Contribution ID: 154 Type: not specified

Measurement of the lifetime of the doubly charmed baryon Xicc++ at LHCb

Thursday, 20 December 2018 14:45 (15 minutes)

The Doubly charmed baryon Ξ_{cc}^{++} was observed by the LHCb experiment in 2017. Measurements of its properties will allow for precise tests of QCD, the theory of strong interactions, in a unique environment. In this talk, we present the first measurement of the lifetime of the doubly charmed baryon Ξ_{cc}^{++} , with signals reconstructed in the final states $\Lambda_c^+K^-\pi^+\pi^+$ from the data sample collected by the LHCb experiment, corresponding to an integrated luminosity of 1.7 fb $^{-1}$. The measured Ξ_{cc}^{++} lifetime is $0.256_{-0.022}^{+0.024} \pm 0.014$ ps.

Type

Parallel talk

Sessions (parallel only)

Heavy Flavor

Primary author: Mr XU, Ao (清华大学)

Presenter: Mr XU, Ao (清华大学)

Session Classification: Heavy Flavor

Track Classification: Heavy Flavor