Institut Henri Poincaré

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String Theory in Greater Paris

Rencontres Théoriciennes

"Supergravité, théorie des cordes et théorie M"

Vendredi 17 Fevrier 2023, 11:45

Nicolas Kovensky

IPhT

Spectral flow and string three-point functions in AdS3

Correlation functions of the SL(2,R)-WZW model involving spectrally flowed vertex operators are notoriously difficult to compute. An explicit (integral) expression for the corresponding three-point functions was recently conjectured by Eberhardt and Dei. In this talk, I will review the recent developments leading to this proposal, based on the role of holomorphic covering maps from the string worldsheet to the AdS boundary, and further provide a proof, which was published recently in [2212.05877]. If time allows, I will show how this can be used to extend the exact holographic matching of chiral primary three-point functions to arbitrary spectral flow sectors in the supersymmetric model, and briefly touch upon on-going work related to four-point functions in this context.

Institut Henri Poincaré, salle 314, 3ème étage

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