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

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We explicitly test, in a simplified 5-dimensional model with an SU(3) gauge symmetry, the evolution of the Yukawa couplings. We assume that all the matter fields are propagating in the bulk, and consider orbifolds based on Abelian discrete groups which lead to 5-dimensional gauge theories compactified on an S^1/Z_2 . The Yukawa couplings evolution is derived at one-loop level and used to test the impact on lower energy observables.

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