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Thermal phase structure of a supersymmetric matrix model Title: Authors: Joseph, A. (/jspui/browse?type=author&value=Joseph%2C+A.) Keywords: Thermal phase Matrix model Supersymmetric 2019 Issue Date: Publisher: Proceedings of Science Citation: Proceedings of Science, 363 - 37th International Symposium on Lattice Field Theory (LATTICE2019) - Main session Abstract: We present initial results from ongoing lattice investigations into the thermal phase structure of the Berenstein--Maldacena--Nastase deformation of maximally supersymmetric Yang--Mills quantum mechanics. The phase diagram of the theory depends on both the temperature T and the deformation parameter μ , through the dimensionless ratios T/μ and $g \equiv \lambda/\mu 3$ with λ the 't Hooft coupling. Considering couplings g that span three orders of magnitude, we reproduce the weakcoupling perturbative prediction for the deconfinement T/µ and approach recent large-N dual supergravity analyses in the strong-coupling limit. We are carrying out calculations with lattice sizes up to NT=24 and numbers of colors up to N=16, to allow initial checks of the large-N continuum limit. Description: Only IISERM authors are available in the record. URI: https://pos.sissa.it/363/069 (https://pos.sissa.it/363/069)

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