Contribution ID: **250** Type: **Talk**

【362】Lambda_c to Sigma pi pi decays at Belle

Thursday 24 August 2017 14:15 (15 minutes)

We report new measurements of the branching fractions of the decays $\Lambda_c^+ \to \Sigma^+\pi^-\pi^+$, $\Sigma^0\pi^0\pi^+$ and $\Sigma^+\pi^0\pi^0$ based on 711/fb of integrated luminosity recorded with the Belle detector at the KEKB asymmetric energy e^+e^- collider near the Υ(4S) resonance (charge conjugated decays are implicitly included). All results are obtained relative to the normalisation mode $\Lambda_c \to p^+K^-pi^+$. This is the first measurement of the $\Lambda_c^+ \to \Sigma^+\pi^0\pi^0$ channel. The measurements of the other modes are significantly more precise compared to previous analyses.

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Session Classification: Nuclear, Particle-and Astrophysics (TASK-FAKT)

Track Classification: Nuclear, Particle- and Astrophysics (TASK - FAKT)