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A Holographic Triptych at Large N

Friday 7 June 2024 12:00 (30 minutes)

I will summarize recent results, obtained using supersymmetric localization, about the large N limit of path integrals of 3d SCFTs arising on the worldvolume of N M2-branes placed on compact Euclidean manifolds. The leading $N^3/2$ term in the large N expansion of these "free energies" receives 1/N, log(N), as well as exponentially suppressed corrections. I will describe how these corrections arise in the context of AdS/CFT and will show that in some instances they can be computed precisely and agree with the field theory results. The implications of these results for the physics of AdS_4 black holes and AdS_4 flux vacua in string and M-theory will also be discussed.

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