

Charmed baryon decays at BESIII

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BESIII has accumulated 4.5fb^{-1} of e^+e^- collision data in the 4.6 and 4.7 GeV energy range, which provide the largest dataset of $L_c L_c$ pairs in the world. We will present a novel way for exploring CP violation using the $L_c L_c$ threshold data and the first observation of the transverse polarization of in the reaction $e^+e^- \rightarrow L_c L_c$. Furthermore, Our presentation will also include the observation of a rare beta decay of the charmed baryon $L_c \rightarrow n \nu$ with a Graph Neural Network, recent results of the partial wave analysis, as well as the recent branching fraction measurements.

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