



Contribution ID: 1091

Type: Parallel Session Talk

Search for lepton flavour violating tau decay and lepton-number violation B decay at Belle

Friday, 23 July 2010 09:45 (13 minutes)

We present the results of a search for lepton flavor violation (LFV) in $\tau \rightarrow \text{lepton (e or } \mu) + \text{pseudoscalar (}\pi^0, \eta \text{ or } \eta')$ and in $\tau \rightarrow \text{lepton (e or } \mu) + \text{a vector meson (}\rho, \omega, \phi, K^*_0, \text{anti-}\{K\}^*_0)$ decays using a large data sample accumulated with the Belle detector at the KEKB symmetric-energy e^+e^- collider. The sensitivity to these modes is significantly improved compared to previous experiments. In the Standard Model, lepton-number-violating decays such as $B^+ \rightarrow D^- l^+ l^+$ are strictly forbidden, but they are allowed if Majorana-type neutrinos exist. We present the results of a search for $B^+ \rightarrow D^- l^+ l^+$ decays with a high-statistics $B \text{ anti-}B$ event sample.

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Session Classification: 06 - CP violation, CKM and Rare Decays

Track Classification: 06 - CP violation, CKM and Rare Decays