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CENTRO DE I&D EM MATEMÁTICA E APLICAÇÕES
CENTER FOR R&D IN MATHEMATICS AND
APPLICATIONS

Gravitational Geometry and Dynamics Group Seminar

Wed. 23rd November '22 Online at 12h00 (PT)

Daniela Doneva

Theoretische Astrophysik, Tuebingen

Zoom meeting ID 962 2413 8340

passcode: ask to annulli@ua.pt - herdeiro@ua.pt

Dynamical descalarization with a jump during black hole merger

The black hole merger in scalar-Gauss-Bonnet gravity can lead to dynamical descalarization this is a spontaneous release of the scalar hair of the newly formed black hole. Depending on the exact form of the Gauss-Bonnet coupling function, the stable scalarized solutions can be either continuously connected to the Schwarzschild black hole, or the transitions between the two can happen with a jump. In the present talk, we will discuss the black hole head-on collisions in scalar-Gauss-Bonnet gravity prone to dynamical descalarization and the gravitational wave manifestation of such a jump.

[https://videoconfcolibri.zoom.us/j/96224138340?](https://videoconfcolibri.zoom.us/j/96224138340?pwd=YkZUMGILb0dqVjcxOVpXMTFVMTBXQT09)

[pwd=YkZUMGILb0dqVjcxOVpXMTFVMTBXQT09](https://videoconfcolibri.zoom.us/j/96224138340?pwd=YkZUMGILb0dqVjcxOVpXMTFVMTBXQT09)

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