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Aspects of Flat-Space Holography and Higher Spins

Wednesday 27 September 2023 16:55 (18 minutes)

The Holographic Principle considerably contributed to our understanding of quantum gravity, information theory and strongly coupled systems over the last few decades. Although its best-studied realisation arguably lies within the AdS/CFT correspondence, it is expected to apply in much more general circumstances. Of particular interest may be holographic dualities that involve gravity duals relevant for real-world scenarios, such as de Sitter or flat spacetimes.
In my talk I plan to discuss some of the peculiarities that arise in Flat-Space Holography that are not present in AdS/CFT, with particular focus on the case of three spacetime dimensions in the bulk. I will furthermore present an algebraic approach to higher-spin theory in flat spacetimes that can be utilised to introduce massive fields to the gravitational theory.

Summary

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