



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

Would you be interested in receiving feedback on your presentation?

Yes

Are you happy for your talk to be recorded?

Yes

Other categories:

Please select the most relevant category

Strings

Primary author: MCSTAY, Nathan (University of Cambridge)**Presenter:** MCSTAY, Nathan (University of Cambridge)**Session Classification:** Full Length Talks