

**Allegato alla domanda di partecipazione
Curriculum formativo, didattico, scientifico e professionale del candidato**

Dichiarazione sostitutiva di certificazioni (Art. 46, D.P.R. 28 dicembre 2000 n. 445) Dichiarazione sostitutiva dell'atto di notorietà (da sottoscrivere davanti all'impiegato addetto o da presentare o spedire con la fotocopia di un documento di identità) (Art. 47, D.P.R. 28 dicembre 2000 n. 445)
--

Estremi del bando di selezione	D.R. n. 865
Informazioni aggiornate al	25/09/20
Nome e Cognome	Samuel BELIN
Data di nascita	20/09/94

Si raccomanda di indicare con precisione tutti gli elementi valutabili ai sensi del bando di selezione (aggiungere o togliere righe secondo necessità).

Esperienza professionale

Periodo	Ente	Principali attività e responsabilità
2017-2020	Università degli studi Cagliari	Dottorando con la collaborazione LHCb
2017	Université Lyon 1	Tirocino con la collaborazione ALICE

Istruzione, formazione (es. titoli di studio, certificazioni professionali/linguistiche/informatiche)

Data	Titolo / Principali tematiche	Ente
Master	Subatomic physics	Université Lyon 1
License	Physic	Université Lyon 1

Pubblicazioni / Convegni

Lista dei pubblicazioni pagina 2
Presentazione e sezione poster alla conferenza Hard Probes 2020, USA
Sezione poster alla conferenza Quark Matter 2019, CINA
Presentazione allo Ion Fixed Target Workshop 2019, ITALIA
Presentazione a QGP France 2019, FRANCE
Presentazione alla conferenza Hard Probes 2018, FRANCE

Altre attività scientifiche

Joliot Curie School 2018, FRANCE
CERN ESHEP 2018, ITALIA
LHCb masterclass per studenti delle scuole superiori
Guida presso la mostra "L'universo a portata di mano" a Cagliari

Luogo, data e firma

Cagliari, il 13.11.2020

List of publications

Samuel BELIN

- “Proceeding”:
- 1. **“Exclusive Charmonium production in PbPb and pp collisions at LHCb”**
Belin Samuel, on behalf of the LHCb collaboration.
<https://pos.sissa.it/345/188>
DOI:10.22323/1.345.0188
Hard Probes 2019
- As part of the LHCb Cagliari group:
- 1. **“Study of coherent J/ψ production in lead-lead collisions at $\sqrt{s_{NN}} = 5$ TeV with the LHCb experiment”**
R. Aaij *et al.* [LHCb Collaboration].
LHCb-CONF-2018-003, CERN-LHCb-CONF-2018-003
- As a member of the LHCb collaboration:
- 1. **“First observation of the decay $B^0 \rightarrow D^0 \bar{D}^0 K^+ \pi^-$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:2007.04280 [hep-ex]
DOI:10.1103/PhysRevD.102.051102
Phys. Rev. D **102**, no. 5, 051102 (2020)
LHCb-PAPER-2020-015, CERN-EP-2020-112
- 2. **“Study of the $\psi_2(3823)$ and $\chi_{c1}(3872)$ states in $B^+ \rightarrow (J/\psi \pi^+ \pi^-) K^+$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:2005.13422 [hep-ex]
DOI:10.1007/JHEP08(2020)123
JHEP **2008**, 123 (2020)
CERN-EP-2020-071, LHCb-PAPER-2020-009
- 3. **“Measurement of the $\Lambda_b^0 \rightarrow J/\psi \Lambda$ angular distribution and the Λ_b^0 polarisation in pp collisions”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:2004.10563 [hep-ex]
DOI:10.1007/JHEP06(2020)110
JHEP **2006**, 110 (2020)
LHCb-PAPER-2020-005, CERN-EP-2020-051
- 4. **“Precision measurement of the B_c^+ meson mass”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:2004.08163 [hep-ex]
DOI:10.1007/JHEP07(2020)123
JHEP **2007**, 123 (2020)
LHCb-PAPER-2020-003, CERN-EP-2020-048
- 5. **“Observation of new Ξ_c^0 baryons decaying to $\Lambda_c^+ K^-$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:2003.13649 [hep-ex]
DOI:10.1103/PhysRevLett.124.222001
Phys. Rev. Lett. **124**, no. 22, 222001 (2020)
LHCb-PAPER-2020-004, CERN-EP-2020-038

6. **“Search for the rare decays $B_s^0 \rightarrow e^+e^-$ and $B^0 \rightarrow e^+e^-$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:2003.03999 [hep-ex]
DOI:10.1103/PhysRevLett.124.211802
Phys. Rev. Lett. **124**, no. 21, 211802 (2020)
LHCb-PAPER-2020-001, CERN-EP-2020-023
7. **“Measurement of CP observables in $B^\pm \rightarrow DK^\pm$ and $B^\pm \rightarrow D\pi^\pm$ with $D \rightarrow K_S^0 K^\pm \pi^\mp$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:2002.08858 [hep-ex]
DOI:10.1007/JHEP06(2020)058
JHEP **2006**, 058 (2020)
LHCb-PAPER-2019-044, CERN-EP-2020-015, LHCb-PAPER-2019-044-003, LHCb-PAPER-2019-044,
CERN-EP-2020-015
8. **“Measurement of $|V_{cb}|$ with $B_s^0 \rightarrow D_s^{(*)-} \mu^+ \nu_\mu$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:2001.03225 [hep-ex]
DOI:10.1103/PhysRevD.101.072004
Phys. Rev. D **101**, no. 7, 072004 (2020)
LHCb-PAPER-2019-041, CERN-EP-2019-282
9. **“First observation of excited Ω_b^- states”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:2001.00851 [hep-ex]
DOI:10.1103/PhysRevLett.124.082002
Phys. Rev. Lett. **124**, no. 8, 082002 (2020)
LHCb-PAPER-2019-042, CERN-EP-2019-278
10. **“Test of lepton universality with $\Lambda_b^0 \rightarrow p K^- \ell^+ \ell^-$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1912.08139 [hep-ex]
DOI:10.1007/JHEP05(2020)040
JHEP **2005**, 040 (2020)
LHCb-PAPER-2019-040, CERN-EP-2019-272, LHCb-PAPER-2019-040, LHCb-PAPER-2019-040-003
11. **“Measurement of CP violation in $B^0 \rightarrow D^{*\pm} D^\mp$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1912.03723 [hep-ex]
DOI:10.1007/JHEP03(2020)147
JHEP **2003**, 147 (2020)
LHCb-PAPER-2019-036, CERN-EP-2019-264
12. **“Isospin amplitudes in $\Lambda_b^0 \rightarrow J/\psi \Lambda(\Sigma^0)$ and $\Xi_b^0 \rightarrow J/\psi \Xi^0(\Lambda)$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1912.02110 [hep-ex]
DOI:10.1103/PhysRevLett.124.111802
Phys. Rev. Lett. **124**, no. 11, 111802 (2020)
CERN-EP-2019-268, LHCb-PAPER-2019-039, LHCb-PAPER-2019-039-003
13. **“Precision measurement of the Ξ_{cc}^{++} mass”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1911.08594 [hep-ex]
DOI:10.1007/JHEP02(2020)049
JHEP **2002**, 049 (2020)
LHCb-PAPER-2019-037, CERN-EP-2019-258
14. **“Observation of the semileptonic decay $B^+ \rightarrow p \bar{p} \mu^+ \nu_\mu$ ”**
R. Aaij *et al.* [LHCb Collaboration].

arXiv:1911.08187 [hep-ex]
DOI:10.1007/JHEP03(2020)146
JHEP **2003**, 146 (2020)
LHCb-PAPER-2019-034, CERN-EP-2019-236

15. **“Determination of quantum numbers for several excited charmed mesons observed in $B^- \rightarrow D^{*+}\pi^-\pi^-$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1911.05957 [hep-ex]
DOI:10.1103/PhysRevD.101.032005
Phys. Rev. D **101**, no. 3, 032005 (2020)
CERN-EP-2019-201, LHCb-PAPER-2019-027
16. **“Measurement of the $\eta_c(1S)$ production cross-section in pp collisions at $\sqrt{s} = 13$ TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1911.03326 [hep-ex]
DOI:10.1140/epjc/s10052-020-7733-0
Eur. Phys. J. C **80**, no. 3, 191 (2020)
LHCb-PAPER-2019-024, CERN-EP-2019-214
17. **“Updated measurement of decay-time-dependent CP asymmetries in $D^0 \rightarrow K^+K^-$ and $D^0 \rightarrow \pi^+\pi^-$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1911.01114 [hep-ex]
DOI:10.1103/PhysRevD.101.012005
Phys. Rev. D **101**, no. 1, 012005 (2020)
CERN-EP-2019-225, LHCb-PAPER-2019-032
18. **“Measurement of the B_c^- meson production fraction and asymmetry in 7 and 13 TeV pp collisions”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1910.13404 [hep-ex]
DOI:10.1103/PhysRevD.100.112006
Phys. Rev. D **100**, no. 11, 112006 (2019)
CERN-EP-2019-216, LHCb-PAPER-2019-033
19. **“Measurement of Ξ_{cc}^{++} production in pp collisions at $\sqrt{s} = 13$ TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1910.11316 [hep-ex]
DOI:10.1088/1674-1137/44/2/022001
Chin. Phys. C **44**, no. 2, 022001 (2020)
LHCb-PAPER-2019-035, CERN-EP-2019-220
20. **“Measurement of f_s/f_u variation with proton-proton collision energy and B -meson kinematics”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1910.09934 [hep-ex]
DOI:10.1103/PhysRevLett.124.122002
Phys. Rev. Lett. **124**, no. 12, 122002 (2020)
CERN-EP-2019-209, LHCb-PAPER-2019-020
21. **“Search for $A' \rightarrow \mu^+\mu^-$ Decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1910.06926 [hep-ex]
DOI:10.1103/PhysRevLett.124.041801
Phys. Rev. Lett. **124**, no. 4, 041801 (2020)
LHCb-PAPER-2019-031, CERN-EP-2019-212
22. **“Search for the doubly charmed baryon Ξ_{cc}^+ ”**
R. Aaij *et al.* [LHCb Collaboration].

arXiv:1909.12273 [hep-ex]
DOI:10.1007/s11433-019-1471-8
Sci. China Phys. Mech. Astron. **63**, no. 2, 221062 (2020)
LHCb-PAPER-2019-029, CERN-EP-2019-199

23. **“Amplitude analysis of the $B^+ \rightarrow \pi^+\pi^+\pi^-$ decay”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1909.05212 [hep-ex]
DOI:10.1103/PhysRevD.101.012006
Phys. Rev. D **101**, no. 1, 012006 (2020)
LHCb-PAPER-2019-017, CERN-EP-2019-157
24. **“Observation of Several Sources of CP Violation in $B^+ \rightarrow \pi^+\pi^+\pi^-$ Decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1909.05211 [hep-ex]
DOI:10.1103/PhysRevLett.124.031801
Phys. Rev. Lett. **124**, no. 3, 031801 (2020)
LHCb-PAPER-2019-018, CERN-EP-2019-156
25. **“Search for Lepton-Flavor Violating Decays $B^+ \rightarrow K^+\mu^\pm e^\mp$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1909.01010 [hep-ex]
DOI:10.1103/PhysRevLett.123.241802
Phys. Rev. Lett. **123**, no. 24, 241802 (2019)
CERN-EP-2019-172, LHCb-PAPER-2019-022
26. **“Measurement of $\psi(2S)$ production cross-sections in proton-proton collisions at $\sqrt{s} = 7$ and 13 TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1908.03099 [hep-ex]
DOI:10.1140/epjc/s10052-020-7638-y
Eur. Phys. J. C **80**, no. 3, 185 (2020)
CERN-EP-2019-150, LHCb-PAPER-2018-049
27. **“Observation of New Resonances in the $\Lambda_b^0\pi^+\pi^-$ System”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1907.13598 [hep-ex]
DOI:10.1103/PhysRevLett.123.152001
Phys. Rev. Lett. **123**, no. 15, 152001 (2019)
LHCb-PAPER-2019-025 CERN-EP-2019-153, LHCb-PAPER-2019-025, CERN-EP-2019-153
28. **“Measurement of CP violation in the $B_s^0 \rightarrow \phi\phi$ decay and search for the $B^0 \rightarrow \phi\phi$ decay”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1907.10003 [hep-ex]
DOI:10.1007/JHEP12(2019)155
JHEP **1912**, 155 (2019)
LHCb-PAPER-2019-019, CERN-EP-2019-121
29. **“Observation of the $\Lambda_b^0 \rightarrow \chi_{c1}(3872)pK^-$ decay”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1907.00954 [hep-ex]
DOI:10.1007/JHEP09(2019)028
JHEP **1909**, 028 (2019)
CERN-EP-2019-131, LHCb-PAPER-2019-023
30. **“Measurement of CP observables in the process $B^0 \rightarrow DK^{*0}$ with two- and four-body D decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1906.08297 [hep-ex]
DOI:10.1007/JHEP08(2019)041

JHEP **1908**, 041 (2019)
LHCb-PAPER-2019-021, CERN-EP-2019-111

31. **“Updated measurement of time-dependent CP -violating observables in $B_s^0 \rightarrow J/\psi K^+ K^-$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1906.08356 [hep-ex]
DOI:10.1140/epjc/s10052-019-7159-8
Eur. Phys. J. C **79**, no. 8, 706 (2019)
LHCb-PAPER-2019-013, CERN-EP-2019-108
32. **“Precision measurement of the Λ_c^+ , Ξ_c^+ and Ξ_c^0 baryon lifetimes”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1906.08350 [hep-ex]
DOI:10.1103/PhysRevD.100.032001
Phys. Rev. D **100**, no. 3, 032001 (2019)
LHCb-PAPER-2019-008, CERN-EP-2019-122
33. **“Amplitude analysis of $B^\pm \rightarrow \pi^\pm K^+ K^-$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1905.09244 [hep-ex]
DOI:10.1103/PhysRevLett.123.231802
Phys. Rev. Lett. **123**, no. 23, 231802 (2019)
LHCb-PAPER-2018-051, CERN-EP-2019-062
34. **“Amplitude analysis of the $B_{(s)}^0 \rightarrow K^{*0} \bar{K}^{*0}$ decays and measurement of the branching fraction of the $B^0 \rightarrow K^{*0} \bar{K}^{*0}$ decay”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1905.06662 [hep-ex]
DOI:10.1007/JHEP07(2019)032
JHEP **1907**, 032 (2019)
LHCb-PAPER-2019-004, CERN-EP-2019-063
35. **“Search for the lepton-flavour-violating decays $B_s^0 \rightarrow \tau^\pm \mu^\mp$ and $B^0 \rightarrow \tau^\pm \mu^\mp$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1905.06614 [hep-ex]
DOI:10.1103/PhysRevLett.123.211801
Phys. Rev. Lett. **123**, no. 21, 211801 (2019)
CERN-EP-2019-076, LHCb-PAPER-2019-016
36. **“Measurement of CP -violating and mixing-induced observables in $B_s^0 \rightarrow \phi \gamma$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1905.06284 [hep-ex]
DOI:10.1103/PhysRevLett.123.081802
Phys. Rev. Lett. **123**, no. 8, 081802 (2019)
LHCb-PAPER-2019-015, CERN-EP-2019-077, LHCb-PAPER-2019-015; CERN-EP-2019-077
37. **“A search for $\Xi_{cc}^{++} \rightarrow D^+ p K^- \pi^+$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1905.02421 [hep-ex]
DOI:10.1007/JHEP10(2019)124
JHEP **1910**, 124 (2019)
LHCb-PAPER-2019-011, CERN-EP-2019-067
38. **“Measurement of charged hadron production in Z -tagged jets in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1904.08878 [hep-ex]
DOI:10.1103/PhysRevLett.123.232001

Phys. Rev. Lett. **123**, no. 23, 232001 (2019)
CERN-EP-2019-065, LHCb-PAPER-2019-012

39. **“First Observation of the Radiative Decay $\Lambda_b^0 \rightarrow \Lambda\gamma$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1904.06697 [hep-ex]
DOI:10.1103/PhysRevLett.123.031801
Phys. Rev. Lett. **123**, no. 3, 031801 (2019)
CERN-EP-2019-060, LHCb-PAPER-2019-010
40. **“Observation of a narrow pentaquark state, $P_c(4312)^+$, and of two-peak structure of the $P_c(4450)^+$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1904.03947 [hep-ex]
DOI:10.1103/PhysRevLett.122.222001
Phys. Rev. Lett. **122**, no. 22, 222001 (2019)
LHCb-PAPER-2019-014 CERN-EP-2019-058
41. **“Observation of an excited B_c^+ state”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1904.00081 [hep-ex]
DOI:10.1103/PhysRevLett.122.232001
Phys. Rev. Lett. **122**, no. 23, 232001 (2019)
CERN-EP-2019-050, LHCb-PAPER-2019-007
42. **“Near-threshold $D\bar{D}$ spectroscopy and observation of a new charmonium state”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1903.12240 [hep-ex]
DOI:10.1007/JHEP07(2019)035
JHEP **1907**, 035 (2019)
CERN-EP-2019-047, LHCb-PAPER-2019-005
43. **“Search for lepton-universality violation in $B^+ \rightarrow K^+\ell^+\ell^-$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1903.09252 [hep-ex]
DOI:10.1103/PhysRevLett.122.191801
Phys. Rev. Lett. **122**, no. 19, 191801 (2019)
LHCb-PAPER-2019-009, CERN-EP-2019-043, LHCb-PAPER-2019-009 CERN-EP-2019-043
44. **“Observation of CP Violation in Charm Decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1903.08726 [hep-ex]
DOI:10.1103/PhysRevLett.122.211803
Phys. Rev. Lett. **122**, no. 21, 211803 (2019)
LHCb-PAPER-2019-006, CERN-EP-2019-042
45. **“Measurements of CP asymmetries in charmless four-body Λ_b^0 and Ξ_b^0 decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1903.06792 [hep-ex]
DOI:10.1140/epjc/s10052-019-7218-1, 10.1140/S10052-019-7218-1
Eur. Phys. J. C **79**, no. 9, 745 (2019)
LHCb-PAPER-2018-044, CERN-EP-2019-13, LHCb-PAPER-2018-044 and CERN-EP-2019-13
46. **“Measurement of the CP-violating phase ϕ_s from $B_s^0 \rightarrow J/\psi\pi^+\pi^-$ decays in 13 TeV pp collisions”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1903.05530 [hep-ex]
DOI:10.1016/j.physletb.2019.07.036
Phys. Lett. B **797**, 134789 (2019)
LHCb-PAPER-2019-003; CERN-EP-2019-037, CERN-EP-2019-037, LHCb-PAPER-2019-003

47. **“Measurement of the mass difference between neutral charm-meson eigenstates”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1903.03074 [hep-ex]
DOI:10.1103/PhysRevLett.122.231802
Phys. Rev. Lett. **122**, no. 23, 231802 (2019)
CERN-EP-2019-032, LHCb-PAPER-2019-001
48. **“Search for CP violation in $D_s^+ \rightarrow K_S^0 \pi^+$, $D^+ \rightarrow K_S^0 K^+$ and $D^+ \rightarrow \phi \pi^+$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1903.01150 [hep-ex]
DOI:10.1103/PhysRevLett.122.191803
Phys. Rev. Lett. **122**, no. 19, 191803 (2019)
LHCb-PAPER-2019-002, CERN-EP-2019-027
49. **“Amplitude analysis of $B_s^0 \rightarrow K_S^0 K^\pm \pi^\mp$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1902.07955 [hep-ex]
DOI:10.1007/JHEP06(2019)114
JHEP **1906**, 114 (2019)
LHCb-PAPER-2018-045, CERN-EP-2019-017
50. **“Measurement of b hadron fractions in 13 TeV pp collisions”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1902.06794 [hep-ex]
DOI:10.1103/PhysRevD.100.031102
Phys. Rev. D **100**, no. 3, 031102 (2019)
CERN-EP-2019-016, LHCb-PAPER-2018-050
51. **“Dalitz plot analysis of the $D^+ \rightarrow K^- K^+ K^+$ decay”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1902.05884 [hep-ex]
DOI:10.1007/JHEP04(2019)063
JHEP **1904**, 063 (2019)
LHCb-PAPER-2018-039, CERN-EP-2018-336
52. **“Observation of $B_{(s)}^0 \rightarrow J/\psi p \bar{p}$ decays and precision measurements of the $B_{(s)}^0$ masses”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1902.05588 [hep-ex]
DOI:10.1103/PhysRevLett.122.191804
Phys. Rev. Lett. **122**, no. 19, 191804 (2019)
CERN-EP-2019-006, LHCb-PAPER-2018-046
53. **“Measurement of B^+ , B^0 and Λ_b^0 production in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1902.05599 [hep-ex]
DOI:10.1103/PhysRevD.99.052011
Phys. Rev. D **99**, no. 5, 052011 (2019)
LHCb-PAPER-2018-048; CERN-EP-2019-010, LHCb-PAPER-2018-048, CERN-EP-2019-010
54. **“Measurement of the mass and production rate of Ξ_b^- baryons”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1901.07075 [hep-ex]
DOI:10.1103/PhysRevD.99.052006
Phys. Rev. D **99**, no. 5, 052006 (2019)
LHCb-PAPER-2018-047, CERN-EP-2018-348
55. **“Observation of the doubly Cabibbo-suppressed decay $\Xi_c^+ \rightarrow p \phi$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1901.06222 [hep-ex]
DOI:10.1007/JHEP04(2019)084

JHEP **1904**, 084 (2019)
LHCb-PAPER-2018-040, CERN-EP-2018-349

56. **“Model-Independent Observation of Exotic Contributions to $B^0 \rightarrow J/\psi K^+ \pi^-$ Decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1901.05745 [hep-ex]
DOI:10.1103/PhysRevLett.122.152002
Phys. Rev. Lett. **122**, no. 15, 152002 (2019)
LHCb-PAPER-2018-043, CERN-EP-2018-330
57. **“Study of the $B^0 \rightarrow \rho(770)^0 K^*(892)^0$ decay with an amplitude analysis of $B^0 \rightarrow (\pi^+ \pi^-)(K^+ \pi^-)$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1812.07008 [hep-ex]
DOI:10.1007/JHEP05(2019)026
JHEP **1905**, 026 (2019)
LHCb-PAPER-2018-042, CERN-EP-2018-316
58. **“Measurement of the branching fraction and CP asymmetry in $B^+ \rightarrow J/\psi \rho^+$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1812.07041 [hep-ex]
DOI:10.1140/epjc/s10052-019-6698-3
Eur. Phys. J. C **79**, no. 6, 537 (2019)
LHCb-PAPER-2018-036, CERN-EP-2018-298
59. **“Search for the rare decay $B^+ \rightarrow \mu^+ \mu^- \mu^+ \nu_\mu$ ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1812.06004 [hep-ex]
DOI:10.1140/epjc/s10052-019-7112-x
Eur. Phys. J. C **79**, no. 8, 675 (2019)
CERN-EP-2018-293, LHCb-PAPER-2018-037
60. **“Search for CP violation through an amplitude analysis of $D^0 \rightarrow K^+ K^- \pi^+ \pi^-$ decays”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1811.08304 [hep-ex]
DOI:10.1007/JHEP02(2019)126
JHEP **1902**, 126 (2019)
LHCb-PAPER-2018-041, CERN-EP-2018-299
61. **“First Measurement of Charm Production in its Fixed-Target Configuration at the LHC”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1810.07907 [hep-ex]
DOI:10.1103/PhysRevLett.123.239901, 10.1103/PhysRevLett.122.132002
Phys. Rev. Lett. **122**, no. 13, 132002 (2019)
LHCb-PAPER-2018-023, CERN-EP-2018-266
62. **“Study of Υ production in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1810.07655 [hep-ex]
DOI:10.1007/JHEP02(2020)093, 10.1007/JHEP11(2018)194
JHEP **1811**, 194 (2018), Erratum: [JHEP **2002**, 093 (2020)]
LHCb-PAPER-2018-035, CERN-EP-2018-267
63. **“Measurement of the Charm-Mixing Parameter y_{CP} ”**
R. Aaij *et al.* [LHCb Collaboration].
arXiv:1810.06874 [hep-ex]
DOI:10.1103/PhysRevLett.122.011802
Phys. Rev. Lett. **122**, no. 1, 011802 (2019)
CERN-EP-2018-270 and LHCb-PAPER-2018-038, LHCb-PAPER-2018-038, CERN-EP-2018-270

64. **“Measurement of the branching fractions of the decays $D^+ \rightarrow K^- K^+ K^+$, $D^+ \rightarrow \pi^- \pi^+ K^+$ and $D_s^+ \rightarrow \pi^- K^+ K^+$ ”**
 R. Aaij *et al.* [LHCb Collaboration].
 arXiv:1810.03138 [hep-ex]
 DOI:10.1007/JHEP03(2019)176
 JHEP **1903**, 176 (2019)
 LHCb-PAPER-2018-033, CERN-EP-2018-244, LHCb-PAPER-2018-033 and CERN-EP-2018-244
65. **“Observation of Two Resonances in the $\Lambda_b^0 \pi^\pm$ Systems and Precise Measurement of Σ_b^{\pm} and $\Sigma_b^{*\pm}$ properties”**
 R. Aaij *et al.* [LHCb Collaboration].
 arXiv:1809.07752 [hep-ex]
 DOI:10.1103/PhysRevLett.122.012001
 Phys. Rev. Lett. **122**, no. 1, 012001 (2019)
 LHCb-PAPER-2018-032, CERN-EP-2018-243
66. **“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)
 LHCb-PAPER-2018-034, CERN-EP-2018-245
67. **“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)
 CERN-EP-2018-210, LHCb-PAPER-2018-030
68. **“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)
 LHCb-PAPER-2018-031, CERN-EP-2018-217
69. **“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)
 CERN-EP-2018-197, LHCb-PAPER-2018-029
70. **“Measurement of the relative $B^- \rightarrow D^0/D^{*0}/D^{**0} \mu^- \bar{\nu}_\mu$ branching fractions using B^- mesons from \bar{B}_{s2}^{*0} decays”**
 R. Aaij *et al.* [LHCb Collaboration].
 arXiv:1807.10722 [hep-ex]
 DOI:10.1103/PhysRevD.99.092009
 Phys. Rev. D **99**, no. 9, 092009 (2019)
 LHCb-PAPER-2018-024, CERN-EP-2018-190
71. **“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)
 LHCb-PAPER-2018-025, CERN-EP-2018-189

72. **“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)
LHCb-PAPER-2018-028, CERN-EP-2018-175, LHCb-PAPER-2018-028
73. **“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)
LHCb-PAPER-2018-026, CERN-EP-2018-172, LHCb-PAPER-2018-026
74. **“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)
LHCb-PAPER-2018-027, CERN-EP-2018-163, LHCb-PAPER-2018-027