Title:	Thermal phase structure of dimensionally reduced super-Yang--Mills
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Keywords:	Thermal phase Dimensionally
Issue Date:	2022
Citation:	Proceedings of Science, 396, 187.
Abstract:	We present our current results from ongoing lattice investigations of the Berenstein--Maldacena--Nastase deformation of maximally supersymmetric Yang--Mills quantum mechanics. We focus on the thermal phase structure of this theory, which depends on both the temperature T and the deformation parameter μ , through the dimensionless ratios T/μ and g=λ/μ3 with λ the 't~Hooft coupling. We determine the critical T/μ of the confinement transition for couplings g that span three orders of magnitude, to connect weak-coupling perturbative calculations and large-N dual supergravity predictions in the strong-coupling limit. Analyzing multiple lattice sizes up to Nτ=24 and numbers of colors up to N=16 allows initial checks of the large-N continuum limit.
Description:	Only IISER Mohali authors are available in the record.
URI:	https://doi.org/10.22323/1.396.0187 (https://doi.org/10.22323/1.396.0187) http://hdl.handle.net/123456789/4515 (http://hdl.handle.net/123456789/4515)
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