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Asymptotic Grand Unification

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We explicitly test the asymptotic grand unification of a minimal 5-dimensional model with $SO(10)$ gauge theory compactified on an $S^1/Z_2 \times Z_2'$ orbifold. We consider that all the matter fields propagate in the bulk and show that the gauge couplings asymptotically run to a unified fixed point in the UV. However, the Yukawa couplings will typically hit a Landau pole before the GUT scale in this class of $SO(10)$ models.

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