

Columbia University Theory Seminar

"4D Gravity from a Matrix Model"

In this talk we discuss a proposed dual matrix formulation of $N = 4$ Super Yang-Mills on R^4 coupled to 4D Einstein supergravity. We review the evidence accumulated so far in favor of this proposal, which includes a successful match of the symmetries of the continuum theory, and the computation of MHV gluon and graviton scattering amplitudes in terms of matrix model correlators. We also discuss some avenues of ongoing investigation.

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