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Gauged discrete symmetries and proton stability in SUSY GUT

Monday, 6 December 2010 17:00 (25 minutes)

Generic SUSY GUT models suffer from the problem that Planck scale induced operators lead to the proton decay requiring some suppression of the couplings to make them compatible with current experimental bounds. I will review the problem of proton decay in such models and present a GUT model based on the SO(10) group where the operators leading to the proton decay can be suppressed due to the gauged discrete symmetry.

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