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Five-dimensional Gauge Theories in a Warped Background

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The anisotropic five-dimensional $SU(2)$ lattice gauge theory in a flat space-time background has a rich phase diagram that has been investigated extensively using various techniques. The objective is to understand whether a layered phase exists that could support a four-dimensional brane in the continuum limit, but the results to date provide no evidence for this. We present new results, obtained in mean-field theory, for the phase diagram of this theory when the extra dimension is warped.

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