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Searches for lepton flavor violation in meson decays at Belle

Monday 4 December 2023 15:10 (20 minutes)

We present searches for the charged lepton-flavor-violating decays $\Upsilon(1S) \to \ell\ell'$ and radiative charged lepton-flavour-violating decays $\Upsilon(1S) \to \gamma\ell\ell'$ [where $\ell=e,\mu$ and $\ell'=e,\mu,\tau$] using the 158 million Y(2S) sample collected by the Belle detector at the KEKB collider. These searches use $\Upsilon(1S)$ mesons produced in $\pi^+\pi^-\Upsilon(1S)$ transitions. We also present Belle searches for the charged lepton-flavor-violating decays $B_s \to \ell\tau$ and $\Upsilon(2S) \to \ell\tau$.

Name of collaboration or list of co-authors

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Session Classification: Monday after lunch