Contribution ID: 98

Type: not specified

Froggatt-Nielsen models with derived Z4 R-symmetry

Wednesday 22 May 2013 14:00 (25 minutes)

The observed hierarchies of fermion masses and mixing angles can be explained in the framework of Froggatt and Nielsen by imposing a family dependent U(1) symmetry. Based on a supersymmetric setting, we consider the possibility of a flavor U(1) R-symmetry which breaks down to a remnant Z4 R-symmetry. While containing R-parity as a subgroup, this discrete R-symmetry provides a solution to the mu-problem by forbidding the bilinear Hu Hd term.

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Session Classification: Parallel Session on Flavor Physics + Composite Models