Evolution of Yukawa couplings in 5 dimensions for an SU(3) gauge group

Wednesday, 6 July 2016 11:50 (20 minutes)

Abstract content
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We test, in a simplified 5-dimensional model with SU(3) gauge symmetry, the evolution equations of the Yukawa couplings of a model containing bulk fields, gauge fields and one pair of fermions. The evolution equations of the Yukawa couplings are derived for the one-loop renormalisation group equations, where we assume that the fermion doublet and two singlets are located at fixed points of the extra-dimension which is compactified on an S^1/Z_2 orbifold.

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Session Classification: Theoretical and Computational Physics (1)

Track Classification: Track G - Theoretical and Computational Physics