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## Searches for lepton-flavour violation in $\tau$ decays at Belle and Belle II

The Belle and Belle II experiments have collected a  $1.6 \text{ ab}^{-1}$  sample of  $e^+e^-$  collision data at centre-of-mass energies near the  $\Upsilon(nS)$  resonances. This sample contains approximately 1.5 billion  $e^+e^- \rightarrow \tau^+\tau^-$  events, which we use to search for lepton-flavour violating decays. We present searches for  $\tau \rightarrow \ell\gamma$ , tau decay to three charged leptons,  $\tau^- \rightarrow K_S^0\ell^-$ ,  $\tau^- \rightarrow \ell^-\alpha$ , where  $\alpha$  is an invisible scalar particle.

### Secondary track

T09 - Beyond the Standard Model

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