



Columbia University
Department of Physics

Theory Seminar

"Uplifting AdS/CFT to Cosmology"

I will discuss recent work using brane constructions to uplift AdS/CFT dual pairs to de Sitter and FRW solutions. We find a microscopic realization of the semi-holographic "de Sitter/de Sitter correspondence" of Alishahiha et al., and we express the de Sitter horizon entropy in terms of the microscopic parameters. We consider potential consequences of uplifting for the dual description, specifically effects of time dependence and moduli stabilization in the bulk on the RG flow in the dual picture. For de Sitter, the maximal symmetry greatly simplifies the RG flow, which we hope may help point the way towards an explicit construction.

Bart Horn,
Columbia University



Monday, October 1, 2012 / 2:10 PM / 831 Pupin Hall