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Anomalies, Beta Functions and Grand Unification with Higher-dimensional Higgs Representations

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Abstract content

Summary

We discuss several options to obtain anomaly free representations within SUSY $SU(5)$ GUT's. These models extend the Higgs sector of the minimal models, for instance to solve the fermion mass relations or the doublet-triplet splitting problem, by including higher-dimensional tensorial representations. Although these complete $SU(5)$ representations do not alter the unification of gauge couplings, we study the unification scale and the perturbative validity of the further evolution up to the Planck scale.

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