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Recent results on Lambda_c decays at BESIII

As the lightest and most common example, the ^+_c plays a key role in our understanding of the charmed baryons. The BESIII detector has collected a sample of 597 pb^{-1} of e^+e^- annihilation data near $^+_c\bar{\Lambda}^-_c$ threshold. Using a double-tag technique, we make absolute measurements of twelve Cabibbo-favored ^+_c hadronic decay modes, including the golden reference mode, pK^{-+}, for which we find $B(^+_c \to pK^{-+}) =$ (5.84 ± 0.27(stat) ± 0.23(syst))%. We also determine $B(^+_c \to e^+{}_e) =$ (3.63 ± 0.38(stat) ± 0.20(syst))%. Preliminary results for other final states, including $nK_S{}^+$, will also be presented, along with future prospects.

Summary

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