

Constraint HMC algorithms for gauge-Higgs models

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We present the construction of constraint HMC algorithms for gauge-Higgs models in order to measure the effective Higgs potential. In particular we focus on a SU(2) Gauge-Higgs Unification model on a 5D orbifold. Previous simulations have identified a region in the Higgs phase of this model which has properties of a 4D Abelian Higgs model. We want to test this relationship by comparing the effective potential in both models.

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