



Contribution ID: 205

Type: **Parallel Talk**

SO(10) SUSY GUTs with family symmetries: the test of FCNCs

Saturday, July 28, 2007 5:50 PM (20 minutes)

Flavor changing neutral current (FCNC) processes, being forbidden in the Standard Model at the tree level, play an important role in the test of extensions of this model. One popular class of new physics models are Grand Unified Theories (GUTs). Such models, when supplemented by flavor symmetries allow for concrete predictions for various observables - including FCNC processes - in terms of a relatively small number of parameters.

We report on a detailed analysis of a supersymmetric SO(10) GUT, recently studied in the literature. We focus on its predictions for FCNCs in the quark sector and confront them with the existing experimental data.

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Session Classification: Flavor Physics 4

Track Classification: Flavor Physics