13th Edition of the Large Hadron Collider Physics Conference



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Measurements of τ 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 τ mass and lepton-flavour universality in $\tau\to\ell\nu\bar\nu$ decay, where ℓ is an electron or a muon.

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