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S-fold conformal manifolds and ExFT spectroscopy

Infinite towers of massive modes arise for every compactification of higher dimensional theories. Understanding the properties of these Kaluza-Klein towers on non-trivial solutions with an AdS factor has been a longstanding issue with clear holographic interest, as they describe the spectrum of single-trace operators of the dual CFTs at strong coupling and large N. In this talk, I will focus on supersymmetric families of nongeometric solutions of Type IIB supergravity that describe the conformal manifold of their holographic SCFTs. Recent techniques from Exceptional Field Theory allow the computation of their KK spectra, which encode information about the global properties of the conformal manifolds.

Type of contribution

Contributed Talk or Poster

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