

Discrete Symmetries in Global MSSM-like D-Brane Models

Wednesday 22 May 2013 14:00 (25 minutes)

Discrete symmetries are usually invoked to explain the absence of baryon- and lepton-number violating operators in the MSSM. In global D-brane models, discrete Z_n symmetries arise as remnants of massive Abelian gauge symmetries. I will discuss the conditions for the existence of Z_n symmetries in intersecting D-brane worlds on orbifold backgrounds. An exemplary global model with particle physics spectrum will be presented together with its set of family-independent and family-dependent discrete Z_n symmetries.

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Session Classification: Parallel Session on String Theory