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# Non-perturbative Contributions from Black Holes in de Sitter

*Wednesday 19 April 2023 11:30 (1 hour)*

I will discuss some progress in our understanding of the Euclidean action of de Sitter (charged) black hole spacetimes and their contributions in a Euclidean path integral approach, using a constrained instanton formalism. In a first attempt to start understanding non-perturbative corrections to de Sitter correlators, I will then describe how the the late-time behavior of de Sitter correlators in conjugate static patches, for large mass, can be understood in terms of a sum over complex geodesics using a heat-kernel approximation. I will end with some important open questions.

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