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Quantum Gravity from Conformal Field Theory

Thursday, 11 January 2018 14:30 (20 minutes)

I will describe the problem of constructing perturbative loop corrections to AdS_5 supergravity amplitudes, which are dual to 4pt-correlators in N=4 super Yang-Mills theory. By using the consistency of the CFT's operator product expansion and known tree-level supergravity results, we are able to bootstrap loop corrections by imposing a consistent spectrum of exchanged double-trace operators.

What would be the preferred length of your talk?

20 minutes + questions

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