Contribution ID: **120** Type: **Parallel session talk**

Charmed baryon decays at BESIII

Saturday 20 July 2024 14:30 (15 minutes)

BESIII has accumulated 4.5 fb^{-1} of e^+e^- collision data at the 4.6 and 4.7 GeV energies, presenting a unique opportunity to investigate Λ_c^+ decays. Our presentation will include the first measurement of the decay asymmetry in the pure W-boson-exchange decay $^+_c \to ^0 K^+$, as well as the study of $\Lambda_c^+ \to \Lambda l^+ \nu$ and the branching fraction measurements of the inclusive decays $\Lambda_c^+ \to X e^+ \nu$ and $\bar{\Lambda_c} \to \bar{n} X$.
Furthermore, we will present the results of the partial wave analysis of $\Lambda_c^+ \to \Lambda \pi^+ \pi^0$, and the latest branching fraction measurements of Cabibbo-suppressed and Cabibbo-favored Λ_c^+ decays, including $\Lambda_c \to p\pi^0, \Sigma^- K^+ \pi^+, p\eta(\omega)$, and more.

Alternate track

1. Strong Interactions and Hadron Physics

I read the instructions above

Yes

Primary author: BIANCHI, Fabrizio

Co-author: Dr GENG, Cong (Sun Yat-sen University)

Presenter: Dr GENG, Cong (Sun Yat-sen University)

Session Classification: Quark and Lepton Flavour Physics

Track Classification: 05. Quark and Lepton Flavour Physics