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Type: **Parallel Talk**

Tau physics at Belle

Friday, 8 July 2022 10:08 (17 minutes)

We report a partial wave analysis conducted in $\tau^- \rightarrow \pi^- \pi^- \pi^+ \nu$ decays, where it is expected that the new resonance $a_1(1420)$ that has been observed by COMPASS experiment can be studied as well as which provides the detailed study of $a_1(1260)$. In addition, we report the searches for New Physics in τ decays, especially with its decay involving heavy neutral lepton. We also cover recent searches for lepton-flavor-violating decays of the tau lepton and a measurement of its electric dipole moment. The results are based on the full data collected with the Belle detector at the KEKB asymmetric-energy e^+e^- collider.

In-person participation

Yes

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