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de Sitter space and braneworld holography

Friday 13 January 2023 15:00 (1 hour)

Quantum backreaction in semi-classical gravity is a notoriously difficult task. In this talk, I will explain how braneworld holography can help us tackle this problem. I will review some basic properties of braneworld models with or without a cosmological constant, emphasizing various semi-classical properties of the solutions. As an application, I will consider the backreaction due to conformal matter in conical de Sitter space and show that it gives rise to quantum dS black holes in 3D, solutions that do not have a classical counterpart.

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Session Classification: Invited Contribution