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Upper limits on branching ratios of $\tau \to \ell\gamma\gamma$ and $\tau \to \ell X$ decays

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Searches for charged lepton flavor violation (CLFV) are a probe of new physics beyond the Standard Model. We used existing data to set the first limits on the branching ratio of the CLFV decays $\tau \to \ell\gamma\gamma$ where $\ell = e, \mu$. The decays $\tau \to \ell X$, where X is a weakly interacting boson, were also examined and improved upper bounds were obtained. The results and future prospects will be presented.

Are you are a member of the APS Division of Particles and Fields?

No

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