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Lepton flavor violation processes in the charged lepton sector in minimal lepton flavor violation models

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In this report, we study lepton flavor violation in some typical scenarios of minimal lepton flavor violation (MLFV). We introduce briefly the MLFV models in the three following scenarios: i, the Standard Model (SM) field content basing on lepton flavor group $G_{LF} = SU(3)_L \times SU(3)_{E_R}$; the see-saw type I field contents with three heavy right-handed neutrinos, and the lepton flavor group $G_{ELF} = SU(3)_L \times SU(3)_{E_R} \times SU(3)_{\nu_R} = G_{LF} \times SU(3)_{\nu_R}$, in cases: ii, $SU(3)_{\nu_R} \rightarrow O(3)_{\nu_R} \times CP$; and iii, $SU(3)_L \times SU(3)_{\nu_R} \rightarrow SU(3)_{L+\nu_R}$. Then the rates of LFV processes, such as $\ell \rightarrow \ell' + \gamma$, $\mu - e$ conversion, and $\ell \rightarrow 3\ell'$ will be introduced and analyzed using the current neutrino oscillation experimental data.

Summary

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