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g-2 and lepton flavor violation in SUSY models

We present a class of SUSY-GUT models that can explain the discrepancy between SM predictions and experimental values of the muon $g-2$ while providing testable signals for lepton flavor violation in charged lepton decays. Moreover, these models predicts neutralinos that are also compatible with Planck bounds on the Dark Matter relic abundance. We found that these scenarios provide interesting benchmark for the search of SUSY by correlating possible manifestation of it as DM, rare lepton decays and LHC signals.

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