

APCTP SEMINAR

Generalizations of SYK model in three dimensions

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#512 APCTP & Online via ZOOM

We present a one-parameter family of large N disordered models, with and without supersymmetry, in three spacetime dimensions. They interpolate from the critical large N vector model dual to a classical higher spin theory, towards a theory with a classical string dual. We analyze the spectrum and OPE data of the theories. While the supersymmetric model is always well-behaved the non-supersymmetric model is unitary only over a small parameter range. We offer some speculations on the origin of strings from the higher spins.

■ ZOOM Webinar

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