

11th International Workshop on Charm Physics (CHARM 2023)



Contribution ID: 9

Type: **contributed parallel talk**

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 $J/\psi \rightarrow e^+ \tau^- / e^- \mu^+$ & BNV/LNV process $D^0 \rightarrow p e^- n$, and the FCNC process $D^0 \rightarrow \pi^0 \bar{\nu} \nu$ is also searched at BESIII.

Consent

I consent to recording/broadcasting my presentation.

Primary author: SONG, TIANZI (Sun Yat-sen University)

Co-author: LIU, Beijiang (Institute of High Energy Physics)

Presenter: SONG, TIANZI (Sun Yat-sen University)

Session Classification: Parallel A

Track Classification: decays