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Neutrino phenomenology via Type-(I+II) seesaw in a $U(1)_{L_e-L_\mu}$ model

Friday 1 October 2021 10:50 (2 hours)

We realize neutrino phenomenology via Type-(I+II) seesaw
mechanism in a simple $U(1)_{L_e-L_\mu}$ gauge extension of standard model. With three additional right-handed neutrinos and a scalar triplet, we obtain two-zero A_2 texture in active neutrino mass matrix. We constrain the model parameters consistent with current neutrino oscillation data. Furthermore, we obtain new contributions to muon $g-2$ and also charged lepton flavor violating decays such as $\mu \to e\gamma$.

What is your topic?

Neutrino Physics

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