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Search for BSM rare charm decays at BESIII

Monday 17 July 2023 15:00 (20 minutes)

The BESIII experiment has collected 2.6B $\psi(2S)$ events and 10B J/ψ events. The huge data sample provide an excellent chance to search for rare processes in charmonium and charm meson decays. In this talk, we report the recent search for $J/\psi \rightarrow D^+ e^- \nu_e$, $\psi(2S) \rightarrow \Lambda_c^- \bar{\Sigma}^+$. In addition, LFV process $J/\psi \rightarrow e^+ \tau^-$ & BNV/LNV process $D^0 \rightarrow p e^- n e^+$, and the FCNC process $D^0 \rightarrow \pi^0 \nu \bar{\nu}$ is also searched at BESIII.

Consent

I consent to recording/broadcasting my presentation.

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