

SEMINAR

Grupo de Análise Funcional e Aplicações Functional Analysis and Applications Group

Black holes

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Abstract

Einstein's theory of general relativity is the perfect marriage between physics and mathematics. It uses the elegant Riemannian geometry to describe, with enormous success, the gravitational interaction as warped spacetime. Black holes are the gravitational atoms: the simplest non-trivial solutions of this theory. In this talk, in a colloquium style, I shall first review some key (astro)physical and mathematical aspects of black holes. Then, I will present some recent results from our group's research and discuss some important open questions in the field.

Room Sousa Pinto
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