

## Spanish and Portuguese Relativity Meeting



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# Critical gravitational collapse in elastic matter models

*Tuesday 23 July 2024 17:15 (15 minutes)*

Critical collapse in general relativity is a topic with a rich history. In the case of perfect fluids in spherical symmetry, the critical solution at the threshold of black hole formation is known to be continuously self-similar, a property that allows to compute the critical exponent by using renormalization group techniques and solving a system of ODEs forming a boundary value problem. I will discuss how this picture extends to the case of critical collapse with elastic materials.

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