Contribution ID: 26 Type: not specified

Charmed baryon decays at BESIII

Wednesday, 5 June 2024 11:00 (30 minutes)

BESIII has accumulated 4.5 fb^-1 of e+e- collision data within the 4.6 and 4.7 GeV energy range, presenting a unique opportunity to investigate Lambda_c+ decays. Our presentation will include the first measurement of the decay asymmetry in the pure W-boson-exchange decay $\Lambda_c^+ \to \Xi^0 K^+$, as well as the study of Lambda_c+ -> Lambda l+ nu and the branching fraction measurements of the inclusive decays Lambda_c+->X e+ nu and Lambda_cbar- -> nbar X.

Furthermore, we will present the results of the partial wave analysis of Lambda_c+ -> Lambda pi+ pi0, and the latest branching fraction measurements of Cabibbo-suppressed and -favored Lambda_c+ decays, including Lambda_c to p pi0, Sigma- K+ pi+, p eta (omega), and more.

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Session Classification: Session 5