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Non-Perturbative Gauge-Higgs Unification in Five Dimensions

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We study the phase diagram and mass spectrum of an $SU(2)$ Gauge-Higgs Unification scenario on a five-dimensional orbifold. This theory exhibits spontaneous symmetry breaking, and we observe that a newly discovered phase transition plays an important role in the ability of the theory to produce a standard model-like spectrum. We comment on dimensional reduction and take first steps towards constructing renormalised trajectories along the phase diagram such that physical quantities remain constant.

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