Abstract

As it is well-known, the general Minimal Supersymmetric Standard Model (MSSM) introduces new sources for Lepton Flavor Violation (LFV) as well as CP-violation. In this thesis, the possibility of cancelation between different contributions of CP-violating phases to d_e, d_n and d_{Hg} is reconsidered with special emphasis on the region that is phenomenologically interesting.

We show that when both sources (Lepton Flavor Violation sources and CP-violating phases) are present d_e, receives a contribution from the phase of the trilinear A-term of staus, ϕ_{A_τ}.

We then study the dependence of the polarizations of e and γ in the $\mu \to e \gamma$ and $\mu N \to e N$ on the parameters of the MSSM.