

Higgs mass finite GUT predictions

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Abstract content

Finite Unified Theories (FUTs) are $N = 1$ supersymmetric Grand Unified Theories (GUTs), which can be made finite to all-loops in perturbation theory, and thus have a remarkable predictive power due to the required reduction of couplings. Based on this theoretical framework phenomenologically consistent FUTs have been constructed. Here we review two FUT models based on the $SU(5)$ gauge group, which can be seen as special, restricted and thus very predictive versions of the MSSM.

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