## 13th Edition of the Large Hadron Collider Physics Conference



Contribution ID: 56

## Measurements of $\tau$ decays at Belle and Belle II

Type: Experimental poster

The Belle and Belle TI experiments have collected a  $1.4~{\rm ab}^{-1}$  sample of  $e^+e^-$  collision data at centre-of-mass energies near the  $\Upsilon(nS)$  resonances. This sample contains approximately 1.3 billion  $e^+e^-\to \tau^+\tau^-$  events, which we use to search for lepton-flavour violating decays. We present searches for  $\tau^-\to \mu^-\mu^-\mu^+, \tau^-\to \Lambda\pi^-$ , and  $\tau^-\to \bar\Lambda\pi^-$ . We also present world leading measurements of the  $\tau$  mass and lepton-flavour universality in  $\tau\to\ell\nu\bar\nu$  decay, where  $\ell$  is an electron or a muon.

Authors: BELLE-II COLLABORATION; SHIU, Jing-Ge (National Taiwan University (TW)); JACKSON, Paul

(University of Adelaide)

**Presenter:** SHIU, Jing-Ge (National Taiwan University (TW))