



Contribution ID: 25

Type: Long talk (20 mins)

A covering map description for AdS3/CFT2

Friday, 16 December 2022 10:10 (30 minutes)

It has recently been argued by Gaberdiel, Gopakumar et al. that type IIB string theory on $AdS_3 \times S^3 \times \mathbb{T}^4$ in the tensionless limit is exactly dual to the symmetric orbifold CFT $\text{Sym}^N(\mathbb{T}^4)$ in the large N limit. One fascinating feature of this duality is that it is rendered manifest by a localisation of the physical correlators of tensionless strings to points in moduli space where a covering map exists, mapping the worldsheet to the boundary. In this talk, I will present my own argument for this localisation and demonstrate that it arises from the presence of a particular weight 3 gauge symmetry in the theory. This will allow us to extend the results in the literature to show that the localisation holds even for correlators containing non-highest weight states.

Type of presentation

20 minute talk

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Strings

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