Contribution ID: 593 Type: Parallel Talk

## Tau physics at Belle

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

We report a partial wave analysis conducted in  $\tau^- \to \pi^- \pi^- \pi^+ \nu$  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  $\tau$  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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