

Gravitational Geometry and Dynamics Group Seminar

Wed., April. 10th, 2024, at 11h00.

Room: Sala Sousa Pinto and Zoom ID: 989 6252 0928

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at: gravitation.web.ua.pt



Confinement of exotic energy

By solving the Einstein's field equations, we derive several configurations of compact objects with a nucleus of exotic energy in a static and spherically symmetric spacetime.

In this talk I describe the derivation and several properties of the configurations, including the fact that in some of these objects can be reached a compacity as close to the black hole as desired, and the configurations remain without singularities or horizons.

I present the evolution of some of the configuration which describe interesting dynamical spacetimes which seems to maintain the configuration at least for the time of the numerical evolution. I conclude by mentioning some ideas which can be tested in these peculiar configurations.