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Unification of gauge and Yukawa couplings

Tuesday, 4 December 2018 17:00 (20 minutes)

The unification of gauge and top Yukawa couplings is an attractive feature of gauge-Higgs unification models in extra-dimensions. This feature is usually considered difficult to obtain based on simple group theory analyses. We consider a minimal toy model including the renormalisation group running at one loop. The gauge couplings unify asymptotically at high energies, and we discuss presence of an UV fixed point. The problem of the Higgs mass generation by the Coleman-Weinberg effective potential is also discussed.

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