

Black hole correspondences: notes and cautionary remarks

Thursday, 19 December 2024 11:30 (30 minutes)

Connections between distinct phenomena often reveal profound insights in physics. In this talk, I will explore the interplay between black hole shadows, quasinormal modes, and greybody factors, highlighting the correspondences that link these seemingly unrelated aspects of black holes. I will delve into the intriguing aspects of these correspondences, by discussing their origin, range of applicability and limitations. Combinations of these correspondences provide new ways of computing the quantities at play; I will discuss the precision of such new methods as compared to the traditional ones and those inspired by machine learning algorithms.”

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