

30th International Symposium on Lepton Photon Interactions at High Energies



Contribution ID: 44

Type: **Parallel session talk**

Tau physics at Belle II

Tuesday 11 January 2022 16:30 (20 minutes)

The low-background environment of electron-positron collisions along with the large expected sample size and an hermetic detector make Belle II the premier experiment for studying tau-lepton physics. A competitive measurement of the mass of the tau lepton is reported based on a small data set, and studies for world-leading measurements of tau lifetimes, foreseen with significantly less data than collected at Belle and Babar, are discussed. Perspectives on tests of lepton (flavor) universality and other searches for non-SM physics in tau decays are also outlined.

Author: LIBBY, James (Indian Institute of Technology Madras (IN))

Presenter: GRUBEROVA, Zuzana (Charles University)

Session Classification: Quark and charged lepton flavour

Track Classification: Flavour