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First observation of the doubly charmed baryon decay Xicc++⟶Xic+pi+

Thursday, 20 December 2018 14:30 (15 minutes)

The doubly charmed baryon decay Xicc++->Xic+pi+ is observed for the first time, with a statistical significance of 5.9σ, confirming a recent observation of the baryon in the Lambdac+k-pi+pi+ final state. The data sample used corresponds to an integrated luminosity of 1.7fb−1, collected by the LHCb experiment in pp collisions at a center-of-mass energy of 13TeV. The Xicc mass is measured to be 3620.6±1.5(stat)±0.4(syst)±0.3(Xic+)MeV/c2, and is consistent with the previous result. The ratio of branching fractions between the decay modes is measured to be 0.035±0.009(stat)±0.003(syst).

Type

Parallel talk

Sessions (parallel only)

Heavy Flavor

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