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Large N limit of two-dimensional Yang-Mills theory with four-supercharges

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We study the two-dimensional Yang-Mills theory with four supercharges in the large N limit. By using thermal boundary conditions, the distribution of scalars is studied at large N, in the limit of a vanishing scalar potential. We explore the extent of scalar distribution in this theory and look for behavior identical to its maximally supersymmetric cousin, which is known to admit holographic description. Our lattice results for the scalar distribution as a function of temperature show no visible dependence on N.

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