



Contribution ID: 18

Type: **Plenary Presentation**

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 $\Upsilon(1S) \rightarrow \ell\ell'$ and radiative charged lepton-flavour-violating decays $\Upsilon(1S) \rightarrow \gamma\ell\ell'$ [where $\ell = e, \mu$ and $\ell' = e, \mu, \tau$] using the 158 million $\Upsilon(2S)$ 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 $B_s \rightarrow \ell\tau$ and $\Upsilon(2S) \rightarrow \ell\tau$.

Name of collaboration or list of co-authors

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Session Classification: Monday after lunch