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Search for charged lepton flavor violation in J/psi decays at BESIII

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In the Standard Model (SM), charged Lepton Flavor Violation (cLFV) is highly suppressed to a negligible level by the finite but tiny neutrino masses. The BESIII experiment is a symmetric e^+e^- collider operating at c.m. energy from 2.0 to 4.95 GeV and has collected the world's largest data set of J/psi (10 Billion), $\psi(2S)$ (2.7 Billion) on production threshold, and about 25 fb^{-1} scan data from 3.77 to 4.95 GeV. This talk presents the cLFV searches at BESIII. The $J/\psi \rightarrow e \tau / e \mu$ is searched for with 10 Billion J/psi events and the result improves the previously published limit by two orders of magnitude.

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