



ID de Contribution: 161

Type: Non spécifié

The string dual of free N=4 SYM

jeudi 28 avril 2022 10:00 (25 minutes)

A proposal for the worldsheet string theory that is dual to free N=4 SYM in 4d is made. It is described by a free field sigma model on the twistor space of AdS5 x S5, and it exhibits a $\mathfrak{psu}(2,2|4)_1$ affine symmetry. The theory is a natural generalisation of the corresponding model for tensionless string theory on AdS3 x S3 whose description involves a free field realisation of $\mathfrak{psu}(1,1|2)_1$. I will explain how our proposal fits into the general framework of AdS/CFT, and review the various checks that have been performed.

Type of contribution

Contributed Talk only

Orateur: GABERDIEL, Matthias (ETH Zurich)

Classification de Session: Invited talks

Classification de thématique: Invited talks