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Charged Lepton Flavour Violation in the Symmetry-Protected Type-I Seesaw

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The type-I seesaw model is probably the most straightforward and best studied extension of the Standard Model that can account for the neutrino masses determined from neutrino oscillation data. We study the symmetry-protected type-I seesaw, in which the Wilson coefficient of the Weinberg operator is set zero such that sizeable neutrino Yukawas are permissible that can lead to relevant effects in charged lepton flavour violating observables. We correlate $\ell \rightarrow \ell' \gamma$, $\ell \rightarrow 3\ell'$, $Z \rightarrow \ell\ell'$ and $\mu \rightarrow e$ conversion in nuclei, taking into account the constraints from electroweak precision observables and tests of lepton flavour universality and confront our predictions with current and future bounds on lepton flavour-violating processes.

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