Eklund, I. El Rifai, C. Elsasser, A. Falabella, C. Färber, G. Fardell, C. Farinelli, S. Farry, D. Ferguson, V. Fernandez Albor, F. Ferreira Rodrigues, M. Ferro-Luzzi, S. Filippov, M. Fiore, C. Fitzpatrick,

M. Fontana, F. Fontanelli, R. Forty, O. Francisco, M. Frank, C. Frei, M. Frosini, S. Furcas, E. Furfaro, A. Gallas Torreira, D. Galli, M. Gandelman, P. Gandini, Y. Gao, J. Garofoli, P. Garosi, J. Garra Tico, L. Garrido, C. Gaspar, R. Gauld, E. Gersabeck, M. Gersabeck, T. Gershon, P. Ghez, V. Gibson, L. Giubega, V. V. Gligorov, C. Göbel, D. Golubkov, A. Golutvin, A. Gomes, P. Gorbounov, H. Gordon, M. Grabalosa Gándara, R. Graciani Diaz, L. A. Granado Cardoso, E. Graugés, G. Graziani, A. Grecu, E. Greening, S. Gregson, P. Griffith, O. Grünberg, B. Gui, E. Gushchin, Y. Guz, T. Gys, C. Hadjivasiliou, G. Haefeli, C. Haen, S. C. Haines, S. Hall, B. Hamilton, T. Hampson, S. Hansmann- Menzemer, N. Harnew, S. T. Harnew, J. Harrison, T. Hartmann, J. He, T. Head, V. Heijne, K. Hennessy, P. Henrard, J. A. Hernando Morata, E. Van Herwijnen, A. Hicheur, E. Hicks, D. Hill, M. Hoballah, C. Hombach, P. Hopchev, W. Hulsbergen, P. Hunt, T. Huse, N. Hussain, D. Hutchcroft, D. Hynds, V. Iakovenko, M. Idzik, P. Ilten, R. Jacobsson, A. Jaeger, E. Jans, P. Jaton, A. Jawahery, F. Jing, M. John, D. Johnson, C. R. Jones, C. Joram, B. Jost, M. Kaballo, S. Kandybei, W. Kanso, M. Karacson, T. M. Karbach, I. R. Kenyon, T. Ketel, A. Keune, B. Khanji, O. Kochebina, I. Komarov, R. F. Koopman, P. Koppenburg, M. Korolev, A. Kozlinskiy, L. Kravchuk, K. Kreplin, M. Kreps, G. Krocker, P. Krokovny, F. Kruse, M. Kucharczyk, V. Kudryavtsev, T. Kvaratskheliya, V. N. La Thi, D. Lacarrere, G. Lafferty, A. Lai, D. Lambert, R. W. Lambert, E. Lanciotti, G. Lanfranchi, C. Langenbruch, T. Latham, C. Lazzeroni, R. Le Gac, J. Van Leerdam, J.-P. Lees, R. Lefèvre, A. Leflat, J. Lefrançois, S. Leo, O. Leroy, T. Lesiak, B. Leverington, Y. Li, L. Li Gioi, M. Liles, R. Lindner, C. Linn, B. Liu, G. Liu, S. Lohn, I. Longstaff, J. H. Lopes, N. Lopez-March, H. Lu, D. Lucchesi, J. Luisier, H. Luo, F. Machefer, I. V. Machikhiliyan, F. Maciuc, O. Maev, S. Malde, G. Manca, G. Mancinelli, J. Maratas, U. Marconi, P. Marino, R. Märki, J. Marks, G. Martellotti, A. Martens, A. Martín Sánchez, M. Martinelli, D. Martinez Santos, D. Martins Tostes, A. Massafferri, R. Matev, Z. Mathe, C. Matteuzzi, E. Maurice, A. Mazurov, B. Mc Skelly, J. McCarthy, A. Mcnab, R. Mcnulty, B. Meadows, F. Meier, M. Meissner, M. Merk, D. A. Milanes, M.-N. Minard, J. Molina Rodriguez, S. Monteil, D. Moran, P. Morawski, A. Mordà, M. J. Morello, R. Mountain, I. Mous, F. Muheim, K. Müller, R. Muresan, B. Muryn, B. Muster, P. Naik, T. Nakada, R. Nandakumar, I. Nasteva, M. Needham, S. Neubert, N. Neufeld, A. D. Nguyen, T. D. Nguyen, C. Nguyen-Mau, M. Nicol, V. Niess, R. Niet, N. Nikitin, T. Nikodem, A. Nomerotski, A. Novoselov, A. Oblakowska-Mucha, V. Obraztsov, S. Oggero, S. Ogilvy, O. Okhrimenko, R. Oldeman, M. Orlandea, J. M. Otalora Goicochea, P. Owen, A. Oyanguren, B. K. Pal, A. Palano, T. Palczewski, M. Palutan, J. Panman, A. Papanestis, M. Pappagallo, C. Parkes, C. J. Parkinson, G. Passaleva, G. D. Patel, M. Patel, G. N. Patrick, C. Patrignani, C. Pavel-Nicorescu, A. Pazos Alvarez, A. Pellegrino, G. Penso, M. Pepe Altarelli, S. Perazzini, E. Perez Trigo, A. Pérez-Calero Yzquierdo, P. Perret, M. Perrin-Terrin, L. Pescatore, E. Pesen, G. Pessina, K. Petridis, A. Petrolini, A. Phan, E. Picatoste Olloqui, B. Pietrzyk, T. Pilarčík, D. Pinci, S. Playfer, M. Plo Casasus, F. Polci, G. Polok, A. Poluektov, E. Polycarpo, A. Popov, D. Popov, B. Popovici, C. Potterat, A. Powell, J. Prisciandaro, A. Pritchard, C. Prouve, V. Pugatch, A. Puig Navarro, G. Punzi, W. Qian, J. H. Rademacker, B. Rakotomiaramanana, M. S. Rangel, I. Raniuk, N. Rauschmayr, G. Raven, S. Redford, M. M. Reid,

- A. C. Dos Reis, S. Ricciardi, A. Richards, K. Rinnert, V. Rives Molina, D. A. Roa Romero, P. Robbe, D. A. Roberts, E. Rodrigues, P. Rodriguez Perez, S. Roiser, V. Romanovsky, A. Romero Vidal, J. Rouvinet, T. Ruf, F. Ruffini, H. Ruiz, P. Ruiz Valls, G. Sabatino, J. J. Saborido Silva, N. Sagidova, P. Sail, B. Saitta, V. Salustino Guimaraes, B. Sanmartin Sedes, M. Sannino, R. Santacesaria, C. Santamarina Rios, E. Santovetti, M. Sapunov, A. Sarti, C. Satriano, A. Satta, M. Savrie, D. Savrina, P. Schaack, M. Schiller, H. Schindler, M. Schlupp, M. Schmelling, B. Schmidt, O. Schneider, A. Schopper, M.-H. Schune, R. Schwemmer, B. Sciascia, A. Sciubba, M. Seco, A. Semennikov, K. Senderowska, I. Sepp, N. Serra, J. Serrano, P. Seyfert, M. Shapkin, I. Shapoval, P. Shatalov, Y. Shcheglov, T. Shears, L. Shekhtman, O. Shevchenko, V. Shevchenko, A. Shires, R. Silva Coutinho, M. Sirendi, T. Skwarnicki, N. A. Smith, E. Smith, J. Smith, M. Smith, M. D. Sokoloff, F. J. Soler, F. Soomro, D. Souza, B. Souza De Paula, B. Spaan, A. Sparkes, P. Spradlin, F. Stagni, S. Stahl, O. Steinkamp, S. Stevenson, S. Stoica, S. Stone, B. Storaci, M. Stratuciuc, U. Straumann, V. K. Subbiah, L. Sun, S. Swientek, V. Syropoulos, M. Szczekowski, P. Szczypka, T. Szumlak, S. T'Jampens, M. Teklshyn, E. Teodorescu, F. Teubert, C. Thomas, E. Thomas, J. Van Tilburg, V. Tisserand, M. Tobin, S. Tolk, D. Tonelli, S. Topp-Joergensen, N. Torr, E. Tournefier, S. Tourneur, M. T. Tran, M. Tresch, A. Tsaregorodtsev, P. Tsopelas, N. Tuning, M. Ubeda Garcia, A. Ukleja, D. Urner, A. Ustyuzhanin, U. Uwer, V. Vagnoni, G. Valenti, A. Vallier, M. Van Dijk, R. Vazquez Gomez, P. Vazquez Regueiro, C. Vázquez Sierra, S. Vecchi, J. J. Velthuis, M. Veltri, G. Veneziano, M. Vesterinen, B. Viaud, D. Vieira, X. Vilasis-Cardona, A. Vollhardt, D. Volyansky, D. Voong, A. Vorobyev, V. Vorobyev, C. Voß, H. Voss, R. Waldi, C. Wallace, R. Wallace, S. Wandernoth, J. Wang, D. R. Ward, N. K. Watson, A. D. Webber, D. Websdale, M. Whitehead, J. Wicht, J. Wiechczynski, D. Wiedner, L. Wiggers, G. Wilkinson, M. P. Williams, M. Williams, F. F. Wilson, J. Wimberley, J. Wishahi, W. Wislicki, M. Witek, S. A. Wotton, S. Wright, S. Wu, K. Wyllie, Y. Xie, Z. Xing, Z. Yang, R. Young, X. Yuan, O. Yushchenko, M. Zangoli, M. Zavertyaev, F. Zhang, L. Zhang, W. C. Zhang, Y. Zhang, A. Zhelezov, A. Zhokhov, L. Zhong, A. Zvyagin, LHCb-CONF-2012-026
9. Framework TDR for the LHCb Upgrade, I. Bediaga, J. M. De Miranda, F. Ferreira Rodrigues, J. Magnin, A. Massafferri, I. Nasteva, A. C. Dos Reis, S. Amato, K. Carvalho Akiba, L. De Paula, O. Francisco, M. Gandelman, A. Gomes, J. H. Lopes, J. M. Otalora Goicochea, E. Polycarpo, M. S. Rangel, B. Souza De Paula, D. Vieira, C. Göbel, J. Molina Rodriguez, P. Chen, Y. Gao, G. Gong, H. Gong, F. Jing, L. Li, Y. Li, B. Liu, H. Lu, B. Shao, S. Wu, T. Xue, Z. Yang, X. Yuan, M. Zeng, F. Zhang, Y. Zhang, L. Zhong, I. De Bonis, D. Decamp, C. Drancourt, P. Ghez, P. Hopchev, J.-P. Lees, I. V. Machikhiliyan, M.-N. Minard, B. Pietrzik, S. T'Jampens, V. Tisserand, E. Tournefier, G. Vouters, Z. Ajaltouni, H. Chanal, E. Cogneras, O. Deschamps, I. El Rifai, P. Henrard, M. Hoballah, M. Jahjah Hussein, R. Lefèvre, L. Li Gioi, S. Monteil, V. Niess, P. Perret, D. A. Roa Romero, K. Sobczak, C. Adrover, E. Aslanides, J.-P. Cachemiche, J. Cogan, P.-Y. Duval, F. Hachon, B. Khanji, R. Le Gac, O. Leroy, G. Mancinelli, E. Maurice, M. Perrin-Terrin, F. Rethore, M. Sapunov, J. Serrano, A. Tsaregorodtsev, S. Barsuk, C. Beigbeder-Beau, T. Cacérès, O. Callot, D. Charlet, O. Duarte,

J. He, B. Jean-Marie, O. Kochebina, J. Lefrançois, F. Machefert, A. Martín Sánchez, M. Nicol, P. Robbe, M.-H. Schune, M. Teklishyn, V. Tocut, B. Viaud, I. Videau, E. Ben-Haim, M. Benayoun, P. David, L. Del Buono, A. Martens, F. Polci, T. Brambach, C. Cauet, M. Deckenhoff, M. Domke, R. Ekelhof, M. Kaballo, T. M. Karbach, F. Kruse, J. Merkel, K. Rudloff, S. Schleich, M. Schlupp, B. Spaan, S. Swientek, K. Warda, J. Wishahi, C. Bauer, M. Britsch, C. Föhr, M. Fontana, H. Fuchs, W. Hofmann, T. Kihm, D. Popov, M. Schmelling, D. Volyanskyy, H. Voss, M. Zavertyaev, S. Bachmann, A. Bien, J. Blouw, F. Dordei, C. Färber, E. Gersabeck, S. Hansmann-Menzemer, A. Jaeger, K. Kreplin, G. Krocker, C. Linn, J. Marks, M. Meissner, T. Nikodem, P. Seyfert, S. Stahl, J. Van Tilburg, U. Uwer, S. Wandernoth, D. Wiedner, A. Zhelezov, O. Grünberg, T. Hartmann, C. Voß, R. Waldi, S. Bifani, S. Farry, P. Ilten, T. Kechadi, Z. Mathe, R. McNulty, R. Wallace, W. C. Zhang, D. A. Milanes, A. Palano, A. Carbone, I. D'Antone, D. Derkach, A. Falabella, D. Galli, I. Lax, U. Marconi, S. Perazzini, V. Vagnoni, G. Valenti, M. Zangoli, W. Bonivento, S. Cadeddu, A. Cardini, A. Lai, G. Manca, R. Oldeman, B. Saitta, W. Baldini, C. Bozzi, F. Evangelisti, L. Landi, A. Mazurov, M. Savrie, S. Squerzanti, S. Vecchi, A. Bizzeti, M. Frosini, G. Graziani, G. Passaleva, M. Veltri, M. Anelli, F. Archilli, G. Bencivenni, P. Campana, P. Ciambrone, P. De Simone, G. Felici, G. Lanfranchi, M. Palutan, A. Saputi, A. Sarti, B. Sciascia, F. Soomro, R. Cardinale, F. Fontanelli, C. Patrignani, A. Petrolini, M. Calvi, S. Furcas, A. Giachero, C. Gotti, M. Kucharczyk, M. Maino, C. Matteuzzi, G. Pessina, G. Carboni, S. De Capua, G. Sabatino, E. Santovetti, A. Satta, A. A. Alves Jr, G. Auriemma, V. Bocci, G. Martellotti, G. Penso, D. Pinci, R. Santacesaria, C. Satriano, A. Sciubba, S. Nisar, P. Morawski, G. Polok, M. Witek, B. Muryn, A. Oblakowska-Mucha, K. Senderowska, T. Szumlak, Z. Guzik, A. Nawrot, M. Szczechowski, A. Ukleja, I. Burducea, C. Coca, M. Dogaru, A. Grecu, F. Maciuc, R. Muresan, M. Orlandea, C. Pavel-Nicorescu, B. Popovici, S. Stoica, M. Straticiuc, E. Teodorescu, G. Alkhazov, B. Bochin, N. Bondar, A. Dzyuba, S. Gets, V. Golovtsov, A. Kashchuk, O. Maev, M. Matveev, N. Sagidova, Y. Shcheglov, S. Volkov, A. Vorobyev, V. Balagura, S. Belogurov, I. Belyaev, V. Egorychev, D. Golubkov, T. Kvaratskheliya, D. Savrina, A. Semennikov, P. Shatalov, V. Shevchenko, A. Zhokhov, A. Berezhnoy, G. Bogdanova, I. Komarov, M. Korolev, A. Leflat, N. Nikitin, V. Volkov, E. Zverev, S. Filippov, E. Gushchin, O. Karavichev, L. Kravchuk, Y. Kudenko, S. Laptev, A. Tikhonov, A. Bondar, S. Eidelman, P. Krokovny, V. Kudryavtsev, L. Shekhtman, V. Vorobyev, A. Artamonov, K. Belous, R. Dzhelyadin, Y. Guz, A. Novoselov, V. Obraztsov, A. Ostankov, V. Romanovsky, M. Shapkin, O. Stenyakin, O. Yushchenko, C. Abellan Beteta, M. Calvo Gomez, A. Camboni, A. Casajus Ramo, A. Comerma-Montells, F. Domingo Bonal, L. Garrido, D. Gascon, M. Grabalosa Gándara, R. Graciani Diaz, E. Graugés, E. Lopez Asamar, J. Mauricio, V. Mendez-Munoz, A. Pérez-Calero Yzquierdo, E. Picatoste Olloqui, B. Pie Valls, C. Potterat, A. Puig Navarro, M. Rosello, H. Ruiz, R. Vazquez Gomez, X. Vilasis-Cardona, B. Adeva, P. Alvarez Cartelle, X. Cid Vidal, A. Dosil Suárez, D. Esperante Pereira, V. Fernandez Albor, A. Gallas Torreira, J. A. Hernando Morata, A. Pazos Alvarez, E. Perez Trigo, M. Plo Casasus, P. Rodriguez Perez, J. J. Saborido Silva, B. Sanmartin Sedes, C. Santamarina Rios, M. Seco, P. Vazquez Regueiro, J. Visniakov, J. Albrecht, F. Alessio,

C. Barschel, T. Blake, E. Bonaccorsi, L. Brarda, J. Buytaert, M. Cattaneo, B. Chadaj, P. Charpentier, M. Chebbi, K. Ciba, M. Clemencic, J. Closier, P. Collins, B. Corajod, G. Corti, B. Couturier, C. D'Ambrosio, G. Decreuse, H. Dijkstra, R. Dumps, M. Ferro-Luzzi, R. Forty, C. Fournier, M. Frank, C. Frei, C. Gaspar, M. Gersabeck, V. V. Gligorov, L. A. Granado Cardoso, T. Gys, C. Haen, E. Van Herwijnen, R. Jacobsson, O. Jamet, B. Jost, M. Karacson, R. Kristic, D. Lacarrere, E. Lanciotti, C. Langenbruch, R. Lindner, G. Liu, D. Martinez Santos, R. Matev, N. Neufeld, J. Panman, M. Pepe Altarelli, D. Piedigrossi, N. Rauschmayr, S. Roiser, L. Roy, T. Ruf, H. Schindler, B. Schmidt, T. Schneider, A. Schopper, R. Schwemmer, F. Stagni, V. K. Subbiah, F. Teubert, E. Thomas, D. Tonelli, M. Ubeda Garcia, O. Ullaland, M. Vesterinen, J. Wicht, W. Witzeling, K. Wyllie, A. Zvyagin, Y. Amhis, A. Bay, F. Bernard, F. Blanc, J. Bressieux, G. A. Cowan, H. Degaudenzi, F. Dupertuis, V. Fave, R. Frei, N. Gauvin, G. Haefeli, P. Jaton, A. Keune, M. Knecht, V. N. La Thi, N. Lopez-March, J. Luisier, R. Märki, B. Muster, T. Nakada, A. D. Nguyen, C. Nguyen-Mau, J. Prisciandaro, B. Rakotomiaramanana, J. Rouvinet, O. Schneider, P. Szczypka, S. Tourneur, M. T. Tran, G. Veneziano, J. Anderson, R. Bernet, A. Büchler-Germann, A. Bursche, N. Chiapolini, M. De Cian, C. Elsasser, K. Müller, J. Palacios, C. Salzmann, S. Saornil Gamarra, N. Serra, O. Steinkamp, U. Straumann, M. Tobin, A. Vollhardt, R. Aaij, S. Ali, H. Band, T. Bauer, M. Van Beuzekom, V. Van Beveren, H. Boer Rookhuizen, L. Ceelie, V. Coco, P. N. David, K. De Bruyn, P. De Groen, D. Van Eijk, C. Farinelli, V. Gromov, B. Van Der Heijden, V. Heijne, W. Hulsbergen, E. Jans, F. Jansen, L. Jansen, P. Jansweijer, R. Kluit, P. Koppenburg, A. Kozlinskiy, J. Van Leerdam, M. Martinelli, M. Merk, I. Mous, B. Munneke, S. Oggero, M. Van Overbeek, A. Pellegrino, O. Van Petten, E. Roeland, K. De Roo, A. Schimmel, H. Schuijlenburg, T. Sluijk, B. Storaci, P. Tsopelas, N. Tuning, W. Vink, P. Wenerke, L. Wiggers, F. Zappon, A. Zwart, J. Van Den Brand, F. Dettori, T. Ketel, R. F. Koopman, J. Kos, R. W. Lambert, F. Mul, G. Raven, M. Schiller, S. Tolk, A. Dovbnya, S. Kandybei, I. Raniuk, I. Shapoval, O. Shevchenko, V. Iakovenko, Y. Nikolaiko, O. Okhrimenko, M. Pugatch, V. Pugatch, P. J. Faulkner, I. R. Kenyon, C. Lazzeroni, J. McCarthy, M. W. Slater, N. K. Watson, M. Adinolfi, J. Benton, N. H. Brook, A. Cook, M. Coombes, T. Hampson, S. T. Harnew, P. Naik, J. H. Rademacker, A. Solomin, D. Souza, J. J. Velthuis, D. Voong, W. Barter, M.-O. Bettler, H. V. Cliff, J. Garra Tico, V. Gibson, S. Gregson, S. C. Haines, C. R. Jones, S. Sigurdsson, D. R. Ward, S. A. Wotton, S. Wright, J. J. Back, D. Craik, D. Dossett, T. Gershon, M. Kreps, T. Latham, T. Pilař, A. Poluektov, M. M. Reid, R. Silva Coutinho, M. Whitehead, M. P. Williams, S. Easo, R. Nandakumar, A. Papanestis, G. N. Patrick, S. Ricciardi, F. F. Wilson, S. Benson, P. E. Clarke, R. Currie, S. Eisenhardt, C. Fitzpatrick, D. Lambert, H. Luo, H. Mejia, F. Muheim, M. Needham, S. Playfer, A. Sparkes, Y. Xie, M. Alexander, J. Beddow, S. Borghi, L. Eklund, D. Hynds, S. Ogilvy, M. Pappagallo, E. Rodrigues, P. Sail, F. J. Soler, P. Spradlin, T. J. Bowcock, H. Brown, G. Casse, S. Donleavy, K. Hennessy, E. Hicks, T. Huse, D. Hutchcroft, M. Liles, G. D. Patel, K. Rinnert, T. Shears, N. A. Smith, L. Carson, G. Ciezarek, S. Cunliffe, U. Egede, A. Golutvin, S. Hall, P. Owen, C. J. Parkinson, M. Patel, K. Petridis, A. Richards, T. Savidge, I. Sepp, A. Shires, D. Websdale, M. Williams, R. B. Appleby, R. J. Barlow, T. Bird, P.

- M. Bjørnstad, D. Brett, J. Harrison, G. Lafferty, G. McGregor, D. Moran, C. Parkes, M. Smith, A. D. Webber, M. Brock, M. Charles, N. Harnew, J. J. John, M. John, S. Malde, A. Nomerotski, A. Powell, C. Thomas, S. Topp-Joergensen, G. Wilkinson, B. Meadows, M. D. Sokoloff, M. Artuso, S. Blusk, A. Borgia, T. Britton, J. Garofoli, B. Gui, C. Hadjivasiliou, R. Mountain, B. K. Pal, A. Phan, W. Qian, T. Skwarnicki, S. Stone, J. Wang, Z. Xing, L. Zhang, CERN- LHCC-2012-007, LHCb-TDR-12
10. Averages of b -hadron, c -hadron, and τ -lepton properties as of early 2012, Y. Amhis, S. Banerjee, R. Bernhard, S. Blyth, A. Bozek, C. Bozzi, A. Carbone, A. Campos, R. Chistov, G. Cibinetto, J. Coleman, J. Dingfelder, W. Dungel, M. Gersabeck, T. Gershon, L. Gibbons, B. Golob, R. Harr, K. Hayasaka, H. Hayashii, O. Leroy, D. Lopes Pegna, R. Louvot, A. Lusiani, V. Luth, B. Meadows, S. Nishida, M. Patel, D. Pedrini, M. Rama, M. Roney, M. Rotondo, O. Schneider, C. Schwanda, A. Schwartz, B. Shwartz, J. Smith, R. Tesarek, D. Tonelli, K. Trabelsi, P. Urquijo, R. Van Kooten, FERMILAB-PUB-12-871-PPD, SLAC-R-1002
 11. Search for the rare decays $B_{(s)}^0 \rightarrow \mu\mu$ at the LHC with the ATLAS, CMS and LHCb experiments, R. Aaij, et al., CERN-LHCb-CONF-2012-017, LHCb-CONF-2012-017
- 2011
1. LHCb Global Timing and Monitoring of the LHC Filling Scheme, F. Alessio, Z. Guzik, R. Jacobsson, CERN-LHCb- PUB-2011-004, LHCb-PUB-2011-004
 2. Measurement of CP violation in the time-dependent analysis of $B^0 \rightarrow J/\psi K_S^0$ decays with the 2010 data, T. Brambach, M. Calvi, A. Falabella, S. Furcas, M. Gandelman, M. Grabalosa, W. Hulsbergen, T. M. Karbach, B. Khanji, F. Kruse, O. Leroy, E. Maurice, J. Merkel, M. Musy, F. Rodrigues, B. Souza de Paula, S. Vecchi, J. Wishahi, Y. Xie, CERN-LHCb- ANA-2011-004
 3. Measurement of Δm_d and calibration of the combined opposite side taggers in the decay $B_d \rightarrow D^-(K^+\pi^-\pi^-)\pi^+$, K. Akiba, T. Bird, S. Blusk, T. Brambach, M. Calvo Gomez, M. Calvi, S. Easo, V. Fave, A. Falabella, C. Farinelli, S. Furcas, M. Grabalosa, S. Hansmann- Menzemer, K. Holubyev, B. Khanji, G. Krocker, P. Krokovny, C. Langenbruch, O. Leroy, E. Maurice, I. Mous, M. Musy, T. Nikodem, E. Rodrigues, S. Stahl, S. Vecchi, S. Sebastian Wandernoth, Y. Xie, CERN-LHCb-ANA-2011-015
 4. Measurement of Δm_s in the decay $B_s \rightarrow D_s(K^+K^-\pi^-)\pi^+$ and $B_s \rightarrow D_s(K^+K^-\pi^-)\pi^+\pi^+\pi^-$, K. Akiba, T. Bird, S. Blusk, T. Brambach, M. Calvo Gomez, M. Calvi, S. Easo, V. Fave, A. Falabella, C. Farinelli, S. Furcas, M. Grabalosa, S. Hansmann- Menzemer, K. Holubyev, B. Khanji, G. Krocker, P. Krokovny, C. Langenbruch, O. Leroy, E. Maurice, I. Mous, M. Musy, T. Nikodem, E. Rodrigues, S. Stahl, S. Vecchi, S. Wandernoth, Y. Xie, CERN-LHCb-ANA-2011-005
 5. Search for the rare decays $B_{(s)}^0 \rightarrow \mu^+\mu^-$ with 150 pb^{-1} at LHCb, C. Adrover, J. Albrecht, F. Archilli, M. Bettler, L. Carson, X. Cid Vidal, C. Elsasser, J. A. Hernando Morata, G. Lanfranchi, G. Mancinelli, D. Martinez Santos, M.

Matveev, M. Palutan, M. Perrin-Terrin, N. Sagidova, A. Sarti, J. Serrano,
 B. Sciascia, Y. Shcheglov, O. Steinkamp, CERN-LHCb-ANA-2011-039

6. Measurement of the Υ cross section in $\mu^+\mu^-$ channel at LHCb, G. Manca, J. Cogan, R. Robbe, CERN- LHCb-ANA-2011-077
7. Optimization and Calibration of the Flavour Tagging performance using 2010 data, T. Brambach, M. Calvi, A. Falabella, S. Furcas, B. Khanji, O. Leroy, M. Grabalosa, E. Maurice, M. Musy, S. Vecchi, Y. Xie, CERN- LHCb-ANA-2011-003
8. Tagged time-dependent angular analysis of $B_s \rightarrow J/\psi\phi$ decays with 337 pb^{-1} at LHCb, R. Aaij, Y. Amhis, A. Bien, T. Brambach, M. Calvi, M. Calvo, P. Clarke, G. Cowan, R. Currie, A. Falabella, V. Fave, C. Fitzpatrick, S. Furcas, M. Grabalosa, S. Hansmann-Menzemer, W. Hulsbergen, G. Krocker, C. Langenbruch, O. Leroy, C. Linn, J. Luisier, E. Maurice, F. Muheim, M. Needham, T. Nikodem, G. Raven, A. Sparkes, S. Stahl, U. Uwer, D. Van Eijk, J. Van Leerdam, S. Vecchi, S. Wandernoth, J. Wishahi, J. von Loeben, Y. Xie, CERN- LHCb-ANA-2011-036
9. Tagged time-dependent angular analysis of $B_s^0 \rightarrow J/\psi\phi$ decays with the 2010 LHCb data, R. Aaij, K. Akiba, Y. Amhis, A. Bien, T. Bird, S. Blusk, T. Brambach, M. Calvi, M. Calvo, P. Clarke, G. Cowan, R. Currie, H. Dijksstra, S. Easo, A. Falabella, C. Farinelli, V. Fave, C. Fitzpatrick, S. Furcas, M. Gandelman, M. Grabalosa, S. Hansmann-Menzemer, K. Holubyev, W. Hulsbergen, M. Karbach, B. Khanji, G. Krocker, P. Krokovny, F. Kruse, C. Langenbruch, R. Lefevre, O. Leroy, C. Linn, J. Luisier, E. Maurice, J. Merkel, I. Mous, F. Muheim, B. Muster, M. Musy, T. Nakada, M. Needham, T. Nikodem, G. Raven, E. Rodrigues, F. Rodrigues, O. Schneider, B. Spaan, A. Sparkes, B. Souza de Paula, S. Stahl, U. Uwer, D. van Eijk, J. van Leerdam, S. Vecchi, S. Wandernoth, J. Wishahi, Y. Xie, CERN-LHCb-ANA-2011-006
10. Measurement of the $pp \rightarrow \Upsilon \rightarrow \mu^+\mu^-$ cross- section at $\sqrt{s} = 7 \text{ TeV}$ at LHCb, G. Manca, J. Cogan, P. Robbe, CERN-LHCb-ANA-2011-012
11. Selections and lifetime measurements for exclusive $b \rightarrow J/\psi X$ decays with $J/\psi \rightarrow \mu^+\mu^-$ with 2010 data, R. Aaij, Y. Amhis, G. Cowan, D. van Eijk, W. Hulsbergen, B. Khanji, R. Lefevre, O. Leroy, J. Luisier, E. Maurice, B. Muster, T. Nakada, G. Raven, O. Schneider, Y. Xie, CERN-LHCb-ANA-2011-001
12. Angular analysis of $B^0 \rightarrow K^{*0}\mu^+\mu^-$ at LHCb with 1 fb^{-1} , T. Blake, E. Ben-Haim, M. De Cian, U. Egede, J. Lefrançois, C. Parkinson, M. Patel, F. Polci, C. Salzmann, A. Satta, M. H. Schune, J. Serrano, N. Serra, A. Shires, CERN-LHCb-ANA-2011-089
13. Letter of Intent for the LHCb Upgrade, R. Aaij, C. Abellan Beteta, B. Adeua, M. Adinolfi, C. Adrover, A. Affolder, Z. Ajaltouni, J. Albrecht, F. Alessio, M. Alexander, P. Alvarez Cartelle, A.A. Alves Jr, S. Amato, Y. Amhis, J. Amoraal, J. Anderson, R.B. Appleby, O. Aquines Gutierrez, L. Arrabito, M. Artuso, E. Aslanides, G. Auriemma, S. Bachmann, D.S. Bailey, V. Balagura, W. Baldini, R.J. Barlow, C. Barschel, S. Barsuk, A. Bates, C. Bauer, Th. Bauer, A. Bay, I. Bediaga, C. Beigbeder-Beau, K. Belous,

I. Belyaev, E. Ben-Haim, M. Benayoun, G. Bencivenni, R. Bernet, M.-O. Bettler, M. van Beuzekom, A. Bien, S. Bifani, A. Bizzeti, P.M. Bjørnstad, T. Blake, F. Blanc, C. Blanks, J. Blouw, S. Blusk, A. Bobrov, V. Bocci, B. Bochin, A. Bondar, N. Bondar, W. Bonivento, S. Borghi, A. Borgia, E. Bos, T.J.V. Bowcock, C. Bozzi, T. Brambach, J. van den Brand, J. Bressieux, D. Breton, M. Britsch, T. Britton, N.H. Brook, H. Brown, A. Büchler-Germann, A. Bursche, J. Buytaert, T. Caceres, J.-P. Cachemiche, S. Cadeddu, J.M. Caicedo Carvajal, O. Callot, M. Calvi, M. Calvo Gomez, A. Camboni, P. Campana, M. Campbell, A. Carbone, G. Carboni, R. Cardinale, A. Cardini, L. Carson, K. Carvalho Akiba, G. Casse, L. Castillo Garcia, M. Cattaneo, M. Charles, D. Charlet, Ph. Charpentier, N. Chiapolini, X. Cid Vidal, P.J. Clark, P.E.L. Clarke, M. Clemencic, H.V. Cliff, J. Closier, C. Coca, V. Coco, J. Cogan, P. Collins, F. Constantin, G. Conti, A. Contu, M. Coombes, G. Corti, G.A. Cowan, R. Currie, B. D'Almagne, C. D'Ambrosio, W. Da Silva, P. David, I. De Bonis, S. De Capua, M. De Cian, F. De Lorenzi, J.M. De Miranda, L. De Paula, P. De Simone, D. Decamp, M. Deckenhoff, H. Degaudenzi, M. Deissenroth, L. Del Buono, C. Deplano, O. Deschamps, F. Dettori, J. Dickens, H. Dijkstra, M. Dima, P. Diniz Batista, S. Donleavy, D. Dossett, A. Dovbnya, O. Duarte, R. Dumps, F. Dupertuis, P.-Y. Duval, R. Dzhelyadin, C. Eames, S. Easo, U. Egede, V. Egorychev, S. Eidelman, D. van Eijk, F. Eisele, S. Eisenhardt, R. Ekelhof, L. Eklund, Ch. Elsasser, D.G. d'Enterria, D. Esperante Pereira, L. Estève, A. Falabella, E. Fanchini, C. Färber, G. Fardell, C. Farinelli, S. Farry, V. Fave, V. Fernandez Albor, M. Ferro-Luzzi, S. Filippov, C. Fitzpatrick, F. Fontanelli, J. Fopma, R. Forty, M. Frank, C. Frei, M. Frosini, S. Furcas, A. Gallas Torreira, D. Galli, M. Gandelman, P. Gandini, R. Gao, Y. Gao, J-C. Garnier, J. Garofoli, L. Garrido, D. Gascon Fora, C. Gaspar, N. Gauvin, M. Gersabeck, T. Gershon, Ph. Ghez, A. Giachero, V. Gibson, V.V. Gligorov, C. Göbel, V. Golovtsov, D. Golubkov, A. Golutvin, A. Gomes, H. Gordon, C. Gotti, M. Grabalosa Gandara, R. Graciani Diaz, L.A. Granado Cardoso, E. Graugés, G. Graziani, A. Grecu, S. Gregson, B. Gui, E. Gushchin, Yu. Guz, Z. Guzik, T. Gys, F. Hachon, G. Haefeli, S.C. Haines, T. Hampson, S. Hansmann-Menzemer, R. Harji, N. Harnew, P.F. Harrison, J. He, V. Heijne, K. Hennessy, P. Henrard, J.A. Hernando Morata, E. van Herwijnen, A. Hicheur, E. Hicks, W. Hofmann, K. Holubyev, P. Hopchev, W. Hulsbergen, P. Hunt, T. Huse, R.S. Huston, D. Hutchcroft, D. Hynds, V. Iakovenko, P. Ilten, J. Imong, R. Jacobsson, M. Jahjah Hussein, E. Jans, F. Jansen, P. Jaton, B. Jean-Marie, J. Jeglot, F. Jing, M. John, D. Johnson, C.R. Jones, B. Jost, F. Kapusta, M. Karacson, T.M. Karbach, J. Keaveney, U. Kerzel, T. Ketel, A. Keune, B. Khanji, Y.M. Kim, M. Knecht, S. Koblitz, A. Konoplyannikov, P. Koppenburg, A. Kozlinskiy, L. Kravchuk, M. Kreps, G. Krocker, P. Krokovny, F. Kruse, K. Kruzelecki, M. Kucharczyk, S. Kukulak, R. Kumar, T. Kvaratskheliya, V.N. La Thi, D. Lacarrere, G. Lafferty, A. Lai, R.W. Lambert, G. Lanfranchi, C. Langenbruch, T. Latham, R. Le Gac, J. van Leerdam, J.-P. Lees, R. Lefèvre, A. Leflat, J. Lefrançois, O. Leroy, T. Lesiak, L. Li, Y.Y. Li, L. Li Gioi, M. Lieng, M. Liles, R. Lindner, C. Linn, B. Liu, G. Liu, X. Llopart Cudie, J.H. Lopes, E. Lopez Asamar, N. Lopez- March, J. Luisier, B. M'charek, F. Machefert, I.V. Machikhiliyan, F. Maciuc, O. Maev, J. Magnin, A. Maier, S. Malde, R.M.D. Mamunur, G. Manca, G. Mancinelli, N. Mangiafave, U. Marconi, R. Märki, J. Marks,

G. Martellotti, A. Martens, L. Martin, A. Martin Sanchez, D. Martinez Santos, A. Massafferri, Z. Mathe, C. Matteuzzi, M. Matveev, V. Matveev, E. Maurice, B. Maynard, A. Mazurov, G. McGregor, R. McNulty, C. Mclean, M. Meissner, M. Merk, J. Merkel, M. Merkin, R. Messi, S. Miglioranzi, D.A. Milanes, M.-N. Minard, S. Monteil, D. Moran, P. Morawski, J.V. Morris, R. Mountain, I. Mous, F. Muheim, K. Müller, R. Muresan, F. Murtas, B. Muryn, M. Musy, J. Mylroie-Smith, P. Naik, T. Nakada, R. Nandakumar, J. Nardulli, A. Nawrot, M. Nedos, M. Needham, N. Neufeld, M. Nicol, S. Nies, V. Niess, N. Nikitin, A. Nomerotski, A. Oblakowska-Mucha, V. Obraztsov, S. Oggero, O. Okhrimenko, R. Oldeman, M. Orlandea, A. Ostankov, B. Pal, J. Palacios, M. Palutan, J. Panman, A. Papanestis, M. Pappagallo, C. Parkes, C.J. Parkinson, G. Passaleva, G.D. Patel, M. Patel, S.K. Paterson, G.N. Patrick, C. Patrignani, C. Pavel -Nicorescu, A. Pazos Alvarez, A. Pellegrino, G. Penso, M. Pepe Altarelli, S. Perazzini, D.L. Perego, E. Perez Trigo, A. Pérez-Calero Yzquierdo, P. Perret, G. Pessina, A. Petrolini, E. Picatoste Olloqui, B. Pie Valls, D. Piedigrossi, B. Pietrzyk, D. Pinci, R. Plackett, S. Playfer, M. Plo Casasus, T. Poikela, G. Polok, A. Poluektov, E. Polycarpo, D. Popov, B. Popovici, C. Potterat, A. Powell, T. du Pree, V. Pugatch, A. Puig Navarro, W. Qian, J.H. Rademacker, B. Rakotomiaramanana, I. Raniuk, G. Raven, S. Redford, W. Reece, A.C. dos Reis, F. Rethore, S. Ricciardi, K. Rinnert, D.A. Roa Romero, P. Robbe, E. Rodrigues, F. Rodrigues, C. Rodriguez Cobo, P. Rodriguez Perez, G.J. Rogers, V. Romanovsky, J. Rouvinet, L. Roy, T. Ruf, H. Ruiz, G. Sabatino, J.J. Saborido Silva, N. Sagidova, P. Sail, B. Saitta, C. Salzmann, A. Sambade Varela, M. Sannino, R. Santacesaria, R. Santinelli, E. Santovetti, M. Sapunov, A. Sarti, C. Satriano, A. Satta, M. Savrie, D. Savrina, P. Schaack, M. Schiller, S. Schleich, M. Schmelling, B. Schmidt, O. Schneider, A. Schopper, M.-H. Schune, R. Schwemmer, A. Sciubba, M. Seco, A. Semennikov, K. Senderowska, N. Serra, J. Serrano, B. Shao, M. Shapkin, I. Shapoval, P. Shatalov, Y. Shcheglov, T. Shears, L. Shekhtman, O. Shevchenko, V. Shevchenko, A. Shires, E. Simioni, H.P. Skottowe, T. Skwarnicki, A.C. Smith, K. Sobczak, F.J.P. Soler, A. Solomin, P. Somogy, F. Soomro, B. Souza De Paula, B. Spaan, A. Sparkes, E. Spiridenkov, P. Spradlin, F. Stagni, O. Steinkamp, O. Stenyakin, S. Stoica, S. Stone, B. Storaci, U. Straumann, N. Styles, S. Swientek, M. Szczekowski, P. Szczypka, T Szumlak, S. T'Jampens, V. Talanov, E. Teodorescu, F. Teubert, C. Thomas, E. Thomas, J. van Tilburg, V. Tisserand, M. Tobin, S. Topp-Joergensen, M.T. Tran, A. Tsaregorodtsev, N. Tuning, A. Ukleja, P. Urquijo, U. Uwer, V. Vagnoni, G. Valenti, R. Vazquez Gomez, P. Vazquez Regueiro, S. Vecchi, J.J. Velthuis, M. Veltri, K. Vervink, B. Viaud, I. Videau, X. Vilasis-Cardona, J. Visniakov, S. Volkov, A. Vollhardt, D. Voong, A. Vorobyev, An. Vorobyev, H. Voss, K. Wacker, S. Wandernoth, J. Wang, D.R. Ward, A.D. Webber, M. Whitehead, D. Wiedner, L. Wiggers, G. Wilkinson, M.P. Williams, M. Williams, F.F. Wilson, J. Wishahi, M. Witek, W. Witzeling, S.A. Wotton, K. Wyllie, Y. Xie, F. Xing, Z. Yang, G. Ybeles Smit, R. Young, O. Yushchenko, M. Zavertyaev, L. Zhang, W.C. Zhang, Y. Zhang, A. Zhelezov, L. Zhong, CERN-LHCC-2011-001, LHCC-I-018

14. Optimization and calibration of the Same Side Kaon tagging algorithm using hadronic B_S^0 decays in 2011 data, G. Krocker, S. Hansmann-Menzemer, M. Calvi, M. Calvo, M. Grabalosa, E. Maurice, T. Nikodem, S. Vecchi, S.

2010

1. Updated measurement of the J/ψ production cross-section in LHCb, J. Albrecht, J. Bressieux, G. Carboni, J. Cogan, S. de Capua, M. Frosini, Y. Gao, J. He, G. Lanfranchi, R. Le Gac, B. Liu, G. Manca, M. Needham, M. Palutan, G. Passaleva, M. Pepe-Altarelli, W. Qian, P. Robbe, G. Sabatino, E. Santovetti, A. Sarti, O. Schneider, J. Serrano, Y. Zhang, CERN-LHCb-ANA-2010-012
2. Measurement of the J/ψ production cross-section in LHCb (Summer Conferences 2010), J. Albrecht, J. Bressieux, G. Carboni, J. Cogan, M. Frosini, Y. Gao, J. He, G. Lanfranchi, R. Le Gac, B. Liu, G. Manca, M. Needham, M. Palutan, G. Passaleva, M. Pepe-Altarelli, W. Qian, P. Robbe, G. Sabatino, A. Sarti, J. Serrano, CERN-LHCb-ANA-2010-004
3. Road map for selected key measurements from LHCb, B. Ade, M. Adinolfi, A. Affolder, Z. Ajaltouni, J. Albrecht, F. Alessio, M. Alexander, P. Alvarez Cartelle, A. A. Alves, S. Amato, Y. Amhis, J. Amorall, J. Anderson, O. Aquines Gutierrez, L. Arrabito, M. Artuso, E. Aslanides, G. Auriemma, S. Bachmann, Y. Bagaturia, D. S. Bailey, V. Balagura, W. Baldini, M. Barandela Pazos, R. J. Barlow, S. Barsuk, A. Bates, C. Bauer, T. Bauer, A. Bay, I. Bediaga, K. Belous, I. Belyaev, M. Benayoun, G. Bencivenni, R. Bernet, M. O. Bettler, A. Bizzeti, T. Blake, F. Blanc, C. Blanks, J. Blouw, S. Blusk, A. Bobrov, V. Bocci, A. Bondar, N. Bondar, W. Bonivento, S. Borghi, A. Borgia, E. Bos, T. J. Bowcock, C. Bozzi, J. Bressieux, S. Brisbane, M. Britsch, N. H. Brook, H. Brown, A. Büchler-Germann, J. Buytaert, J.-P. Cachemiche, S. Cadeddu, J. M. Caicedo Carvajal, O. Callot, M. Calvi, M. Calvo Gomez, A. Camboni, W. Cameron, P. Campana, A. Carbone, G. Carboni, A. Cardini, L. Carson, K. Carvalho Akiba, G. Casse, M. Cattaneo, M. Charles, P. Charpentier, A. Chlopik, P. Ciamprone, X. Cid Vidal, P. J. Clark, P. E. Clarke, M. Clemencic, H. V. Cliff, J. Closier, C. Coca, V. Coco, J. Cogan, P. Collins, F. Constantin, G. Conti, A. Contu, G. Corti, G. A. Cowan, B. D'Almagne, C. D'Ambrosio, D. G. D'Enterria, W. Da Silva, P. David, I. De Bonis, S. De Capua, M. De Cian, F. De Lorenzi, J. M. De Miranda, L. De Paula, P. De Simone, H. De Vries, D. Decamp, H. Degaudzenzi, M. Deissenroth, L. Del Buono, C. Deplano, O. Deschamps, F. Dettori, J. Dickens, H. Dijkstra, M. Dima, S. Donleavy, A. C. Dos Reis, A. Dovbnya, T. Du Pree, P.-Y. Duval, L. Dwyer, R. Dzhelyadin, C. Eames, S. Easo, U. Egede, V. Egorychev, F. Eisele, S. Eisenhardt, L. Eklund, D. Esperante Pereira, L. Estève, S. Eydelman, E. Fanchini, C. F'Arber, G. Fardell, C. Farinelli, S. Farry, V. Fave, V. Fernandez Albor, M. Ferro-Luzzi, S. Filippov, C. Fitzpatrick, F. Fontanelli, R. Forty, M. Frank, C. Frei, M. Frosini, J. L. Fungueirino Pazos, S. Furcas, A. Gallas Torreira, D. Galli, M. Gandelman, Y. Gao, J. Garnier, L. Garrido, C. Gaspar, N. Gauvin, M. Gersabeck, T. Gershon, P. Ghez, V. Gibson, Y. Gilitsky, V. V. Gligorov, C. Göbel, D. Golubkov, A. Golutvin, A. Gomes, M. Grabalosa Gádara, R. Graciani Diaz, L. A. Granado Cardoso, E. Graugés, G. Graziani, A. Grecu, G. Guerrer, E. Gushchin, Y. Guz, Z. Guzik, T. Gys, F. Hachon, G. Haefeli, S. C. Haines, T. Hampson, S. Hansmann-Menzemer, R. Harji, N.

Harnew, P. F. Harrison, J. He, K. Hennessy, P. Henrard, J. A. Hernando Morata, A. Hicheur, E. Hicks, W. Hofmann, K. Holubyev, P. Hopchev, W. Hulsbergen, P. Hunt, T. Huse, R. S. Huston, D. Hutchcroft, V. Iakovenko, C. Iglesias Escudero, J. Imong, R. Jacobsson, M. Jahjah Hussein, E. Jans, F. Jansen, P. Jaton, B. Jean-Marie, M. John, C. R. Jones, B. Jost, F. Kapusta, T. M. Karbach, J. Keaveney, U. Kerzel, T. Ketel, A. Keune, S. Khalil, B. Khanji, Y. M. Kim, M. Knecht, J. Knopf, S. Koblitz, A. Konoplyannikov, P. Koppenburg, I. Korolko, A. Kozlinskiy, M. Krasowski, L. Kravchuk, P. Krokovny, K. Kruzelecki, M. Kucharczyk, I. Kudryashov, T. Kvaratskheliya, D. Lacarrere, A. Lai, R. W. Lambert, G. Lanfranchi, C. Langenbruch, T. Latham, R. Le Gac, R. Lefevre, A. Leflat, J. Lefran_{Cois}, O. Leroy, K. Lessnoff, L. Li, Y. Y. Li, J. Libby, M. Lieng, R. Lindner, S. Lindsey, C. Linn, B. Liu, G. Liu, J. H. Lopes, E. Lopez Asamar, J. Luisier, F. Machefert, I. Machikhiliyan, F. Maciuc, O. Maev, J. Magnin, A. Maier, R. M. Mamunur, G. Manca, G. Mancinelli, N. Mangiafave, U. Marconi, F. Marin, J. Marks, G. Martellotti, A. Martens, L. Martin, D. Martinez Santos, Z. Mathe, C. Matteuzzi, V. Matveev, A. Mazurov, G. McGregor, B. Mcharek, C. Mclean, R. McNulty, M. Merk, J. Merkel, M. Merkin, R. Messi, F. C. Metlica, J. Michalowski, S. Miglioranzi, M.-N. Minard, S. Monteil, D. Moran, J. V. Morris, R. Mountain, I. Mous, F. Muheim, R. Muresan, F. Murtas, B. Muryn, M. Musy, J. Mylroie-Smith, P. Naik, T. Nakada, R. Nandakumar, J. Nardulli, Z. Natkaniec, M. Nedos, M. Needham, N. Neufeld, L. Nicolas, S. Nies, V. Niess, N. Nikitin, A. Noor, A. Oblakowska- Mucha, V. Obraztsov, S. Oggero, O. Okhrimenko, R. Oldeman, M. Orlandea, A. Ostankov, J. Palacios, M. Palutan, J. Panman, A. Papadelis, A. Papanestis, M. Pappagallo, C. Parkes, G. Passaleva, G. D. Patel, M. Patel, S. K. Paterson, G. N. Patrick, E. Pauna, C. Pauna (Chiojdeanu), C. Pavel (Nicorescu), A. Pazos Alvarez, A. Pellegrino, G. Penso, M. Pepe Altarelli, S. Perazzini, D. L. Perego, A. Pérez-Calero Yzquierdo, E. Perez Trigo, P. Perret, G. Pessina, A. Petrella, A. Petrolini, B. Pietrzyk, D. Pinci, S. Playfer, M. Plo Casasus, G. Polok, A. Poluektov, E. Polycarpo, D. Popov, B. Popovici, S. Poss, C. Potterat, A. Powell, S. Pozzi, V. Pugatch, A. Puig Navarro, W. Qian, J. H. Rademacker, B. Rakotomiaramanana, I. Raniuk, G. Raven, S. Redford, W. Reece, S. Ricciardi, K. Rinnert, P. Robbe, E. Rodrigues, F. Rodrigues, C. Rodriguez Cobo, P. Rodriguez Perez, G. J. Rogers, V. Romanovsky, G. Rospabe, T. Ruf, H. Ruiz, G. Sabatino, J. J. Saborido Silva, N. Sagidova, B. Saitta, C. Salzmann, A. Sambade Varela, M. Sannino, R. Santacesaria, R. Santinelli, E. Santovetti, M. Sapunov, A. Sarti, C. Satriano, A. Satta, M. Savrie, D. Savrina, P. Schaack, M. Schiller, S. Schleich, M. Schmelling, B. Schmidt, O. Schneider, A. Schopper, M.-H. Schune, R. Schwemmer, A. Sciubba, M. Seco, A. Semennikov, K. Senderowska, N. Serra, J. Serrano, B. Shao, M. Shapkin, I. Shapoval, P. Shatalov, Y. Shcheglov, T. Shears, L. Shekhtman, V. Shevchenko, E. Simioni, H. P. Skottowe, T. Skwarnicki, A. C. Smith, K. Sobczak, F. J. Soler, A. Solomin, P. Somogy, F. Soomro, B. Souza De Paula, B. Spaan, A. Sparkes, E. Spiridenkov, P. Spradlin, F. Stagni, O. Steinkamp, S. Stoica, S. Stone, U. Straumann, N. Styles, K. Syryczynski, M. Szczekowski, P. Szczypka, T. Szumlak, S. T'Jampens, H. Terrier, F. Teubert, C. Thomas, E. Thomas, M. Tobin, S. Topp-Joergensen, M. T. Tran, S. Traynor, A. Tsaregorodtsev, N. Tuning, A. Ukleja, O. Ullaland, U. Uwer, V. Vagnoni, G. Valenti, M. Van Beuzekom,

J. Van Den Brand, D. Van Eijk, E. Van Herwijnen, A. Van Lysebetten, J. Van Tilburg, R. Vazquez Gomez, P. Vazquez Regueiro, S. Vecchi, J. J. Velthuis, M. Velttri, K. Vervink, B. Viaud, I. Videau, X. Vilasis-Cardona, A. Vollhardt, A. Vorobyev, A. Vorob'ev, H. Voss, K. Wacker, S. Wandernoth, J. Wang, D. R. Ward, D. Websdale, M. Whitehead, D. Wiedner, L. Wiggers, G. Wilkinson, M. Williams, F. F. Wilson, M. Witek, W. Witzeling, S. A. Wotton, K. Wyllie, Y. Xie, F. Xing, Z. Yang, G. Ybeles Smit, R. Young, O. Yushchenko, L. Zhang, Y. Zhang, A. Zhelezov, N. Zwahlen, CERN- LHCb-PUB-2009-029

mémoire

2023

1. Search for CP violation in semileptonic decays, V. Dedu, Aix-Marseille Université, 11 Oct 2023

2018

1. Recherche des désintégrations violant la saveur leptonique $B_s \rightarrow \tau\mu$ et $B_d \rightarrow \tau\mu$ avec l'expérience LHCb, J. Arnau Romeu, Aix-Marseille Université, 10 Sep 2018

2017

1. Observation of the $B_s^0 \rightarrow \eta_c\phi$ decay with the LHCb experiment, M.L. Martin, Aix Marseille Université, 17 Sep 2017

2015

1. Rare dileptonic B0(s) meson decays at LHCb, A. Mordà, Aix Marseille Université, 28 Sep 2015
2. Analyse du canal $B_s^0 \rightarrow J/\psi \bar{k}^{*0}$ et contraintes sur les processus pingouins dans les désintégrations $B_s^0 \rightarrow J/\psi \phi$ auprès du détecteur LHCb, W. Kanso, Aix Marseille Université, 29 Sep 2015

2013

1. Searches for B meson decays to purely leptonic final states, M. Perrin-Terrin, Aix Marseille Université, 23 Sep 2013

2012

1. Mesure de la violation de CP dans les désintégrations $B_s^0 \rightarrow J/\psi \phi$, auprès du détecteur LHCb, E. Maurice, Aix Marseille Université, 18 Juil 2012
2. Towards the first $B(B_{(s)}^0 \rightarrow \mu^+ \mu^-)$ measurements with the LHCb detector, C. Adrover Pacheco, Aix Marseille Université, 10 Sep 2012

2011

1. Beam, background and luminosity monitoring in LHCb and upgrade of the LHCb fast readout control, F. Alessio, Université de la Méditerranée Aix-Marseille II, 21 Jun 2011
2. Search for New Physics in the $B_s^0 \rightarrow J/\psi\phi$ decay channel at LHCb, B. Khanji, Université de la Méditerranée Aix- Marseille II, 16 Sep 2011