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320 Flat space holography

The holographic principle posits that quantum gravity in D dimensions is equivalent to quantum field theory in one lower dimension. Almost a quarter of a century ago, it has been implemented successfully within string theory in the context of the AdS/CFT correspondence, which requires spacetime to be negatively curved. An outstanding question is the generality of holography, and in particular whether or not it works also in asymptotically flat spacetimes. I review recent progress in answering this question affirmatively.

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