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Thermodynamics of Supersymmetric Black Holes in AdS(5)

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Supersymmetric black holes have zero temperature but their dependence on chemical potentials defines conventional thermodynamics. The phase diagram for supersymmetric AdS black holes is reminiscent of Schwarzschild-AdS, featuring a cusp, a minimal "temperature", and a Hawking-Page transition. This talk presents a complete phase diagram and discusses the confinement/deconfinement transition for supersymmetric black holes in AdS(5) and their N=4 SYM dual.

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