FLASY 2025 - 11th Workshop on Flavour Symmetries and Consequences in Accelerators and Cosmology



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Searches for lepton-flavour violation in τ decays at Belle and Belle II

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

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