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Study of the Lorentz structure of τ decays from Belle

Saturday 8 July 2017 10:15 (15 minutes)

We evaluate the Michel parameters of τ decays using the full data sample of Belle. This is important to reveal the Lorentz structure of τ 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 $\tau^+ \to l^+\nu\bar{\nu}$ and $\tau^+ \to l^+\gamma\nu\bar{\nu}$. We also measure branching fractions of τ decays into three charged leptons and two neutrinos. From this, we can constrain Michelle-like parameters.

Experimental Collaboration

Belle

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