

Rapport d'activité LPNHE 2020–2021

Liste de publications du groupe LHCb

15 novembre 2021

Articles

- [1] R Aaij et al. « Measurement of $\psi(2S)$ meson production in pp collisions at $\sqrt{s}=7$ TeV ». *Eur. Phys. J. C* 72 (2012). [Erratum : *Eur.Phys.J.C* 80, 49 (2020)], p. 2100. DOI : [10.1140/epjc/s10052-012-2100-4](https://doi.org/10.1140/epjc/s10052-012-2100-4). arXiv : [1204.1258](https://arxiv.org/abs/1204.1258) [hep-ex].
- [2] Roel Aaij et al. « A model-independent study of resonant structure in $B^+ \rightarrow D^+D^-K^+$ decays ». *Phys. Rev. Lett.* 125 (2020), p. 242001. DOI : [10.1103/PhysRevLett.125.242001](https://doi.org/10.1103/PhysRevLett.125.242001). arXiv : [2009.00025](https://arxiv.org/abs/2009.00025) [hep-ex].
- [3] Roel Aaij et al. « Amplitude analysis of the $B^+ \rightarrow \pi^+\pi^+\pi^-$ decay ». *Phys. Rev. D* 101.1 (2020), p. 012006. DOI : [10.1103/PhysRevD.101.012006](https://doi.org/10.1103/PhysRevD.101.012006). arXiv : [1909.05212](https://arxiv.org/abs/1909.05212) [hep-ex].
- [4] Roel Aaij et al. « Amplitude analysis of the $B^+ \rightarrow D^+D^-K^+$ decay ». *Phys. Rev. D* 102 (2020), p. 112003. DOI : [10.1103/PhysRevD.102.112003](https://doi.org/10.1103/PhysRevD.102.112003). arXiv : [2009.00026](https://arxiv.org/abs/2009.00026) [hep-ex].
- [5] Roel Aaij et al. « Angular analysis of $B^0 \rightarrow D^{*-}D_s^{*+}$ with $D_s^{*+} \rightarrow D_s^+\gamma$ decays ». *JHEP* 06 (2021), p. 177. DOI : [10.1007/JHEP06\(2021\)177](https://doi.org/10.1007/JHEP06(2021)177). arXiv : [2105.02596](https://arxiv.org/abs/2105.02596) [hep-ex].
- [6] Roel Aaij et al. « Angular Analysis of the $B^+ \rightarrow K^{*+}\mu^+\mu^-$ Decay ». *Phys. Rev. Lett.* 126.16 (2021), p. 161802. DOI : [10.1103/PhysRevLett.126.161802](https://doi.org/10.1103/PhysRevLett.126.161802). arXiv : [2012.13241](https://arxiv.org/abs/2012.13241) [hep-ex].
- [7] Roel Aaij et al. « Branching Fraction Measurements of the Rare $B_s^0 \rightarrow \phi\mu^+\mu^-$ and $B_s^0 \rightarrow f_2'(1525)\mu^+\mu^-$ Decays ». *Phys. Rev. Lett.* 127.15 (2021), p. 151801. DOI : [10.1103/PhysRevLett.127.151801](https://doi.org/10.1103/PhysRevLett.127.151801). arXiv : [2105.14007](https://arxiv.org/abs/2105.14007) [hep-ex].
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- [9] Roel Aaij et al. « Determination of quantum numbers for several excited charmed mesons observed in $B^- \rightarrow D^{*+}\pi^-\pi^-$ decays ». *Phys. Rev. D* 101.3 (2020), p. 032005. DOI : [10.1103/PhysRevD.101.032005](https://doi.org/10.1103/PhysRevD.101.032005). arXiv : [1911.05957](https://arxiv.org/abs/1911.05957) [hep-ex].
- [10] Roel Aaij et al. « Evidence of a $J/\psi\Lambda$ structure and observation of excited Ξ^- states in the $\Xi_b^- \rightarrow J/\psi\Lambda K^-$ decay ». *Sci. Bull.* 66 (2021), p. 1391. DOI : [10.1016/j.scib.2021.02.030](https://doi.org/10.1016/j.scib.2021.02.030). arXiv : [2012.10380](https://arxiv.org/abs/2012.10380) [hep-ex].

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