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## Searches for CLFV in tau and hadron decays at Belle and Belle II

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Rates of lepton-flavor violation in charged lepton decays are enhanced in many beyond-the-standard-model theories. The low-background samples of  $e^+e^- \to \tau^+\tau^-$  events collected by Belle and Belle II allow world-leading searches for such decays with tau leptons. We present Belle II results for the decays  $\tau \to \ell V^0$ , where  $V^0$  is a neutral vector meson,  $\tau \to 3\mu$ ,  $\tau \to \Lambda \pi$  and  $\tau \to \bar{\Lambda} \pi$  (which violates both baryon and lepton number conservation) using data samples up to 424 fb $^{-1}$ . We also present Belle searches for the charged lepton-flavor-violating (CLFV) decays  $B_s \to \ell \tau$  and  $\Upsilon(2S) \to \ell \tau$ . We present searches for the for the baryon and lepton number violating decays  $D \to p\ell$  by analyzing 921 fb $^{-1}$  of data collected by Belle at and 60 MeV below the  $\Upsilon(4S)$  resonance, and at the  $\Upsilon(5S)$  resonance. Finally, we present a search for  $B^0 \to K_S^0 \tau \ell$  using a combined Belle and Belle II data set.

## **Working Group**

WG 4: Muon Physics

Primary authors: VAHSEN, Sven (University of Hawaii); LEO, Paolo (DESY)

Presenter: LEO, Paolo (DESY)

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