Contribution ID: 340 Type: Parallel

Recent results on charmed baryons at Belle

Saturday 7 July 2018 11:15 (15 minutes)

We report measurement of the decays of the Ω c0 charmed baryon into hadronic final states and observe excited Ω c charmed baryons in the decay mode Ξ c+K- including Ω c(3000) , Ω c(3050), Ω c(3066), and Ω c(3090). In addition, We report the first observation of the Ξ c(2930)0 charmed-strange baryon with a significance greater than 5σ in its decay to K- Λ c+ in B- \to K- Λ c- Λ c- decays. The branching fractions of the decays Λ c+ $\to \Sigma + \pi - \pi +$, Λ c+ $\to \Sigma 0 \pi + \pi 0$ and Λ c+ $\to \Sigma + \pi 0 \pi 0$ are also measured. The analyses are based on a data set recorded by the Belle detector from e+ e- collisions produced by the KEKB collider.

Authors: NISHIDA, Shohei (KEK); GABYSHEV, Nikolay (Budker Institute for Nuclear Physics)

Presenter: GABYSHEV, Nikolay (Budker Institute for Nuclear Physics)Session Classification: Strong Interactions and Hadron Physics

Track Classification: Strong Interactions and Hadron Physics