Contribution ID: 13

An Algebraic Perspective on Carrollian Holography

Tuesday, 24 September 2024 12:10 (25 minutes)

Holographic dualities provide a promising framework to approach open questions of quantum gravity, information theory and strongly coupled systems; yet, a complete realisation of Holography beyond the realm of AdS/CFT is still to be achieved. This talk is motivated by an attempt to construct holographic dualities involving asymptotically flat spacetimes, in particular one that intends to resemble the set-up of AdS/CFT and is dubbed "Carrollian Holography". I will discuss some of the obstacles within this approach from the perspective of the bulk spacetime and motivate how algebraic methods may provide a robust, symmetry-based way to approach the construction of holographic toy models. As a concrete example, I will focus on the role played by coherent states and their role in the description of holographic probes.

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