

Publications by T. Bowcock

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LHCB

Preprints (10)

- 1) R. Aaij *et al.*, “Search for the doubly heavy baryons Ξ_{bc}^0 and Ω_{bc}^0 decaying to $\Lambda_c^+\pi^-$ and $\Xi_c^+\pi^-$,” *arXiv:2104.04759*, 4 2021
- 2) R. Aaij *et al.*, “Precise determination of the $B_s^0\text{-}\bar{B}_s^0$ oscillation frequency,” *arXiv:2104.04421*, 4 2021
- 3) R. Aaij *et al.*, “Test of lepton universality in beauty-quark decays,” *arXiv:2103.11769*
- 4) R. Aaij *et al.*, “Search for CP violation in $D_{(s)}^+ \rightarrow h^+\pi^0$ and $D_{(s)}^+ \rightarrow h^+\eta$ decays,” *arXiv:2103.11058*
- 5) R. Aaij *et al.*, “Measurement of prompt-production cross-section ratio $\sigma(\chi_{c2})/\sigma(\chi_{c1})$ in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV,” *arXiv:2103.07349*
- 6) R. Aaij *et al.*, “Precise measurement of the f_s/f_d ratio of fragmentation fractions and of B_s^0 decay branching fractions,” *arXiv:2103.06810*
- 7) R. Aaij *et al.*, “Observation of new resonances decaying to $J/\psi K^+$ and $J/\psi\phi$,” *arXiv:2103.01803*
- 8) R. Aaij *et al.*, “Evidence of a J/ψ structure and observation of excited \bar{b} states in the $\bar{b} \rightarrow J/\psi K^-$ decay,” *arXiv:2012.10380*
- 9) R. Aaij *et al.*, “Searches for 25 rare and forbidden decays of D^+ and D_s^+ mesons,” *arXiv:2011.00217*
- 10) R. Aaij *et al.*, “Observation of new excited B_s^0 states,” *arXiv:2010.15931*

Refereed Journal Papers (558)

- 1) R. Aaij *et al.*, “Angular analysis of the $B^+ \rightarrow K^{*+}\mu^+\mu^-$ decay,” *Phys. Rev. Lett.*, vol. 126, no. 9, p. 091802, 2021
- 2) R. Aaij *et al.*, “Measurement of CP violation in the decay $B^+ \rightarrow K^+\pi^0$,” *Phys. Rev. Lett.*, vol. 126, no. 9, p. 091802, 2021
- 3) R. Aaij *et al.*, “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,” *JHEP*, vol. 04, p. 081, 2021
- 4) R. Aaij *et al.*, “First observation of the decay $B_s^0 \rightarrow K^-\mu^+\nu_\mu$ and measurement of $|V_{ub}|/|V_{cb}|$,” *Phys. Rev. Lett.*, vol. 126, no. 8, p. 081804, 2021
- 5) R. Aaij *et al.*, “Observation of a new Ξ_b^0 state,” *Phys. Rev. D*, vol. 103, no. 1, p. 012004, 2021
- 6) R. Aaij *et al.*, “Measurement of the relative branching fractions of $B^+ \rightarrow h^+h'^+\bar{h}'^-$ decays,” *Phys. Rev. D*, vol. 102, p. 112010, 2020
- 7) R. Aaij *et al.*, “Observation of CP violation in two-body $B_{(s)}^0$ -meson decays to charged pions and kaons,” *JHEP*, vol. 03, p. 075, 2021
- 8) R. Aaij *et al.*, “Search for long-lived particles decaying to $e^\pm\mu^\mp\nu$,” *Eur. Phys. J. C*, vol. 81, no. 3, p. 261, 2021
- 9) R. Aaij *et al.*, “Observation of the $b_c^0 \rightarrow_c^+ K^+K^-\pi^-$ decay,” *Phys. Lett. B*, vol. 815, p. 136172, 2021
- 10) R. Aaij *et al.*, “Observation of the $B_s^0 \rightarrow D^{*+}D^\mp$ decay,” *JHEP*, vol. 03, p. 099, 2021
- 11) R. Aaij *et al.*, “Study of $B_s^0 \rightarrow J\psi\pi^+\pi^-K^+K^-$ decays,” *JHEP*, vol. 02, p. 024, 2021
- 12) R. Aaij *et al.*, “Search for heavy neutral leptons in $W^+ \rightarrow \mu^+\mu^\pm jet$ decays,” *Eur. Phys. J. C*, vol. 81, no. 3, p. 248, 2021

- 13) R. Aaij *et al.*, “Search for the rare decay $B^0 \rightarrow J/\psi\phi$,” *Chin. Phys. C*, vol. 45, no. 4, p. 043001, 2021
- 14) R. Aaij *et al.*, “Measurement of the CKM angle γ and $B_s^0\text{-}\bar{B}_s^0$ mixing frequency with $B_s^0 \rightarrow D_s^\mp h^\pm \pi^\pm \pi^\mp$ decays,” *JHEP*, vol. 03, p. 137, 2021
- 15) R. Aaij *et al.*, “Observation of a new excited D_s^+ meson in $B^0 \rightarrow D^+D^-K^+\pi^-$ decays,” *Phys. Rev. Lett.*, vol. 126, no. 12, p. 122002, 2021
- 16) R. Aaij *et al.*, “Measurement of the branching fraction of the $B^0 \rightarrow D_s^+\pi^-$ decay,” *Eur. Phys. J. C*, vol. 81, no. 4, p. 314, 2021
- 17) R. Aaij *et al.*, “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,” *JHEP*, vol. 02, p. 023, 2021
- 18) R. Aaij *et al.*, “Measurement of the CKM angle γ in $B^\pm \rightarrow DK^\pm$ and $B^\pm \rightarrow D\pi^\pm$ decays with $D \rightarrow K_s^0 h^+ h^-$,” *JHEP*, vol. 02, p. 169, 2021
- 19) R. Aaij *et al.*, “Strong constraints on the $b \rightarrow s\gamma$ photon polarisation from $B^0 \rightarrow K^{*0}e^+e^-$ decays,” *JHEP*, vol. 12, p. 081, 2020
- 20) R. Aaij *et al.*, “Observation of multiplicity-dependent prompt $\chi_{c1}(3872)$ and $\psi(2S)$ production in pp collisions,” 9 2020
- 21) R. Aaij *et al.*, “Search for the doubly heavy Ξ_{bc}^0 baryon via decays to $D^0 p K^-$,” *JHEP*, vol. 11, p. 095, 2020
- 22) R. Aaij *et al.*, “Amplitude analysis of the $B^+ \rightarrow D^+D^-K^+$ decay,” *Phys. Rev. D*, vol. 102, p. 112003, 2020
- 23) R. Aaij *et al.*, “A model-independent study of resonant structure in $B^+ \rightarrow D^+D^-K^+$ decays,” *Phys. Rev. Lett.*, vol. 125, p. 242001, 2020
- 24) R. Aaij *et al.*, “First branching fraction measurement of the suppressed decay $\Xi_c^0 \rightarrow \pi^- \Lambda_c^+$,” *Phys. Rev. D*, vol. 102, no. 7, p. 071101, 2020
- 25) R. Aaij *et al.*, “First observation of the decay $\Lambda_b^0 \rightarrow \eta_c(1S)pK^-$,” *Phys. Rev. D*, vol. 102, no. 11, p. 112012, 2020
- 26) R. Aaij *et al.*, “Observation of Enhanced Double Parton Scattering in Proton-Lead Collisions at $\sqrt{s_{NN}} = 8.16$ TeV,” *Phys. Rev. Lett.*, vol. 125, no. 21, p. 212001, 2020
- 27) R. Aaij *et al.*, “Searches for low-mass dimuon resonances,” *JHEP*, vol. 10, p. 156, 2020
- 28) R. Aaij *et al.*, “First observation of the decay $B^0 \rightarrow D^0\bar{D}^0 K^+\pi^-$,” *Phys. Rev. D*, vol. 102, no. 5, p. 051102, 2020
- 29) R. Aaij *et al.*, “Observation of structure in the J/ψ -pair mass spectrum,” *Sci. Bull.*, vol. 65, no. 23, pp. 1983–1993, 2020
- 30) R. Aaij *et al.*, “Search for CP violation in $c^+ \rightarrow pK^-\pi^+$ decays using model-independent techniques,” *Eur. Phys. J. C*, vol. 80, no. 10, p. 986, 2020
- 31) R. Aaij *et al.*, “Study of the lineshape of the $\chi_{c1}(3872)$ state,” *Phys. Rev. D*, vol. 102, no. 9, p. 092005, 2020
- 32) R. Aaij *et al.*, “Study of the $\psi_2(3823)$ and $\chi_{c1}(3872)$ states in $B^+ \rightarrow (J\psi\pi^+\pi^-)K^+$ decays,” *JHEP*, vol. 08, p. 123, 2020
- 33) R. Aaij *et al.*, “Measurement of branching fraction ratios for $B^+ \rightarrow D^{*+}D^-K^+$, $B^+ \rightarrow D^{*-}D^+K^+$, and $B^0 \rightarrow D^{*-}D^0K^+$ decays,” *JHEP*, vol. 12, p. 139, 2020
- 34) R. Aaij *et al.*, “Measurement of the $\Lambda_b^0 \rightarrow J/\psi\Lambda$ angular distribution and the Λ_b^0 polarisation in pp collisions,” *JHEP*, vol. 06, p. 110, 2020
- 35) R. Aaij *et al.*, “Precision measurement of the B_c^+ meson mass,” *JHEP*, vol. 07, p. 123, 2020
- 36) R. Aaij *et al.*, “Observation of New Ξ_c^0 Baryons Decaying to $\Lambda_c^+K^-$,” *Phys. Rev. Lett.*, vol. 124, no. 22, p. 222001, 2020
- 37) R. Aaij *et al.*, “Measurement of the shape of the $B_s^0 \rightarrow D_s^{*-}\mu^+\nu_\mu$ differential decay rate,” *JHEP*, vol. 12, p. 144, 2020

- 38) R. Aaij *et al.*, “Measurement of CP -Averaged Observables in the $B^0 \rightarrow K^{*0}\mu^+\mu^-$ Decay,” *Phys. Rev. Lett.*, vol. 125, no. 1, p. 011802, 2020
- 39) R. Aaij *et al.*, “Search for the lepton flavour violating decay $B^+ \rightarrow K^+\mu^-\tau^+$ using B_{s2}^0 decays,” *JHEP*, vol. 06, p. 129, 2020
- 40) R. Aaij *et al.*, “Search for the Rare Decays $B_s^0 \rightarrow e^+e^-$ and $B^0 \rightarrow e^+e^-$,” *Phys. Rev. Lett.*, vol. 124, no. 21, p. 211802, 2020
- 41) R. Aaij *et al.*, “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,” *JHEP*, vol. 06, p. 058, 2020
- 42) R. Aaij *et al.*, “Measurement of the branching fraction of the decay $B_s^0 \rightarrow K_S^0 K_S^0$,” *Phys. Rev. D*, vol. 102, no. 1, p. 012011, 2020
- 43) R. Aaij *et al.*, “Observation of a new baryon state in the $\Lambda_b^0 \pi^+ \pi^-$ mass spectrum,” *JHEP*, vol. 06, p. 136, 2020
- 44) R. Aaij *et al.*, “Constraints on the $K_0^S \rightarrow \mu^+ \mu^-$ Branching Fraction,” *Phys. Rev. Lett.*, vol. 125, no. 23, p. 231801, 2020
- 45) R. Aaij *et al.*, “Measurement of $|V_{cb}|$ with $B_s^0 \rightarrow D_s^{(*)-} \mu^+ \nu_\mu$ decays,” *Phys. Rev. D*, vol. 101, no. 7, p. 072004, 2020
- 46) R. Aaij *et al.*, “First observation of excited Ω_b^- states,” *Phys. Rev. Lett.*, vol. 124, no. 8, p. 082002, 2020
- 47) R. Aaij *et al.*, “Search for CP violation and observation of P violation in $\Lambda_b^0 \rightarrow p\pi^-\pi^+\pi^-$ decays,” *Phys. Rev. D*, vol. 102, no. 5, p. 051101, 2020
- 48) R. Aaij *et al.*, “Test of lepton universality with $\Lambda_b^0 \rightarrow pK^-\ell^+\ell^-$ decays,” *JHEP*, vol. 05, p. 040, 2020
- 49) R. Aaij *et al.*, “Measurement of CP violation in $B^0 \rightarrow D^{*\pm} D^\mp$ decays,” *JHEP*, vol. 03, p. 147, 2020
- 50) R. Aaij *et al.*, “Isospin amplitudes in $\Lambda_b^0 \rightarrow J/\psi \Lambda(\Sigma^0)$ and $\Xi_b^0 \rightarrow J/\psi \Xi^0(\Lambda)$ decays,” *Phys. Rev. Lett.*, vol. 124, no. 11, p. 111802, 2020
- 51) R. Aaij *et al.*, “Observation of the semileptonic decay $B^+ \rightarrow p\bar{p}\mu^+\nu_\mu$,” *JHEP*, vol. 03, p. 146, 2020
- 52) R. Aaij *et al.*, “Precision measurement of the Ξ_{cc}^{++} mass,” *JHEP*, vol. 02, p. 049, 2020
- 53) R. Aaij *et al.*, “Determination of quantum numbers for several excited charmed mesons observed in $B^- \rightarrow D^{*+} \pi^- \pi^-$ decays,” *Phys. Rev. D*, vol. 101, no. 3, p. 032005, 2020
- 54) R. Aaij *et al.*, “Measurement of the $\eta_c(1S)$ production cross-section in pp collisions at $\sqrt{s} = 13$ TeV,” *Eur. Phys. J. C*, vol. 80, no. 3, p. 191, 2020
- 55) R. Aaij *et al.*, “Updated measurement of decay-time-dependent CP asymmetries in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \pi^+ \pi^-$ decays,” *Phys. Rev. D*, vol. 101, no. 1, p. 012005, 2020
- 56) R. Aaij *et al.*, “Measurement of the B_c^- meson production fraction and asymmetry in 7 and 13 TeV pp collisions,” *Phys. Rev. D*, vol. 100, no. 11, p. 112006, 2019
- 57) R. Aaij *et al.*, “Measurement of cc^+ production in pp collisions at $\sqrt{s} = 13$ TeV,” *Chin. Phys. C*, vol. 44, no. 2, p. 022001, 2020
- 58) R. Aaij *et al.*, “Measurement of f_s/f_u Variation with Proton-Proton Collision Energy and B -Meson Kinematics,” *Phys. Rev. Lett.*, vol. 124, no. 12, p. 122002, 2020
- 59) R. Aaij *et al.*, “Search for $A' \rightarrow \mu^+ \mu^-$ Decays,” *Phys. Rev. Lett.*, vol. 124, no. 4, p. 041801, 2020
- 60) R. Aaij *et al.*, “Search for the doubly charmed baryon Ξ_{cc}^+ ,” *Sci. China Phys. Mech. Astron.*, vol. 63, no. 2, p. 221062, 2020
- 61) R. Aaij *et al.*, “Observation of Several Sources of CP Violation in $B^+ \rightarrow \pi^+ \pi^+ \pi^-$ Decays,” *Phys. Rev. Lett.*, vol. 124, no. 3, p. 031801, 2020
- 62) R. Aaij *et al.*, “Amplitude analysis of the $B^+ \rightarrow \pi^+ \pi^+ \pi^-$ decay,” *Phys. Rev. D*, vol. 101, no. 1, p. 012006, 2020
- 63) R. Aaij *et al.*, “Measurement of the electron reconstruction efficiency at LHCb,” *JINST*, vol. 14, p. P11023, 2019
- 64) R. Aaij *et al.*, “Search for Lepton-Flavor Violating Decays $B^+ \rightarrow K^+ \mu^\pm e^\mp$,” *Phys. Rev. Lett.*, vol. 123, no. 24, p. 241802, 2019
- 65) R. Aaij *et al.*, “Measurement of $\psi(2S)$ production cross-sections in proton-proton collisions at $\sqrt{s} = 7$ and 13 TeV,” *Eur. Phys. J. C*, vol. 80, no. 3, p. 185, 2020
- 66) R. Aaij *et al.*, “Observation of New Resonances in the $\Lambda_b^0 \pi^+ \pi^-$ System,” *Phys. Rev. Lett.*, vol. 123, no. 15, p. 152001, 2019
- 67) R. Aaij *et al.*, “Measurement of CP violation in the $B_s^0 \rightarrow \phi\phi$ decay and search for the $B^0 \rightarrow \phi\phi$ decay,” *JHEP*, vol. 12, p. 155, 2019
- 68) R. Aaij *et al.*, “Observation of the $\Lambda_b^0 \rightarrow \chi_{c1}(3872)pK^-$ decay,” *JHEP*, vol. 09, p. 028, 2019
- 69) R. Aaij *et al.*, “Precision measurement of the Λ_c^+ , Ξ_c^+ and Ξ_c^0 baryon lifetimes,” *Phys. Rev. D*, vol. 100, no. 3, p. 032001, 2019
- 70) R. Aaij *et al.*, “Updated measurement of time-dependent $\{|\text{it CP}\}$ -violating observables in $B_s^0 \rightarrow J/\psi K^+ K^-$ decays,” *Eur. Phys. J. C*, vol. 79, no. 8, p. 706, 2019. [Erratum: Eur.Phys.J.C 80, 601 (2020)]
- 71) R. Aaij *et al.*, “Measurement of CP observables in the process $B^0 \rightarrow DK^{*0}$ with two- and four-body D decays,” *JHEP*, vol. 08, p. 041, 2019
- 72) R. Aaij *et al.*, “Amplitude analysis of $B^\pm \rightarrow \pi^\pm K^+ K^-$ decays,” *Phys. Rev. Lett.*, vol. 123, no. 23, p. 231802, 2019
- 73) R. Aaij *et al.*, “Search for the lepton-flavour-violating decays $B_s^0 \rightarrow \tau^\pm \mu^\mp$ and $B^0 \rightarrow \tau^\pm \mu^\mp$,” *Phys. Rev. Lett.*, vol. 123, no. 21, p. 211801, 2019
- 74) R. Aaij *et al.*, “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,” *JHEP*, vol. 07, p. 032, 2019
- 75) R. Aaij *et al.*, “Measurement of CP -violating and mixing-induced observables in $B_s^0 \rightarrow \phi\gamma$ decays,” *Phys. Rev. Lett.*, vol. 123, no. 8, p. 081802, 2019
- 76) R. Aaij *et al.*, “A search for $cc^+ \rightarrow D^+ p K^- \pi^+$ decays,” *JHEP*, vol. 10, p. 124, 2019
- 77) R. Aaij *et al.*, “Measurement of charged hadron production in Z -tagged jets in proton-proton collisions at $\sqrt{s} = 8$ TeV,” *Phys. Rev. Lett.*, vol. 123, no. 23, p. 232001, 2019
- 78) R. Aaij *et al.*, “First Observation of the Radiative Decay $\Lambda_b^0 \rightarrow \Lambda\gamma$,” *Phys. Rev. Lett.*, vol. 123, no. 3, p. 031801, 2019
- 79) R. Aaij *et al.*, “Observation of a narrow pentaquark state, $P_c(4312)^+$, and of two-peak structure of the $P_c(4450)^+$,” *Phys. Rev. Lett.*, vol. 122, no. 22, p. 222001, 2019
- 80) R. Aaij *et al.*, “Observation of an excited B_c^+ state,” *Phys. Rev. Lett.*, vol. 122, no. 23, p. 232001, 2019
- 81) R. Aaij *et al.*, “Near-threshold DD spectroscopy and observation of a new charmonium state,” *JHEP*, vol. 07, p. 035, 2019
- 82) R. Aaij *et al.*, “Search for lepton-universality violation in $B^+ \rightarrow K^+ \ell^+ \ell^-$ decays,” *Phys. Rev. Lett.*, vol. 122, no. 19, p. 191801, 2019
- 83) R. Aaij *et al.*, “Observation of CP Violation in Charm Decays,” *Phys. Rev. Lett.*, vol. 122, no. 21, p. 211803, 2019
- 84) R. Aaij *et al.*, “Measurements of CP asymmetries in charmless four-body Λ_b^0 and Ξ_b^0 decays,” *Eur. Phys. J. C*, vol. 79, no. 9, p. 745, 2019
- 85) R. Aaij *et al.*, “Measurement of the CP -violating phase ϕ_s from $B_s^0 \rightarrow J/\psi \pi^+ \pi^-$ decays in 13 TeV pp collisions,” *Phys. Lett. B*, vol. 797, p. 134789, 2019
- 86) R. Aaij *et al.*, “Measurement of the mass difference between neutral charm-meson eigenstates,” *Phys. Rev. Lett.*, vol. 122, no. 23, p. 231802, 2019
- 87) R. Aaij *et al.*, “Search for CP violation in $D_s^+ \rightarrow K_S^0 \pi^+$, $D^+ \rightarrow K_S^0 K^+$ and $D^+ \rightarrow \phi \pi^+$ decays,” *Phys. Rev. Lett.*,

- vol. 122, no. 19, p. 191803, 2019
- 88) R. Aaij *et al.*, “Amplitude analysis of $B_s^0 \rightarrow K_S^0 K^\pm \pi^\mp$ decays,” *JHEP*, vol. 06, p. 114, 2019
- 89) R. Aaij *et al.*, “Measurement of b hadron fractions in 13 TeV pp collisions,” *Phys. Rev. D*, vol. 100, no. 3, p. 031102, 2019
- 90) R. Aaij *et al.*, “Dalitz plot analysis of the $D^+ \rightarrow K^- K^+ K^+$ decay,” *JHEP*, vol. 04, p. 063, 2019
- 91) R. Aaij *et al.*, “Observation of $B_{(s)}^0 \rightarrow J/\psi p \bar{p}$ decays and precision measurements of the $B_{(s)}$ masses,” *Phys. Rev. Lett.*, vol. 122, no. 19, p. 191804, 2019
- 92) R. Aaij *et al.*, “Measurement of B^+ , B^0 and Λ_b^0 production in p Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV,” *Phys. Rev. D*, vol. 99, no. 5, p. 052011, 2019
- 93) R. Aaij *et al.*, “Measurement of the ratio of branching fractions of the decays $\Lambda_b^0 \rightarrow \psi(2S)\Lambda$ and $\Lambda_b^0 \rightarrow J/\psi\Lambda$,” *JHEP*, vol. 03, p. 126, 2019
- 94) R. Aaij *et al.*, “Measurement of the mass and production rate of Ξ_b^- baryons,” *Phys. Rev. D*, vol. 99, no. 5, p. 052006, 2019
- 95) R. Aaij *et al.*, “Observation of the doubly Cabibbo-suppressed decay $\Xi_c^+ \rightarrow p\phi$,” *JHEP*, vol. 04, p. 084, 2019
- 96) R. Aaij *et al.*, “Model-Independent Observation of Exotic Contributions to $B^0 \rightarrow J/\psi K^+ \pi^-$ Decays,” *Phys. Rev. Lett.*, vol. 122, no. 15, p. 152002, 2019
- 97) R. Aaij *et al.*, “Measurement of the branching fraction and CP asymmetry in $B^+ \rightarrow J/\psi \rho^+$ decays,” *Eur. Phys. J. C*, vol. 79, no. 6, p. 537, 2019
- 98) R. Aaij *et al.*, “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,” *JHEP*, vol. 05, p. 026, 2019
- 99) R. Aaij *et al.*, “Search for the rare decay $B^+ \rightarrow \mu^+ \mu^- \mu^+ \nu_\mu$,” *Eur. Phys. J. C*, vol. 79, no. 8, p. 675, 2019
- 100) R. Aaij *et al.*, “Search for CP violation through an amplitude analysis of $D^0 \rightarrow K^+ K^- \pi^+ \pi^-$ decays,” *JHEP*, vol. 02, p. 126, 2019
- 101) R. Aaij *et al.*, “First Measurement of Charm Production in its Fixed-Target Configuration at the LHC,” *Phys. Rev. Lett.*, vol. 122, no. 13, p. 132002, 2019
- 102) R. Aaij *et al.*, “Study of Υ production in p Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV,” *JHEP*, vol. 11, p. 194, 2018. [Erratum: *JHEP* 02, 093 (2020)]
- 103) R. Aaij *et al.*, “Measurement of the Charm-Mixing Parameter y_{CP} ,” *Phys. Rev. Lett.*, vol. 122, no. 1, p. 011802, 2019
- 104) R. Aaij *et al.*, “Measurement of the branching fractions of the decays $D^+ \rightarrow K^- K^+ K^+$, $D^+ \rightarrow \pi^- \pi^+ K^+$ and $D_s^+ \rightarrow \pi^- K^+ K^+$,” *JHEP*, vol. 03, p. 176, 2019
- 105) R. Aaij *et al.*, “Observation of Two Resonances in the $\Lambda_b^0 \pi^\pm$ Systems and Precise Measurement of $\Sigma_b^{*\pm}$ and Σ_b^\pm properties,” *Phys. Rev. Lett.*, vol. 122, no. 1, p. 012001, 2019
- 106) R. Aaij *et al.*, “Evidence for an $\eta_c(1S)\pi^-$ resonance in $B^0 \rightarrow \eta_c(1S)K^+ \pi^-$ decays,” *Eur. Phys. J. C*, vol. 78, no. 12, p. 1019, 2018
- 107) R. Aaij *et al.*, “Prompt Λ_c^+ production in p Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV,” *JHEP*, vol. 02, p. 102, 2019
- 108) R. Aaij *et al.*, “Search for lepton-flavour-violating decays of Higgs-like bosons,” *Eur. Phys. J. C*, vol. 78, no. 12, p. 1008, 2018
- 109) R. Aaij *et al.*, “Measurement of Antiproton Production in pHe Collisions at $\sqrt{s_{NN}} = 110$ GeV,” *Phys. Rev. Lett.*, vol. 121, no. 22, p. 222001, 2018
- 110) R. Aaij *et al.*, “Angular moments of the decay $\Lambda_b^0 \rightarrow \Lambda \mu^+ \mu^-$ at low hadronic recoil,” *JHEP*, vol. 09, p. 146, 2018
- 111) R. Aaij *et al.*, “Measurement of the relative $B^- \rightarrow D^0/D^{*0}/D^{**0} \mu^- \bar{\nu}_\mu$ branching fractions using B^- mesons from \bar{B}_s^0 decays,” *Phys. Rev. D*, vol. 99, no. 9, p. 092009, 2019
- 112) R. Aaij *et al.*, “Search for CP violation in $\Lambda_b^0 \rightarrow pK^-$ and $\Lambda_b^0 \rightarrow p\pi^-$ decays,” *Phys. Lett. B*, vol. 787, pp. 124–133, 2018
- 113) R. Aaij *et al.*, “First Observation of the Doubly Charmed Baryon Decay $\Xi_{cc}^{++} \rightarrow \Xi_c^+ \pi^+$,” *Phys. Rev. Lett.*, vol. 121, no. 16, p. 162002, 2018
- 114) R. Aaij *et al.*, “Observation of $B_s^0 \rightarrow \bar{D}^{*0} \phi$ and search for $B^0 \rightarrow \bar{D}^0 \phi$ decays,” *Phys. Rev. D*, vol. 98, no. 7, p. 071103, 2018
- 115) R. Aaij *et al.*, “Observation of the decay $B_s^0 \rightarrow \bar{D}^0 K^+ K^-$,” *Phys. Rev. D*, vol. 98, no. 7, p. 072006, 2018
- 116) R. Aaij *et al.*, “Measurement of the Ω_c^0 baryon lifetime,” *Phys. Rev. Lett.*, vol. 121, no. 9, p. 092003, 2018
- 117) R. Aaij *et al.*, “Measurement of Angular and CP Asymmetries in $D^0 \rightarrow \pi^+ \pi^- \mu^+ \mu^-$ and $D^0 \rightarrow K^+ K^- \mu^+ \mu^-$ decays,” *Phys. Rev. Lett.*, vol. 121, no. 9, p. 091801, 2018
- 118) R. Aaij *et al.*, “Observation of the decay $\bar{B}_s^0 \rightarrow \chi_{c2} K^+ K^-$ in the ϕ mass region,” *JHEP*, vol. 08, p. 191, 2018
- 119) R. Aaij *et al.*, “Search for beautiful tetraquarks in the $\Upsilon(1S)\mu^+ \mu^-$ invariant-mass spectrum,” *JHEP*, vol. 10, p. 086, 2018
- 120) R. Aaij *et al.*, “Observation of the decay $\Lambda_b^0 \rightarrow \psi(2S)p\pi^-$,” *JHEP*, vol. 08, p. 131, 2018
- 121) R. Aaij *et al.*, “Measurement of $Z \rightarrow \tau^+ \tau^-$ production in proton-proton collisions at $\sqrt{s} = 8$ TeV,” *JHEP*, vol. 09, p. 159, 2018
- 122) R. Aaij *et al.*, “Central exclusive production of J/ψ and $\psi(2S)$ mesons in pp collisions at $\sqrt{s} = 13$ TeV,” *JHEP*, vol. 10, p. 167, 2018
- 123) R. Aaij *et al.*, “Measurement of the Lifetime of the Doubly Charmed Baryon Ξ_{cc}^{++} ,” *Phys. Rev. Lett.*, vol. 121, no. 5, p. 052002, 2018
- 124) R. Aaij *et al.*, “Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K_S^0 K_S^0$ decays,” *JHEP*, vol. 11, p. 048, 2018
- 125) R. Aaij *et al.*, “Physics case for an LHCb Upgrade II - Opportunities in flavour physics, and beyond, in the HL-LHC era,” 2016
- 126) R. Aaij *et al.*, “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,” *JHEP*, vol. 08, p. 176, 2018. [Erratum: *JHEP* 10, 107 (2018)]
- 127) R. Aaij *et al.*, “Search for a dimuon resonance in the Υ mass region,” *JHEP*, vol. 09, p. 147, 2018
- 128) R. Aaij *et al.*, “Measurement of D_s^\pm production asymmetry in pp collisions at $\sqrt{s} = 7$ and 8 TeV,” *JHEP*, vol. 08, p. 008, 2018
- 129) R. Aaij *et al.*, “Observation of a new Ξ_b^- resonance,” *Phys. Rev. Lett.*, vol. 121, no. 7, p. 072002, 2018
- 130) R. Aaij *et al.*, “Measurement of CP asymmetries in two-body $B_{(s)}^0$ -meson decays to charged pions and kaons,” *Phys. Rev. D*, vol. 98, no. 3, p. 032004, 2018
- 131) R. Aaij *et al.*, “Search for CP violation using triple product asymmetries in $\Lambda_b^0 \rightarrow pK^- \pi^+ \pi^-$, $\Lambda_b^0 \rightarrow pK^- K^+ K^-$ and $\Xi_b^0 \rightarrow pK^- K^- \pi^+$ decays,” *JHEP*, vol. 08, p. 039, 2018
- 132) R. Aaij *et al.*, “Measurement of CP violation in $B^0 \rightarrow D^\mp \pi^\pm$ decays,” *JHEP*, vol. 06, p. 084, 2018
- 133) R. Aaij *et al.*, “Observation of the decay $\Lambda_b^0 \rightarrow \Lambda_c^+ p \bar{p} \pi^-$,” *Phys. Lett. B*, vol. 784, pp. 101–111, 2018
- 134) R. Aaij *et al.*, “Measurement of Υ production in pp collisions at $\sqrt{s} = 13$ TeV,” *JHEP*, vol. 07, p. 134, 2018. [Erratum: *JHEP* 05, 076 (2019)]
- 135) R. Aaij *et al.*, “Evidence for the decay $B_S^0 \rightarrow \bar{K}^{*0} \mu^+ \mu^-$,” *JHEP*, vol. 07, p. 020, 2018
- 136) R. Aaij *et al.*, “Measurement of the CP asymmetry in $B^- \rightarrow D_s^- D^0$ and $B^- \rightarrow D^- D^0$ decays,” *JHEP*, vol. 05, p. 160, 2018

- 137) R. Aaij *et al.*, “Measurement of the inelastic pp cross-section at a centre-of-mass energy of 13 TeV,” *JHEP*, vol. 06, p. 100, 2018
- 138) R. Aaij *et al.*, “Measurement of forward top pair production in the dilepton channel in pp collisions at $\sqrt{s} = 13$ TeV,” *JHEP*, vol. 08, p. 174, 2018
- 139) R. Aaij *et al.*, “Amplitude analysis of the decay $\bar{B}^0 \rightarrow K_S^0 \pi^+ \pi^-$ and first observation of the CP asymmetry in $\bar{B}^0 \rightarrow K^*(892)^- \pi^+$,” *Phys. Rev. Lett.*, vol. 120, no. 26, p. 261801, 2018
- 140) R. Aaij *et al.*, “Evidence for the rare decay $\Sigma^+ \rightarrow p \mu^+ \mu^-$,” *Phys. Rev. Lett.*, vol. 120, no. 22, p. 221803, 2018
- 141) R. Aaij *et al.*, “First measurement of the CP-violating phase $\phi_s^{\bar{d}}$ in $B_s^0 \rightarrow (K^+ \pi^-)(K^- \pi^+)$ decays,” *JHEP*, vol. 03, p. 140, 2018
- 142) R. Aaij *et al.*, “Studies of the resonance structure in $D^0 \rightarrow K^\mp \pi^\pm \pi^\pm \pi^\mp$ decays,” *Eur. Phys. J. C*, vol. 78, no. 6, p. 443, 2018
- 143) R. Aaij *et al.*, “Search for the rare decay $\Lambda_c^+ \rightarrow p \mu^+ \mu^-$,” *Phys. Rev. D*, vol. 97, no. 9, p. 091101, 2018
- 144) R. Aaij *et al.*, “Search for weakly decaying b-flavored pentaquarks,” *Phys. Rev. D*, vol. 97, no. 3, p. 032010, 2018
- 145) R. Aaij *et al.*, “Measurement of CP asymmetry in $B_s^0 \rightarrow D_s^\mp K^\pm$ decays,” *JHEP*, vol. 03, p. 059, 2018
- 146) R. Aaij *et al.*, “A measurement of the CP asymmetry difference in $\bar{c} \rightarrow p K^- K^+$ and $p \pi^- \pi^+$ decays,” *JHEP*, vol. 03, p. 182, 2018
- 147) R. Aaij *et al.*, “Search for B_c^+ decays to two charm mesons,” *Nucl. Phys. B*, vol. 930, pp. 563–582, 2018
- 148) R. Aaij *et al.*, “Search for excited B_c^+ states,” *JHEP*, vol. 01, p. 138, 2018
- 149) R. Aaij *et al.*, “Updated determination of D^0 - \bar{D}^0 mixing and CP violation parameters with $D^0 \rightarrow K^+ \pi^-$ decays,” *Phys. Rev. D*, vol. 97, no. 3, p. 031101, 2018
- 150) R. Aaij *et al.*, “Measurement of branching fractions of charmless four-body Λ_b^0 and Ξ_b^0 decays,” *JHEP*, vol. 02, p. 098, 2018
- 151) R. Aaij *et al.*, “Measurement of the ratio of branching fractions $\mathcal{B}(B_c^+ \rightarrow J/\psi \tau^+ \nu_\tau)/\mathcal{B}(B_c^+ \rightarrow J/\psi \mu^+ \nu_\mu)$,” *Phys. Rev. Lett.*, vol. 120, no. 12, p. 121801, 2018
- 152) R. Aaij *et al.*, “First observation of $B^+ \rightarrow D_s^+ K^+ K^-$ decays and a search for $B^+ \rightarrow D_s^+ \phi$ decays,” *JHEP*, vol. 01, p. 131, 2018
- 153) R. Aaij *et al.*, “Test of Lepton Flavor Universality by the measurement of the $B^0 \rightarrow D^{*-} \tau^+ \nu_\tau$ branching fraction using three-prong τ decays,” *Phys. Rev. D*, vol. 97, no. 7, p. 072013, 2018
- 154) R. Aaij *et al.*, “Measurements of the branching fractions of $\Lambda_c^+ \rightarrow p \pi^- \pi^+$, $\Lambda_c^+ \rightarrow p K^- K^+$, and $\Lambda_c^+ \rightarrow p \pi^- K^+$,” *JHEP*, vol. 03, p. 043, 2018
- 155) R. Aaij *et al.*, “Measurement of the B^\pm production cross-section in pp collisions at $\sqrt{s} = 7$ and 13 TeV,” *JHEP*, vol. 12, p. 026, 2017
- 156) R. Aaij *et al.*, “Search for the lepton-flavour violating decays $B_{(s)}^0 \rightarrow e^\pm \mu^\mp$,” *JHEP*, vol. 03, p. 078, 2018
- 157) R. Aaij *et al.*, “Search for Dark Photons Produced in 13 TeV pp Collisions,” *Phys. Rev. Lett.*, vol. 120, no. 6, p. 061801, 2018
- 158) R. Aaij *et al.*, “Measurement of CP observables in $B^\pm \rightarrow DK^{*\pm}$ decays using two- and four-body D final states,” *JHEP*, vol. 11, p. 156, 2017. [Erratum: *JHEP* 05, 067 (2018)]
- 159) R. Aaij *et al.*, “ χ_{c1} and χ_{c2} Resonance Parameters with the Decays $\chi_{c1,c2} \rightarrow J/\psi \mu^+ \mu^-$,” *Phys. Rev. Lett.*, vol. 119, no. 22, p. 221801, 2017
- 160) R. Aaij *et al.*, “Measurement of CP violation in $B^0 \rightarrow J/\psi K_S^0$ and $B^0 \rightarrow \psi(2S) K_S^0$ decays,” *JHEP*, vol. 11, p. 170, 2017
- 161) R. Aaij *et al.*, “First observation of forward $Z \rightarrow b\bar{b}$ production in pp collisions at $\sqrt{s} = 8$ TeV,” *Phys. Lett. B*, vol. 776, pp. 430–439, 2018
- 162) R. Aaij *et al.*, “Bose-Einstein correlations of same-sign charged pions in the forward region in pp collisions at $\sqrt{s} = 7$ TeV,” *JHEP*, vol. 12, p. 025, 2017
- 163) R. Aaij *et al.*, “Measurement of the shape of the $\Lambda_b^0 \rightarrow \Lambda_c^+ \mu^- \bar{\nu}_\mu$ differential decay rate,” *Phys. Rev. D*, vol. 96, no. 11, p. 112005, 2017
- 164) R. Aaij *et al.*, “Measurement of the Υ polarizations in pp collisions at $\sqrt{s} = 7$ and 8 TeV,” *JHEP*, vol. 12, p. 110, 2017
- 165) R. Aaij *et al.*, “First Observation of the Rare Purely Baryonic Decay $B^0 \rightarrow p \bar{p}$,” *Phys. Rev. Lett.*, vol. 119, no. 23, p. 232001, 2017
- 166) R. Aaij *et al.*, “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,” *Phys. Rev. Lett.*, vol. 120, no. 17, p. 171802, 2018
- 167) R. Aaij *et al.*, “Measurement of CP observables in $B^\pm \rightarrow D^{(*)} K^\pm$ and $B^\pm \rightarrow D^{(*)} \pi^\pm$ decays,” *Phys. Lett. B*, vol. 777, pp. 16–30, 2018
- 168) R. Aaij *et al.*, “Study of $b\bar{b}$ correlations in high energy proton-proton collisions,” *JHEP*, vol. 11, p. 030, 2017
- 169) R. Aaij *et al.*, “Search for Baryon-Number Violating Λ_b^0 Oscillations,” *Phys. Rev. Lett.*, vol. 119, no. 18, p. 181807, 2017
- 170) R. Aaij *et al.*, “Observation of D^0 meson decays to $\pi^+ \pi^- \mu^+ \mu^-$ and $K^+ K^- \mu^+ \mu^-$ final states,” *Phys. Rev. Lett.*, vol. 119, no. 18, p. 181805, 2017
- 171) R. Aaij *et al.*, “Study of prompt D^0 meson production in pPb collisions at $\sqrt{s_{NN}} = 5$ TeV,” *JHEP*, vol. 10, p. 090, 2017
- 172) R. Aaij *et al.*, “Updated branching fraction measurements of $B_{(s)}^0 \rightarrow K_S^0 h^+ h'^-$ decays,” *JHEP*, vol. 11, p. 027, 2017
- 173) R. Aaij *et al.*, “Observation of the doubly charmed baryon Ξ_{cc}^{++} ,” *Phys. Rev. Lett.*, vol. 119, no. 11, p. 112001, 2017
- 174) R. Aaij *et al.*, “Study of charmonium production in b -hadron decays and first evidence for the decay $B_s^0 \rightarrow \phi \phi \phi$,” *Eur. Phys. J. C*, vol. 77, no. 9, p. 609, 2017
- 175) R. Aaij *et al.*, “Prompt and nonprompt J/ψ production and nuclear modification in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV,” *Phys. Lett. B*, vol. 774, pp. 159–178, 2017
- 176) R. Aaij *et al.*, “Improved limit on the branching fraction of the rare decay $K_S^0 \rightarrow \mu^+ \mu^-$,” *Eur. Phys. J. C*, vol. 77, no. 10, p. 678, 2017
- 177) R. Aaij *et al.*, “Updated search for long-lived particles decaying to jet pairs,” *Eur. Phys. J. C*, vol. 77, no. 12, p. 812, 2017
- 178) R. Aaij *et al.*, “Test of lepton universality with $B^0 \rightarrow K^{*0} \ell^+ \ell^-$ decays,” *JHEP*, vol. 08, p. 055, 2017
- 179) R. Aaij *et al.*, “Measurement of B_s^0 and D_s^- meson lifetimes,” *Phys. Rev. Lett.*, vol. 119, no. 10, p. 101801, 2017
- 180) R. Aaij *et al.*, “Observation of charmless baryonic decays $B_{(s)}^0 \rightarrow p \bar{p} h^+ h'^-$,” *Phys. Rev. D*, vol. 96, no. 5, p. 051103, 2017
- 181) R. Aaij *et al.*, “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 $\phi(1020)$,” *JHEP*, vol. 08, p. 037, 2017
- 182) R. Aaij *et al.*, “Observation of the $B^+ \rightarrow D^{*-} K^+ \pi^+$ decay,” *Phys. Rev. D*, vol. 96, no. 1, p. 011101, 2017
- 183) R. Aaij *et al.*, “Observation of the decays $\Lambda_b^0 \rightarrow \chi_{c1} p K^-$ and $\Lambda_b^0 \rightarrow \chi_{c2} p K^-$,” *Phys. Rev. Lett.*, vol. 119, no. 6, p. 062001, 2017
- 184) R. Aaij *et al.*, “First observation of a baryonic B_s^0 decay,” *Phys. Rev. Lett.*, vol. 119, no. 4, p. 041802, 2017
- 185) R. Aaij *et al.*, “Measurement of B^0 , B_s^0 , B^+ and Λ_b^0 production asymmetries in 7 and 8 TeV proton-proton collisions,” *Phys. Lett. B*, vol. 774, pp. 139–158, 2017

- 186) R. Aaij *et al.*, “Measurement of the $B_s^0 \rightarrow \mu^+\mu^-$ branching fraction and effective lifetime and search for $B^0 \rightarrow \mu^+\mu^-$ decays,” *Phys. Rev. Lett.*, vol. 118, no. 19, p. 191801, 2017
- 187) R. Aaij *et al.*, “Observation of five new narrow Ω_c^0 states decaying to $\Xi_c^+K^-$,” *Phys. Rev. Lett.*, vol. 118, no. 18, p. 182001, 2017
- 188) R. Aaij *et al.*, “Search for the decays $B_s^0 \rightarrow \tau^+\tau^-$ and $B^0 \rightarrow \tau^+\tau^-$,” *Phys. Rev. Lett.*, vol. 118, no. 25, p. 251802, 2017
- 189) R. Aaij *et al.*, “Observation of the decay $\Lambda_b^0 \rightarrow pK^-\mu^+\mu^-$ and a search for CP violation,” *JHEP*, vol. 06, p. 108, 2017
- 190) R. Aaij *et al.*, “Observation of the decay $B_s^0 \rightarrow \eta_c\phi$ and evidence for $B_s^0 \rightarrow \eta_c\pi^+\pi^-$,” *JHEP*, vol. 07, p. 021, 2017
- 191) R. Aaij *et al.*, “Measurement of the CP violation parameter A_Γ in $D^0 \rightarrow K^+K^-$ and $D^0 \rightarrow \pi^+\pi^-$ decays,” *Phys. Rev. Lett.*, vol. 118, no. 26, p. 261803, 2017
- 192) R. Aaij *et al.*, “Observation of the suppressed decay $\Lambda_b^0 \rightarrow p\pi^-\mu^+\mu^-$,” *JHEP*, vol. 04, p. 029, 2017
- 193) R. Aaij *et al.*, “Study of the D^0p amplitude in $\Lambda_b^0 \rightarrow D^0p\pi^-$ decays,” *JHEP*, vol. 05, p. 030, 2017
- 194) R. Aaij *et al.*, “Measurement of the B^\pm production asymmetry and the CP asymmetry in $B^\pm \rightarrow J/\psi K^\pm$ decays,” *Phys. Rev. D*, vol. 95, no. 5, p. 052005, 2017
- 195) R. Aaij *et al.*, “Observation of the $\bar{b} \rightarrow J/\psi K^-$ decay,” *Phys. Lett. B*, vol. 772, pp. 265–273, 2017
- 196) R. Aaij *et al.*, “Study of J/ψ Production in Jets,” *Phys. Rev. Lett.*, vol. 118, no. 19, p. 192001, 2017
- 197) R. Aaij *et al.*, “Measurement of CP asymmetries in $D^\pm \rightarrow \eta'\pi^\pm$ and $D_s^\pm \rightarrow \eta'\pi^\pm$ decays,” *Phys. Lett. B*, vol. 771, pp. 21–30, 2017
- 198) R. Aaij *et al.*, “Observation of $B_c^+ \rightarrow D^0K^+$ decays,” *Phys. Rev. Lett.*, vol. 118, no. 11, p. 111803, 2017
- 199) R. Aaij *et al.*, “Search for the $B_s^0 \rightarrow \eta'\phi$ decay,” *JHEP*, vol. 05, p. 158, 2017
- 200) R. Aaij *et al.*, “Measurement of the J/ψ pair production cross-section in pp collisions at $\sqrt{s} = 13$ TeV,” *JHEP*, vol. 06, p. 047, 2017. [Erratum: *JHEP* 10, 068 (2017)]
- 201) R. Aaij *et al.*, “Observation of $B_c^+ \rightarrow J/\psi D^{(*)}K^{(*)}$ decays,” *Phys. Rev. D*, vol. 95, no. 3, p. 032005, 2017
- 202) R. Aaij *et al.*, “Measurement of the phase difference between short- and long-distance amplitudes in the $B^+ \rightarrow K^+\mu^+\mu^-$ decay,” *Eur. Phys. J. C*, vol. 77, no. 3, p. 161, 2017
- 203) R. Aaij *et al.*, “Measurement of the ratio of branching fractions and difference in CP asymmetries of the decays $B^+ \rightarrow J/\psi\pi^+$ and $B^+ \rightarrow J/\psi K^+$,” *JHEP*, vol. 03, p. 036, 2017
- 204) R. Aaij *et al.*, “Measurement of the b -quark production cross-section in 7 and 13 TeV pp collisions,” *Phys. Rev. Lett.*, vol. 118, no. 5, p. 052002, 2017. [Erratum: *Phys.Rev.Lett.* 119, 169901 (2017)]
- 205) R. Aaij *et al.*, “Search for CP violation in the phase space of $D^0 \rightarrow \pi^+\pi^-\pi^+\pi^-$ decays,” *Phys. Lett. B*, vol. 769, pp. 345–356, 2017
- 206) R. Aaij *et al.*, “Observation of the decay $\Xi_b^- \rightarrow pK^-K^-$,” *Phys. Rev. Lett.*, vol. 118, no. 7, p. 071801, 2017
- 207) R. Aaij *et al.*, “Search for massive long-lived particles decaying semileptonically in the LHCb detector,” *Eur. Phys. J. C*, vol. 77, no. 4, p. 224, 2017
- 208) R. Aaij *et al.*, “Evidence for the two-body charmless baryonic decay $B^+ \rightarrow p$,” *JHEP*, vol. 04, p. 162, 2017
- 209) R. Aaij *et al.*, “Search for decays of neutral beauty mesons into four muons,” *JHEP*, vol. 03, p. 001, 2017
- 210) R. Aaij *et al.*, “Measurements of charm mixing and CP violation using $D^0 \rightarrow K^\pm\pi^\mp$ decays,” *Phys. Rev. D*, vol. 95, no. 5, p. 052004, 2017. [Erratum: *Phys.Rev.D* 96, 099907 (2017)]
- 211) R. Aaij *et al.*, “Measurement of the CKM angle γ from a combination of LHCb results,” *JHEP*, vol. 12, p. 087, 2016
- 212) R. Aaij *et al.*, “Measurement of CP asymmetry in $D^0 \rightarrow K^-K^+$ decays,” *Phys. Lett. B*, vol. 767, pp. 177–187, 2017
- 213) R. Aaij *et al.*, “Observation of the annihilation decay mode $B^0 \rightarrow K^+K^-$,” *Phys. Rev. Lett.*, vol. 118, no. 8, p. 081801, 2017
- 214) R. Aaij *et al.*, “Measurement of forward $t\bar{t}$, $W + b\bar{b}$ and $W + c\bar{c}$ production in pp collisions at $\sqrt{s} = 8$ TeV,” *Phys. Lett. B*, vol. 767, pp. 110–120, 2017
- 215) R. Aaij *et al.*, “New algorithms for identifying the flavour of B^0 mesons using pions and protons,” *Eur. Phys. J. C*, vol. 77, no. 4, p. 238, 2017
- 216) R. Aaij *et al.*, “Observation of the decay $B_s^0 \rightarrow \phi\pi^+\pi^-$ and evidence for $B^0 \rightarrow \phi\pi^+\pi^-$,” *Phys. Rev. D*, vol. 95, no. 1, p. 012006, 2017
- 217) R. Aaij *et al.*, “Search for the CP -violating strong decays $\eta \rightarrow \pi^+\pi^-$ and $\eta'(958) \rightarrow \pi^+\pi^-$,” *Phys. Lett. B*, vol. 764, pp. 233–240, 2017
- 218) R. Aaij *et al.*, “Measurements of prompt charm production cross-sections in pp collisions at $\sqrt{s} = 5$ TeV,” *JHEP*, vol. 06, p. 147, 2017
- 219) R. Aaij *et al.*, “Observation of $B^+ \rightarrow J/\psi 3\pi^+2\pi^-$ and $B^+ \rightarrow \psi(2S)\pi^+\pi^+\pi^-$ decays,” *Eur. Phys. J. C*, vol. 77, no. 2, p. 72, 2017
- 220) R. Aaij *et al.*, “Measurement of matter-antimatter differences in beauty baryon decays,” *Nature Phys.*, vol. 13, pp. 391–396, 2017
- 221) R. Aaij *et al.*, “Differential branching fraction and angular moments analysis of the decay $B^0 \rightarrow K^+\pi^-\mu^+\mu^-$ in the $K_{S,2}^0(1430)^0$ region,” *JHEP*, vol. 12, p. 065, 2016
- 222) R. Aaij *et al.*, “Search for Higgs-like bosons decaying into long-lived exotic particles,” *Eur. Phys. J. C*, vol. 76, no. 12, p. 664, 2016
- 223) R. Aaij *et al.*, “First experimental study of photon polarization in radiative B_s^0 decays,” *Phys. Rev. Lett.*, vol. 118, no. 2, p. 021801, 2017. [Addendum: *Phys.Rev.Lett.* 118, 109901 (2017)]
- 224) R. Aaij *et al.*, “Measurement of CP violation in $B^0 \rightarrow D^+D^-$ decays,” *Phys. Rev. Lett.*, vol. 117, no. 26, p. 261801, 2016
- 225) R. Aaij *et al.*, “First study of the CP -violating phase and decay-width difference in $B_s^0 \rightarrow \psi(2S)\phi$ decays,” *Phys. Lett. B*, vol. 762, pp. 253–262, 2016
- 226) R. Aaij *et al.*, “Search for the suppressed decays $B^+ \rightarrow K^+K^+\pi^-$ and $B^+ \rightarrow \pi^+\pi^+K^-$,” *Phys. Lett. B*, vol. 765, pp. 307–316, 2017
- 227) R. Aaij *et al.*, “Measurement of the CKM angle γ using $B^0 \rightarrow DK^{*0}$ with $D \rightarrow K_S^0\pi^+\pi^-$ decays,” *JHEP*, vol. 08, p. 137, 2016
- 228) R. Aaij *et al.*, “Measurement of forward W and Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 8$ TeV,” *JHEP*, vol. 05, p. 131, 2016
- 229) R. Aaij *et al.*, “Measurement of forward $W \rightarrow e\nu$ production in pp collisions at $\sqrt{s} = 8$ TeV,” *JHEP*, vol. 10, p. 030, 2016
- 230) R. Aaij *et al.*, “Amplitude analysis of $B^- \rightarrow D^+\pi^-\pi^-$ decays,” *Phys. Rev. D*, vol. 94, no. 7, p. 072001, 2016
- 231) R. Aaij *et al.*, “Search for Structure in the $B_s^0\pi^\pm$ Invariant Mass Spectrum,” *Phys. Rev. Lett.*, vol. 117, no. 15, p. 152003, 2016. [Addendum: *Phys.Rev.Lett.* 118, 109904 (2017)]
- 232) R. Aaij *et al.*, “Measurement of the ratio of branching fractions $\mathcal{B}(B_c^+ \rightarrow J/\psi K^+)/\mathcal{B}(B_c^+ \rightarrow J/\psi\pi^+)$,” *JHEP*, vol. 09, p. 153, 2016
- 233) R. Aaij *et al.*, “Measurement of the $B_s^0 \rightarrow J/\psi\eta$ lifetime,” *Phys. Lett. B*, vol. 762, pp. 484–492, 2016
- 234) R. Aaij *et al.*, “Observation of $\eta_c(2S) \rightarrow p\bar{p}$ and search for $X(3872) \rightarrow p\bar{p}$ decays,” *Phys. Lett. B*, vol. 769, pp. 305–313, 2017

- 235) R. Aaij *et al.*, “Measurement of the forward Z boson production cross-section in pp collisions at $\sqrt{s} = 13$ TeV,” *JHEP*, vol. 09, p. 136, 2016
- 236) R. Aaij *et al.*, “Study of B_c^+ decays to the $K^+K^-\pi^+$ final state and evidence for the decay $B_c^+ \rightarrow \chi_{c0}\pi^+$,” *Phys. Rev. D*, vol. 94, no. 9, p. 091102, 2016
- 237) R. Aaij *et al.*, “Observation of $J/\psi\phi$ structures consistent with exotic states from amplitude analysis of $B^+ \rightarrow J/\psi\phi K^+$ decays,” *Phys. Rev. Lett.*, vol. 118, no. 2, p. 022003, 2017
- 238) R. Aaij *et al.*, “Amplitude analysis of $B^+ \rightarrow J/\psi\phi K^+$ decays,” *Phys. Rev. D*, vol. 95, no. 1, p. 012002, 2017
- 239) R. Aaij *et al.*, “Evidence for exotic hadron contributions to $\Lambda_b^0 \rightarrow J/\psi p \pi^-$ decays,” *Phys. Rev. Lett.*, vol. 117, no. 8, p. 082003, 2016. [Addendum: *Phys. Rev. Lett.* 117, 109902 (2016), Addendum: *Phys. Rev. Lett.* 118, 119901 (2017)]
- 240) R. Aaij *et al.*, “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,” *JHEP*, vol. 11, p. 047, 2016. [Erratum: *JHEP* 04, 142 (2017)]
- 241) R. Aaij *et al.*, “Measurement of the CP asymmetry in $B_s^0 - \bar{B}_s^0$ mixing,” *Phys. Rev. Lett.*, vol. 117, no. 6, p. 061803, 2016. [Addendum: *Phys. Rev. Lett.* 118, 129903 (2017)]
- 242) R. Aaij *et al.*, “Model-independent evidence for $J/\psi p$ contributions to $\Lambda_b^0 \rightarrow J/\psi p K^-$ decays,” *Phys. Rev. Lett.*, vol. 117, no. 8, p. 082002, 2016
- 243) R. Aaij *et al.*, “Measurement of the properties of the $\Xi_b^{\pm 0}$ baryon,” *JHEP*, vol. 05, p. 161, 2016
- 244) R. Aaij *et al.*, “A precise measurement of the B^0 meson oscillation frequency,” *Eur. Phys. J. C*, vol. 76, no. 7, p. 412, 2016
- 245) R. Aaij *et al.*, “Model-independent measurement of the CKM angle γ using $B^0 \rightarrow DK^{*0}$ decays with $D \rightarrow K_S^0\pi^+\pi^-$ and $K_S^0K^+K^-$,” *JHEP*, vol. 06, p. 131, 2016
- 246) R. Aaij *et al.*, “Measurement of the mass and lifetime of the Ω_b^- baryon,” *Phys. Rev. D*, vol. 93, no. 9, p. 092007, 2016
- 247) R. Aaij *et al.*, “Measurement of CP observables in $B^{\pm} \rightarrow DK^{\pm}$ and $B^{\pm} \rightarrow D\pi^{\pm}$ with two- and four-body D decays,” *Phys. Lett. B*, vol. 760, pp. 117–131, 2016
- 248) R. Aaij *et al.*, “Search for B_c^+ decays to the $p\bar{p}\pi^+$ final state,” *Phys. Lett. B*, vol. 759, pp. 313–321, 2016
- 249) R. Aaij *et al.*, “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,” *JHEP*, vol. 05, p. 132, 2016
- 250) R. Aaij *et al.*, “Search for violations of Lorentz invariance and CPT symmetry in $B_{(s)}^0$ mixing,” *Phys. Rev. Lett.*, vol. 116, no. 24, p. 241601, 2016
- 251) R. Aaij *et al.*, “Observation of the $\Lambda_b^0 \rightarrow \Lambda\phi$ decay,” *Phys. Lett. B*, vol. 759, pp. 282–292, 2016
- 252) R. Aaij *et al.*, “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,” *Phys. Rev. Lett.*, vol. 116, no. 16, p. 161802, 2016
- 253) R. Aaij *et al.*, “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,” *JHEP*, vol. 05, p. 081, 2016
- 254) R. Aaij *et al.*, “Measurement of the $B_s^0 \rightarrow D_s^{(*)+} D_s^{(*)-}$ branching fractions,” *Phys. Rev. D*, vol. 93, no. 9, p. 092008, 2016
- 255) R. Aaij *et al.*, “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,” *Phys. Rev. Lett.*, vol. 116, no. 24, p. 241801, 2016
- 256) R. Aaij *et al.*, “A new algorithm for identifying the flavour of B_s^0 mesons at LHCb,” *JINST*, vol. 11, no. 05, p. P05010, 2016
- 257) R. Aaij *et al.*, “Constraints on the unitarity triangle angle γ from Dalitz plot analysis of $B^0 \rightarrow DK^+\pi^-$ decays,” *Phys. Rev. D*, vol. 93, no. 11, p. 112018, 2016. [Erratum: *Phys. Rev. D* 94, 079902 (2016)]
- 258) R. Aaij *et al.*, “Measurement of the difference of time-integrated CP asymmetries in $D^0 \rightarrow K^-K^+$ and $D^0 \rightarrow \pi^-\pi^+$ decays,” *Phys. Rev. Lett.*, vol. 116, no. 19, p. 191601, 2016
- 259) R. Aaij *et al.*, “Study of $\psi(2S)$ production and cold nuclear matter effects in pPb collisions at $\sqrt{s_{NN}} = 5$ TeV,” *JHEP*, vol. 03, p. 133, 2016
- 260) R. Aaij *et al.*, “Observation of the $B_s^0 \rightarrow J/\psi\phi\phi$ decay,” *JHEP*, vol. 03, p. 040, 2016
- 261) R. Aaij *et al.*, “Study of $D_{sJ}^{(*)+}$ mesons decaying to $D^{*+} K_S^0$ and $D^{*0} K^+$ final states,” *JHEP*, vol. 02, p. 133, 2016
- 262) R. Aaij *et al.*, “Angular analysis of the $B^0 \rightarrow K^{*0}\mu^+\mu^-$ decay using 3 fb^{-1} of integrated luminosity,” *JHEP*, vol. 02, p. 104, 2016
- 263) R. Aaij *et al.*, “First observation of the rare $B^+ \rightarrow D^+K^+\pi^-$ decay,” *Phys. Rev. D*, vol. 93, no. 5, p. 051101, 2016. [Erratum: *Phys. Rev. D* 93, 119902 (2016)]
- 264) R. Aaij *et al.*, “Search for the lepton-flavour violating decay $D^0 \rightarrow e^{\pm}\mu^{\mp}$,” *Phys. Lett. B*, vol. 754, pp. 167–175, 2016
- 265) R. Aaij *et al.*, “Measurements of long-range near-side angular correlations in $\sqrt{s_{NN}} = 5$ TeV proton-lead collisions in the forward region,” *Phys. Lett. B*, vol. 762, pp. 473–483, 2016
- 266) R. Aaij *et al.*, “Measurement of forward W and Z boson production in pp collisions at $\sqrt{s} = 8$ TeV,” *JHEP*, vol. 01, p. 155, 2016
- 267) R. Aaij *et al.*, “First observation of the decay $D^0 \rightarrow K^-\pi^+\mu^+\mu^-$ in the ρ^0 - ω region of the dimuon mass spectrum,” *Phys. Lett. B*, vol. 757, pp. 558–567, 2016
- 268) R. Aaij *et al.*, “Production of associated Y and open charm hadrons in pp collisions at $\sqrt{s} = 7$ and 8 TeV via double parton scattering,” *JHEP*, vol. 07, p. 052, 2016
- 269) R. Aaij *et al.*, “Search for the rare decays $B^0 \rightarrow J/\psi\gamma$ and $B_s^0 \rightarrow J/\psi\gamma$,” *Phys. Rev. D*, vol. 92, no. 11, p. 112002, 2015
- 270) R. Aaij *et al.*, “Evidence for the strangeness-changing weak decay $\Xi_b^- \rightarrow \Lambda_b^0\pi^-$,” *Phys. Rev. Lett.*, vol. 115, no. 24, p. 241801, 2015
- 271) R. Aaij *et al.*, “Model-independent confirmation of the $Z(4430)^-$ state,” *Phys. Rev. D*, vol. 92, no. 11, p. 112009, 2015
- 272) R. Aaij *et al.*, “Model-independent measurement of mixing parameters in $D^0 \rightarrow K_S^0\pi^+\pi^-$ decays,” *JHEP*, vol. 04, p. 033, 2016
- 273) R. Aaij *et al.*, “Measurements of prompt charm production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV,” *JHEP*, vol. 03, p. 159, 2016. [Erratum: *JHEP* 09, 013 (2016), Erratum: *JHEP* 05, 074 (2017)]
- 274) R. Aaij *et al.*, “Measurement of the forward-backward asymmetry in $Z/\gamma^* \rightarrow \mu^+\mu^-$ decays and determination of the effective weak mixing angle,” *JHEP*, vol. 11, p. 190, 2015
- 275) R. Aaij *et al.*, “Studies of the resonance structure in $D^0 \rightarrow K_S^0 K^{\pm}\pi^{\mp}$ decays,” *Phys. Rev. D*, vol. 93, no. 5, p. 052018, 2016
- 276) R. Aaij *et al.*, “Forward production of Υ mesons in pp collisions at $\sqrt{s} = 7$ and 8 TeV,” *JHEP*, vol. 11, p. 103, 2015
- 277) R. Aaij *et al.*, “Measurement of forward J/ψ production cross-sections in pp collisions at $\sqrt{s} = 13$ TeV,” *JHEP*, vol. 10, p. 172, 2015. [Erratum: *JHEP* 05, 063 (2017)]
- 278) R. Aaij *et al.*, “Measurement of CP violation parameters and polarisation fractions in $B_s^0 \rightarrow J/\psi\bar{K}^{*0}$ decays,” *JHEP*, vol. 11, p. 082, 2015
- 279) R. Aaij *et al.*, “Study of the production of Λ_b^0 and \bar{B}^0 hadrons in pp collisions and first measurement of the

- $\Lambda_b^0 \rightarrow J/\psi p K^-$ branching fraction,” *Chin. Phys. C*, vol. 40, no. 1, p. 011001, 2016
- 280) R. Aaij *et al.*, “First measurement of the differential branching fraction and CP asymmetry of the $B^\pm \rightarrow \pi^\pm \mu^+ \mu^-$ decay,” *JHEP*, vol. 10, p. 034, 2015
- 281) R. Aaij *et al.*, “Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K_S^0 K_S^0$ decays,” *JHEP*, vol. 10, p. 055, 2015
- 282) R. Aaij *et al.*, “Search for hidden-sector bosons in $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ decays,” *Phys. Rev. Lett.*, vol. 115, no. 16, p. 161802, 2015
- 283) R. Aaij *et al.*, “Measurement of the $B_s^0 \rightarrow \phi \phi$ branching fraction and search for the decay $B^0 \rightarrow \phi \phi$,” *JHEP*, vol. 10, p. 053, 2015
- 284) R. Aaij *et al.*, “ B flavour tagging using charm decays at the LHCb experiment,” *JINST*, vol. 10, no. 10, p. P10005, 2015
- 285) R. Aaij *et al.*, “Measurement of the branching fraction ratio $\mathcal{B}(B_c^+ \rightarrow \psi(2S)\pi^+)/\mathcal{B}(B_c^+ \rightarrow J/\psi\pi^+)$,” *Phys. Rev. D*, vol. 92, no. 7, p. 072007, 2015
- 286) R. Aaij *et al.*, “Observation of $J/\psi p$ Resonances Consistent with Pentaquark States in $\Lambda_b^0 \rightarrow J/\psi K^- p$ Decays,” *Phys. Rev. Lett.*, vol. 115, p. 072001, 2015
- 287) R. Aaij *et al.*, “First observation of the decay $B_s^0 \rightarrow K_S^0 K^*(892)^0$ at LHCb,” *JHEP*, vol. 01, p. 012, 2016
- 288) R. Aaij *et al.*, “Search for long-lived heavy charged particles using a ring imaging Cherenkov technique at LHCb,” *Eur. Phys. J. C*, vol. 75, no. 12, p. 595, 2015
- 289) R. Aaij *et al.*, “Angular analysis and differential branching fraction of the decay $B_s^0 \rightarrow \phi \mu^+ \mu^-$,” *JHEP*, vol. 09, p. 179, 2015
- 290) R. Aaij *et al.*, “Measurement of the ratio of branching fractions $\mathcal{B}(\bar{B}^0 \rightarrow D^{*+} \tau^- \bar{\nu}_\tau)/\mathcal{B}(\bar{B}^0 \rightarrow D^{*+} \mu^- \bar{\nu}_\mu)$,” *Phys. Rev. Lett.*, vol. 115, no. 11, p. 111803, 2015. [Erratum: *Phys.Rev.Lett.* 115, 159901 (2015)]
- 291) R. Aaij *et al.*, “First observation of top quark production in the forward region,” *Phys. Rev. Lett.*, vol. 115, no. 11, p. 112001, 2015
- 292) R. Aaij *et al.*, “Measurement of the exclusive Υ production cross-section in pp collisions at $\sqrt{s} = 7$ TeV and 8 TeV,” *JHEP*, vol. 09, p. 084, 2015
- 293) R. Aaij *et al.*, “Measurement of the forward Z boson production cross-section in pp collisions at $\sqrt{s} = 7$ TeV,” *JHEP*, vol. 08, p. 039, 2015
- 294) R. Aaij *et al.*, “Study of $B^- \rightarrow DK^- \pi^+ \pi^-$ and $B^- \rightarrow D\pi^- \pi^+ \pi^-$ decays and determination of the CKM angle γ ,” *Phys. Rev. D*, vol. 92, no. 11, p. 112005, 2015
- 295) R. Aaij *et al.*, “Study of W boson production in association with beauty and charm,” *Phys. Rev. D*, vol. 92, no. 5, p. 052001, 2015
- 296) R. Aaij *et al.*, “Search for the $\Lambda_b^0 \rightarrow \Lambda \eta'$ and $\Lambda_b^0 \rightarrow \Lambda \eta$ decays with the LHCb detector,” *JHEP*, vol. 09, p. 006, 2015
- 297) R. Aaij *et al.*, “Search for the decay $B_s^0 \rightarrow \bar{D}^0 f_0(980)$,” *JHEP*, vol. 08, p. 005, 2015
- 298) R. Aaij *et al.*, “Dalitz plot analysis of $B^0 \rightarrow \bar{D}^0 \pi^+ \pi^-$ decays,” *Phys. Rev. D*, vol. 92, no. 3, p. 032002, 2015
- 299) R. Aaij *et al.*, “Amplitude analysis of $B^0 \rightarrow \bar{D}^0 K^+ \pi^-$ decays,” *Phys. Rev. D*, vol. 92, no. 1, p. 012012, 2015
- 300) R. Aaij *et al.*, “Identification of beauty and charm quark jets at LHCb,” *JINST*, vol. 10, no. 06, p. P06013, 2015
- 301) R. Aaij *et al.*, “Till Moritz Karbach, Scientific Legacy,” 4 2015
- 302) R. Aaij *et al.*, “Quantum numbers of the $X(3872)$ state and orbital angular momentum in its $\rho^0 J\psi$ decay,” *Phys. Rev. D*, vol. 92, no. 1, p. 011102, 2015
- 303) R. Aaij *et al.*, “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 $D \rightarrow K^+ K^- \pi^0$,” *Phys. Rev. D*, vol. 91, no. 11, p. 112014, 2015
- 304) R. Aaij *et al.*, “Determination of the quark coupling strength $|V_{ub}|$ using baryonic decays,” *Nature Phys.*, vol. 11, pp. 743–747, 2015
- 305) R. Aaij *et al.*, “First observation and measurement of the branching fraction for the decay $B_s^0 \rightarrow D_s^{*\mp} K^\pm$,” *JHEP*, vol. 06, p. 130, 2015
- 306) R. Aaij *et al.*, “Observation of the $B^0 \rightarrow \rho^0 \rho^0$ decay from an amplitude analysis of $B^0 \rightarrow (\pi^+ \pi^-)(\pi^+ \pi^-)$ decays,” *Phys. Lett. B*, vol. 747, pp. 468–478, 2015
- 307) R. Aaij *et al.*, “Observation of the $B_s^0 \rightarrow \eta' \eta'$ decay,” *Phys. Rev. Lett.*, vol. 115, no. 5, p. 051801, 2015
- 308) R. Aaij *et al.*, “Observation of the decay $\bar{B}_s^0 \rightarrow \psi(2S)K^+ \pi^-$,” *Phys. Lett. B*, vol. 747, pp. 484–494, 2015
- 309) R. Aaij *et al.*, “Measurement of the time-dependent CP asymmetries in $B_s^0 \rightarrow J/\psi K_S^0$,” *JHEP*, vol. 06, p. 131, 2015
- 310) R. Aaij *et al.*, “Differential branching fraction and angular analysis of $\Lambda_b^0 \rightarrow \Lambda \mu^+ \mu^-$ decays,” *JHEP*, vol. 06, p. 115, 2015. [Erratum: *JHEP* 09, 145 (2018)]
- 311) R. Aaij *et al.*, “Measurement of CP violation in $B^0 \rightarrow J/\psi K_S^0$ decays,” *Phys. Rev. Lett.*, vol. 115, no. 3, p. 031601, 2015
- 312) R. Aaij *et al.*, “Measurement of CP asymmetries and polarisation fractions in $B_s^0 \rightarrow K^{*0} \bar{K}^{*0}$ decays,” *JHEP*, vol. 07, p. 166, 2015
- 313) R. Aaij *et al.*, “First observation and amplitude analysis of the $B^- \rightarrow D^+ K^- \pi^-$ decay,” *Phys. Rev. D*, vol. 91, no. 9, p. 092002, 2015. [Erratum: *Phys.Rev.D* 93, 119901 (2016)]
- 314) R. Aaij *et al.*, “Measurement of forward $Z \rightarrow e^+ e^-$ production at $\sqrt{s} = 8$ TeV,” *JHEP*, vol. 05, p. 109, 2015
- 315) R. Aaij *et al.*, “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,” *JHEP*, vol. 04, p. 024, 2015
- 316) R. Aaij *et al.*, “Measurement of indirect CP asymmetries in $D^0 \rightarrow K^- K^+$ and $D^0 \rightarrow \pi^- \pi^+$ decays using semileptonic B decays,” *JHEP*, vol. 04, p. 043, 2015
- 317) R. Aaij *et al.*, “Angular analysis of the $B^0 \rightarrow K^{*0} e^+ e^-$ decay in the low- q^2 region,” *JHEP*, vol. 04, p. 064, 2015
- 318) R. Aaij *et al.*, “Determination of the branching fractions of $B_S^0 \rightarrow D_S K$ and $B^0 \rightarrow D_S^- K^+$,” *JHEP*, vol. 05, p. 019, 2015
- 319) R. Aaij *et al.*, “Study of the rare B_s^0 and B^0 decays into the $\pi^+ \pi^- \mu^+ \mu^-$ final state,” *Phys. Lett. B*, vol. 743, pp. 46–55, 2015
- 320) R. Aaij *et al.*, “LHCb Detector Performance,” *Int. J. Mod. Phys. A*, vol. 30, no. 07, p. 1530022, 2015
- 321) R. Aaij *et al.*, “Search for long-lived particles decaying to jet pairs,” *Eur. Phys. J. C*, vol. 75, no. 4, p. 152, 2015
- 322) R. Aaij *et al.*, “Measurement of the inelastic pp cross-section at a centre-of-mass energy of $\sqrt{s} = 7$ TeV,” *JHEP*, vol. 02, p. 129, 2015
- 323) R. Aaij *et al.*, “Measurement of the lifetime of the B_c^+ meson using the $B_c^+ \rightarrow J/\psi \pi^+$ decay mode,” *Phys. Lett. B*, vol. 742, pp. 29–37, 2015
- 324) R. Aaij *et al.*, “Observation of two new Ξ_b^- baryon resonances,” *Phys. Rev. Lett.*, vol. 114, p. 062004, 2015
- 325) V. Khachatryan *et al.*, “Observation of the rare $B_s^0 \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data,” *Nature*, vol. 522, pp. 68–72, 2015
- 326) R. Aaij *et al.*, “Precision measurement of CP violation in $B_s^0 \rightarrow J/\psi K^+ K^-$ decays,” *Phys. Rev. Lett.*, vol. 114, no. 4, p. 041801, 2015
- 327) R. Aaij *et al.*, “Measurement of B_c^+ production in proton-proton collisions at $\sqrt{s} = 8$ TeV,” *Phys. Rev. Lett.*, vol. 114, p. 132001, 2015
- 328) R. Aaij *et al.*, “Measurement of the CP -violating phase β in $B^0 \rightarrow J/\psi \pi^+ \pi^-$ decays and limits on penguin effects,” *Phys. Lett. B*, vol. 742, pp. 38–49, 2015

- 329) R. Aaij *et al.*, “Measurement of the Z+b-jet cross-section in pp collisions at $\sqrt{s} = 7$ TeV in the forward region,” *JHEP*, vol. 01, p. 064, 2015
- 330) R. Aaij *et al.*, “Study of $\eta - \eta'$ mixing from measurement of $B_{(s)}^0 \rightarrow J/\psi\eta^{(\prime)}$ -decay rates,” *JHEP*, vol. 01, p. 024, 2015
- 331) R. Aaij *et al.*, “Search for CP violation in $D^0 \rightarrow \pi^- \pi^+ \pi^0$ decays with the energy test,” *Phys. Lett. B*, vol. 740, pp. 158–167, 2015
- 332) J. Abdallah *et al.*, “Measurement of the electron structure function F_2^e at LEP energies,” *Phys. Lett. B*, vol. 737, pp. 39–47, 2014
- 333) R. Aaij *et al.*, “Precision luminosity measurements at LHCb,” *JINST*, vol. 9, no. 12, p. P12005, 2014
- 334) R. Aaij *et al.*, “Search for the lepton flavour violating decay $\tau^- \rightarrow \mu^- \mu^+ \mu^-$,” *JHEP*, vol. 02, p. 121, 2015
- 335) R. Aaij *et al.*, “Precision Measurement of the Mass and Lifetime of the Ξ_b^- Baryon,” *Phys. Rev. Lett.*, vol. 113, no. 24, p. 242002, 2014
- 336) R. Aaij *et al.*, “Measurement of the semileptonic CP asymmetry in $B^0 - \bar{B}^0$ mixing,” *Phys. Rev. Lett.*, vol. 114, p. 041601, 2015
- 337) R. Aaij *et al.*, “Measurement of the CP-violating phase ϕ_s in $\bar{B}_s^0 \rightarrow D_s^+ D_s^-$ decays,” *Phys. Rev. Lett.*, vol. 113, no. 21, p. 211801, 2014
- 338) R. Aaij *et al.*, “Measurement of the $\eta_c(1S)$ production cross-section in proton-proton collisions via the decay $\eta_c(1S) \rightarrow p\bar{p}$,” *Eur. Phys. J. C*, vol. 75, no. 7, p. 311, 2015
- 339) R. Aaij *et al.*, “Measurement of the $\chi_b(3P)$ mass and of the relative rate of $\chi_{b1}(1P)$ and $\chi_{b2}(1P)$ production,” *JHEP*, vol. 10, p. 088, 2014
- 340) R. Aaij *et al.*, “Measurement of the forward W boson cross-section in pp collisions at $\sqrt{s} = 7$ TeV,” *JHEP*, vol. 12, p. 079, 2014
- 341) R. Aaij *et al.*, “Determination of γ and $-2\beta_s$ from charmless two-body decays of beauty mesons,” *Phys. Lett. B*, vol. 741, pp. 1–11, 2015
- 342) R. Aaij *et al.*, “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,” *JHEP*, vol. 10, p. 097, 2014
- 343) R. Aaij *et al.*, “Measurement of the track reconstruction efficiency at LHCb,” *JINST*, vol. 10, no. 02, p. P02007, 2015
- 344) R. Aaij *et al.*, “Search for CP violation using T-odd correlations in $D^0 \rightarrow K^+ K^- \pi^+ \pi^-$ decays,” *JHEP*, vol. 10, p. 005, 2014
- 345) R. Aaij *et al.*, “Measurement of CP asymmetries in the decays $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ and $B^+ \rightarrow K^+ \mu^+ \mu^-$,” *JHEP*, vol. 09, p. 177, 2014
- 346) R. Aaij *et al.*, “First observations of the rare decays $B^+ \rightarrow K^+ \pi^+ \pi^- \mu^+ \mu^-$ and $B^+ \rightarrow \phi K^+ \mu^+ \mu^-$,” *JHEP*, vol. 10, p. 064, 2014
- 347) R. Aaij *et al.*, “First observation of a baryonic B_c^+ decay,” *Phys. Rev. Lett.*, vol. 113, no. 15, p. 152003, 2014
- 348) R. Aaij *et al.*, “Measurement of the $\bar{B}^0 - B^0$ and $\bar{B}_s^0 - B_s^0$ production asymmetries in pp collisions at $\sqrt{s} = 7$ TeV,” *Phys. Lett. B*, vol. 739, pp. 218–228, 2014
- 349) R. Aaij *et al.*, “Measurement of CP violation parameters in $B^0 \rightarrow DK^{*0}$ decays,” *Phys. Rev. D*, vol. 90, no. 11, p. 112002, 2014
- 350) R. Aaij *et al.*, “Observation of $B_s^0 \rightarrow K^{*\pm} K^\mp$ and evidence for $B_s^0 \rightarrow K^{*-} \pi^+$ decays,” *New J. Phys.*, vol. 16, no. 12, p. 123001, 2014
- 351) R. Aaij *et al.*, “Dalitz plot analysis of $B_s^0 \rightarrow \bar{D}^0 K^- \pi^+$ decays,” *Phys. Rev. D*, vol. 90, no. 7, p. 072003, 2014
- 352) R. Aaij *et al.*, “Study of χ_b meson production in p p collisions at $\sqrt{s} = 7$ and 8 TeV and observation of the decay $\chi_b(3P) \rightarrow \Upsilon(3S)\gamma$,” *Eur. Phys. J. C*, vol. 74, no. 10, p. 3092, 2014
- 353) R. Aaij *et al.*, “Observation of overlapping spin-1 and spin-3 $D^0 K^-$ resonances at mass $2.86\text{GeV}/c^2$,” *Phys. Rev. Lett.*, vol. 113, p. 162001, 2014
- 354) R. Aaij *et al.*, “Measurement of CP asymmetry in $B_s^0 \rightarrow D_s^\mp K^\pm$ decays,” *JHEP*, vol. 11, p. 060, 2014
- 355) R. Aaij *et al.*, “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,” *Nucl. Phys. B*, vol. 888, pp. 169–193, 2014
- 356) R. Aaij *et al.*, “Measurement of the \bar{B}_s^0 meson lifetime in $D_s^+ \pi^-$ decays,” *Phys. Rev. Lett.*, vol. 113, no. 17, p. 172001, 2014
- 357) R. Aaij *et al.*, “Observation of charmonium pairs produced exclusively in pp collisions,” *J. Phys. G*, vol. 41, no. 11, p. 115002, 2014
- 358) R. Aaij *et al.*, “Evidence for CP Violation in $B^+ \rightarrow p\bar{p}K^+$ Decays,” *Phys. Rev. Lett.*, vol. 113, no. 14, p. 141801, 2014
- 359) R. Aaij *et al.*, “Measurement of the ratio of B_c^+ branching fractions to $J/\psi\pi^+$ and $J/\psi\mu^+\nu_\mu$,” *Phys. Rev. D*, vol. 90, no. 3, p. 032009, 2014
- 360) R. Aaij *et al.*, “Measurement of CP violation in $B_s^0 \rightarrow \phi\phi$ decays,” *Phys. Rev. D*, vol. 90, no. 5, p. 052011, 2014
- 361) R. Aaij *et al.*, “Effective lifetime measurements in the $B_s^0 \rightarrow K^+ K^-, B^0 \rightarrow K^+ -$ and $B_s^0 \rightarrow^+ K^-$ decays,” *Phys. Lett. B*, vol. 736, pp. 446–454, 2014
- 362) R. Aaij *et al.*, “Test of lepton universality using $B^+ \rightarrow K^+ \ell^+ \ell^-$ decays,” *Phys. Rev. Lett.*, vol. 113, p. 151601, 2014
- 363) R. Aaij *et al.*, “First measurement of the charge asymmetry in beauty-quark pair production,” *Phys. Rev. Lett.*, vol. 113, no. 8, p. 082003, 2014
- 364) R. Aaij *et al.*, “Observation of Z production in proton-lead collisions at LHCb,” *JHEP*, vol. 09, p. 030, 2014
- 365) R. Aaij *et al.*, “Search for CP violation in $D^\pm \rightarrow K_S^0 K^\pm$ and $D_s^\pm \rightarrow K_S^0 \pi^\pm$ decays,” *JHEP*, vol. 10, p. 025, 2014
- 366) R. Aaij *et al.*, “Observation of the $\Lambda_b^0 \rightarrow J/\psi p \pi^-$ decay,” *JHEP*, vol. 07, p. 103, 2014
- 367) R. Aaij *et al.*, “Precision measurement of the mass and lifetime of the Ξ_b^0 baryon,” *Phys. Rev. Lett.*, vol. 113, p. 032001, 2014
- 368) R. Aaij *et al.*, “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,” *JHEP*, vol. 08, p. 143, 2014
- 369) R. Aaij *et al.*, “Study of Υ production and cold nuclear matter effects in pPb collisions at $\sqrt{s_{NN}}=5$ TeV,” *JHEP*, vol. 07, p. 094, 2014
- 370) R. Aaij *et al.*, “Measurement of the CP-violating phase ϕ_s in $\bar{B}_s^0 \rightarrow J/\psi \pi^+ \pi^-$ decays,” *Phys. Lett. B*, vol. 736, pp. 186–195, 2014
- 371) R. Aaij *et al.*, “Observation of the $B_s^0 \rightarrow J/\psi K_S^0 K^\pm \pi^\mp$ decay,” *JHEP*, vol. 07, p. 140, 2014
- 372) R. Aaij *et al.*, “Measurement of CP asymmetry in $D^0 \rightarrow K^- K^+$ and $D^0 \rightarrow \pi^- \pi^+$ decays,” *JHEP*, vol. 07, p. 041, 2014
- 373) R. Aaij *et al.*, “Measurement of the Ξ_b^- and Ω_b^- baryon lifetimes,” *Phys. Lett. B*, vol. 736, pp. 154–162, 2014
- 374) R. Aaij *et al.*, “Measurement of the resonant and CP components in $\bar{B}^0 \rightarrow J/\psi \pi^+ \pi^-$ decays,” *Phys. Rev. D*, vol. 90, no. 1, p. 012003, 2014
- 375) R. Aaij *et al.*, “Observation of the resonant character of the $Z(4430)^-$ state,” *Phys. Rev. Lett.*, vol. 112, no. 22, p. 222002, 2014
- 376) R. Aaij *et al.*, “Evidence for the decay $B_c^+ \rightarrow J/\psi 3\pi^+ 2\pi^-$,” *JHEP*, vol. 05, p. 148, 2014
- 377) R. Aaij *et al.*, “Evidence for the decay $X(3872) \rightarrow \psi(2S)\gamma$,” *Nucl. Phys. B*, vol. 886, pp. 665–680, 2014
- 378) R. Aaij *et al.*, “Angular analysis of charged and neutral

- $B \rightarrow K\mu^+\mu^-$ decays,” *JHEP*, vol. 05, p. 082, 2014
- 379) R. Aaij *et al.*, “Differential branching fractions and isospin asymmetries of $B \rightarrow K^{(*)}\mu^+\mu^-$ decays,” *JHEP*, vol. 06, p. 133, 2014
- 380) R. Aaij *et al.*, “Study of beauty hadron decays into pairs of charm hadrons,” *Phys. Rev. Lett.*, vol. 112, p. 202001, 2014
- 381) R. Aaij *et al.*, “Measurement of polarization amplitudes and CP asymmetries in $B^0 \rightarrow \phi K^*(892)^0$,” *JHEP*, vol. 05, p. 069, 2014
- 382) R. Aaij *et al.*, “Measurement of $\psi(2S)$ polarisation in pp collisions at $\sqrt{s} = 7$ TeV,” *Eur. Phys. J. C*, vol. 74, no. 5, p. 2872, 2014
- 383) R. Aaij *et al.*, “Observation of Photon Polarization in the $b \rightarrow s\gamma$ Transition,” *Phys. Rev. Lett.*, vol. 112, no. 16, p. 161801, 2014
- 384) R. Aaij *et al.*, “Precision measurement of the ratio of the Λ_b^0 to \bar{B}^0 lifetimes,” *Phys. Lett. B*, vol. 734, pp. 122–130, 2014
- 385) R. Aaij *et al.*, “Measurement of resonant and CP components in $\bar{B}_s^0 \rightarrow J/\psi\pi^+\pi^-$ decays,” *Phys. Rev. D*, vol. 89, no. 9, p. 092006, 2014
- 386) R. Aaij *et al.*, “Measurement of charged particle multiplicities and densities in pp collisions at $\sqrt{s} = 7$ TeV in the forward region,” *Eur. Phys. J. C*, vol. 74, no. 5, p. 2888, 2014
- 387) R. Aaij *et al.*, “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,” *Phys. Lett. B*, vol. 733, pp. 36–45, 2014
- 388) R. Aaij *et al.*, “Measurement of Υ production in pp collisions at $\sqrt{s} = 2.76$ TeV,” *Eur. Phys. J. C*, vol. 74, no. 4, p. 2835, 2014
- 389) R. Aaij *et al.*, “Measurements of the B^+, B^0, B_s^0 meson and Λ_b^0 baryon lifetimes,” *JHEP*, vol. 04, p. 114, 2014
- 390) R. Aaij *et al.*, “Searches for Λ_b^0 and Ξ_b^0 decays to $K_S^0 p\pi^-$ and $K_S^0 pK^-$ final states with first observation of the $\Lambda_b^0 \rightarrow K_S^0 p\pi^-$ decay,” *JHEP*, vol. 04, p. 087, 2014
- 391) R. Aaij *et al.*, “Measurement of the B_c^+ meson lifetime using $B_c^+ \rightarrow J/\psi\mu^+\nu_\mu X$ decays,” *Eur. Phys. J. C*, vol. 74, no. 5, p. 2839, 2014
- 392) R. Aaij *et al.*, “Search for Majorana neutrinos in $B^- \rightarrow \pi^+\mu^-\mu^-$ decays,” *Phys. Rev. Lett.*, vol. 112, no. 13, p. 131802, 2014
- 393) R. Aaij *et al.*, “Observation of associated production of a Z boson with a D meson in the forward region,” *JHEP*, vol. 04, p. 091, 2014
- 394) R. Aaij *et al.*, “Updated measurements of exclusive J/ψ and $\psi(2S)$ production cross-sections in pp collisions at $\sqrt{s} = 7$ TeV,” *J. Phys. G*, vol. 41, p. 055002, 2014
- 395) R. Aaij *et al.*, “Measurement of the $\bar{B}_s^0 \rightarrow D_s^- D_s^+$ and $\bar{B}_s^0 \rightarrow D^- D_s^+$ effective lifetimes,” *Phys. Rev. Lett.*, vol. 112, no. 11, p. 111802, 2014
- 396) R. Aaij *et al.*, “Studies of beauty baryon decays to $D^0 p h^-$ and $\Lambda_c^+ h^-$ final states,” *Phys. Rev. D*, vol. 89, no. 3, p. 032001, 2014
- 397) R. Aaij *et al.*, “Study of forward Z + jet production in pp collisions at $\sqrt{s} = 7$ TeV,” *JHEP*, vol. 01, p. 033, 2014
- 398) R. Aaij *et al.*, “Search for CP violation in the decay $D^+ \rightarrow \pi^-\pi^+\pi^+$,” *Phys. Lett. B*, vol. 728, pp. 585–595, 2014
- 399) R. Aaij *et al.*, “Measurements of indirect CP asymmetries in $D^0 \rightarrow K^- K^+$ and $D^0 \rightarrow \pi^-\pi^+$ decays,” *Phys. Rev. Lett.*, vol. 112, no. 4, p. 041801, 2014
- 400) R. Aaij *et al.*, “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,” *Phys. Rev. Lett.*, vol. 112, no. 1, p. 011801, 2014
- 401) R. Aaij *et al.*, “Search for the doubly charmed baryon Ξ_{cc}^+ ,” *JHEP*, vol. 12, p. 090, 2013
- 402) R. Aaij *et al.*, “Search for the decay $D_0 \rightarrow \pi^+\pi^-\mu^+\mu^-$,” *Phys. Lett. B*, vol. 728, pp. 234–243, 2014
- 403) R. Aaij *et al.*, “Observation of $\bar{B}_{(s)} \rightarrow J/\psi f_1(1285)$ Decays and Measurement of the $f_1(1285)$ Mixing Angle,” *Phys. Rev. Lett.*, vol. 112, no. 9, p. 091802, 2014
- 404) R. Aaij *et al.*, “Measurement of $D^0-\bar{D}^0$ Mixing Parameters and Search for CP Violation Using $D^0 \rightarrow K^+\pi^-$ Decays,” *Phys. Rev. Lett.*, vol. 111, no. 25, p. 251801, 2013
- 405) R. Aaij *et al.*, “Measurement of the charge asymmetry in $B^\pm \rightarrow \phi K^\pm$ and search for $B^\pm \rightarrow \phi\pi^\pm$ decays,” *Phys. Lett. B*, vol. 728, pp. 85–94, 2014
- 406) R. Aaij *et al.*, “Observation of the decay $B_c \rightarrow J/\psi K^+ K^- \pi^+$,” *JHEP*, vol. 11, p. 094, 2013
- 407) R. Aaij *et al.*, “Study of J/ψ production and cold nuclear matter effects in pPb collisions at $\sqrt{s_{NN}} = 5$ TeV,” *JHEP*, vol. 02, p. 072, 2014
- 408) R. Aaij *et al.*, “First observation of $\bar{B}^0 \rightarrow J/\psi K^+ K^-$ and search for $\bar{B}^0 \rightarrow J/\psi\phi$ decays,” *Phys. Rev. D*, vol. 88, no. 7, p. 072005, 2013
- 409) R. Aaij *et al.*, “Observation of the decay $B_s^0 \rightarrow \bar{D}^0\phi$,” *Phys. Lett. B*, vol. 727, pp. 403–411, 2013
- 410) R. Aaij *et al.*, “Observation of the Decay $B_c^+ \rightarrow B_s^+\pi^+$,” *Phys. Rev. Lett.*, vol. 111, no. 18, p. 181801, 2013
- 411) R. Aaij *et al.*, “Model-independent search for CP violation in $D^0 \rightarrow K^- K^+ \pi^- \pi^+$ and $D^0 \rightarrow \pi^- \pi^+ \pi^+ \pi^-$ decays,” *Phys. Lett. B*, vol. 726, pp. 623–633, 2013
- 412) R. Aaij *et al.*, “Measurement of Form-Factor-Independent Observables in the Decay $B^0 \rightarrow K^{*0}\mu^+\mu^-$,” *Phys. Rev. Lett.*, vol. 111, p. 191801, 2013
- 413) R. Aaij *et al.*, “First measurement of time-dependent CP violation in $B_s^0 \rightarrow K^+ K^-$ decays,” *JHEP*, vol. 10, p. 183, 2013
- 414) R. Aaij *et al.*, “Observation of $B_s^0-\bar{B}_s^0$ mixing and measurement of mixing frequencies using semileptonic B decays,” *Eur. Phys. J. C*, vol. 73, no. 12, p. 2655, 2013
- 415) R. Aaij *et al.*, “Branching fraction and CP asymmetry of the decays $B^+ \rightarrow K_S^0 \pi^+$ and $B^+ \rightarrow K_S^0 K^+$,” *Phys. Lett. B*, vol. 726, pp. 646–655, 2013
- 416) R. Aaij *et al.*, “Measurement of the CP asymmetry in $B^+ \rightarrow K^+\mu^+\mu^-$ decays,” *Phys. Rev. Lett.*, vol. 111, no. 15, p. 151801, 2013
- 417) R. Aaij *et al.*, “First evidence for the two-body charmless baryonic decay $B^0 \rightarrow p\bar{p}$,” *JHEP*, vol. 10, p. 005, 2013
- 418) R. Aaij *et al.*, “Measurement of the flavour-specific CP-violating asymmetry a_{sl}^s in B_s^0 decays,” *Phys. Lett. B*, vol. 728, pp. 607–615, 2014
- 419) R. Aaij *et al.*, “Observation of a resonance in $B^+ \rightarrow K^+\mu^+\mu^-$ decays at low recoil,” *Phys. Rev. Lett.*, vol. 111, no. 11, p. 112003, 2013
- 420) R. Aaij *et al.*, “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 $B_s^0 \rightarrow K_S^0 \pi^+ \pi^-$,” *JHEP*, vol. 10, p. 143, 2013
- 421) R. Aaij *et al.*, “Measurement of J/ψ polarization in pp collisions at $\sqrt{s} = 7$ TeV,” *Eur. Phys. J. C*, vol. 73, no. 11, p. 2631, 2013
- 422) R. Aaij *et al.*, “Studies of the decays $B^+ \rightarrow p\bar{p}h^+$ and observation of $B^+ \rightarrow \bar{\Lambda}(1520)p$,” *Phys. Rev. D*, vol. 88, no. 5, p. 052015, 2013
- 423) R. Aaij *et al.*, “Measurement of the $B_s^0 \rightarrow \mu^+\mu^-$ branching fraction and search for $B^0 \rightarrow \mu^+\mu^-$ decays at the LHCb experiment,” *Phys. Rev. Lett.*, vol. 111, p. 101805, 2013
- 424) R. Aaij *et al.*, “Search for the lepton-flavor violating decays $B_s^0 \rightarrow e^\pm\mu^\mp$ and $B^0 \rightarrow e^\pm\mu^\mp$,” *Phys. Rev. Lett.*, vol. 111, p. 141801, 2013
- 425) R. Aaij *et al.*, “Study of D_J meson decays to $D^+\pi^-$, $D^0\pi^+$ and $D^{*+}\pi^-$ final states in pp collision,” *JHEP*, vol. 09, p. 145, 2013
- 426) R. Aaij *et al.*, “Measurement of the relative rate of prompt χ_{c0} , χ_{c1} and χ_{c2} production at $\sqrt{s} = 7$ TeV,” *JHEP*, vol. 10, p. 115, 2013
- 427) R. Aaij *et al.*, “Measurement of the polarization ampli-

- tudes in $B^0 \rightarrow J/\psi K^*(892)^0$ decays," *Phys. Rev. D*, vol. 88, p. 052002, 2013
- 428) R. Aaij *et al.*, "Precision measurement of the Λ_b baryon lifetime," *Phys. Rev. Lett.*, vol. 111, p. 102003, 2013
- 429) R. Aaij *et al.*, "First observation of the decay $B_c^+ \rightarrow J/\psi K^+$," *JHEP*, vol. 09, p. 075, 2013
- 430) R. Aaij *et al.*, "Searches for $B_{(s)}^0 \rightarrow J/\psi p\bar{p}$ and $B^+ \rightarrow J/\psi p\bar{p}\pi^+$ decays," *JHEP*, vol. 09, p. 006, 2013
- 431) R. Aaij *et al.*, "Measurement of B meson production cross-sections in proton-proton collisions at $\sqrt{s} = 7$ TeV," *JHEP*, vol. 08, p. 117, 2013
- 432) R. Aaij *et al.*, "Measurement of the differential branching fraction of the decay $\Lambda_b^0 \rightarrow \Lambda\mu^+\mu^-$," *Phys. Lett. B*, vol. 725, pp. 25–35, 2013
- 433) R. Aaij *et al.*, "First observation of the decay $B_s^0 \rightarrow \phi\bar{K}^{*0}$," *JHEP*, vol. 11, p. 092, 2013
- 434) R. Aaij *et al.*, "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," *Phys. Rev. Lett.*, vol. 111, p. 101801, 2013
- 435) R. Aaij *et al.*, "Observation of $B_s^0 \rightarrow \chi_{c1}\phi$ decay and study of $B^0 \rightarrow \chi_{c1,2}K^{*0}$ decays," *Nucl. Phys. B*, vol. 874, pp. 663–678, 2013
- 436) R. Aaij *et al.*, "Search for the rare decay $D^0 \rightarrow \mu^+\mu^-$," *Phys. Lett. B*, vol. 725, pp. 15–24, 2013
- 437) R. Aaij *et al.*, "Measurement of the CKM angle γ from a combination of $B^\pm \rightarrow Dh^\pm$ analyses," *Phys. Lett. B*, vol. 726, pp. 151–163, 2013
- 438) R. Aaij *et al.*, "Differential branching fraction and angular analysis of the decay $B_s^0 \rightarrow \phi\mu^+\mu^-$," *JHEP*, vol. 07, p. 084, 2013
- 439) R. Aaij *et al.*, "Production of J/psi and Upsilon mesons in pp collisions at $\sqrt{s} = 8$ TeV," *JHEP*, vol. 06, p. 064, 2013
- 440) R. Aaij *et al.*, "Precision measurement of D meson mass differences," *JHEP*, vol. 06, p. 065, 2013
- 441) R. Aaij *et al.*, "Search for $D+(s)$ to $\pi^+\mu^+\mu^-$ and $D+(s)$ to $\pi^-\mu^+\mu^+$ decays," *Phys. Lett. B*, vol. 724, pp. 203–212, 2013
- 442) R. Aaij *et al.*, "Measurement of the branching fractions of the decays $B_s^0 \rightarrow \bar{D}^0 K^-\pi^+$ and $B^0 \rightarrow \bar{D}^0 K^+\pi^-$," *Phys. Rev. D*, vol. 87, no. 11, p. 112009, 2013
- 443) R. Aaij *et al.*, "First observation of CP violation in the decays of B_s^0 mesons," *Phys. Rev. Lett.*, vol. 110, no. 22, p. 221601, 2013
- 444) R. Aaij *et al.*, "Differential branching fraction and angular analysis of the decay $B^0 \rightarrow K^{*0}\mu^+\mu^-$," *JHEP*, vol. 08, p. 131, 2013
- 445) R. Aaij *et al.*, "Precision measurement of the $B_s^0\text{-}\bar{B}_s^0$ oscillation frequency with the decay $B_s^0 \rightarrow D_s^-\pi^+$," *New J. Phys.*, vol. 15, p. 053021, 2013
- 446) R. Aaij *et al.*, "Measurement of the effective $B_s^0 \rightarrow J/\psi K_S^0$ lifetime," *Nucl. Phys. B*, vol. 873, pp. 275–292, 2013
- 447) R. Aaij *et al.*, "Searches for violation of lepton flavour and baryon number in tau lepton decays at LHCb," *Phys. Lett. B*, vol. 724, pp. 36–45, 2013
- 448) R. Aaij *et al.*, "Observation of $B_c^+ \rightarrow J/\psi D_s^+$ and $B_c^+ \rightarrow J/\psi D_s^{*+}$ decays," *Phys. Rev. D*, vol. 87, no. 11, p. 112012, 2013. [Addendum: *Phys.Rev.D* 89, 019901 (2014)]
- 449) R. Aaij *et al.*, "Measurement of the $B^0 \rightarrow K^{*0}e^+e^-$ branching fraction at low dilepton mass," *JHEP*, vol. 05, p. 159, 2013
- 450) R. Aaij *et al.*, "Measurement of CP violation and the B_s^0 meson decay width difference with $B_s^0 \rightarrow J/K^+K^-$ and $B_s^0 \rightarrow J/\psi$ decays," *Phys. Rev. D*, vol. 87, no. 11, p. 112010, 2013
- 451) R. Aaij *et al.*, "Limits on neutral Higgs boson production in the forward region in pp collisions at $\sqrt{s} = 7$ TeV," *JHEP*, vol. 05, p. 132, 2013
- 452) R. Aaij *et al.*, "Measurements of the branching fractions of $B^+ \rightarrow p\bar{p}K^+$ decays," *Eur. Phys. J. C*, vol. 73, no. 6, p. 2462, 2013
- 453) R. Aaij *et al.*, "First measurement of the CP-violating phase in $B_s^0 \rightarrow \phi\phi$ decays," *Phys. Rev. Lett.*, vol. 110, no. 24, p. 241802, 2013
- 454) R. Aaij *et al.*, "Study of $B^0 \rightarrow D^{*-}\pi^+\pi^-\pi^+$ and $B^0 \rightarrow D^{*-}K^+\pi^-\pi^+$ decays," *Phys. Rev. D*, vol. 87, no. 9, p. 092001, 2013
- 455) R. Aaij *et al.*, "Search for CP violation in $D^+ \rightarrow \phi\pi^+$ and $D_s^+ \rightarrow K_s\pi^+$ decays," *JHEP*, vol. 06, p. 112, 2013
- 456) R. Aaij *et al.*, "Observation of the suppressed ADS modes $B^\pm \rightarrow [\pi^\pm K^\mp\pi^+\pi^-]_D K^\pm$ and $B^\pm \rightarrow [\pi^\pm K^\mp\pi^+\pi^-]_D \pi^\pm$," *Phys. Lett. B*, vol. 723, pp. 44–53, 2013
- 457) R. Aaij *et al.*, "Search for direct CP violation in $D^0 \rightarrow h^-h^+$ modes using semileptonic B decays," *Phys. Lett. B*, vol. 723, pp. 33–43, 2013
- 458) R. Aaij *et al.*, "Observation of the decay $B_c^+ \rightarrow \psi(2S)\pi^+$," *Phys. Rev. D*, vol. 87, p. 071103, 2013
- 459) R. Aaij *et al.*, "Search for rare $B_{(s)}^0 \rightarrow \mu^+\mu^-\mu^+\mu^-$ decays," *Phys. Rev. Lett.*, vol. 110, p. 211801, 2013
- 460) R. Aaij *et al.*, "Observations of $B_s^0 \rightarrow \psi(2S)\eta$ and $B_{(s)}^0 \rightarrow \psi(2S)\pi^+\pi^-$ decays," *Nucl. Phys. B*, vol. 871, pp. 403–419, 2013
- 461) R. Aaij *et al.*, "Search for the decay $B_s^0 \rightarrow D^{*\mp}\pi^\pm$," *Phys. Rev. D*, vol. 87, p. 071101, 2013
- 462) R. Aaij *et al.*, "Determination of the X(3872) meson quantum numbers," *Phys. Rev. Lett.*, vol. 110, p. 222001, 2013
- 463) R. Aaij *et al.*, "First observations of $\bar{B}_s^0 \rightarrow D^+D^-$, $D_s^+D^-$ and $D^0\bar{D}^0$ decays," *Phys. Rev. D*, vol. 87, no. 9, p. 092007, 2013
- 464) R. Aaij *et al.*, "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," *Phys. Lett. B*, vol. 724, pp. 27–35, 2013
- 465) S. Schael *et al.*, "Electroweak Measurements in Electron-Positron Collisions at W-Boson-Pair Energies at LEP," *Phys. Rept.*, vol. 532, pp. 119–244, 2013
- 466) R. Aaij *et al.*, "Prompt charm production in pp collisions at $\sqrt{s}=7$ TeV," *Nucl. Phys. B*, vol. 871, pp. 1–20, 2013
- 467) R. Aaij *et al.*, "Amplitude analysis and the branching fraction measurement of $\bar{B}_s^0 \rightarrow J/\psi K^+K^-$," *Phys. Rev. D*, vol. 87, no. 7, p. 072004, 2013
- 468) R. Aaij *et al.*, "Measurement of the Λ_b^0 , Ξ_b^- and Ω_b^- baryon masses," *Phys. Rev. Lett.*, vol. 110, no. 18, p. 182001, 2013
- 469) R. Aaij *et al.*, "Exclusive J/ψ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV," *J. Phys. G*, vol. 40, p. 045001, 2013
- 470) R. Aaij *et al.*, "Analysis of the resonant components in $B^- + 0 \rightarrow J/\psi\pi^+\pi^-$," *Phys. Rev. D*, vol. 87, no. 5, p. 052001, 2013
- 471) R. Aaij *et al.*, "Measurement of the fragmentation fraction ratio f_s/f_d and its dependence on B meson kinematics," *JHEP*, vol. 04, p. 001, 2013
- 472) G. Abbiendi *et al.*, "Search for Charged Higgs bosons: Combined Results Using LEP Data," *Eur. Phys. J. C*, vol. 73, p. 2463, 2013
- 473) R. Aaij *et al.*, "Measurement of the forward energy flow in pp collisions at $\sqrt{s} = 7$ TeV," *Eur. Phys. J. C*, vol. 73, p. 2421, 2013
- 474) R. Aaij *et al.*, "Measurement of J/ψ production in pp collisions at $\sqrt{s} = 2.76$ TeV," *JHEP*, vol. 02, p. 041, 2013
- 475) R. Aaij *et al.*, "Measurement of the cross-section for $Z \rightarrow e^+e^-$ production in pp collisions at $\sqrt{s} = 7$ TeV," *JHEP*, vol. 02, p. 106, 2013
- 476) R. Aaij *et al.*, "Measurement of CP observables in $B^0 \rightarrow DK^{*0}$ with $D \rightarrow K^+K^-$," *JHEP*, vol. 03, p. 067, 2013
- 477) R. Aaij *et al.*, "First Evidence for the Decay $B_s^0 \rightarrow \mu^+\mu^-$," *Phys. Rev. Lett.*, vol. 110, no. 2, p. 021801, 2013

- 478) R. Aaij *et al.*, “Measurement of the time-dependent CP asymmetry in $B^0 \rightarrow J/\psi K_S^0$ decays,” *Phys. Lett. B*, vol. 721, pp. 24–31, 2013
- 479) R. Aaij *et al.*, “Observation of $D^0 - \bar{D}^0$ oscillations,” *Phys. Rev. Lett.*, vol. 110, no. 10, p. 101802, 2013
- 480) R. Aaij *et al.*, “First observation of the decays $\bar{B}_s^0 \rightarrow D_s^+ K^- \pi^+ \pi^-$ and $B_s^0 \rightarrow D_{s1}(2536)^+ \pi^-$,” *Phys. Rev. D*, vol. 86, p. 112005, 2012
- 481) R. Aaij *et al.*, “First observation of the decay $B_{s2}^*(5840)^0 \rightarrow B^{*+} K^-$ and studies of excited B_s^0 mesons,” *Phys. Rev. Lett.*, vol. 110, no. 15, p. 151803, 2013
- 482) R. Aaij *et al.*, “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 $J/\psi \eta'$,” *Nucl. Phys. B*, vol. 867, pp. 547–566, 2013
- 483) R. Aaij *et al.*, “Measurement of the $B^0 - \bar{B}^0$ oscillation frequency Δm_d with the decays $B^0 \rightarrow D^- \pi^+$ and $B^0 \rightarrow J/\psi K^{*0}$,” *Phys. Lett. B*, vol. 719, pp. 318–325, 2013
- 484) R. Aaij *et al.*, “First evidence for the annihilation decay mode $B^+ \rightarrow D_s^+ \phi$,” *JHEP*, vol. 02, p. 043, 2013
- 485) R. Aaij *et al.*, “Measurement of the D +/− production asymmetry in 7 TeV pp collisions,” *Phys. Lett. B*, vol. 718, pp. 902–909, 2013
- 486) R. Aaij *et al.*, “A study of the Z production cross-section in pp collisions at $\sqrt{s} = 7$ TeV using tau final states,” *JHEP*, vol. 01, p. 111, 2013
- 487) R. Aaij *et al.*, “First observation of the decay $B^+ \rightarrow \pi^+ \mu^+ \mu^-$,” *JHEP*, vol. 12, p. 125, 2012
- 488) R. Aaij *et al.*, “Measurement of the CP asymmetry in $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ decays,” *Phys. Rev. Lett.*, vol. 110, no. 3, p. 031801, 2013
- 489) R. Aaij *et al.*, “Measurement of the fraction of $\Upsilon(1S)$ originating from $\chi_b(1P)$ decays in pp collisions at $\sqrt{s} = 7$ TeV,” *JHEP*, vol. 11, p. 031, 2012
- 490) R. Aaij *et al.*, “Search for the rare decay $K_S \rightarrow \mu^+ \mu^-$,” *JHEP*, vol. 01, p. 090, 2013
- 491) R. Aaij *et al.*, “Differential branching fraction and angular analysis of the $B^+ \rightarrow K^+ \mu^+ \mu^-$ decay,” *JHEP*, vol. 02, p. 105, 2013
- 492) R. Aaij *et al.*, “Measurement of the ratio of branching fractions $BR(B_0 \rightarrow K^{*0} \gamma)/BR(B_{s0} \rightarrow \phi \gamma)$ and the direct CP asymmetry in $B_0 \rightarrow K^{*0} \gamma$,” *Nucl. Phys. B*, vol. 867, pp. 1–18, 2013
- 493) R. Aaij *et al.*, “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 ,” *Phys. Lett. B*, vol. 718, pp. 43–55, 2012
- 494) R. Aaij *et al.*, “Measurements of B_c^+ production and mass with the $B_c^+ \rightarrow J/\psi \pi^+$ decay,” *Phys. Rev. Lett.*, vol. 109, p. 232001, 2012
- 495) R. Aaij *et al.*, “Implications of LHCb measurements and future prospects,” *Eur. Phys. J. C*, vol. 73, no. 4, p. 2373, 2013
- 496) R. Aaij *et al.*, “Measurement of the $B_s^0 \rightarrow J/\psi \bar{K}^{*0}$ branching fraction and angular amplitudes,” *Phys. Rev. D*, vol. 86, p. 071102, 2012
- 497) R. Aaij *et al.*, “Measurement of the effective $B_s^0 \rightarrow K^+ K^-$ lifetime,” *Phys. Lett. B*, vol. 716, pp. 393–400, 2012
- 498) R. Aaij *et al.*, “Observation of $B^0 \rightarrow \bar{D}^0 K^+ K^-$ and evidence of $B_s^0 \rightarrow \bar{D}^0 K^+ K^-$,” *Phys. Rev. Lett.*, vol. 109, p. 131801, 2012
- 499) R. Aaij *et al.*, “Measurement of the B_s effective lifetime in the $J/\psi f_0(980)$ final state,” *Phys. Rev. Lett.*, vol. 109, p. 152002, 2012
- 500) R. Aaij *et al.*, “Study of D_{sJ} decays to $D^+ K_S^0$ and $D^0 K^+$ final states in pp collisions,” *JHEP*, vol. 10, p. 151, 2012
- 501) R. Aaij *et al.*, “Measurement of prompt hadron production ratios in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV,” *Eur. Phys. J. C*, vol. 72, p. 2168, 2012
- 502) R. Aaij *et al.*, “Measurement of b -hadron branching fractions for two-body decays into charmless charged hadrons,” *JHEP*, vol. 10, p. 037, 2012
- 503) R. Aaij *et al.*, “Measurement of the isospin asymmetry in $B \rightarrow K^{(*)} \mu^+ \mu^-$ decays,” *JHEP*, vol. 07, p. 133, 2012
- 504) R. Aaij *et al.*, “Measurement of relative branching fractions of B decays to $\psi(2S)$ and J/ψ mesons,” *Eur. Phys. J. C*, vol. 72, p. 2118, 2012
- 505) R. Aaij *et al.*, “Measurement of the $D_s^+ - D_s^-$ production asymmetry in 7 TeV pp collisions,” *Phys. Lett. B*, vol. 713, pp. 186–195, 2012
- 506) R. Aaij *et al.*, “Measurement of the $B_s^0 \rightarrow J/\psi K_S^0$ branching fraction,” *Phys. Lett. B*, vol. 713, pp. 172–179, 2012
- 507) R. Aaij *et al.*, “Observation of excited Λ_b^0 baryons,” *Phys. Rev. Lett.*, vol. 109, p. 172003, 2012
- 508) R. Aaij *et al.*, “Observation of double charm production involving open charm in pp collisions at $\sqrt{s} = 7$ TeV,” *JHEP*, vol. 06, p. 141, 2012. [Addendum: *JHEP* 03, 108 (2014)]
- 509) R. Aaij *et al.*, “First observation of the decay $B_c^+ \rightarrow J/\psi \pi^+ \pi^- \pi^+$,” *Phys. Rev. Lett.*, vol. 108, p. 251802, 2012
- 510) R. Aaij *et al.*, “Measurement of $\psi(2S)$ meson production in pp collisions at $\sqrt{s}=7$ TeV,” *Eur. Phys. J. C*, vol. 72, p. 2100, 2012. [Erratum: *Eur.Phys.J.C* 80, 49 (2020)]
- 511) R. Aaij *et al.*, “Analysis of the resonant components in $B_s \rightarrow J/\psi \pi^+ \pi^-$,” *Phys. Rev. D*, vol. 86, p. 052006, 2012
- 512) R. Aaij *et al.*, “Measurement of the CP -violating phase ϕ_s in $\bar{B}_s^0 \rightarrow J/\psi \pi^+ \pi^-$ decays,” *Phys. Lett. B*, vol. 713, pp. 378–386, 2012
- 513) R. Aaij *et al.*, “Measurement of the ratio of prompt χ_c to J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV,” *Phys. Lett. B*, vol. 718, pp. 431–440, 2012
- 514) R. Aaij *et al.*, “Inclusive W and Z production in the forward region at $\sqrt{s} = 7$ TeV,” *JHEP*, vol. 06, p. 058, 2012
- 515) R. Aaij *et al.*, “Measurement of the polarization amplitudes and triple product asymmetries in the $B_s^0 \rightarrow \phi \phi$ decay,” *Phys. Lett. B*, vol. 713, pp. 369–377, 2012
- 516) R. Aaij *et al.*, “Measurements of the branching fractions of the decays $B_s^0 \rightarrow D_s^\mp K^\pm$ and $B_s^0 \rightarrow D_s^- \pi^+$,” *JHEP*, vol. 06, p. 115, 2012
- 517) R. Aaij *et al.*, “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,” *Phys. Rev. D*, vol. 85, p. 091105, 2012
- 518) R. Aaij *et al.*, “Strong constraints on the rare decays $B_s \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$,” *Phys. Rev. Lett.*, vol. 108, p. 231801, 2012
- 519) R. Aaij *et al.*, “Observation of CP violation in $B^\pm \rightarrow DK^\pm$ decays,” *Phys. Lett. B*, vol. 712, pp. 203–212, 2012. [Erratum: *Phys.Lett.B* 713, 351 (2012)]
- 520) R. Aaij *et al.*, “Measurement of Upsilon production in pp collisions at $\sqrt{s} = 7$ TeV,” *Eur. Phys. J. C*, vol. 72, p. 2025, 2012
- 521) R. Aaij *et al.*, “Measurement of the ratio of branching fractions $\mathcal{B}(B^0 \rightarrow K^{*0} \gamma)/\mathcal{B}(B_s^0 \rightarrow \phi \gamma)$,” *Phys. Rev. D*, vol. 85, p. 112013, 2012
- 522) R. Aaij *et al.*, “Search for the $X(4140)$ state in $B^+ \rightarrow J/\psi \phi K^+$ decays,” *Phys. Rev. D*, vol. 85, p. 091103, 2012
- 523) R. Aaij *et al.*, “Opposite-side flavour tagging of B mesons at the LHCb experiment,” *Eur. Phys. J. C*, vol. 72, p. 2022, 2012
- 524) R. Aaij *et al.*, “Determination of the sign of the decay width difference in the B_s system,” *Phys. Rev. Lett.*, vol. 108, p. 241801, 2012
- 525) R. Aaij *et al.*, “Measurement of the cross-section ratio $\sigma(\chi_{c2})/\sigma(\chi_{c1})$ for prompt χ_c production at $\sqrt{s} = 7$ TeV,” *Phys. Lett. B*, vol. 714, pp. 215–223, 2012
- 526) R. Aaij *et al.*, “Measurement of the B^\pm production cross-

- section in pp collisions at $\sqrt{s} = 7$ TeV," *JHEP*, vol. 04, p. 093, 2012
- 527) R. Aaij *et al.*, "First evidence of direct CP violation in charmless two-body decays of B_s^0 mesons," *Phys. Rev. Lett.*, vol. 108, p. 201601, 2012
- 528) R. Aaij *et al.*, "First observation of the decays $\bar{B}^0 \rightarrow D^+ K^- \pi^+ \pi^-$ and $B^- \rightarrow D^0 K^- \pi^+ \pi^-$," *Phys. Rev. Lett.*, vol. 108, p. 161801, 2012
- 529) R. Aaij *et al.*, "Searches for Majorana neutrinos in B^- decays," *Phys. Rev. D*, vol. 85, p. 112004, 2012
- 530) R. Aaij *et al.*, "Measurement of b -hadron masses," *Phys. Lett. B*, vol. 708, pp. 241–248, 2012
- 531) R. Aaij *et al.*, "Measurement of charged particle multiplicities in pp collisions at $\sqrt{s} = 7$ TeV in the forward region," *Eur. Phys. J. C*, vol. 72, p. 1947, 2012
- 532) R. Aaij *et al.*, "Measurement of mixing and CP violation parameters in two-body charm decays," *JHEP*, vol. 04, p. 129, 2012
- 533) R. Aaij *et al.*, "Observation of $B_s \rightarrow J/\psi f_2'(1525)$ in $J/\psi K^+ K^-$ final states," *Phys. Rev. Lett.*, vol. 108, p. 151801, 2012
- 534) R. Aaij *et al.*, "Differential branching fraction and angular analysis of the decay $B^0 \rightarrow K^{*0} \mu^+ \mu^-$," *Phys. Rev. Lett.*, vol. 108, p. 181806, 2012
- 535) R. Aaij *et al.*, "Search for the rare decays $B_s^0 \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$," *Phys. Lett. B*, vol. 708, pp. 55–67, 2012
- 536) R. Aaij *et al.*, "Evidence for CP violation in time-integrated $D^0 \rightarrow h^- h^+$ decay rates," *Phys. Rev. Lett.*, vol. 108, p. 111602, 2012
- 537) R. Aaij *et al.*, "Observation of $X(3872)$ production in pp collisions at $\sqrt{s} = 7$ TeV," *Eur. Phys. J. C*, vol. 72, p. 1972, 2012
- 538) R. Aaij *et al.*, "Measurement of the $B_s^0 - \bar{B}_s^0$ oscillation frequency Δm_s in $B_s^0 \rightarrow D_s^-(3)\pi$ decays," *Phys. Lett. B*, vol. 709, pp. 177–184, 2012
- 539) R. Aaij *et al.*, "Measurement of the CP violating phase ϕ_s in $\bar{B}_s^0 \rightarrow J/\psi f_0(980)$," *Phys. Lett. B*, vol. 707, pp. 497–505, 2012
- 540) R. Aaij *et al.*, "Measurement of the CP -violating phase ϕ_s in the decay $B_s^0 \rightarrow J/\psi \phi$," *Phys. Rev. Lett.*, vol. 108, p. 101803, 2012
- 541) R. Aaij *et al.*, "Measurement of the effective $B_s^0 \rightarrow K^+ K^-$ lifetime," *Phys. Lett. B*, vol. 707, pp. 349–356, 2012
- 542) R. Aaij *et al.*, "Measurement of b -hadron production fractions in 7 TeV pp collisions," *Phys. Rev. D*, vol. 85, p. 032008, 2012
- 543) R. Aaij *et al.*, "First observation of the decay $B_s^0 \rightarrow K^{*0} \bar{K}^{*0}$," *Phys. Lett. B*, vol. 709, pp. 50–58, 2012
- 544) R. Aaij *et al.*, "First observation of the decay $\bar{B}_s^0 \rightarrow D^0 K^{*0}$ and a measurement of the ratio of branching fractions $\frac{\mathcal{B}(\bar{B}_s^0 \rightarrow D^0 K^{*0})}{\mathcal{B}(\bar{B}^0 \rightarrow D^0 \rho^0)}$," *Phys. Lett. B*, vol. 706, pp. 32–39, 2011
- 545) R. Aaij *et al.*, "Absolute luminosity measurements with the LHCb detector at the LHC," *JINST*, vol. 7, p. P01010, 2012
- 546) R. Aaij *et al.*, "Search for the lepton number violating decays $B^+ \rightarrow \pi^- \mu^+ \mu^+$ and $B^+ \rightarrow K^- \mu^+ \mu^+$," *Phys. Rev. Lett.*, vol. 108, p. 101601, 2012
- 547) R. Aaij *et al.*, "Search for CP violation in $D^+ \rightarrow K^- K^+ \pi^+$ decays," *Phys. Rev. D*, vol. 84, p. 112008, 2011
- 548) R. Aaij *et al.*, "Measurements of the Branching fractions for $B_{(s)} \rightarrow D_{(s)} \pi \pi \pi$ and $\Lambda_b^0 \rightarrow \Lambda_c^+ \pi \pi \pi$," *Phys. Rev. D*, vol. 84, p. 092001, 2011. [Erratum: *Phys.Rev.D* 85, 039904 (2012)]
- 549) R. Aaij *et al.*, "Observation of J/ψ pair production in pp collisions at $\sqrt{s} = 7$ TeV," *Phys. Lett. B*, vol. 707, pp. 52–59, 2012
- 550) R. Aaij *et al.*, "Measurement of the inclusive ϕ cross-section in pp collisions at $\sqrt{s} = 7$ TeV," *Phys. Lett. B*, vol. 703, pp. 267–273, 2011
- 551) R. Aaij *et al.*, "Measurement of V^0 production ratios in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV," *JHEP*, vol. 08, p. 034, 2011
- 552) R. Aaij *et al.*, "Determination of f_s/f_d for 7 TeV pp collisions and a measurement of the branching fraction of the decay $B_d \rightarrow D^- K^+$," *Phys. Rev. Lett.*, vol. 107, p. 211801, 2011
- 553) R. Aaij *et al.*, "Search for the rare decays $B_s^0 \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$," *Phys. Lett. B*, vol. 699, pp. 330–340, 2011
- 554) R. Aaij *et al.*, "Measurement of J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV," *Eur. Phys. J. C*, vol. 71, p. 1645, 2011
- 555) R. Aaij *et al.*, "First observation of $\bar{B}_s^0 \rightarrow D_s^{*+} X \mu^- \bar{\nu}$ decays," *Phys. Lett. B*, vol. 698, pp. 14–20, 2011
- 556) R. Aaij *et al.*, "First observation of $B_s^0 \rightarrow J/\psi f_0(980)$ decays," *Phys. Lett. B*, vol. 698, pp. 115–122, 2011
- 557) R. Aaij *et al.*, "Measurement of $\sigma(pp \rightarrow bbX)$ at $\sqrt{s} = 7$ TeV in the forward region," *Phys. Lett. B*, vol. 694, pp. 209–216, 2010
- 558) R. Aaij *et al.*, "Prompt K_s^0 production in pp collisions at $\sqrt{s} = 0.9$ TeV," *Phys. Lett. B*, vol. 693, pp. 69–80, 2010

Detector Papers, R&D and Technical notes (17)

- 1) P. Kopciwicz *et al.*, "The upgrade I of LHCb VELO—towards an intelligent monitoring platform," *JINST*, vol. 15, no. 06, p. C06009, 2020
- 2) A. F. Prieto *et al.*, "Phase I Upgrade of the Readout System of the Vertex Detector at the LHCb Experiment," *IEEE Trans. Nucl. Sci.*, vol. 67, no. 4, pp. 732–739, 2020
- 3) K. Akiba *et al.*, "Radiation Damage Effects and Operation of the LHCb Vertex Locator," *IEEE Trans. Nucl. Sci.*, vol. 65, no. 5, pp. 1127–1132, 2018
- 4) M. Alexander *et al.*, "Mapping the material in the LHCb vertex locator using secondary hadronic interactions," *JINST*, vol. 13, no. 06, p. P06008, 2018
- 5) R. Aaij *et al.*, "Performance of the LHCb Vertex Locator," *JINST*, vol. 9, p. P09007, 2014
- 6) A. Affolder *et al.*, "Radiation damage in the LHCb Vertex Locator," *JINST*, vol. 8, p. P08002, 2013
- 7) I. Bediaga *et al.*, "Framework TDR for the LHCb Upgrade: Technical Design Report," 4 2012
- 8) P. Collins *et al.*, "The LHCb VELO upgrade," *Nucl. Instrum. Meth. A*, vol. 636, pp. S185–S193, 2011
- 9) S. Borghi *et al.*, "First spatial alignment of the LHCb VELO and analysis of beam absorber collision data," *Nucl. Instrum. Meth. A*, vol. 618, pp. 108–120, 2010
- 10) M. Whitley, "VELO module production: Front end bonding," 10 2007
- 11) M. Wormald, "VELO module production: Sensor end bonding," 10 2007
- 12) M. Whitley, "VELO module production: Back end bonding," 10 2007
- 13) J. Carroll, "VELO module production: Hybrid to pedestal matching," 9 2007
- 14) P. R. Turner, "VELO module production: Pitch adaptor testing," 9 2007
- 15) N. A. Smith, "VELO module production: Cable and clamp attachment," 9 2007
- 16) M. Lockwood, "VELO module production: Clean room layout, procedures and monitoring," 9 2007
- 17) T. Huse, "VELO module production: Sensor to sensor metrology," 9 2007
- 18) P. R. Turner, "VELO module production: Sensor testing," 9 2007
- 19) G. Southern, "VELO module production: Cable testing," 9 2007
- 20) P. R. Turner, "VELO module production: Bare hybrid metrology," 9 2007

- 21) A. Affolder, T. J. V. Bowcock, J. L. Carroll, G. Casse, T. Huse, G. D. Patel, K. Rinnert, N. A. Smith, and P. R. Turner, "LHCb-VELO module production with n-side read-out on n- and p-type silicon substrates," *Nucl. Instrum. Meth. A*, vol. 583, pp. 18–22, 2007
- 22) T. J. V. Bowcock, "Vertex reconstruction and tracking in the trigger in LHCb," *PoS*, vol. VERTEX2007, p. 032, 2007

MUONS AND EDMS(9)

- 1) T. Albahri *et al.*, "Beam dynamics corrections to the Run-1 measurement of the muon anomalous magnetic moment at Fermilab," 4 2021
- 2) B. Abi *et al.*, "Measurement of the Positive Muon Anomalous Magnetic Moment to 0.46 ppm," *Phys. Rev. Lett.*, vol. 126, no. 14, p. 141801, 2021
- 3) T. Albahri *et al.*, "Magnetic Field Measurement and Analysis for the Muon g-2 Experiment at Fermilab," *Phys. Rev. A*, vol. 103, no. 4, p. 042208, 2021
- 4) T. Albahri *et al.*, "Measurement of the anomalous precession frequency of the muon in the Fermilab Muon g-2 Experiment," *Phys. Rev. D*, vol. 103, no. 7, p. 072002, 2021
- 5) A. Adelmann *et al.*, "Search for a muon EDM using the frozen-spin technique," *arXiv:2102.08838*
- 6) T. Bowcock, "The Fermilab g-2 experiment," *PoS*, vol. FPCP2016, p. 019, 2017
- 7) I. Logashenko *et al.*, "The Measurement of the Anomalous Magnetic Moment of the Muon at Fermilab," *J. Phys. Chem. Ref. Data*, vol. 44, no. 3, p. 031211, 2015
- 8) V. Anastassopoulos *et al.*, "A Storage Ring Experiment to Detect a Proton Electric Dipole Moment," *Rev. Sci. Instrum.*, vol. 87, no. 11, p. 115116, 2016
- 9) J. Grange *et al.*, "Muon (g-2) Technical Design Report," 1 2015

DELPHI

Refereed Journal Papers (345)

- 1) J. Abdallah *et al.*, "A study of the b-quark fragmentation function with the DELPHI detector at LEP I and an averaged distribution obtained at the Z Pole," *Eur. Phys. J. C*, vol. 71, p. 1557, 2011
- 2) J. Abdallah *et al.*, "Search for single top quark production via contact interactions at LEP2," *Eur. Phys. J. C*, vol. 71, p. 1555, 2011
- 3) J. Abdallah *et al.*, "Study of the Dependence of Direct Soft Photon Production on the Jet Characteristics in Hadronic Z^0 Decays," *Eur. Phys. J. C*, vol. 67, pp. 343–366, 2010
- 4) J. Abdallah *et al.*, "Measurements of CP-conserving Trilinear Gauge Boson Couplings WWV (V = gamma,Z) in e+e- Collisions at LEP2," *Eur. Phys. J. C*, vol. 66, pp. 35–56, 2010
- 5) B. Adeva *et al.*, "Roadmap for selected key measurements of LHCb," 12 2009
- 6) C. Parkes *et al.*, "First LHC beam induced tracks reconstructed in the LHCb VELO," *Nucl. Instrum. Meth. A*, vol. 604, no. 1-2, pp. 1–4, 2009
- 7) J. Abdallah *et al.*, "Inclusive single-particle production in two-photon collisions at LEP II with the DELPHI detector," *Phys. Lett. B*, vol. 678, pp. 444–449, 2009
- 8) J. Abdallah *et al.*, "Correlations between Polarisation States of W Particles in the Reaction e+ e- -> W- W+ at LEP2 Energies 189-GeV - 209-GeV," *Eur. Phys. J. C*, vol. 63, pp. 611–623, 2009
- 9) J. Abdallah *et al.*, "A Study of b anti-b Production in e+e- Collisions at s**(1/2) = 130-GeV - 207-GeV," *Eur. Phys. J. C*, vol. 60, pp. 1–15, 2009
- 10) A. A. Alves, Jr. *et al.*, "The LHCb Detector at the LHC," *JINST*, vol. 3, p. S08005, 2008
- 11) J. Abdallah *et al.*, "Search for one large extra dimension with the DELPHI detector at LEP," *Eur. Phys. J. C*, vol. 60, pp. 17–23, 2009
- 12) J. Abdallah *et al.*, "Di-jet production in gamma gamma collisions at LEP2," *Eur. Phys. J. C*, vol. 58, pp. 531–541, 2008
- 13) J. Abdallah *et al.*, "Study of b-quark mass effects in multijet topologies with the DELPHI detector at LEP," *Eur. Phys. J. C*, vol. 55, pp. 525–538, 2008
- 14) J. Abdallah *et al.*, "Measurement of the Mass and Width of the W Boson in e+e- Collisions at sqrt(s) = 161-GeV - 209-GeV," *Eur. Phys. J. C*, vol. 55, pp. 1–38, 2008
- 15) F. H. Ruddell *et al.*, "Fabrication and characterization of high resistivity SOI substrates for monolithic high energy physics detectors," *Solid State Electron.*, vol. 52, pp. 1849–1853, 2008
- 16) J. Abdallah *et al.*, "Study of W boson polarisations and Triple Gauge boson Couplings in the reaction e+e- -> W+W- at LEP 2," *Eur. Phys. J. C*, vol. 54, pp. 345–364, 2008
- 17) T. W. Versloot *et al.*, "Position reconstruction and charge distribution in LHCb velo silicon sensors," 11 2007
- 18) J. Abdallah *et al.*, "Search for Pentaquarks in the Hadronic Decays of the Z Boson with the DELPHI Detector at LEP," *Phys. Lett. B*, vol. 653, pp. 151–160, 2007
- 19) J. Abdallah *et al.*, "Higgs boson searches in CP-conserving and CP-violating MSSM scenarios with the DELPHI detector," *Eur. Phys. J. C*, vol. 54, pp. 1–35, 2008. [Erratum: *Eur.Phys.J.C* 56, 165–170 (2008)]
- 20) J. Abdallah *et al.*, "Z gamma* production in e+e- interactions at s**(1/2) = 183 - 209-GeV," *Eur. Phys. J. C*, vol. 51, pp. 503–523, 2007
- 21) J. Abdallah *et al.*, "Study of multi-muon bundles in cosmic ray showers detected with the DELPHI detector at LEP," *Astropart. Phys.*, vol. 28, pp. 273–286, 2007
- 22) J. Abdallah *et al.*, "Observation of the Muon Inner Bremsstrahlung at LEP1," *Eur. Phys. J. C*, vol. 57, pp. 499–514, 2008
- 23) J. Abdallah *et al.*, "Measurement of the Tau Lepton Polarisation at LEP2," *Phys. Lett. B*, vol. 659, pp. 65–73, 2008
- 24) J. Abdallah *et al.*, "Study of triple-gauge-boson couplings ZZZ, ZZgamma and Zgamma gamma LEP," *Eur. Phys. J. C*, vol. 51, pp. 525–542, 2007
- 25) P. Balbuena *et al.*, "RD50 status report 2006: Radiation hard semiconductor devices for very high luminosity colliders," 1 2007
- 26) J. Abdallah *et al.*, "Investigation of colour reconnection in WW events with the DELPHI detector at LEP-2," *Eur. Phys. J. C*, vol. 51, pp. 249–269, 2007
- 27) J. Abdallah *et al.*, "Search for a fourth generation b'-quark at LEP-II at sqrt(s) = 196-GeV - 209-GeV," *Eur. Phys. J. C*, vol. 50, pp. 507–518, 2007
- 28) J. Abdallah *et al.*, "Study of Leading Hadrons in Gluon and Quark Fragmentation," *Phys. Lett. B*, vol. 643, pp. 147–157, 2006
- 29) J. Abdallah *et al.*, "Masses, Lifetimes and Production Rates of Xi- and anti-Xi+ at LEP 1," *Phys. Lett. B*, vol. 639, pp. 179–191, 2006
- 30) J. Abdallah *et al.*, "A Determination of the centre-of-mass energy at LEP2 using radiative 2-fermion events," *Eur. Phys. J. C*, vol. 46, pp. 295–305, 2006
- 31) S. Schael *et al.*, "Search for neutral MSSM Higgs bosons at LEP," *Eur. Phys. J. C*, vol. 47, pp. 547–587, 2006
- 32) F. Campabadal *et al.*, "RD50 status report 2005: Radiation hard semiconductor devices for very high luminosity colliders," 12 2005
- 33) J. Abdallah *et al.*, "Evidence for an excess of soft photons in hadronic decays of Z0," *Eur. Phys. J. C*, vol. 47,

- pp. 273–294, 2006
- 34) J. Abdallah *et al.*, “Measurement and interpretation of fermion-pair production at LEP energies above the Z resonance,” *Eur. Phys. J. C*, vol. 45, pp. 589–632, 2006
 - 35) J. Abdallah *et al.*, “Production of $\Xi_0(c)$ and $\Xi(b)$ in Z decays and lifetime measurement of $X(b)$,” *Eur. Phys. J. C*, vol. 44, pp. 299–309, 2005
 - 36) S. Schael *et al.*, “Precision electroweak measurements on the Z resonance,” *Phys. Rept.*, vol. 427, pp. 257–454, 2006
 - 37) J. Abdallah *et al.*, “Study of double-tagged gamma gamma events at LEP II,” *Eur. Phys. J. C*, vol. 46, pp. 559–568, 2006
 - 38) J. Abdallah *et al.*, “Charged particle multiplicity in three-jet events and two-gluon systems,” *Eur. Phys. J. C*, vol. 44, pp. 311–331, 2005
 - 39) J. Abdallah *et al.*, “Single intermediate vector boson production in e+e- collisions at $s^{**}(1/2) = 183\text{-GeV}$ to 209-GeV ,” *Eur. Phys. J. C*, vol. 45, pp. 273–289, 2006
 - 40) J. Abdallah *et al.*, “Determination of the b quark mass at the M(Z) scale with the DELPHI detector at LEP,” *Eur. Phys. J. C*, vol. 46, pp. 569–583, 2006
 - 41) J. Abdallah *et al.*, “Determination of heavy quark non-perturbative parameters from spectral moments in semileptonic B decays,” *Eur. Phys. J. C*, vol. 45, pp. 35–59, 2006
 - 42) M. Bruzzi *et al.*, “Radiation-hard semiconductor detectors for SuperLHC,” *Nucl. Instrum. Meth. A*, vol. 541, pp. 189–201, 2005
 - 43) E. Fretwurst *et al.*, “Recent advancements in the development of radiation hard semiconductor detectors for S-LHC,” *Nucl. Instrum. Meth. A*, vol. 552, pp. 7–19, 2005
 - 44) J. Abdallah *et al.*, “Determination of $A^{**b}(\text{FB})$ at the Z pole using inclusive charge reconstruction and lifetime tagging,” *Eur. Phys. J. C*, vol. 40, pp. 1–25, 2005
 - 45) J. Abdallah *et al.*, “Bose-Einstein correlations in W+ W- events at LEP2,” *Eur. Phys. J. C*, vol. 44, pp. 161–174, 2005
 - 46) J. Abdallah *et al.*, “Search for excited leptons in e+ e- collisions at $s^{**}(1/2) = 189\text{-GeV}$ to 209-GeV ,” *Eur. Phys. J. C*, vol. 46, pp. 277–293, 2006
 - 47) J. Abdallah *et al.*, “Flavour independent searches for hadronically decaying neutral Higgs bosons,” *Eur. Phys. J. C*, vol. 44, pp. 147–159, 2005
 - 48) J. Abdallah *et al.*, “Searches for neutral higgs bosons in extended models,” *Eur. Phys. J. C*, vol. 38, pp. 1–28, 2004
 - 49) J. Abdallah *et al.*, “Coherent soft particle production in Z decays into three jets,” *Phys. Lett. B*, vol. 605, pp. 37–48, 2005
 - 50) J. Abdallah *et al.*, “Determination of the e+ e- \rightarrow gamma gamma (gamma) cross-section at LEP 2,” *Eur. Phys. J. C*, vol. 37, pp. 405–419, 2004
 - 51) J. Abdallah *et al.*, “Measurement of the energy dependence of hadronic jet rates and the strong coupling $\alpha(s)$ from the four-jet rate with the DELPHI detector at LEP,” *Eur. Phys. J. C*, vol. 38, pp. 413–426, 2005
 - 52) J. Abdallah *et al.*, “The Measurement of $\alpha(s)$ from event shapes with the DELPHI detector at the highest LEP energies,” *Eur. Phys. J. C*, vol. 37, pp. 1–23, 2004
 - 53) J. Abdallah *et al.*, “Measurement of $|V(\text{cb})|$ using the semileptonic decay $\text{anti-B}_0(\text{d}) \rightarrow \text{D}^{*+} \text{l}^- \text{anti-}\nu(\text{l})$,” *Eur. Phys. J. C*, vol. 33, pp. 213–232, 2004
 - 54) T. J. V. Bowcock and J. Carroll, “LHCb VELO Module Design,” 12 2003
 - 55) J. Abdallah *et al.*, “A Measurement of the tau hadronic branching ratios,” *Eur. Phys. J. C*, vol. 46, pp. 1–26, 2006
 - 56) J. Abdallah *et al.*, “Search for fermiophobic Higgs bosons in final states with photons at LEP 2,” *Eur. Phys. J. C*, vol. 35, pp. 313–324, 2004
 - 57) J. Abdallah *et al.*, “Photon events with missing energy in e+ e- collisions at $s^{**}(1/2) = 130\text{-GeV}$ to 209-GeV ,” *Eur. Phys. J. C*, vol. 38, pp. 395–411, 2005
 - 58) J. Abdallah *et al.*, “Measurement of the W pair production cross-section and W branching ratios in e+ e- collisions at $s^{**}(1/2) = 161\text{-GeV}$ to 209-GeV ,” *Eur. Phys. J. C*, vol. 34, pp. 127–144, 2004
 - 59) J. Abdallah *et al.*, “Search for $B_s^0\text{-}\overline{B}_s^0$ oscillations in DELPHI using high- p_t leptons,” *Eur. Phys. J. C*, vol. 35, pp. 35–52, 2004
 - 60) J. Abdallah *et al.*, “Measurement of the forward backward asymmetries of e+ e- \rightarrow Z \rightarrow b anti-b and e+ e- \rightarrow Z \rightarrow c anti-c using prompt leptons,” *Eur. Phys. J. C*, vol. 34, pp. 109–125, 2004
 - 61) J. Abdallah *et al.*, “Search for charged Higgs bosons at LEP in general two Higgs doublet models,” *Eur. Phys. J. C*, vol. 34, pp. 399–418, 2004
 - 62) J. Abdallah *et al.*, “Search for single top production via FCNC at LEP at $\sqrt{s} = 189\text{-GeV}$ to 208-GeV ,” *Phys. Lett. B*, vol. 590, pp. 21–34, 2004
 - 63) J. Abdallah *et al.*, “Search for supersymmetric particles assuming R-parity nonconservation in e+ e- collisions at $s^{**}(1/2) = 192\text{-GeV}$ to 208-GeV ,” *Eur. Phys. J. C*, vol. 36, no. 1, pp. 1–23, 2004. [Erratum: *Eur.Phys.J.C* 37, 129–131 (2004)]
 - 64) J. Abdallah *et al.*, “Study of tau-pair production in photon-photon collisions at LEP and limits on the anomalous electromagnetic moments of the tau lepton,” *Eur. Phys. J. C*, vol. 35, pp. 159–170, 2004
 - 65) J. Abdallah *et al.*, “Measurement of the e+ e- \rightarrow W+ W- gamma cross-section and limits on anomalous quartic gauge couplings with DELPHI,” *Eur. Phys. J. C*, vol. 31, pp. 139–147, 2003
 - 66) J. Abdallah *et al.*, “Searches for supersymmetric particles in e+ e- collisions up to 208-GeV and interpretation of the results within the MSSM,” *Eur. Phys. J. C*, vol. 31, pp. 421–479, 2003
 - 67) J. Abdallah *et al.*, “Search for SUSY in the AMSB scenario with the DELPHI detector,” *Eur. Phys. J. C*, vol. 34, pp. 145–156, 2004
 - 68) J. Abdallah *et al.*, “A Precise measurement of the tau lifetime,” *Eur. Phys. J. C*, vol. 36, pp. 283–296, 2004
 - 69) J. Abdallah *et al.*, “Searches for invisibly decaying Higgs bosons with the DELPHI detector at LEP,” *Eur. Phys. J. C*, vol. 32, pp. 475–492, 2004
 - 70) J. Abdallah *et al.*, “A Precise measurement of the B^+ , B^0 and mean b hadron lifetime with the DELPHI detector at LEP1,” *Eur. Phys. J. C*, vol. 33, pp. 307–324, 2004
 - 71) J. Abdallah *et al.*, “The Eta(c)(2980) formation in two photon collisions at LEP energies,” *Eur. Phys. J. C*, vol. 31, pp. 481–489, 2003
 - 72) P. P. Allport, T. J. V. Bowcock, G. Casse, A. Greenall, J. N. Jackson, S. Marti i Garcia, and P. R. Turner, “Charge collection efficiency studies with irradiated silicon detectors,” *Nucl. Instrum. Meth. A*, vol. 501, pp. 146–152, 2003
 - 73) J. Abdallah *et al.*, “Study of inclusive J / psi production in two photon collisions at LEP-2 with the DELPHI detector,” *Phys. Lett. B*, vol. 565, pp. 76–86, 2003
 - 74) J. Abdallah *et al.*, “A Measurement of the branching fractions of the b quark into charged and neutral b hadrons,” *Phys. Lett. B*, vol. 576, pp. 29–42, 2003
 - 75) J. Abdallah *et al.*, “Measurement of the Lambda0(b) decay form-factor,” *Phys. Lett. B*, vol. 585, pp. 63–84, 2004
 - 76) J. Abdallah *et al.*, “Measurement of inclusive f(1)(1285) and f(1)(1420) production in Z decays with the DELPHI detector,” *Phys. Lett. B*, vol. 569, pp. 129–139, 2003
 - 77) R. Barate *et al.*, “Search for the standard model Higgs boson at LEP,” *Phys. Lett. B*, vol. 565, pp. 61–75, 2003
 - 78) J. Abdallah *et al.*, “A Study of the energy evolution

- of event shape distributions and their means with the DELPHI detector at LEP,” *Eur. Phys. J. C*, vol. 29, pp. 285–312, 2003
- 79) J. Abdallah *et al.*, “ZZ production in e^+e^- interactions at $s^{**}(1/2) = 183\text{-GeV}$ to 209-GeV ,” *Eur. Phys. J. C*, vol. 30, pp. 447–466, 2003
- 80) J. Abdallah *et al.*, “Final results from DELPHI on the searches for SM and MSSM neutral Higgs bosons,” *Eur. Phys. J. C*, vol. 32, pp. 145–183, 2004
- 81) J. Abdallah *et al.*, “Search for resonant $\tilde{\nu}$ production at $\sqrt{s} = 183$ to 208 GeV,” *Eur. Phys. J. C*, vol. 28, pp. 15–26, 2003
- 82) J. Abdallah *et al.*, “Inclusive b decays to wrong sign charmed mesons,” *Phys. Lett. B*, vol. 561, pp. 26–40, 2003
- 83) J. Abdallah *et al.*, “Search for supersymmetric particles in light gravitino scenarios and sleptons NLSP,” *Eur. Phys. J. C*, vol. 27, pp. 153–172, 2003
- 84) J. Abdallah *et al.*, “Search for $B(s)0$ - anti- $B(s)0$ oscillations and a measurement of $B(d)0$ - anti- $B(d)0$ oscillations using events with an inclusively reconstructed vertex,” *Eur. Phys. J. C*, vol. 28, pp. 155–173, 2003
- 85) J. Abdallah *et al.*, “b tagging in DELPHI at LEP,” *Eur. Phys. J. C*, vol. 32, pp. 185–208, 2004
- 86) J. Abdallah *et al.*, “Search for doubly charged Higgs bosons at LEP-2,” *Phys. Lett. B*, vol. 552, pp. 127–137, 2003
- 87) J. Abdallah *et al.*, “Search for an LSP gluino at LEP with the DELPHI detector,” *Eur. Phys. J. C*, vol. 26, pp. 505–525, 2003
- 88) T. Bowcock *et al.*, “Performance of an irradiated LHCb prototype p-on-n silicon microstrip detector,” *Nucl. Instrum. Meth. A*, vol. 478, pp. 291–295, 2002
- 89) J. Abdallah *et al.*, “Rapidity alignment and p(T) compensation of particle pairs in hadronic $Z0$ decays,” *Phys. Lett. B*, vol. 533, pp. 243–252, 2002
- 90) P. R. Barbosa-Marinho *et al.*, “LHCb online system technical design report: Data acquisition and experiment control,” 12 2001
- 91) J. Abdallah *et al.*, “Searches for neutral Higgs bosons in e^+e^- collisions from $s^{**}(1/2) = 191.6\text{-GeV}$ to 201.7-GeV ,” *Eur. Phys. J. C*, vol. 23, pp. 409–435, 2002
- 92) C. Parkes, T. Bowcock, P. Collins, and K. Österberg, “A study of the surface curvature of VELO prototype sensors,” 9 2001
- 93) J. Abdallah *et al.*, “Search for technicolor with DELPHI,” *Eur. Phys. J. C*, vol. 22, pp. 17–29, 2001
- 94) J. Abdallah *et al.*, “Search for charged Higgs bosons in e^+e^- collisions at $s^{**}(1/2) = 189\text{-GeV}$ - 202-GeV ,” *Phys. Lett. B*, vol. 525, pp. 17–28, 2002
- 95) T. J. V. Bowcock and G. Casse, “Operating conditions for the VELO silicon,” 7 2001
- 96) G. Casse, S. F. Biagi, T. J. V. Bowcock, A. Greenall, J. Phillips, P. Turner, and V. Wright, “Characterisation of an inhomogeneously irradiated microstrip detector using a fine spot infrared laser,” 7 2001
- 97) T. J. V. Bowcock, J. Carroll, and A. Muir, “LHCb VELO module design and first tests of mechanical alignment,” 7 2001
- 98) T. J. V. Bowcock, J. Carroll, and P. Sutcliffe, “Simulation and measurement of the thermal performance of a prototype LHCb VELO module,” 7 2001
- 99) T. J. V. Bowcock *et al.*, “Performance of an irradiated p-on-n micro prototype VELO detector,” 5 2001
- 100) T. J. V. Bowcock *et al.*, “Performance of an irradiated n-on-n Hamamatsu prototype VELO detector,” 5 2001
- 101) P. Abreu *et al.*, “Single intermediate vector boson production in e^+e^- collisions at $s^{**}(1/2) = 183\text{-GeV}$ and 189-GeV ,” *Phys. Lett. B*, vol. 515, pp. 238–254, 2001
- 102) P. Abreu *et al.*, “A Measurement of the tau topological branching ratios,” *Eur. Phys. J. C*, vol. 20, pp. 617–637, 2001
- 103) P. Abreu *et al.*, “Measurement of the semileptonic b branching fractions and average b mixing parameter in Z decays,” *Eur. Phys. J. C*, vol. 20, pp. 455–478, 2001
- 104) P. Abreu *et al.*, “Measurement of the mass and width of the W boson in e^+e^- collisions at $\sqrt{s} = 189\text{-GeV}$,” *Phys. Lett. B*, vol. 511, pp. 159–177, 2001
- 105) P. Abreu *et al.*, “Search for a fermiophobic Higgs at LEP-2,” *Phys. Lett. B*, vol. 507, pp. 89–103, 2001
- 106) P. Abreu *et al.*, “Update of the search for supersymmetric particles in scenarios with gravitino LSP and sleptons NLSP,” *Phys. Lett. B*, vol. 503, pp. 34–48, 2001
- 107) P. P. Allport *et al.*, “Radiation hardness of oxygenated microstrip detectors read out with LHC speed electronics,” *IEEE Trans. Nucl. Sci.*, vol. 48, pp. 1007–1011, 2001
- 108) P. Abreu *et al.*, “Measurement of $V(cb)$ from the decay process anti- $B0 \rightarrow D^{*+}$ lepton- anti-neutrino,” *Phys. Lett. B*, vol. 510, pp. 55–74, 2001
- 109) P. Abreu *et al.*, “Measurement of trilinear gauge boson couplings WWV , ($V \equiv Z, \gamma$) in e^+e^- collisions at 189-GeV ,” *Phys. Lett. B*, vol. 502, pp. 9–23, 2001
- 110) P. Abreu *et al.*, “Search for the standard model Higgs boson at LEP in the year 2000,” *Phys. Lett. B*, vol. 499, pp. 23–37, 2001
- 111) T. J. V. Bowcock *et al.*, “VELO geometry optimisation,” 10 2000
- 112) P. Abreu *et al.*, “Search for sleptons in e^+e^- collisions at $s^{**}(1/2) = 183\text{-GeV}$ to 189-GeV ,” *Eur. Phys. J. C*, vol. 19, pp. 29–42, 2001
- 113) P. Abreu *et al.*, “Search for the sgoldstino at $s^{**}(1/2)$ from 189-GeV to 202-GeV ,” *Phys. Lett. B*, vol. 494, pp. 203–214, 2000
- 114) P. Abreu *et al.*, “Search for R-parity violation with a anti-U anti-D anti-D coupling at $x^{**}(1/2) = 189\text{-GeV}$,” *Phys. Lett. B*, vol. 500, pp. 22–36, 2001
- 115) P. Abreu *et al.*, “Search for spontaneous R-parity violation at $s^{**}(1/2) = 183\text{-GeV}$ and 189-GeV ,” *Phys. Lett. B*, vol. 502, pp. 24–36, 2001
- 116) T. J. V. Bowcock *et al.*, “Measurement of Trilinear Gauge Boson Couplings WWV ($V \equiv Z, \gamma$) in e^+e^- Collisions at 189 GeV,” 7 2000
- 117) T. J. V. Bowcock *et al.*, “Measurement of Trilinear Gauge Boson couplings in e^+e^- Collisions at 192 - 202 GeV,” 7 2000
- 118) P. Abreu *et al.*, “Determination of the $e^+e^- \rightarrow \gamma\gamma$ cross-section at centre-of-mass energies ranging from 189-GeV to 202-GeV ,” *Phys. Lett. B*, vol. 491, pp. 67–80, 2000
- 119) P. Abreu *et al.*, “Search for neutralino pair production at $s^{**}(1/2) = 189\text{-GeV}$,” *Eur. Phys. J. C*, vol. 19, pp. 201–212, 2001
- 120) P. Abreu *et al.*, “Search for supersymmetric partners of top and bottom quarks at $s^{**}(1/2) = 189\text{-GeV}$,” *Phys. Lett. B*, vol. 496, pp. 59–75, 2000
- 121) P. Abreu *et al.*, “Measurement of the Z Z cross-section in e^+e^- interactions at 183-GeV - 189-GeV ,” *Phys. Lett. B*, vol. 497, pp. 199–213, 2001
- 122) P. Abreu *et al.*, “Limits on the masses of supersymmetric particles at $s^{**}(1/2) = 189\text{-GeV}$,” *Phys. Lett. B*, vol. 489, pp. 38–54, 2000
- 123) P. Abreu *et al.*, “Rapidity-rank structure of p anti-p pairs in hadronic $Z0$ decays,” *Phys. Lett. B*, vol. 490, pp. 61–70, 2000
- 124) P. Abreu *et al.*, “Search for SUSY with R-parity violating LL anti-E couplings at $s^{**}(1/2) = 189\text{-GeV}$,” *Phys. Lett. B*, vol. 487, pp. 36–52, 2000
- 125) P. Abreu *et al.*, “A search for invisible Higgs bosons produced in e^+e^- interactions up to $s^{**}(1/2) = 189\text{-GeV}$,”

- 4 2000
- 126) T. J. V. Bowcock *et al.*, “Measurement of Trilinear Gauge Boson Couplings in e+e- Collisions at 192 to 202 GeV,” 3 2000
- 127) P. Abreu *et al.*, “Searches for neutral Higgs bosons in e+ e- collisions around $s^{**}(1/2) = 189\text{-GeV}$,” *Eur. Phys. J. C*, vol. 17, pp. 187–205, 2000. [Addendum: *Eur.Phys.J.C* 17, 549–551 (2000)]
- 128) P. Abreu *et al.*, “Study of B0(S) anti-B0(S) oscillations and B0(S) lifetimes using hadronic decays of B0(S) mesons,” *Eur. Phys. J. C*, vol. 18, pp. 229–252, 2000
- 129) P. Abreu *et al.*, “Measurement and interpretation of fermion-pair production at LEP energies of 183-GeV and 189-GeV,” *Phys. Lett. B*, vol. 485, pp. 45–61, 2000
- 130) P. Abreu *et al.*, “W pair production cross-section and W branching fractions in e+ e- interactions at 189-GeV,” *Phys. Lett. B*, vol. 479, pp. 89–100, 2000
- 131) P. Abreu *et al.*, “Update of the search for charginos nearly mass-degenerate with the lightest neutralino,” *Phys. Lett. B*, vol. 485, pp. 95–106, 2000
- 132) P. Abreu *et al.*, “Charged and identified particles in the hadronic decay of W bosons and in e+ e- \rightarrow q anti-q from 130-GeV to 200-GeV,” *Eur. Phys. J. C*, vol. 18, pp. 203–228, 2000. [Erratum: *Eur.Phys.J.C* 25, 493 (2002)]
- 133) P. Abreu *et al.*, “Determination of $|V(ub)| / |V(cb)|$ with DELPHI at LEP,” *Phys. Lett. B*, vol. 478, pp. 14–30, 2000
- 134) P. Abreu *et al.*, “A Study of the Lorentz structure in tau decays,” *Eur. Phys. J. C*, vol. 16, pp. 229–252, 2000
- 135) P. Abreu *et al.*, “Measurement of the B_s^0 lifetime and study of $B_s^0 - \bar{B}_s^0$ oscillations using $D_s \ell$ events,” *Eur. Phys. J. C*, vol. 16, p. 555, 2000
- 136) P. Abreu *et al.*, “Study of dimuon production in photon-photon collisions and measurement of QED photon structure functions at LEP,” *Eur. Phys. J. C*, vol. 19, pp. 15–28, 2001
- 137) P. Abreu *et al.*, “Cross-sections and leptonic forward backward asymmetries from the Z0 running of LEP,” *Eur. Phys. J. C*, vol. 16, pp. 371–405, 2000
- 138) P. Abreu *et al.*, “Search for heavy stable and longlived particles in e+ e- collisions at $s^{**}(1/2) = 189\text{-GeV}$,” *Phys. Lett. B*, vol. 478, pp. 65–72, 2000
- 139) P. Abreu *et al.*, “Search for charginos in e+ e- interactions at $S^{**}(1/2) = 189\text{-GeV}$,” *Phys. Lett. B*, vol. 479, pp. 129–143, 2000
- 140) P. Abreu *et al.*, “Photon events with missing energy at $s^{**}(1/2) = 183\text{-GeV}$ to 189-GeV,” *Eur. Phys. J. C*, vol. 17, pp. 53–65, 2000
- 141) P. Abreu *et al.*, “Inclusive Sigma- and Lambda(1520) production in hadronic Z decays,” *Phys. Lett. B*, vol. 475, pp. 429–447, 2000
- 142) P. Abreu *et al.*, “Search for supersymmetric particles in scenarios with a gravitino LSP and stau NLSP,” *Eur. Phys. J. C*, vol. 16, pp. 211–228, 2000
- 143) P. Abreu *et al.*, “Consistent measurements of alpha(s) from precise oriented event shape distributions,” *Eur. Phys. J. C*, vol. 14, pp. 557–584, 2000
- 144) P. Abreu *et al.*, “Hadronization properties of b quarks compared to light quarks in $e^+ e^- \rightarrow \bar{q}q$ from 183-GeV to 200-GeV,” *Phys. Lett. B*, vol. 479, pp. 118–128, 2000. [Erratum: *Phys.Lett.B* 492, 398–398 (2000)]
- 145) P. Abreu *et al.*, “Identified charged particles in quark and gluon jets,” *Eur. Phys. J. C*, vol. 17, pp. 207–222, 2000
- 146) P. Abreu *et al.*, “Measurement of the $\bar{B} \rightarrow D^{(*)}\pi l \bar{\nu}_l$ Branching Fraction,” *Phys. Lett. B*, vol. 475, pp. 407–428, 2000
- 147) T. Bowcock, A. Kinvig, M. McCubbin, U. Parzefall, and M. Tobin, “A g - 2 Measurement of the W boson,” 11 1999
- 148) P. Abreu *et al.*, “Two-dimensional analysis of the Bose-Einstein correlations in e+ e- annihilation at the Z0 peak,” *Phys. Lett. B*, vol. 471, pp. 460–470, 2000
- 149) P. Abreu *et al.*, “A Precise measurement of the tau polarization at LEP-1,” *Eur. Phys. J. C*, vol. 14, pp. 585–611, 2000
- 150) P. Abreu *et al.*, “Upper limit for the decay $B^- \rightarrow \tau^-$ anti-neutrino (τ) and measurement of the $b \rightarrow \tau$ anti-neutrino (τ) X branching ratio,” *Phys. Lett. B*, vol. 496, pp. 43–58, 2000
- 151) P. Abreu *et al.*, “Lambda(b) polarization in Z0 decays at LEP,” *Phys. Lett. B*, vol. 474, pp. 205–222, 2000
- 152) P. Abreu *et al.*, “Measurement of the gluon fragmentation function and a comparison of the scaling violation in gluon and quark jets,” *Eur. Phys. J. C*, vol. 13, pp. 573–589, 2000
- 153) P. Abreu *et al.*, “Measurement of the strange quark forward backward asymmetry around the Z0 peak,” *Eur. Phys. J. C*, vol. 14, pp. 613–631, 2000
- 154) P. Bartalini *et al.*, “Charge collection efficiency and resolution of an irradiated double sided silicon microstrip detector operated at cryogenic temperatures,” 7 1999
- 155) K. Borer *et al.*, “Charge collection efficiency and resolution of an irradiated double sided silicon microstrip detector operated at cryogenic temperatures,” *Nucl. Instrum. Meth. A*, vol. 440, pp. 17–37, 2000
- 156) P. Abreu *et al.*, “Search for chargino pair production in scenarios with gravitino LSP and stau NLSP at $S^{**}(1/2)$ approximately equal to 183-GeV at LEP,” *Phys. Lett. B*, vol. 466, pp. 61–70, 1999
- 157) T. J. V. Bowcock *et al.*, “Measurement of trilinear gauge boson couplings in e+ e- collisions at 189-GeV,” 6 1999
- 158) P. Abreu *et al.*, “Measurement of the mass of the W boson using direct reconstruction at $S^{**}(1/2) = 183\text{-GeV}$,” *Phys. Lett. B*, vol. 462, pp. 410–424, 1999
- 159) P. Abreu *et al.*, “Search for charged Higgs bosons at LEP-2,” *Phys. Lett. B*, vol. 460, pp. 484–497, 1999
- 160) P. Abreu *et al.*, “Measurement of the rate of b anti-b b anti-b events in hadronic Z decays and the extraction of the gluon splitting into b anti-b,” *Phys. Lett. B*, vol. 462, pp. 425–439, 1999
- 161) P. Abreu *et al.*, “Multiplicity fluctuations in one-dimensional and two-dimensional angular intervals compared with analytic QCD calculations,” *Phys. Lett. B*, vol. 457, pp. 368–382, 1999
- 162) P. Abreu *et al.*, “Determination of P(c \rightarrow D*+) and BR(c \rightarrow lepton+) at LEP-1,” *Eur. Phys. J. C*, vol. 12, pp. 209–224, 2000
- 163) P. Abreu *et al.*, “Measurements of the Z partial decay width into c anti-c and multiplicity of charm quarks per b decay,” *Eur. Phys. J. C*, vol. 12, pp. 225–241, 2000
- 164) P. Abreu *et al.*, “Measurements of the trilinear gauge boson couplings W W V (V = gamma,Z) in e+ e- collisions at 183-GeV,” *Phys. Lett. B*, vol. 459, pp. 382–396, 1999
- 165) P. Abreu *et al.*, “Search for the Higgs boson in events with isolated photons at LEP-2,” *Phys. Lett. B*, vol. 458, pp. 431–446, 1999
- 166) P. Abreu *et al.*, “Search for supersymmetry with R-parity violating L L anti-E couplings at $S^{**}(1/2) = 183\text{-GeV}$,” *Eur. Phys. J. C*, vol. 13, pp. 591–608, 2000
- 167) P. Abreu *et al.*, “A Search for invisible Higgs bosons produced in e+ e- interactions at LEP-2 energies,” *Phys. Lett. B*, vol. 459, pp. 367–381, 1999
- 168) P. Abreu *et al.*, “Energy dependence of inclusive spectra in e+ e- annihilation,” *Phys. Lett. B*, vol. 459, pp. 397–411, 1999
- 169) W. Adam *et al.*, “Search for Supersymmetry with R-parity violating decays via λ couplings at $\sqrt{s} = 183\text{ GeV}$,” 3 1999
- 170) P. Abreu *et al.*, “Energy dependence of event shapes and of alpha(s) at LEP-2,” *Phys. Lett. B*, vol. 456, pp. 322–340, 1999

- 171) P. Abreu *et al.*, “W pair production cross-section and W branching fractions in e^+e^- interactions at 183-GeV,” *Phys. Lett. B*, vol. 456, pp. 310–321, 1999
- 172) P. Abreu *et al.*, “Search for charginos nearly mass-degenerate with the lightest neutralino,” *Eur. Phys. J. C*, vol. 11, pp. 1–17, 1999
- 173) T. J. V. Bowcock *et al.*, “Measurement of trilinear gauge boson couplings WWV ($V = \gamma, Z$) in e^+e^- collisions at 189-GeV,” 3 1999
- 174) P. Abreu *et al.*, “Measurements of the leptonic branching fractions of the tau,” *Eur. Phys. J. C*, vol. 10, pp. 201–218, 1999
- 175) P. Abreu *et al.*, “Measurement of the lifetime of b - baryons,” *Eur. Phys. J. C*, vol. 10, pp. 185–199, 1999
- 176) P. Abreu *et al.*, “Measurement of the forward backward asymmetry of c and b quarks at the Z pole using reconstructed D mesons,” *Eur. Phys. J. C*, vol. 10, pp. 219–237, 1999
- 177) P. Abreu *et al.*, “Search for neutral Higgs bosons in e^+e^- collisions at $S^{**}(1/2) = 183\text{-GeV}$,” *Eur. Phys. J. C*, vol. 10, pp. 563–604, 1999
- 178) T. J. V. Bowcock and C. Parkes, “The LHCb vertex detector,” *Nucl. Instrum. Meth. A*, vol. 435, pp. 65–73, 1999
- 179) P. Abreu *et al.*, “Measurement and interpretation of fermion pair production at LEP energies from 130-GeV to 172-GeV,” *Eur. Phys. J. C*, vol. 11, pp. 383–407, 1999
- 180) P. Abreu *et al.*, “The Scale dependence of the hadron multiplicity in quark and gluon jets and a precise determination of $C(A) / C(F)$,” *Phys. Lett. B*, vol. 449, pp. 383–400, 1999
- 181) P. Abreu *et al.*, “Study of the four-jet anomaly observed at LEP center-of-mass energies of 130-GeV and 136-GeV,” *Phys. Lett. B*, vol. 448, pp. 311–319, 1999
- 182) P. Abreu *et al.*, “Measurement of inclusive $\rho_0, f(0)(980), f(2)(1270), K^*(2)(1430)$ and $f\text{-prime}(2)(1525)$ production in Z_0 decays,” *Phys. Lett. B*, vol. 449, pp. 364–382, 1999
- 183) L. Casagrande *et al.*, “Tracking with heavily irradiated silicon detectors operated at cryogenic temperatures,” *IEEE Trans. Nucl. Sci.*, vol. 46, pp. 228–231, 1999
- 184) P. Abreu *et al.*, “Search for charginos, neutralinos and gravitinos in e^+e^- interactions at $\sqrt{s} = 183\text{ GeV}$,” *Phys. Lett. B*, vol. 446, pp. 75–91, 1999. [Erratum: *Phys. Lett. B* 451, 447–449 (1999)]
- 185) P. Abreu *et al.*, “Measurement of $A(\text{FB})(b \text{ anti-} b)$ in hadronic Z decays using a jet charge technique,” *Eur. Phys. J. C*, vol. 9, pp. 367–381, 1999
- 186) P. Abreu *et al.*, “A Precise measurement of the partial decay width ratio $R(b)^{*0} = \Gamma(b \text{ anti-} b) / \Gamma(\text{had})$,” *Eur. Phys. J. C*, vol. 10, pp. 415–442, 1999
- 187) P. Abreu *et al.*, “Search for Leptoquarks and FCNC in e^+e^- annihilations at $S^{(1/2)} = 183\text{-GeV}$,” *Phys. Lett. B*, vol. 446, pp. 62–74, 1999
- 188) P. Abreu *et al.*, “A Search for η'_c Production in Photon-Photon Fusion at LEP,” *Phys. Lett. B*, vol. 441, no. 1-4, pp. 479–490, 1998
- 189) P. Abreu *et al.*, “Search for composite and exotic fermions at LEP-2,” *Eur. Phys. J. C*, vol. 8, pp. 41–58, 1999
- 190) P. Abreu *et al.*, “Search for lightest neutralino and stau pair production in light gravitino scenarios with stau NLSP,” *Eur. Phys. J. C*, vol. 7, pp. 595–607, 1999
- 191) P. Abreu *et al.*, “A Search for heavy stable and longlived squarks and sleptons in e^+e^- collisions at energies from 130-GeV to 183-GeV,” *Phys. Lett. B*, vol. 444, pp. 491–502, 1998
- 192) P. Abreu *et al.*, “Two particle angular correlations in e^+e^- interactions compared with QCD predictions,” *Phys. Lett. B*, vol. 440, pp. 203–216, 1998
- 193) P. Abreu *et al.*, “Search for pair produced neutralinos in events with photons and missing energy from e^+e^- collisions at $S^{(1/2)} = 130\text{-GeV}$ to 183-GeV,” *Eur. Phys. J. C*, vol. 6, pp. 371–384, 1999
- 194) T. J. V. Bowcock *et al.*, “Measurement of Trilinear Gauge Boson Couplings WWV ($V \equiv \gamma, Z$) in e^+e^- Collisions at 183GeV,” 7 1998
- 195) W. Adam *et al.*, “Cross Sections and Leptonic Forward-Backward Asymmetries from the Z Running of LEP,” p. 394, 7 1998
- 196) P. Abreu *et al.*, “Search for scalar fermions and longlived scalar leptons at center-of-mass energies of 130-GeV to 172-GeV,” *Eur. Phys. J. C*, vol. 6, pp. 385–401, 1999
- 197) P. Abreu *et al.*, “Measurement of $|V(\text{cs})|$ using W decays at LEP-2,” *Phys. Lett. B*, vol. 439, pp. 209–224, 1998
- 198) P. Abreu *et al.*, “ π^+, K^+, p and anti- p production in $Z_0 \rightarrow q \text{ anti-}q, Z_0 \rightarrow b \text{ anti-}b, Z_0 \rightarrow u \text{ anti-}u, d \text{ anti-}d, s \text{ anti-}s$,” *Eur. Phys. J. C*, vol. 5, pp. 585–620, 1998
- 199) P. Abreu *et al.*, “Measurement of the $e^+e^- \rightarrow \text{gamma gamma}$ (gamma) cross-section at the LEP energies,” *Phys. Lett. B*, vol. 433, pp. 429–440, 1998
- 200) T. J. V. Bowcock *et al.*, “Measurement of Trilinear Gauge Boson Couplings in e^+e^- Collisions at 183 GeV,” 3 1998
- 201) P. Abreu *et al.*, “Measurement of the charged particle multiplicity of weakly decaying B hadrons,” *Phys. Lett. B*, vol. 425, pp. 399–412, 1998
- 202) T. J. V. Bowcock, “Silicon technology for the LHCb vertex detector,” 2 1998
- 203) P. Abreu *et al.*, “First evidence for a charm radial excitation, $D^{* \text{-prime}}$,” *Phys. Lett. B*, vol. 426, pp. 231–242, 1998
- 204) S. Amato *et al.*, “LHCb technical proposal: A Large Hadron Collider Beauty Experiment for Precision Measurements of CP Violation and Rare Decays,” 2 1998
- 205) P. Abreu *et al.*, “Investigation of the splitting of quark and gluon jets,” *Eur. Phys. J. C*, vol. 4, pp. 1–17, 1998
- 206) S. F. Biagi, T. J. V. Bowcock, D. Duxbury, and E. Gabathuler, “Observation of UV photons with a microdot chamber,” *Nucl. Phys. B Proc. Suppl.*, vol. 61, pp. 311–314, 1998
- 207) P. Abreu *et al.*, “Measurement of the inclusive charmless and double charm B branching ratios,” *Phys. Lett. B*, vol. 426, pp. 193–206, 1998
- 208) P. Abreu *et al.*, “A Study of the hadronic resonance structure in the decay $\tau \rightarrow 3 \pi \text{ neutrino}(\tau)$,” *Phys. Lett. B*, vol. 426, pp. 411–427, 1998
- 209) P. Abreu *et al.*, “Measurement of Trilinear Gauge Couplings in e^+e^- Collisions at 161-GeV and 172-GeV,” *Phys. Lett. B*, vol. 423, pp. 194–206, 1998
- 210) P. Abreu *et al.*, “Measurement of the W pair cross-section and of the W mass in e^+e^- interactions at 172-GeV,” *Eur. Phys. J. C*, vol. 2, pp. 581–595, 1998
- 211) P. Abreu *et al.*, “Search for charged Higgs bosons in e^+e^- collisions at $S^{**}(1/2) = 172\text{-GeV}$,” *Phys. Lett. B*, vol. 420, pp. 140–156, 1998
- 212) T. Bowcock, L. Carroll, M. McCubbin, and U. Parzefall, “Measurement of the trilinear gauge couplings in e^+e^- collisions at 172 GeV,” 10 1997
- 213) P. Abreu *et al.*, “ $m(b)$ at $M(Z)$,” *Phys. Lett. B*, vol. 418, pp. 430–442, 1998
- 214) P. Abreu *et al.*, “Measurement of the triple gluon vertex from double quark tagged four jet events,” *Phys. Lett. B*, vol. 414, pp. 401–418, 1997
- 215) P. Abreu *et al.*, “Search for charginos, neutralinos and gravitinos at LEP,” *Eur. Phys. J. C*, vol. 1, pp. 1–20, 1998
- 216) P. Abreu *et al.*, “Measurement of the quark and gluon fragmentation functions in Z_0 hadronic decays,” *Eur. Phys. J. C*, vol. 6, pp. 19–33, 1999
- 217) P. Abreu *et al.*, “Charged particle multiplicity in $e^+e^- \rightarrow q \text{ anti-}q$ events at 161-GeV and 172-GeV and from the

- decay of the W boson," *Phys. Lett. B*, vol. 416, pp. 233–246, 1998
- 218) W. Adam *et al.*, "Search for B(s)0 anti-B(s)0 oscillations," *Phys. Lett. B*, vol. 414, pp. 382–400, 1997
- 219) P. Abreu *et al.*, "Search for neutral and charged Higgs bosons in e+ e- collisions at $s^{**}(1/2) = 161\text{-GeV}$ and 172-GeV ," *Eur. Phys. J. C*, vol. 2, pp. 1–37, 1998
- 220) P. Abreu *et al.*, "Observation of charge ordering in particle production in hadronic Z0 decay," *Phys. Lett. B*, vol. 407, pp. 174–184, 1997
- 221) P. Abreu *et al.*, "Measurement of the spin density matrix for the ρ^0 , K^*0 (892) and ϕ produced in Z0 decays," *Phys. Lett. B*, vol. 406, pp. 271–286, 1997
- 222) P. Abreu *et al.*, "Measurement of $B_d^0 - \bar{B}_d^0$ oscillations," *Z. Phys. C*, vol. 76, pp. 579–598, 1997
- 223) F. Berends *et al.*, "Report of the working group on the measurement of triple gauge boson couplings," *J. Phys. G*, vol. 24, pp. 405–419, 1998
- 224) P. Abreu *et al.*, "Measurement of the multiplicity of gluons splitting to bottom quark pairs in hadronic Z0 decays," *Phys. Lett. B*, vol. 405, pp. 202–214, 1997
- 225) P. Abreu *et al.*, "A Study of the reaction e+ e- \rightarrow mu+ mu- gamma (ISR) at LEP and search for new physics at annihilation energies near 80-GeV," *Z. Phys. C*, vol. 75, pp. 581–592, 1997
- 226) T. Bowcock, D. Fassouliotis, V. Kostioukhine, J. Libby, C. Matteuzzi, H. T. Phillips, R. L. Sekulin, F. Terranova, S. Tzamarias, and A. VanLysebetten, "Limits on triple gauge boson couplings from LEP2 data," 3 1997
- 227) P. Abreu *et al.*, "Measurement of the transverse spin correlation in Z \rightarrow tau+ tau- decays," *Phys. Lett. B*, vol. 404, pp. 194–206, 1997
- 228) P. Abreu *et al.*, "Rapidity correlations in Lambda baryon and proton production in hadronic Z0 decays," *Phys. Lett. B*, vol. 416, pp. 247–256, 1998
- 229) P. Abreu *et al.*, "Measurement of correlations between pions from different Ws in e+ e- \rightarrow W+ W- events," *Phys. Lett. B*, vol. 401, pp. 181–191, 1997
- 230) P. Abreu *et al.*, "Measurement and interpretation of the W pair cross-section in e^+e^- interactions at 161-GeV," *Phys. Lett. B*, vol. 397, pp. 158–170, 1997
- 231) P. Abreu *et al.*, "Identified particles in quark and gluon jets," *Phys. Lett. B*, vol. 401, pp. 118–130, 1997
- 232) P. Abreu *et al.*, "Search for the B(c) Meson," *Phys. Lett. B*, vol. 398, pp. 207–222, 1997
- 233) P. Abreu *et al.*, "A Measurement of alpha-s from the scaling violation in e+ e- annihilation," *Phys. Lett. B*, vol. 398, pp. 194–206, 1997
- 234) P. Abreu *et al.*, "Search for stable heavy charged particles in e+ e- collisions at $s^{**}(1/2) = 130\text{-GeV}$ to 136-GeV , 161-GeV and 172-GeV ," *Phys. Lett. B*, vol. 396, pp. 315–326, 1997
- 235) P. Abreu *et al.*, "Search for neutral heavy leptons produced in Z decays," *Z. Phys. C*, vol. 74, pp. 57–71, 1997. [Erratum: *Z.Phys.C* 75, 580 (1997)]
- 236) P. Abreu *et al.*, "Search for excited leptons in e+ e- collisions at $s^{**}(1/2) = 161\text{-GeV}$," *Phys. Lett. B*, vol. 393, pp. 245–260, 1997
- 237) P. Abreu *et al.*, "A Precise measurement of the B(d)0 meson lifetime using a new technique," *Z. Phys. C*, vol. 74, pp. 19–32, 1997. [Erratum: *Z.Phys.C* 75, 579 (1997)]
- 238) P. Abreu *et al.*, "Search for lepton flavor number violating Z0 decays," *Z. Phys. C*, vol. 73, pp. 243–251, 1997
- 239) P. Abreu *et al.*, "An Upper limit for Br (Z0 \rightarrow g g g) from symmetric three jet Z0 hadronic decays," *Phys. Lett. B*, vol. 389, pp. 405–415, 1996
- 240) P. Abreu *et al.*, "Measurement of event shape and inclusive distributions at $S^{**}(1/2) = 130\text{-GeV}$ and 136-GeV ," *Z. Phys. C*, vol. 73, pp. 229–242, 1997
- 241) P. Abreu *et al.*, "Tuning and test of fragmentation models based on identified particles and precision event shape data," *Z. Phys. C*, vol. 73, pp. 11–60, 1996
- 242) W. Adam *et al.*, "Search for pair production of heavy objects in 4 jet events at $s^{**}(1/2) = 130\text{-GeV} - 136\text{-GeV}$," *Z. Phys. C*, vol. 73, pp. 1–9, 1996
- 243) P. Abreu *et al.*, "Search for neutralinos, scalar leptons and scalar quarks in e+ e- interactions at $s^{**}(1/2) = 130\text{-GeV}$ and 136-GeV ," *Phys. Lett. B*, vol. 387, pp. 651–666, 1996
- 244) P. Abreu *et al.*, "Search for the lightest chargino at $s^{**}(1/2) = 130\text{-GeV}$ and 136-GeV in DELPHI," *Phys. Lett. B*, vol. 382, pp. 323–336, 1996
- 245) P. Abreu *et al.*, "Search for high mass gamma gamma resonances in e+ e- \rightarrow lepton+ lepton- gamma gamma, neutrino anti-neutrino gamma gamma and q anti-q gamma gamma at LEP-1," *Z. Phys. C*, vol. 72, pp. 179–190, 1996
- 246) P. Abreu *et al.*, "Measurement of inclusive K^*0 (892), Φ (1020) and $K(2)^*0$ (1430) production in hadronic Z decays," *Z. Phys. C*, vol. 73, pp. 61–72, 1996
- 247) P. Abreu *et al.*, "Study of radiative leptonic events with hard photons and search for excited charged leptons at $S^{**}(1/2) = 130\text{-GeV} - 136\text{-GeV}$," *Phys. Lett. B*, vol. 380, pp. 480–490, 1996
- 248) W. Adam *et al.*, "Study of rare b decays with the DELPHI detector at LEP," *Z. Phys. C*, vol. 72, pp. 207–220, 1996
- 249) W. Adam *et al.*, "Search for anomalous production of single photons at $\sqrt{s} = 130\text{-GeV}$ and 136-GeV ," *Phys. Lett. B*, vol. 380, pp. 471–479, 1996
- 250) P. Abreu *et al.*, "Kaon interference in the hadronic decays of the Z0," *Phys. Lett. B*, vol. 379, pp. 330–340, 1996
- 251) P. Abreu *et al.*, "Mean lifetime of the B(s)0 meson," *Z. Phys. C*, vol. 71, pp. 11–30, 1996
- 252) P. Abreu *et al.*, "First study of the interference between initial and final state radiation at the Z resonance," *Z. Phys. C*, vol. 72, pp. 31–38, 1996
- 253) P. Abreu *et al.*, "Search for exclusive decays of the LAMBDA(b) baryon and measurement of its mass," *Phys. Lett. B*, vol. 374, pp. 351–361, 1996
- 254) P. Abreu *et al.*, "First measurement of f2-prime (1525) production in Z0 hadronic decays," *Phys. Lett. B*, vol. 379, pp. 309–318, 1996
- 255) P. Abreu *et al.*, "Determination of the average lifetime of b baryons," *Z. Phys. C*, vol. 71, pp. 199–210, 1996
- 256) W. Adam *et al.*, "Production of SIGMA0 and OMEGA- in Z decays," *Z. Phys. C*, vol. 70, pp. 371–382, 1996
- 257) P. Abreu *et al.*, "Determination of $|V(cb)|$ from the semileptonic decay $B^0 \rightarrow D^* - \text{lepton} - \text{neutrino}$," *Z. Phys. C*, vol. 71, pp. 539–554, 1996
- 258) P. Abreu *et al.*, "Search for new phenomena using single photon events in the DELPHI detector at LEP," *Z. Phys. C*, vol. 74, pp. 577–586, 1997
- 259) P. Abreu *et al.*, "Updated precision measurement of the average lifetime of B hadrons," *Phys. Lett. B*, vol. 377, pp. 195–204, 1996
- 260) J. Beringer *et al.*, "ATLAS beam test results," *Nucl. Instrum. Meth. A*, vol. 383, pp. 205–210, 1996
- 261) P. Abreu *et al.*, "Measurement of the partial decay width $R(b) \text{ sup}(0) = \text{GAMMA}(b \text{ anti-}b) / \text{GAMMA}(\text{had})$ of the Z with the DELPHI detector at LEP," *Z. Phys. C*, vol. 70, no. 4, pp. 531–548, 1996
- 262) P. Abreu *et al.*, "Charged particle multiplicity in e+ e- interactions at $s^{**}(1/2) = 130\text{-GeV}$," *Phys. Lett. B*, vol. 372, pp. 172–180, 1996
- 263) T. Bowcock, R. Hawkings, G. Passaleva, and C. Zeitnitz, "B Physics results from LEP," *Nucl. Instrum. Meth. A*, vol. 384, pp. 48–60, 1996
- 264) P. Abreu *et al.*, "Measurement of the B(d)0 oscillation frequency using kaons, leptons and jet charge," *Z. Phys. C*, vol. 72, pp. 17–30, 1996

- 265) P. Abreu *et al.*, "Performance of the DELPHI detector," *Nucl. Instrum. Meth. A*, vol. 378, pp. 57–100, 1996
- 266) P. Abreu *et al.*, "Energy dependence of the differences between the quark and gluon jet fragmentation," *Z. Phys. C*, vol. 70, pp. 179–196, 1996
- 267) P. Abreu *et al.*, "Search for promptly produced heavy quarkonium states in hadronic Z decays," *Z. Phys. C*, vol. 69, pp. 575–584, 1996
- 268) W. Adam *et al.*, "Measurement of inclusive π^0 production in hadronic Z0 decays," *Z. Phys. C*, vol. 69, pp. 561–574, 1996
- 269) P. Abreu *et al.*, "A Precise measurement of the tau lepton lifetime," *Phys. Lett. B*, vol. 365, pp. 448–460, 1996
- 270) P. Abreu *et al.*, "Measurement of $\Delta\alpha_{\text{had}}^{(3)}$ production in hadronic Z decays," *Phys. Lett. B*, vol. 361, pp. 207–220, 1995
- 271) P. Abreu *et al.*, "Study of prompt photon production in hadronic Z0 decays," *Z. Phys. C*, vol. 69, pp. 1–14, 1995
- 272) P. Abreu *et al.*, "A Measurement of the tau leptonic branching fractions," *Phys. Lett. B*, vol. 357, pp. 715–724, 1995
- 273) P. Abreu *et al.*, "Upper limits on the branching ratios $\tau \rightarrow \mu \gamma$ and $\tau \rightarrow e \gamma$," *Phys. Lett. B*, vol. 359, pp. 411–421, 1995
- 274) P. Abreu *et al.*, "A Measurement of the photon structure function $F_2(\gamma)$ at an average Q^2 of 12- GeV^2/c^4 ," *Z. Phys. C*, vol. 69, pp. 223–234, 1996
- 275) P. Abreu *et al.*, "Search for exclusive charmless B meson decays with the DELPHI detector at LEP," *Phys. Lett. B*, vol. 357, pp. 255–266, 1995
- 276) P. Abreu *et al.*, "Observation of short range three particle correlations in e^+e^- annihilations at LEP energies," *Phys. Lett. B*, vol. 355, pp. 415–424, 1995
- 277) P. Abreu *et al.*, "A Measurement of B^+ and B^0 lifetimes using $D\ell^+$ events," *Z. Phys. C*, vol. 68, pp. 13–24, 1995
- 278) P. Abreu *et al.*, "Lifetime and production rate of beauty baryons from Z decays," *Z. Phys. C*, vol. 68, pp. 375–390, 1995
- 279) P. Abreu *et al.*, " B^* production in Z decays," *Z. Phys. C*, vol. 68, pp. 353–362, 1995
- 280) W. Adam *et al.*, "Lifetimes of charged and neutral B hadrons using event topology," *Z. Phys. C*, vol. 68, pp. 363–374, 1995
- 281) P. Abreu *et al.*, "Inclusive measurements of the K^{*+} and p/\bar{p} production in hadronic Z0 decays," *Nucl. Phys. B*, vol. 444, pp. 3–26, 1995
- 282) P. Abreu *et al.*, "Strange baryon production in Z hadronic decays," *Z. Phys. C*, vol. 67, pp. 543–554, 1995
- 283) P. Abreu *et al.*, "Production of strange B baryons decaying into Ξ^{*+} - lepton- π^+ pairs at LEP," *Z. Phys. C*, vol. 68, pp. 541–554, 1995
- 284) P. Abreu *et al.*, "Measurements of the tau polarization in Z0 decays," *Z. Phys. C*, vol. 67, pp. 183–202, 1995
- 285) F. Sauli *et al.*, "Development of microstrip gas chambers for radiation detection and tracking at high rates," 1995
- 286) S. F. Biagi, T. J. V. Bowcock, D. Duxbury, J. N. Jackson, T. J. Jones, and S. Kiourkos, "A study of the response of thin-oxide MSGCs to minimum ionising particles and low-energy X-rays," *Nucl. Instrum. Meth. A*, vol. 367, pp. 193–197, 1995
- 287) P. Abreu *et al.*, "Production of charged particles, $K^0(s)$, K^{*+} , p and Λ in $Z \rightarrow b \bar{b}$ events and in the decay of b hadrons," *Phys. Lett. B*, vol. 347, pp. 447–466, 1995
- 288) C. Brand *et al.*, "Construction and beam test results for the DELPHI two metre straw detector," *Nucl. Instrum. Meth. A*, vol. 367, pp. 129–132, 1995
- 289) P. Abreu *et al.*, "Measurement of $\Gamma(b\bar{b})/\Gamma(\text{hadrons})$ using impact parameter measurements and lepton identification," *Z. Phys. C*, vol. 66, pp. 323–340, 1995
- 290) W. W. Armstrong *et al.*, "ATLAS: Technical proposal for a general-purpose p p experiment at the Large Hadron Collider at CERN," 12 1994
- 291) P. Abreu *et al.*, "Search for heavy neutral Higgs bosons in two doublet models," *Z. Phys. C*, vol. 67, pp. 69–80, 1995
- 292) P. Abreu *et al.*, "Observation of orbitally excited B mesons," *Phys. Lett. B*, vol. 345, pp. 598–608, 1995
- 293) P. Abreu *et al.*, "First measurement of the strange quark asymmetry at the Z0 peak," *Z. Phys. C*, vol. 67, pp. 1–14, 1995
- 294) T. J. V. Bowcock, A. G. Clark, and M. Edwards, "Report on a silicon backup to the MSGC detectors of ATLAS, Part B 068," 11 1994
- 295) P. Abreu *et al.*, "Measurement of the forward - backward asymmetry of charm and bottom quarks at the Z pole using D^{*+} mesons," *Z. Phys. C*, vol. 66, pp. 341–354, 1995
- 296) T. J. V. Bowcock, A. G. Clark, and M. Edwards, "Report on a silicon backup to the MSGC detectors of ATLAS, Part B 069," 10 1994
- 297) P. Abreu *et al.*, "First evidence of hard scattering processes in single tagged $\gamma\gamma$ collisions," *Phys. Lett. B*, vol. 342, pp. 402–416, 1995
- 298) P. Abreu *et al.*, "Measurement of the forward - backward asymmetry of $e^+e^- \rightarrow Z \rightarrow b \bar{b}$ using prompt leptons and a lifetime tag," *Z. Phys. C*, vol. 65, pp. 569–586, 1995
- 299) P. Abreu *et al.*, "Production characteristics of K^0 and light meson resonances in hadronic decays of the Z0," *Z. Phys. C*, vol. 65, pp. 587–602, 1995
- 300) P. Abreu *et al.*, "Measurement of the $\Gamma(b \bar{b})/\Gamma(\text{hadron})$ branching ratio of the Z by double hemisphere tagging," *Z. Phys. C*, vol. 65, pp. 555–568, 1995
- 301) P. Abreu *et al.*, "Measurement of time dependent $B(d)0$ - $\bar{B}(d)0$ mixing," *Phys. Lett. B*, vol. 338, pp. 409–420, 1994
- 302) P. Abreu *et al.*, "A Study of radiative muon pair events at Z^0 energies and limits on an additional Z' gauge boson," *Z. Phys. C*, vol. 65, pp. 603–618, 1995
- 303) P. Abreu *et al.*, "Charged kaon production in tau decays at LEP," *Phys. Lett. B*, vol. 334, pp. 435–449, 1994
- 304) P. Abreu *et al.*, "Search for pair produced heavy scalars in Z0 decays," *Z. Phys. C*, vol. 64, pp. 183–194, 1994
- 305) P. Abreu *et al.*, "J / ψ production in the hadronic decays of the Z," *Phys. Lett. B*, vol. 341, pp. 109–122, 1994
- 306) P. Abreu *et al.*, "Measurement of the $B^0 - \bar{B}^0$ mixing parameter in DELPHI," *Phys. Lett. B*, vol. 332, pp. 488–500, 1994
- 307) P. Abreu *et al.*, "Search for the standard model Higgs boson in Z0 decays," *Nucl. Phys. B*, vol. 421, pp. 3–37, 1994
- 308) P. Abreu *et al.*, "Measurement of the $e^+e^- \rightarrow \gamma\gamma$ (gamma) cross-section at LEP energies," *Phys. Lett. B*, vol. 327, pp. 386–396, 1994
- 309) P. Abreu *et al.*, "A Measurement of the B_s^0 meson mass," *Phys. Lett. B*, vol. 324, pp. 500–508, 1994
- 310) P. Abreu *et al.*, "Improved measurements of cross-sections and asymmetries at the Z0 resonance," *Nucl. Phys. B*, vol. 418, pp. 403–427, 1994
- 311) P. Abreu *et al.*, "A Precision measurement of the average lifetime of B hadrons," *Z. Phys. C*, vol. 63, pp. 3–16, 1994
- 312) P. Abreu *et al.*, "Interference of neutral kaons in the hadronic decays of the Z0," *Phys. Lett. B*, vol. 323, pp. 242–252, 1994
- 313) P. Abreu *et al.*, "Measurements of the line shape of the Z^0 and determination of electroweak parameters from its hadronic and leptonic decays," *Nucl. Phys. B*, vol. 417,

- pp. 3–57, 1994. [Erratum: Nucl.Phys.B 426, 244 (1994)]
- 314) P. Abreu *et al.*, “Invariant mass dependence of particle correlations in hadronic final states from the decay of the Z0,” *Z. Phys. C*, vol. 63, pp. 17–28, 1994
- 315) P. Abreu *et al.*, “Study of hard scattering processes in multi - hadron production from gamma gamma collisions at LEP,” *Z. Phys. C*, vol. 62, pp. 357–366, 1994
- 316) T. J. V. Bowcock, “Lifetime measurements of charged and neutral B’s at LEP,” in *Advanced Study Conference on Heavy Flavors*, pp. 181–190, 1993
- 317) P. Abreu *et al.*, “Measurement of the B0 - anti-B0 mixing using the average electric charge of hadron jets in Z0 decays,” *Phys. Lett. B*, vol. 322, pp. 459–472, 1994
- 318) P. Abreu *et al.*, “Production of Lambda and Lambda anti-Lambda correlations in the hadronic decays of the Z0,” *Phys. Lett. B*, vol. 318, pp. 249–262, 1993
- 319) P. Abreu *et al.*, “Production rate and decay lifetime measurements of B(s)0 mesons at LEP using D(s) and phi mesons,” *Z. Phys. C*, vol. 61, pp. 407–420, 1994
- 320) P. Abreu *et al.*, “Limits on the production of scalar leptop-quarks from Z0 decays at LEP,” *Phys. Lett. B*, vol. 316, pp. 620–630, 1993
- 321) P. Abreu *et al.*, “Search for Z0 decays to two leptons and a charged particle - anti-particle pair,” *Nucl. Phys. B*, vol. 403, pp. 3–24, 1993
- 322) P. Abreu *et al.*, “A Measurement of the mean lifetimes of charged and neutral B hadrons,” *Phys. Lett. B*, vol. 312, pp. 253–266, 1993
- 323) P. Abreu *et al.*, “A Measurement of D meson production in Z0 hadronic decays,” *Z. Phys. C*, vol. 59, pp. 533–546, 1993. [Erratum: Z.Phys.C 65, 709–710 (1995)]
- 324) P. Abreu *et al.*, “Determination of alpha-s from the scaling violation in the fragmentation functions in e+ e- annihilation,” *Phys. Lett. B*, vol. 311, pp. 408–424, 1993
- 325) P. Abreu *et al.*, “Determination of alpha-s using the next-to-leading log approximation of QCD,” *Z. Phys. C*, vol. 59, pp. 21–34, 1993
- 326) P. Abreu *et al.*, “Determination of alpha-s for b quarks at the Z0 resonance,” *Phys. Lett. B*, vol. 307, pp. 221–236, 1993
- 327) P. Abreu *et al.*, “Measurement of lambda(b) production and lifetime in Z0 hadronic decays,” *Phys. Lett. B*, vol. 311, pp. 379–390, 1993
- 328) P. Abreu *et al.*, “Measurement of the triple gluon vertex from four - jet events at LEP,” *Z. Phys. C*, vol. 59, pp. 357–368, 1993
- 329) P. Abreu *et al.*, “A Measurement of the tau lifetime,” *Phys. Lett. B*, vol. 302, pp. 356–368, 1993
- 330) P. Abreu *et al.*, “A Study of B0 - B0-bar mixing using semileptonic decays of B hadrons produced from Z0,” *Phys. Lett. B*, vol. 301, pp. 145–154, 1993
- 331) P. Abreu *et al.*, “A Search for lepton flavor violation in Z0 decays,” *Phys. Lett. B*, vol. 298, pp. 247–256, 1993
- 332) P. Abreu *et al.*, “A Measurement of B meson production and lifetime using D lepton- events in Z0 decays,” *Z. Phys. C*, vol. 57, pp. 181–196, 1993
- 333) P. Abreu *et al.*, “Measurement of inclusive production of light meson resonances in hadronic decays of the Z0,” *Phys. Lett. B*, vol. 298, pp. 236–246, 1993
- 334) P. Abreu *et al.*, “Classification of the hadronic decays of the Z0 into b and c quark pairs using a neural network,” *Phys. Lett. B*, vol. 295, pp. 383–395, 1992
- 335) P. Abreu *et al.*, “Multiplicity fluctuations in hadronic final states from the decay of the Z0,” *Nucl. Phys. B*, vol. 386, pp. 471–492, 1992
- 336) P. Abreu *et al.*, “Evidence for Bs0 meson production in Z0 decays,” *Phys. Lett. B*, vol. 289, pp. 199–210, 1992
- 337) P. Abreu *et al.*, “Bose-Einstein correlations in the hadronic decays of the Z0,” *Phys. Lett. B*, vol. 286, pp. 201–210, 1992
- 338) P. Abreu *et al.*, “Measurement of the partial width of the Z0 into b anti-b final states using their semileptonic decays,” *Z. Phys. C*, vol. 56, pp. 47–62, 1992
- 339) R. Bouclier *et al.*, “Development of gas microstrip chambers for radiation detection and tracking at high rates,” 5 1992
- 340) P. M. McIntyre *et al.*, “Gas microstrip chambers,” *Nucl. Instrum. Meth. A*, vol. 315, pp. 170–176, 1992
- 341) P. Abreu *et al.*, “Charged particle multiplicity distributions for fixed number of jets in Z0 hadronic decays,” *Z. Phys. C*, vol. 56, pp. 63–76, 1992
- 342) P. Abreu *et al.*, “A Study of the decays of tau leptons produced on the Z resonance at LEP,” *Z. Phys. C*, vol. 55, pp. 555–568, 1992
- 343) P. Abreu *et al.*, “Measurement of the Z0 branching fraction to b quark pairs using the boosted sphericity product,” *Phys. Lett. B*, vol. 281, pp. 383–393, 1992
- 344) P. Abreu *et al.*, “Determination of alpha(s) in second order QCD from hadronic Z decays,” *Z. Phys. C*, vol. 54, pp. 55–74, 1992
- 345) M. Calvetti *et al.*, “Physics at the CERN Collider Using a ‘Minimum Bias’ Trigger,” in *3rd Topical Workshop on Proton Antiproton Collider Physics*, pp. 10–49, 1 1983

CLEO

Refereed Journal Papers (63)

- 1) Y. Kubota *et al.*, “The CLEO-II detector,” *Nucl. Instrum. Meth. A*, vol. 320, pp. 66–113, 1992
- 2) I. C. Brock *et al.*, “Study of pi+ pi- transitions from the Upsilon (3S) and a search for the h(b),” *Phys. Rev. D*, vol. 43, pp. 1448–1458, 1991
- 3) J. P. Alexander *et al.*, “Determination of B(D(s)+ -> phi pi+) via observations of D(s)+ -> phi l+ neutrino,” *Phys. Rev. Lett.*, vol. 65, pp. 1531–1534, 1990
- 4) J. P. Alexander *et al.*, “Observation of Y (4s) Decays Into Non - BB Final States Containing psi Mesons,” *Phys. Rev. Lett.*, vol. 64, p. 2226, 1990
- 5) D. Bortoletto *et al.*, “Exclusive and Inclusive Decays of B Mesons Into D(s) Mesons,” *Phys. Rev. Lett.*, vol. 64, p. 2117, 1990
- 6) W. Y. Chen *et al.*, “Measurement of gamma gamma Widths of Charmonium States,” *Phys. Lett. B*, vol. 243, pp. 169–174, 1990
- 7) R. Fulton *et al.*, “Observation of B Meson Semileptonic Decays to Noncharmed Final States,” *Phys. Rev. Lett.*, vol. 64, pp. 16–20, 1990
- 8) T. J. V. Bowcock *et al.*, “Search for Neutrinoless Decays of the tau Lepton,” *Phys. Rev. D*, vol. 41, p. 805, 1990
- 9) J. P. Alexander *et al.*, “THE DECAY D0 -> K0 anti-K0,” 9 1989
- 10) W. Y. Chen *et al.*, “Measurement of D(s) Decay Modes,” *Phys. Lett. B*, vol. 226, pp. 192–196, 1989
- 11) M. S. Alam *et al.*, “Measurement of the Isospin Mass Splitting Xi+(c) Xi0(c),” *Phys. Lett. B*, vol. 226, pp. 401–404, 1989
- 12) P. Avery *et al.*, “P Wave Charmed Mesons in e+e- Annihilation,” *Phys. Rev. D*, vol. 41, p. 774, 1990
- 13) T. J. V. Bowcock *et al.*, “Sigma(c)++ and Sigma(c)0 Production From e+e- Annihilation in the Y Energy Region,” *Phys. Rev. Lett.*, vol. 62, p. 1240, 1989
- 14) R. Fulton *et al.*, “RADIATIVE UPSILON (1S) DECAYS,” *Phys. Rev. D*, vol. 41, p. 1401, 1990
- 15) P. Avery *et al.*, “A Search for Exclusive Penguin Decays of B Mesons,” *Phys. Lett. B*, vol. 223, pp. 470–475, 1989
- 16) T. J. V. Bowcock *et al.*, “Search for the Production of Fractionally Charged Particles in e+e- Annihilations at sqrt(s) = 10.5 {GeV},” *Phys. Rev. D*, vol. 40, p. 263, 1989

- 17) W. Y. Chen *et al.*, "Measurement of the Muonic Branching Fractions of the $\Upsilon(1s)$ and $\Upsilon(3s)$," *Phys. Rev. D*, vol. 39, p. 3528, 1989
- 18) M. Artuso *et al.*, "B0 anti-B0 Mixing at the Upsilon (4S)," *Phys. Rev. Lett.*, vol. 62, p. 2233, 1989
- 19) M. S. Alam *et al.*, "Search for a Neutral Higgs Boson in B Meson Decay," *Phys. Rev. D*, vol. 40, pp. 712–720, 1989. [Erratum: *Phys.Rev.D* 40, 3790 (1989)]
- 20) D. Bortoletto *et al.*, "A Search for $b \rightarrow u$ Transitions in Exclusive Hadronic B Meson Decays," *Phys. Rev. Lett.*, vol. 62, p. 2436, 1989
- 21) D. Bortoletto *et al.*, "Study of the Decay $\bar{B}0 \rightarrow D^* + L$ -Anti-neutrino," *Phys. Rev. Lett.*, vol. 63, pp. 1667–1670, 1989
- 22) T. J. V. Bowcock, "RECENT RESULTS ON B MESONS FROM CLEO AT CESR," *J. Phys. G*, vol. 15, pp. 1101–1126, 1989
- 23) R. Fulton *et al.*, "First Observation of Inclusive ψ Production in Υ Decays," *Phys. Lett. B*, vol. 224, pp. 445–449, 1989
- 24) P. Avery *et al.*, "Observation of the Charmed Strange Baryon $\Xi(c)0$," *Phys. Rev. Lett.*, vol. 62, p. 863, 1989
- 25) C. Bebek *et al.*, "Search for the Charmless Decays $B \rightarrow p\bar{p}\pi$ and $p\bar{p}\pi\pi$," *Phys. Rev. Lett.*, vol. 62, p. 8, 1989
- 26) T. J. V. Bowcock *et al.*, "Investigation of the Total Charm Pair Cross-section in Nonresonant e^+e^- Annihilations at $\sqrt{s} = 10.5\text{-}\{\text{GeV}\}$," *Phys. Rev. D*, vol. 38, p. 2679, 1988. [Erratum: *Phys.Rev.D* 40, 1701 (1989)]
- 27) D. Bortoletto *et al.*, "Charm Production in Nonresonant e^+e^- Annihilations at $s^{*(1/2)} = 10.55\text{-GeV}$," *Phys. Rev. D*, vol. 37, p. 1719, 1988. [Erratum: *Phys.Rev.D* 39, 1471 (1989)]
- 28) S. Behrends *et al.*, "EXCLUSIVE DECAYS OF THE D+ INTO MODES CONTAINING A ANTI-K0," 11 1987
- 29) P. Haas *et al.*, "UPPER LIMITS ON CHARM CHANGING NEUTRAL CURRENT INTERACTIONS," *Phys. Rev. Lett.*, vol. 60, p. 1614, 1988
- 30) S. E. Csorna *et al.*, "Limit on the Mass of the ν_τ ," *Phys. Rev. D*, vol. 35, pp. 2747–2751, 1987
- 31) P. S. Baringer *et al.*, "Production of η and ω Mesons in τ Decay and a Search for Second Class Currents," *Phys. Rev. Lett.*, vol. 59, p. 1993, 1987
- 32) C. Bebek *et al.*, "Measurement of the Tau Lifetime," *Phys. Rev. D*, vol. 36, p. 690, 1987
- 33) A. Bean *et al.*, "Improved Upper Limit on Flavor Changing Neutral Current Decays of the B Quark," *Phys. Rev. D*, vol. 35, p. 3533, 1987
- 34) S. Behrends *et al.*, "Gamma ($b \rightarrow u$ Lepton Neutrino) / gamma ($b \rightarrow c$ Lepton Neutrino) from the End Point of the Lepton Momentum Spectrum in Semileptonic B Decay," *Phys. Rev. Lett.*, vol. 59, p. 407, 1987
- 35) M. S. Alam *et al.*, "Evidence for Charmed Baryons in B Meson Decay," *Phys. Rev. Lett.*, vol. 59, p. 22, 1987
- 36) C. Bebek *et al.*, "Exclusive Decays and Masses of the B Mesons," *Phys. Rev. D*, vol. 36, p. 1289, 1987
- 37) M. S. Alam *et al.*, "Branching Ratios of B Meson to K^+ , K^- and K^0/\bar{K}^0 ," *Phys. Rev. Lett.*, vol. 58, p. 1814, 1987
- 38) T. J. V. Bowcock *et al.*, "INVESTIGATION OF D ANTI-D CORRELATIONS AND THE TOTAL CHARM CROSS-SECTION IN NONRESONANT E+ E- ANNIHILATIONS AT $S^{*(1/2)} = 10.5\text{-GEV}$," 1987
- 39) S. E. Csorna *et al.*, "OBSERVATION OF D*+ MESON POLARIZATION IN SEMILEPTONIC B MESON DECAY," 1987
- 40) S. E. Csorna *et al.*, "Measurement of the D0, D^+ and D^- / S+ Meson Lifetimes at $\sqrt{s} = 10.58\text{-}\{\text{GeV}\}$," *Phys. Lett. B*, vol. 191, pp. 318–322, 1987
- 41) M. S. Alam *et al.*, "INCLUSIVE PRODUCTION OF THE CHARMED BARYON LAMBDA/C+ FROM E+ E- ANNIHILATIONS AT $S^{*(1/2)} = 10.5\text{-GEV}$," 1987
- 42) C. Bebek *et al.*, "D0* PRODUCTION IN CONTINUUM E+ E- ANNIHILATIONS AT $S^{*(1/2)} = 10.5\text{-GEV}$," 1987
- 43) P. S. Baringer *et al.*, "INCLUSIVE ETA AND OMEGA PRODUCTION FROM TAU DECAY AND A SEARCH FOR SECOND CLASS CURRENTS," 1987
- 44) P. Avery *et al.*, "SEARCH FOR THE NEUTRAL HIGGS IN B MESON DECAY," 1987
- 45) A. Bean *et al.*, "UPPER LIMITS ON THE BRANCHING FRACTION FOR THE DECAY $B^+ \rightarrow \text{RHO}0 \text{ lepton} + \text{NEUTRINO}$," 1987
- 46) P. Avery *et al.*, "Limits on rare exclusive decays of B mesons," *Phys. Lett. B*, vol. 183, pp. 429–433, 1987
- 47) T. J. V. Bowcock, "Axion search and charm lifetime measurements from CLEO," in *21st Rencontres de Moriond: Perspectives in Electroweak Interactions and Unified Theories*, pp. 303–307, 1986
- 48) T. Gentile *et al.*, "Search for Magnetically Charged Particles Produced in e^+e^- Annihilations at $\sqrt{s} = 10.6\text{-}\{\text{GeV}\}$," *Phys. Rev. D*, vol. 35, p. 1081, 1987
- 49) T. J. V. Bowcock *et al.*, "Study of $\pi^+\pi^-$ Transitions From the $\Upsilon(3s)$," *Phys. Rev. Lett.*, vol. 58, p. 307, 1987
- 50) A. Bean *et al.*, "Limits on B0 anti-B0 Mixing and tau (B0) / tau (b+)," *Phys. Rev. Lett.*, vol. 58, p. 183, 1987
- 51) M. S. Alam *et al.*, "A Study of the Decay $B \rightarrow \psi X$," *Phys. Rev. D*, vol. 34, p. 3279, 1986
- 52) D. Bortoletto *et al.*, "INCLUSIVE B MESON DECAYS INTO CHARM," *Phys. Rev. D*, vol. 35, p. 19, 1987
- 53) P. Haas *et al.*, "Observation of the Decay $B \rightarrow F X$," *Phys. Rev. Lett.*, vol. 56, p. 2781, 1986
- 54) T. J. V. Bowcock *et al.*, "Upper Limits for the Production of Light Shortlived Neutral Particles in Radiative Υ Decay," *Phys. Rev. Lett.*, vol. 56, p. 2676, 1986
- 55) C. Bebek *et al.*, "The Decay $D0 \rightarrow \phi K0$," *Phys. Rev. Lett.*, vol. 56, p. 1893, 1986
- 56) A. Bean *et al.*, "EXCLUSIVE RADIATIVE UPSILON (1S) DECAYS," *Phys. Rev. D*, vol. 34, p. 905, 1986
- 57) S. E. Csorna *et al.*, "A Measurement of the Direct Photon Spectrum From the $\Upsilon(1s)$," *Phys. Rev. Lett.*, vol. 56, p. 1222, 1986
- 58) D. Besson *et al.*, "Search for Monoenergetic Photons From $\Upsilon(1s) \rightarrow \gamma X$," *Phys. Rev. D*, vol. 33, p. 300, 1986
- 59) J. Rohlf *et al.*, "Results from UA1," *Conf. Proc. C*, vol. 8508121, p. 66, 1985
- 60) D. Bortoletto *et al.*, "Inclusive ϕ Production in B Meson Decay," *Phys. Rev. Lett.*, vol. 56, p. 800, 1986
- 61) T. J. V. Bowcock *et al.*, " $\Lambda(c)$ Production From e^+e^- Annihilation in the Υ Energy Region," *Phys. Rev. Lett.*, vol. 55, p. 923, 1985
- 62) S. Behrends *et al.*, "MEASUREMENT OF THE MICHEL PARAMETER IN TAU DECAY USING MUONS AND ELECTRONS," 7 1985
- 63) P. Haas *et al.*, "The Decay $B \rightarrow \psi X$," *Phys. Rev. Lett.*, vol. 55, p. 1248, 1985

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Refereed Journals(28)

- 1) G. Arnison *et al.*, "INCLUSIVE JET PRODUCTION AT $S^{*(1/2)} = 546\text{-GeV}$," 7 1985
- 2) G. Arnison *et al.*, "Comparison of Three Jet and Two Jet Cross-Sections in p anti-p Collisions at the CERN SPS p anti-p Collider," *Phys. Lett. B*, vol. 158, p. 494, 1985
- 3) G. Arnison *et al.*, "Intermediate Mass Dimuon Events at the {CERN} $p\bar{p}$ Collider at $\sqrt{s} = 540\text{-}\{\text{GeV}\}$," *Phys. Lett. B*, vol. 155, pp. 442–456, 1985

- 4) S. Behrends *et al.*, "NEW DETERMINATION OF THE MICHEL PARAMETER IN TAU DECAY," *Phys. Rev. D*, vol. 32, pp. 2468–2470, 1985
 - 5) P. Avery *et al.*, "BOSE-EINSTEIN CORRELATIONS IN E+ E- ANNIHILATIONS IN THE UPSILON REGION," *Phys. Rev. D*, vol. 32, pp. 2294–2302, 1985
 - 6) G. Arnison *et al.*, "Associated Production of an Isolated Large Transverse Momentum Lepton (electron or Muon), and Two Jets at the CERN p anti-p Collider," *Phys. Lett. B*, vol. 147, p. 493, 1984
 - 7) G. Arnison *et al.*, "Observation of Muonic Z0 Decay at the anti-p p Collider," *Phys. Lett. B*, vol. 147, pp. 241–248, 1984
 - 8) G. Arnison *et al.*, " $D^{*\pm}$ Production in Jets at the {CERN} {SPS} Collider," *Phys. Lett. B*, vol. 147, pp. 222–226, 1984
 - 9) G. Arnison *et al.*, "Experimental Observation of Events with Large Missing Transverse Energy Accompanied by a Jet Or a Photon(s) in p anti-p Collisions at $s^{*}(1/2)=540$ -GeV," *Phys. Lett. B*, vol. 139, p. 115, 1984
 - 10) A. Astbury *et al.*, "The UA1 Calorimeter Trigger," *Nucl. Instrum. Meth. A*, vol. 238, pp. 288–306, 1985
 - 11) G. Arnison *et al.*, "Observation of the Muonic Decay of the Charged Intermediate Vector Boson," *Phys. Lett. B*, vol. 134, pp. 469–476, 1984
 - 12) G. Arnison *et al.*, "Angular Distributions and Structure Functions from Two Jet Events at the CERN SPS $p\bar{p}$ Collider," *Phys. Lett. B*, vol. 136, pp. 294–300, 1984
 - 13) M. J. Corden *et al.*, "Central Hadron Calorimeter of UA1," *Nucl. Instrum. Meth. A*, vol. 238, pp. 273–287, 1985
 - 14) G. Arnison *et al.*, "Search for Massive electron Neutrino gamma and mu Neutrino gamma Final States at the CERN Super Proton Synchrotron Collider," *Phys. Lett. B*, vol. 135, pp. 250–254, 1984
 - 15) G. Arnison *et al.*, "Jet Fragmentation Into Charged Particles at the {CERN} Proton - Anti-proton Collider," *Phys. Lett. B*, vol. 132, p. 223, 1983
 - 16) G. Arnison *et al.*, "Further Evidence for Charged Intermediate Vector Bosons at the SPS Collider," *Phys. Lett. B*, vol. 129, pp. 273–282, 1983
 - 17) G. Arnison *et al.*, "Hadronic Jet Production at the CERN Proton - anti-Proton Collider," *Phys. Lett. B*, vol. 132, p. 214, 1983
 - 18) G. Arnison *et al.*, "Experimental Observation of Lepton Pairs of Invariant Mass Around 95-GeV/c² at the CERN SPS Collider," *Phys. Lett. B*, vol. 126, pp. 398–410, 1983
 - 19) G. Arnison *et al.*, "Experimental Observation of Isolated Large Transverse Energy Electrons with Associated Missing Energy at $\sqrt{s} = 540$ GeV," *Phys. Lett. B*, vol. 122, pp. 103–116, 1983
 - 20) G. Arnison *et al.*, "Observation of Jets in High Transverse Energy Events at the CERN Proton - anti-Proton Collider," *Phys. Lett. B*, vol. 123, pp. 115–122, 1983
 - 21) G. Arnison *et al.*, "Elastic and total cross-section measurement at the CERN proton-antiproton collider," pp. 15–24, 1983
 - 22) G. Arnison *et al.*, "Charged Particle Multiplicity Distributions in Proton Anti-proton Collisions at 540-{GeV} Center-of-mass Energy," *Phys. Lett. B*, vol. 123, pp. 108–114, 1983
 - 23) G. Arnison *et al.*, "Search for Centauro Like Events at the {CERN} Proton Anti-proton Collider," *Phys. Lett. B*, vol. 122, p. 189, 1983
 - 24) G. Arnison *et al.*, "First Observation of Correlations Between High Transverse Momentum Charged Particles in Events From the {CERN} Proton Anti-proton Collider," *Phys. Lett. B*, vol. 118, pp. 173–177, 1982
 - 25) G. Arnison *et al.*, "Small Angle Elastic Scattering at the {CERN} Proton Anti-proton Collider," *Phys. Lett. B*, vol. 121, pp. 77–82, 1983
 - 26) G. Arnison *et al.*, "Transverse Momentum Spectra for Charged Particles at the CERN Proton anti-Proton Collider," *Phys. Lett. B*, vol. 118, pp. 167–172, 1982
 - 27) G. Arnison *et al.*, "Transverse Energy Distributions in the Central Calorimeters," *J. Phys. Colloq.*, vol. 43, no. C3, p. 765, 1982
 - 28) G. Arnison *et al.*, "Transverse Momentum Spectrum OF Neutral Electromagnetic Particles Produced at the CERN Proton Anti-Proton Collider," in *21st International Conference on High Energy Physics*, 8 1982
- R&D AND OTHER EXPERIMENTS(18)
- 1) L. Badurina *et al.*, "AION: An Atom Interferometer Observatory and Network," *JCAP*, vol. 05, p. 011, 2020
 - 2) Y. A. El-Neaj *et al.*, "AEDGE: Atomic Experiment for Dark Matter and Gravity Exploration in Space," *EPJ Quant. Technol.*, vol. 7, p. 6, 2020
 - 3) B. Goddard *et al.*, "Physics Opportunities with the FCC-hh Injectors," *CERN Yellow Rep. Monogr.*, vol. 3, pp. 693–705, 2017
 - 4) T. Coane *et al.*, "Scintillator Based Calorimetry for the SSC. A Subsystem Proposal," 10 1989
 - 5) A. Affolder *et al.*, "Silicon detectors for the sLHC," *Nucl. Instrum. Meth. A*, vol. 658, pp. 11–16, 2011
 - 6) M. Moll *et al.*, "Development of radiation tolerant semiconductor detectors for the Super-LHC," *Nucl. Instrum. Meth. A*, vol. 546, pp. 99–107, 2005
 - 7) G. Casse, P. P. Allport, S. F. Biagi, T. J. V. Bowcock, A. Greenall, and P. R. Turner, "Charge collection and charge sharing in heavily irradiated n-side read-out silicon microstrip detectors," *Nucl. Instrum. Meth. A*, vol. 511, pp. 112–117, 2003
 - 8) P. Collins *et al.*, "Cryogenic operation of silicon detectors," *Nucl. Instrum. Meth. A*, vol. 447, pp. 151–159, 2000
 - 9) P. P. Allport *et al.*, "Silicon detector for forward tracking in ATLAS," *Nucl. Instrum. Meth. A*, vol. 383, pp. 27–34, 1996
 - 10) S. Kiourkos, S. F. Biagi, T. J. V. Bowcock, T. J. Jones, and J. N. Jackson, "Comparison of experimental measurements and electrostatic simulations of keystone geometry microstrip gas chambers," *Nucl. Instrum. Meth. A*, vol. 348, pp. 351–355, 1994
 - 11) F. Sauli *et al.*, "RD-28 development of microstrip gas chambers for radiation detection and tracking at high rates," 8 1993
 - 12) G. H. Trilling *et al.*, "Technical Design of a Detector (Solenoidal Detector) April 1, 1992 to be Operated at the Superconducting Super Collider," 4 1992
 - 13) B. Foster *et al.*, "Intermediate Angle Track Detector: Conceptual Design Report," 1 1992
 - 14) J. B. Dainton, T. J. V. Bowcock, S. F. Biagi, P. S. L. Booth, J. N. Jackson, T. J. Jones, S. Kiourkos, and J. M. Morton, "Operation of thin effective substrate microstrip gas avalanche chambers," in *26th International Conference on High-energy Physics*, pp. 1700–1704, 1992
 - 15) E. F. Barasch *et al.*, "The Microstrip Chamber: Ultra-precise Tracking for SSC Detectors," in *Symposium on Detector Research & Development for the Super Collider*, pp. 209–212, 11 1990
 - 16) E. F. Barasch, T. J. V. Bowcock, M. M. Drew, S. M. Elliott, B. Lee, P. M. McIntyre, Y. Pang, M. Popovic, D. D. Smith, and J. Wahl, "The Knife edge chamber: A Track chamber for SSC detectors," in *15th APS Division of Particles and Fields General Meeting*, pp. 1051–1056, 1990
 - 17) G. H. Trilling *et al.*, "Letter of Intent by the Solenoidal Detector Collaboration to Construct and Operate A Detector at the Superconducting Super Collider," 11 1990

- 18) G. H. Trilling *et al.*, "Expression of Interest by the Solenoidal Detector Collaboration to Construct and Operate A Detector at the Superconducting Super Collider," 5 1990

THESIS

- 1) T. J. V. Bowcock, *A study of hadronic jets and parton properties produced at the CERN SPS $p\bar{p}$ collider*. PhD thesis, London U., London, 1984