Particles and Nuclei International Conference 2017 (PANIC2017)

Contribution ID: 9

## Study of the Lorentz structure of au decays from Belle

Sunday, 3 September 2017 14:25 (25 minutes)

We evaluate the Michel parameters of  $\tau$  decays using the full data sample of Belle. This is important to reveal the Lorentz structure of  $\tau$  leptonic decays, which includes not only the V-A interaction but also contributions from scalar, tensor and others that may arise from New Physics, thus testing lepton universality as well. We use both  $\tau^+ \rightarrow l^+ \nu \bar{\nu}$  and  $\tau^+ \rightarrow l^+ \gamma \nu \bar{\nu}$ . We also measure branching fractions of  $\tau$  decays into three charged leptons and two neutrinos. From this, we can constrain Michel-like parameters.

Primary author: SASAKI, Junya (Univ. of Tokyo)Presenter: SASAKI, Junya (Univ. of Tokyo)Session Classification: Flavor physics - CKM and beyond

Track Classification: 8) Flavor physics - CKM and beyond