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Lepton Flavour Violation in CMSSM-seesaw models

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We study different LFV processes, namely, $l_j \rightarrow l_i \gamma$, $l_j \rightarrow 3l_i$ decays, $\mu - e$ conversion in nuclei and LFV semileptonic decays, within the context of the Constrained Minimal Supersymmetric Standard Model, enlarged by three right handed neutrinos and their supersymmetric partners, and where the neutrino masses are generated via a seesaw mechanism. Two different scenarios with either universal or non-universal soft supersymmetry breaking Higgs masses at the gauge coupling unification scale are considered. We analyse the relevance of the various parameters on the LFV rates, particularly emphasising the role played by the heavy neutrino masses, $\tan \beta$, and especially θ_{13} . In the case of hierarchical heavy neutrinos, an extremely high sensitivity of the rates to θ_{13} is indeed found. The last part of this work is devoted to the study of the interesting loss of correlation between some different channels that occurs in the non-universal scenario.

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