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Flavor violation in SUSY grand unified theories of flavor

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Diverse mass and mixing patterns between the quarks and leptons makes it challenging to construct a simple grand unified theory of flavor. The SO(10) SUSY GUT with type II seesaw mechanism giving neutrino masses provide a natural framework for addressing this issue. Proton decay suppression is also an important issue to construct SUSY GUT models. We will investigate the flavor violation for both lepton and quark sectors in SUSY GUT models, which are favored to suppress proton decay, and have prediction of the neutrino mixing.

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