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Lines of Constant Physics in a 5-d Gauge-Higgs Unification Scenario

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We report on the progress in the study of a five-dimensional SU(2) Gauge-Higgs Unification model. In the non-perturbative study, the Higgs mechanism is triggered by the spontaneous breaking of a global symmetry. In the same region of the phase diagram, we observe both dimensional reduction and the ratio of Higgs and Z boson masses to take the value known from experiment.

We present the first results on the construction of a line of constant physics in this region, including the prediction for the mass scale of the first excited states of the Higgs and gauge bosons.

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