

Recursion Relations for Anomalous Dimensions in the 6d (2,0) Theory

Thursday, 19 December 2019 10:00 (30 minutes)

M-theory in $AdS_7 \times S^4$ is dual to a six-dimensional superconformal field theory with (2,0) supersymmetry and it reduces to 11d supergravity at low energies. Higher-derivative corrections to tree-level supergravity are encoded in the anomalous dimensions of double-trace operators occurring in the conformal partial wave expansion of four-point stress tensor correlators in the 6d (2,0) theory. I will describe recursion relations for these anomalous dimensions which are derived using conformal bootstrap methods.

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Session Classification: Parallel Session 3