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Black Hole Thermodynamics from D0 Brane Quantum Mechanics

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D0-brane QM is a 0+1D large- N supersymmetric gauged matrix quantum mechanics which is known to reduce to 10+1D supergravity in the low-temperature limit, and which has been proposed as a nonperturbative definition of M-theory. My poster will discuss the direct tests of gauge/gravity duality that can be made by studying the black hole internal energy with lattice calculations.

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