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Entanglement generation in the Hawking effect for realistic Black Holes

Thursday, 23 May 2024 15:45 (15 minutes)

In this talk we will explain how to quantify the entanglement generated in the Hawking process for rotating black holes iluminated by CMB radiation. We will show how ergoregions leave a specific signature in the entanglement structure of Hawking radiation, absent for Schwarzschild black holes. The formalism we develop applies for gravitational as well as analogue black holes. We will finish by discussing laboratory analogues where these novel signals can be detected in the near future.

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