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Search for rare decays at BESIII

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The BESIII experiment has collected 2.6B psi(2S) events and 10B J/psi events. The huge data sample provide an excellent chance to search for rare processes in charmonium decays. In this talk, we report the recent search for J/psi->D^-e+nu_e, psi(2S)->Lambda_c anti-Sigma^-. The big charmonium sample also produce millions of hyperons, which is used to study the weak decay of \Sigma^- ->pe-e-/Sigma^+X, \Xi^- ->\Xi^0e-nu_e, \Xi^0 ->Sigma e \nu. In addition, LFV process J/psi->e tau/e mu & BNV/LNV process D^0->p e/n e, and the FCNC process D^0 -> pi^0 nu \bar{nu} is also searched at BESIII.

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