

Arithmetic Chaos Inside Black Holes

vendredi 21 juin 2024 11:30 (1 heure)

It has been known for over 50 years that spacetime dynamics becomes chaotic in the approach to singularities. Furthermore, the classical gravitational dynamics exhibits remarkable number-theoretic properties known as arithmetic chaos. I will review these facts and give an explicit realisation of these phenomena in the interior of an asymptotically AdS black hole. I will discuss possible implications for the nature of black hole singularities and black hole thermodynamics.

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Classification de Session: Formal theory