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String Theory in Greater Paris

Rencontres Théoriciennes

“Supergravité, théorie des cordes et théorie M”

Jeudi 12 Mai 2022, 16:30

Lorenz Eberhardt

IAS

A perturbative CFT dual for pure NS-NS AdS3 strings

I will discuss perturbative string theory on AdS3 with pure NS-NS flux and propose a dual spacetime CFT. It is given by a symmetric orbifold of a linear dilaton theory deformed by a marginal operator from the twist-2 sector. After explaining the ingredients of the proposed duality in detail, I discuss the computation of two- and three-point functions. The CFT results at large N agree with the string computation at genus 0, thus providing ample evidence for a duality. I also show how to match the full spectra of both short and long strings.

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