



Contribution ID: 92

Type: **not specified**

Latest Belle results on tau decays

Monday, 24 September 2018 14:00 (20 minutes)

We firstly measure the branching fraction for $\tau \rightarrow \pi e^+e^- \nu$ and $\pi \mu^+\mu^- \nu$. Though these decays are allowed by the standard model, they have never been measured because they are expected to have a small branching fraction. Belle's largest tau data sample makes us to expect to measure these decays with a high sensitivity. In this presentation, we show the result of measurement of branching fraction of these decays using Belle's full data sample. We also discuss the result with the hadron physics model prediction, which has been published recently.

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Session Classification: Session