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Search for new physics with charm rare decays at BESIII

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The BESIII experiment has collected 2.6 billion $\psi(3686)$ events, 10 billion J/ψ events, 20 fb^{-1} of D meson pairs at 3.773 GeV, and 7.33 fb^{-1} of $D_sD_s^*$ events from 4.128 to 4.226 GeV. The huge data samples allow us to search for rare processes in charm hadron decays. In this talk, we report searches for FCNC decay $J/\psi \to D^0 \mu^+ \mu^-$ and $D_s^+ \to h(h') e^+ e^-$. The searches for J/ψ weak decays containing a D meson and for $J/\psi \to \gamma D^0$ will also be presented.

Secondary track

T07 - Flavour Physics and CP Violation

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