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Study of the Lorentz structure of τ decays from Belle

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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 $\tau^+ \rightarrow l^+ \nu \bar{\nu}$ and $\tau^+ \rightarrow l^+ \gamma \nu \bar{\nu}$. We also measure branching fractions of τ decays into three charged leptons and two neutrinos. From this, we can constrain Michel-like parameters.

Experimental Collaboration

Belle

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