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Charged LFV in a low-scale seesaw mSUGRA model

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Charged lepton flavour violaton (LFV) is studied in the low-scale see saw models of minimal supergravity and with large Yukawa couplings realized through approximate lepton number symmetries. The models have two sources of LFV, one originating from the soft

supersymmetry-breaking sector, and the other entirely supersymmetric one originating from the supersymmetric Yukawa sector. These sources of LFV are carefully studied on dominant LFV processes. Opposed to the dominance of the photon-penguin contributions in the high-scale see saw supersymmetric models of minimal supergravity, we found that supersymmetry breaking Z-boson-penguin and heavy neutrino box contributions dominate the three-body decay LFV amplitudes.

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