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SO(9) supergravity in the context of matrix model holography

Thursday 5 September 2024 15:10 (20 minutes)

The BFSS proposal can be understood within the framework of gauge/gravity duality: the holographic dual of matrix theory is a compactification of M-theory in an SO(9)-symmetric pp-wave background. I will present the formalism of holographic renormalization for the matter-coupled two-dimensional maximal supergravity, with fluctuations around a D0-brane geometry. I will discuss the generalisation to its supersymmetric SO(p)×SO(9-p) deformations, for all p. As an application, I will discuss computations of two-point functions for fluctuations in both dilaton and axion sector.

Link to publication (if applicable)

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