

List of Publications Katharina Müller, September 30, 2017

Articles with the LHCb collaboration

- **“Study of Υ production in p Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1810.07655 [hep-ex] , DOI:10.1007/JHEP11(2018)194
JHEP **1811**, 194 (2018)
- **“Evidence for an $\eta_c(1S)\pi^-$ resonance in $B^0 \rightarrow \eta_c(1S)K^+\pi^-$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1809.07416 [hep-ex] , DOI:10.1140/epjc/s10052-018-6447-z
Eur. Phys. J. C **78**, no. 12, 1019 (2018)
- **“Search for lepton-flavour-violating decays of Higgs-like bosons”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1808.07135 [hep-ex] , DOI:10.1140/epjc/s10052-018-6386-8
Eur. Phys. J. C **78**, no. 12, 1008 (2018)
- **“Measurement of antiproton production in pHe collisions at $\sqrt{s_{NN}} = 110$ GeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1808.06127 [hep-ex] , DOI:10.1103/PhysRevLett.121.222001
Phys. Rev. Lett. **121**, no. 22, 222001 (2018)
- **“Angular moments of the decay $\Lambda_b^0 \rightarrow \Lambda\mu^+\mu^-$ at low hadronic recoil”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1808.00264 [hep-ex] , DOI:10.1007/JHEP09(2018)146
JHEP **1809**, 146 (2018)
- **“Search for CP violation in $\Lambda_b^0 \rightarrow pK^-$ and $\Lambda_b^0 \rightarrow p\pi^-$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1807.06544 [hep-ex] , DOI:10.1016/j.physletb.2018.10.039
Phys. Lett. B **787**, 124 (2018)
- **“Observation of $B_s^0 \rightarrow \bar{D}^{*0}\phi$ and search for $B^0 \rightarrow \bar{D}^0\phi$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1807.01892 [hep-ex] , DOI:10.1103/PhysRevD.98.071103
Phys. Rev. D **98**, no. 7, 071103 (2018)
- **“Observation of the decay $B_s^0 \rightarrow \bar{D}^0 K^+ K^-$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1807.01891 [hep-ex] , DOI:10.1103/PhysRevD.98.072006
Phys. Rev. D **98**, no. 7, 072006 (2018)
- **“Measurement of the Ω_c^0 baryon lifetime”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1807.02024 [hep-ex] , DOI:10.1103/PhysRevLett.121.092003
Phys. Rev. Lett. **121**, no. 9, 092003 (2018)
- **“First Observation of the Doubly Charmed Baryon Decay $\Xi_{cc}^{++} \rightarrow \Xi_c^+ \pi^+$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1807.01919 [hep-ex] , DOI:10.1103/PhysRevLett.121.162002
Phys. Rev. Lett. **121**, no. 16, 162002 (2018)
- **“Measurement of Angular and CP Asymmetries in $D^0 \rightarrow \pi^+\pi^-\mu^+\mu^-$ and $D^0 \rightarrow K^+K^-\mu^+\mu^-$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1806.10793 [hep-ex] , DOI:10.1103/PhysRevLett.121.091801
Phys. Rev. Lett. **121**, no. 9, 091801 (2018)

- **“Observation of the decay $\overline{B}_s^0 \rightarrow \chi_{c2} K^+ K^-$ in the mass region”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1806.10576 [hep-ex] , DOI:10.1007/JHEP08(2018)191
JHEP **1808**, 191 (2018), [APS Physics **2018**, 191 (2018)]
- **“Search for beautiful tetraquarks in the $\Upsilon(1S)\mu^+\mu^-$ invariant-mass spectrum”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1806.09707 [hep-ex] , DOI:10.1007/JHEP10(2018)086
JHEP **1810**, 086 (2018)
- **“Observation of the decay $\Lambda_b^0 \rightarrow \psi(2S)p\pi^-$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1806.08084 [hep-ex] , DOI:10.1007/JHEP08(2018)131
JHEP **1808**, 131 (2018)
- **“Measurement of $Z \rightarrow \tau^+\tau^-$ production in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1806.05008 [hep-ex] , DOI:10.1007/JHEP09(2018)159
JHEP **1809**, 159 (2018)
- **“Central exclusive production of J/ψ and $\psi(2S)$ mesons in pp collisions at $\sqrt{s} = 13$ TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1806.04079 [hep-ex] , DOI:10.1007/JHEP10(2018)167
JHEP **1810**, 167 (2018)
- **“Measurement of the Lifetime of the Doubly Charmed Baryon Ξ_{cc}^{++} ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1806.02744 [hep-ex] , DOI:10.1103/PhysRevLett.121.052002
Phys. Rev. Lett. **121**, no. 5, 052002 (2018)
- **“Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K_S^0 K_S^0$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1806.01642 [hep-ex] , DOI:10.1007/JHEP11(2018)048
JHEP **1811**, 048 (2018)
- **“Measurement of the CKM angle γ using $B^\pm \rightarrow DK^\pm$ with $D \rightarrow K_S^0 \pi^+ \pi^-$, $K_S^0 K^+ K^-$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1806.01202 [hep-ex] , DOI:10.1007/JHEP10(2018)107, 10.1007/JHEP08(2018)176
JHEP **1808**, 176 (2018), [JHEP **2018**, 176 (2020)], Erratum: [JHEP **1810**, 107 (2018)]
- **“Measurement of D_s^\pm production asymmetry in pp collisions at $\sqrt{s} = 7$ and 8 TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1805.09869 [hep-ex] , DOI:10.1007/JHEP08(2018)008
JHEP **1808**, 008 (2018)
- **“Observation of a new Ξ_b^- resonance”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1805.09418 [hep-ex] , DOI:10.1103/PhysRevLett.121.072002
Phys. Rev. Lett. **121**, no. 7, 072002 (2018)
- **“Search for a dimuon resonance in the Υ mass region”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1805.09820 [hep-ex] , DOI:10.1007/JHEP09(2018)147
JHEP **1809**, 147 (2018)
- **“Measurement of CP asymmetries in two-body $B_{(s)}^0$ -meson decays to charged pions and kaons”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1805.06759 [hep-ex] , DOI:10.1103/PhysRevD.98.032004
Phys. Rev. D **98**, no. 3, 032004 (2018)

- **“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”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1805.03941 [hep-ex] , DOI:10.1007/JHEP08(2018)039
JHEP **1808**, 039 (2018)
- **“Measurement of CP violation in $B^0 \rightarrow D^\mp \pi^\pm$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1805.03448 [hep-ex] , DOI:10.1007/JHEP06(2018)084
JHEP **1806**, 084 (2018)
- **“Observation of the decay $\Lambda_b^0 \rightarrow \Lambda_c^+ p \bar{p} \pi^-$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1804.09617 [hep-ex] , DOI:10.1016/j.physletb.2018.07.033
Phys. Lett. B **784**, 101 (2018)
- **“Measurement of Υ production in pp collisions at $\sqrt{s} = 13$ TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1804.09214 [hep-ex] , DOI:10.1007/JHEP07(2018)134
JHEP **1807**, 134 (2018)
- **“Evidence for the decay $B_S^0 \rightarrow \bar{K}^{*0} \mu^+ \mu^-$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1804.07167 [hep-ex] , DOI:10.1007/JHEP07(2018)020
JHEP **1807**, 020 (2018)
- **“Measurement of the CP asymmetry in $B^- \rightarrow D_s^- D^0$ and $B^- \rightarrow D^- D^0$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1803.10990 [hep-ex] , DOI:10.1007/JHEP05(2018)160
JHEP **1805**, 160 (2018)
LHCb-PAPER-2018-007, CERN-EP-2018-046, LHCb-PAPER-2018-007
“Measurement of the inelastic pp cross-section at a centre-of-mass energy of 13 TeV”
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1803.10974 [hep-ex] , DOI:10.1007/JHEP06(2018)100
JHEP **1806**, 100 (2018)
- **“Measurement of forward top pair production in the dilepton channel in pp collisions at $\sqrt{s} = 13$ TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1803.05188 [hep-ex] , DOI:10.1007/JHEP08(2018)174
JHEP **1808**, 174 (2018)
- **“Amplitude analysis of the decay $\bar{B}^0 \rightarrow K_S^0 \pi^+ \pi^-$ and first observation of the CP asymmetry in $\bar{B}^0 \rightarrow K^*(892)^- \pi^+$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1712.09320 [hep-ex] , DOI:10.1103/PhysRevLett.120.261801
Phys. Rev. Lett. **120**, no. 26, 261801 (2018)
- **“First measurement of the CP-violating phase $\phi_s^{d\bar{d}}$ in $B_s^0 \rightarrow (K^+ \pi^-)(K^- \pi^+)$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1712.08683 [hep-ex] , DOI:10.1007/JHEP03(2018)140
JHEP **1803**, 140 (2018)
- **“Studies of the resonance structure in $D^0 \rightarrow K^\mp \pi^\pm \pi^\pm \pi^\mp$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1712.08609 [hep-ex] , DOI:10.1140/epjc/s10052-018-5758-4
Eur. Phys. J. C **78**, no. 6, 443 (2018)
- **“Evidence for the rare decay $\Sigma^+ \rightarrow p \mu^+ \mu^-$ ”**
R. Aaij *et al.* [LHCb Collaboration].

arXiv:1712.08606 [hep-ex] , DOI:10.1103/PhysRevLett.120.221803
Phys. Rev. Lett. **120**, no. 22, 221803 (2018)

- **“Search for weakly decaying b -flavored pentaquarks”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1712.08086 [hep-ex] , DOI:10.1103/PhysRevD.97.032010
Phys. Rev. D **97**, no. 3, 032010 (2018)
- **“Search for the rare decay $\Lambda_c^+ \rightarrow p\mu^+\mu^-$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1712.07938 [hep-ex] , DOI:10.1103/PhysRevD.97.091101
Phys. Rev. D **97**, no. 9, 091101 (2018)
- **“Measurement of CP asymmetry in $B_s^0 \rightarrow D_s^\mp K^\pm$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1712.07428 [hep-ex] , DOI:10.1007/JHEP03(2018)059
JHEP **1803**, 059 (2018)
- **“A measurement of the CP asymmetry difference in $\Lambda_c^+ \rightarrow pK^-K^+$ and $p\pi^-\pi^+$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1712.07051 [hep-ex] , DOI:10.1007/JHEP03(2018)182
JHEP **1803**, 182 (2018)
- **“Search for B_c^+ decays to two charm mesons”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1712.04702 [hep-ex] , DOI:10.1016/j.nuclphysb.2018.03.015
Nucl. Phys. B **930**, 563 (2018)
- **“Search for excited B_c^+ states”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1712.04094 [hep-ex] , DOI:10.1007/JHEP01(2018)138
JHEP **1801**, 138 (2018)
- **“Updated determination of D^0 - \bar{D}^0 mixing and CP violation parameters with $D^0 \rightarrow K^+\pi^-$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1712.03220 [hep-ex] , DOI:10.1103/PhysRevD.97.031101
Phys. Rev. D **97**, no. 3, 031101 (2018)
- **“First observation of $B^+ \rightarrow D_s^+ K^+ K^-$ decays and a search for $B^+ \rightarrow D_s^+ \phi$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1711.05637 [hep-ex] , DOI:10.1007/JHEP01(2018)131
JHEP **1801**, 131 (2018)
- **“Measurement of the ratio of branching fractions $\mathcal{B}(B_c^+ \rightarrow J/\psi\tau^+\nu_\tau)/\mathcal{B}(B_c^+ \rightarrow J/\psi\mu^+\nu_\mu)$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1711.05623 [hep-ex] , DOI:10.1103/PhysRevLett.120.121801
Phys. Rev. Lett. **120**, no. 12, 121801 (2018)
- **“Measurement of branching fractions of charmless four-body Λ_b^0 and Ξ_b^0 decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1711.05490 [hep-ex] , DOI:10.1007/JHEP02(2018)098
JHEP **1802**, 098 (2018)
- **“Test of Lepton Flavor Universality by the measurement of the $B^0 \rightarrow D^{*-}\tau^+\nu_\tau$ branching fraction using three-prong τ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1711.02505 [hep-ex] , DOI:10.1103/PhysRevD.97.072013
Phys. Rev. D **97**, no. 7, 072013 (2018)

- **“Measurements of the branching fractions of $\Lambda_c^+ \rightarrow p\pi^-\pi^+$, $\Lambda_c^+ \rightarrow pK^-K^+$, and $\Lambda_c^+ \rightarrow p\pi^-K^+$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1711.01157 [hep-ex] , DOI:10.1007/JHEP03(2018)043
JHEP **1803**, 043 (2018)
- **“Search for the lepton-flavour violating decays $B_{(s)}^0 \rightarrow e^\pm\mu^\mp$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1710.04111 [hep-ex] , DOI:10.1007/JHEP03(2018)078
JHEP **1803**, 078 (2018)
- **“Search for Dark Photons Produced in 13 TeV pp Collisions”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1710.02867 [hep-ex] , DOI:10.1103/PhysRevLett.120.061801
Phys. Rev. Lett. **120**, no. 6, 061801 (2018)
- **“Measurement of CP observables in $B^\pm \rightarrow DK^{*\pm}$ decays using two- and four-body D final states”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1709.05855 [hep-ex] , DOI:10.1007/JHEP05(2018)067, 10.1007/JHEP11(2017)156
JHEP **1711**, 156 (2017), Erratum: [JHEP **1805**, 067 (2018)]
- **“First observation of forward $Z \rightarrow b\bar{b}$ production in pp collisions at $\sqrt{s} = 8$ TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1709.03458 [hep-ex] , DOI:10.1016/j.physletb.2017.11.066
Phys. Lett. B **776**, 430 (2018)
- **“Measurement of the ratio of the $B^0 \rightarrow D^{*-}\tau^+\nu_\tau$ and $B^0 \rightarrow D^{*-}\mu^+\nu_\mu$ branching fractions using three-prong τ -lepton decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1708.08856 [hep-ex] , DOI:10.1103/PhysRevLett.120.171802
Phys. Rev. Lett. **120**, no. 17, 171802 (2018)
- **“Measurement of CP observables in $B^\pm \rightarrow D^{(*)}K^\pm$ and $B^\pm \rightarrow D^{(*)}\pi^\pm$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1708.06370 [hep-ex] , DOI:10.1016/j.physletb.2017.11.070
Phys. Lett. B **777**, 16 (2018)
- **“Measurement of the B^\pm production cross-section in pp collisions at $\sqrt{s} = 7$ and 13 TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1710.04921 [hep-ex] , DOI:10.1007/JHEP12(2017)026
JHEP **1712**, 026 (2017)
- **“ χ_{c1} and χ_{c2} Resonance Parameters with the Decays $\chi_{c1,c2} \rightarrow J/\psi\mu^+\mu^-$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1709.04247 [hep-ex] , DOI:10.1103/PhysRevLett.119.221801
Phys. Rev. Lett. **119**, no. 22, 221801 (2017)
- **“Measurement of CP violation in $B^0 \rightarrow J/\psi K_S^0$ and $B^0 \rightarrow \psi(2S)K_S^0$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1709.03944 [hep-ex] , DOI:10.1007/JHEP11(2017)170
JHEP **1711**, 170 (2017)
- **“Measurement of the shape of the $\Lambda_b^0 \rightarrow \Lambda_c^+\mu^-\bar{\nu}_\mu$ differential decay rate”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1709.01920 [hep-ex] , DOI:10.1103/PhysRevD.96.112005
Phys. Rev. D **96**, no. 11, 112005 (2017)
- **“Bose-Einstein correlations of same-sign charged pions in the forward region in pp collisions at $\sqrt{s} = 7$ TeV”**
R. Aaij *et al.* [LHCb Collaboration].

arXiv:1709.01769 [hep-ex] , DOI:10.1007/JHEP12(2017)025
JHEP **1712**, 025 (2017)

- **“Measurement of the Υ polarizations in pp collisions at $\sqrt{s} = 7$ and 8 TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1709.01301 [hep-ex] , DOI:10.1007/JHEP12(2017)110
JHEP **1712**, 110 (2017)
- **“First Observation of the Rare Purely Baryonic Decay $B^0 \rightarrow p\bar{p}$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1709.01156 [hep-ex] , DOI:10.1103/PhysRevLett.119.232001
Phys. Rev. Lett. **119**, no. 23, 232001 (2017)
- **“Study of $b\bar{b}$ correlations in high energy proton-proton collisions”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1708.05994 [hep-ex] , DOI:10.1007/JHEP11(2017)030
JHEP **1711**, 030 (2017)
- **“Search for Baryon-Number Violating Ξ_b^0 Oscillations”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1708.05808 [hep-ex] , DOI:10.1103/PhysRevLett.119.181807
Phys. Rev. Lett. **119**, no. 18, 181807 (2017)
- **“Observation of D^0 meson decays to $\pi^+\pi^-\mu^+\mu^-$ and $K^+K^-\mu^+\mu^-$ final states”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1707.08377 [hep-ex] , DOI:10.1103/PhysRevLett.119.181805
Phys. Rev. Lett. **119**, no. 18, 181805 (2017)
- **“Study of prompt D^0 meson production in p Pb collisions at $\sqrt{s_{NN}} = 5$ TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1707.02750 [hep-ex] , DOI:10.1007/JHEP10(2017)090
JHEP **1710**, 090 (2017)
- **“Updated branching fraction measurements of $B_{(s)}^0 \rightarrow K_s^0 h^+ h'^-$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1707.01665 [hep-ex] , DOI:10.1007/JHEP11(2017)027
JHEP **1711**, 027 (2017)
- **“Observation of the doubly charmed baryon Ξ_{cc}^{++} ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1707.01621 [hep-ex] , DOI:10.1103/PhysRevLett.119.112001
Phys. Rev. Lett. **119**, no. 11, 112001 (2017)
- **“Prompt and nonprompt J/ψ production and nuclear modification in p Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1706.07122 [hep-ex] , DOI:10.1016/j.physletb.2017.09.058
Phys. Lett. B **774**, 159 (2017)
- **“Study of charmonium production in b -hadron decays and first evidence for the decay $B_s^0 \rightarrow \phi\phi$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1706.07013 [hep-ex] , DOI:10.1140/epjc/s10052-017-5151-8
Eur. Phys. J. C **77**, no. 9, 609 (2017)
- **“Improved limit on the branching fraction of the rare decay $K_S^0 \rightarrow \mu^+\mu^-$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1706.00758 [hep-ex] , DOI:10.1140/epjc/s10052-017-5230-x
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- **“Updated search for long-lived particles decaying to jet pairs”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1705.07332 [hep-ex] , DOI:10.1140/epjc/s10052-017-5178-x
Eur. Phys. J. C **77**, no. 12, 812 (2017)
- **“Test of lepton universality with $B^0 \rightarrow K^{*0} \ell^+ \ell^-$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1705.05802 [hep-ex] , DOI:10.1007/JHEP08(2017)055
JHEP **1708**, 055 (2017)
- **“Measurement of B_s^0 and D_s^- meson lifetimes”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1705.03475 [hep-ex] , DOI:10.1103/PhysRevLett.119.101801
Phys. Rev. Lett. **119**, no. 10, 101801 (2017)
- **“Observation of charmless baryonic decays $B_{(s)}^0 \rightarrow p \bar{p} h^+ h'^-$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1704.08497 [hep-ex] , DOI:10.1103/PhysRevD.96.051103
Phys. Rev. D **96**, no. 5, 051103 (2017)
- **“Resonances and CP violation in B_s^0 and $\bar{B}_s^0 \rightarrow J/\psi K^+ K^-$ decays in the mass region above the $\phi(1020)$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1704.08217 [hep-ex] , DOI:10.1007/JHEP08(2017)037
JHEP **1708**, 037 (2017)
- **“First observation of a baryonic B_s^0 decay”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1704.07908 [hep-ex] , DOI:10.1103/PhysRevLett.119.041802
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- **“Observation of the decays $\Lambda_b^0 \rightarrow \chi_{c1} p K^-$ and $\Lambda_b^0 \rightarrow \chi_{c2} p K^-$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1704.07900 [hep-ex] , DOI:10.1103/PhysRevLett.119.062001
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- **“Observation of the $B^+ \rightarrow D^{*-} K^+ \pi^+$ decay”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1704.07581 [hep-ex] , DOI:10.1103/PhysRevD.96.011101
Phys. Rev. D **96**, no. 1, 011101 (2017)
- **“Measurement of B^0 , B_s^0 , B^+ and Λ_b^0 production asymmetries in 7 and 8 TeV proton-proton collisions”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1703.08464 [hep-ex] , DOI:10.1016/j.physletb.2017.09.023
Phys. Lett. B **774**, 139 (2017)
- **“Measurement of the $B_s^0 \rightarrow \mu^+ \mu^-$ branching fraction and effective lifetime and search for $B^0 \rightarrow \mu^+ \mu^-$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1703.05747 [hep-ex] , DOI:10.1103/PhysRevLett.118.191801
Phys. Rev. Lett. **118**, no. 19, 191801 (2017)
- **“Observation of five new narrow Ω_c^0 states decaying to $\Xi_c^+ K^-$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1703.04639 [hep-ex] , DOI:10.1103/PhysRevLett.118.182001
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- **“Search for the decays $B_s^0 \rightarrow \tau^+ \tau^-$ and $B^0 \rightarrow \tau^+ \tau^-$ ”**
R. Aaij *et al.* [LHCb Collaboration].
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- **“Observation of the decay $\Lambda_b^0 \rightarrow pK^-\mu^+\mu^-$ and a search for CP violation”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1703.00256 [hep-ex] , DOI:10.1007/JHEP06(2017)108
JHEP **1706**, 108 (2017)
- **“Observation of the decay $B_s^0 \rightarrow \eta_c\phi$ and evidence for $B_s^0 \rightarrow \eta_c\pi^+\pi^-$ ”**
R. Aaij *et al.* [LHCb Collaboration].
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- **Heavy Flavour and Quarkonia Production at LHCb,**
Kruger2016 - Workshop on Discovery Physics at the LHC, Mpumulanga, South Africa, December 4 - 9, 2016
- **Physics with electroweak bosons in the forward direction at LHCb,**
Implications of LHCb Measurements and Future Prospects, CERN, Switzerland, October 10-12, 2016
- **Impact of LHC measurements on parton density functions,**
QCD@LHC International Conference, Zurich, Switzerland, August 22-26 2016
- **Impact of LHC measurements on parton density functions,**
4th Conference on Large Hadron Collider Physics 2016 (LHCP 2016), Lund, Sweden, June 13-18 2016
- **QCD at colliders,**
24th International Workshop on Deep Inelastic Scattering and related subjects, Hamburg, Germany, April 11 - 15 2016
- **LHCb results in proton-nucleus collisions at the LHC,**
STARS 2015, 3rd Caribbean Symposium on Cosmology, Gravitation, Nuclear and Astroparticle Physics, Havana, Cuba, May 10-16 2015
- **LHCb results in proton-nucleus collisions at the LHC,**
Kruger 2014: The International Workshop on Discovery Physics at the LHC, Skukuza, South Africa, December 1 - 5 2014
- **Central exclusive quarkonia production in the forward region at LHCb,**
Kruger 2014: The International Workshop on Discovery Physics at the LHC, Skukuza, South Africa, December 1 - 5 2014
- **Measurements with electroweak bosons at LHCb**
20th Particles and Nuclei International Conference, 24 - 29 Aug 2014, Hamburg, Germany
- **LHCb results in proton-nucleus collisions at the LHC**
20th Particles and Nuclei International Conference, 24 - 29 Aug 2014, Hamburg, Germany
- **Electroweak and central exclusive measurements in the forward region at LHCb**
Seminar, 8. July 2014, Heidelberg, Germany
- **QCD and electroweak measurements in the forward region at LHCb**
26th Rencontres de Blois on Particle Physics and Cosmology, 18 - 23 May 2014, Blois, France
- **Results and prospects on central exclusive production at LHCb**
Low-x workshop, 30 May - 4 June 2013, Rehovot and Eilat, Israel
- **Measurements with electroweak bosons in the forward region at LHCb**
DESY physics seminars, Hamburg and Berlin, Germany, 27 and 28 November 2012
- **Measurements with electroweak bosons at LHCb**
QCD@LHC, East-Lansing, Michigan, United States of America, 19 - 24 August 2012

- **Electroweak results at LHCb**
CERN seminar, Katharina Müller, Switzerland, 5 June 2012
- **Electroweak results at LHCb**
SM@LHC, Copenhagen, Denmark, 10 - 13 April 2012,
- **Electroweak physics: results and prospects**
Physics at LHCb, 479 WE-Heraeus Seminar, Bad Honnef, Germany, 26 - 29 April 2011
- **W and Z production in forward region at LHCb**
EIPHANY 2011 conference, 10 - 12 January 2011, Cracow, Poland, 2011
- **Precision measurements with jets and particles at HERA on behalf of the H1 and ZEUS collaborations**
QCD10 in Montpellier, 28 June -2 July 2010, Montpellier, France, 2010
- **Photon structure and photoproduction at HERA**
Photon09 in Hamburg, 11 -15 June 2009, Hamburg, 2009
- **H1 results**
CHIPP workshop on the High-Energy Frontier of Particle Physics in Zurich, Zurich, Switzerland, 4.-7.9. 2006
- **Prompt Photons at HERA**
Workshop HERA and the LHC, 6.-9.5. 2006, Geneva, Switzerland, 2006
- **H1 experiment at HERA**
ECFA (European Commission for Future Accelerators) meeting in Zuerich, 1.3. 2002
- **The structure of real and virtual photons at HERA**
International Europhysics Conference on High Energy Physics, Jerusalem, Israel, 1997
- **Particle spectra and multiplicities in deep inelastic scattering (DIS) and distributions in photo production and DIS at HERA**
28th International Conference on High Energy Physics, Warsaw, 1996
- **Measurement of the Proton Structure Function F_2 and the Gluon Density xg at HERA (H1)**
14th International Conference on Particles and Nuclei, Williamsburg, Virginia, USA, 1996
- **Results on the Proton Structure Function F_2 and the Diffractive Contribution to F_2**
Les Rencontres de Moriond, La Thuile, France 1994
- **A thin cylindrical multiwire proportional chamber with cathode pad readout for the H1 experiment**
Poster presented at the '6th International Wire Chamber Conference'
Vienna, 1992

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- **Pressure effects for NQR parameters in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$**
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