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INVITADO: Jozef Skakala

Centro de Matemática, Computação e Cognição, UFABC, Santo André, SP, Brazil

TITULO: Asymptotic quasi-normal modes and some conjectured thermodynamical properties of spacetime

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ABSTRACT

The perturbations in black hole spacetimes, when decaying, show characteristic (damped) oscillations called quasi-normal modes. The asymptotically highly damped modes are widely suspected to carry information about certain black hole thermodynamical properties in the semi-classical limit. We analyse the behavior of asymptotic quasi-normal frequencies of static black hole spacetimes and interpret the meaning of the results, linking them to possible thermodynamical properties of spacetime. We analyse our suggestions in the broader context of spacetime thermodynamics and discuss some open questions.