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D-branes in AdS^3 x S^3 x T^4 x at k=1 and their holographic duals

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Following the recent work of Eberhardt, Gaberdiel and Gopakumar, exact comparison between various quantities living on the two sides of the AdS/CFT correspondence has become a possibility. The goal of this work is to extend the existing holographic dictionary to include some non-perturbative vacua on both sides. We start by constructing various D-branes of the string theory on $\mathrm{AdS}_3 \times \mathrm{S}^3 \times \mathbb{T}^4$ at $k = 1$ units of NS-NS flux and calculate their associated cylinder amplitudes. We observe that these amplitudes match with the cylinder correlators of certain boundary states of the dual CFT, thus suggesting a direct correspondence between these boundary conditions. We also show that the disk amplitudes of these D-branes localise to those points in the worldsheet moduli space where the worldsheet disk holomorphically covers the spacetime disk.

Type of contribution

Contributed Talk or Poster

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