



Contribution ID: 39

Type: **not specified**

Perturbations of accelerated black holes

We present some recent results obtained in the perturbation theory of black holes considering accelerated geometries. We studied black holes with and without charge and cosmological constant demonstrating in most of the cases the dynamical stability to first order scalar perturbation. We inspect the relation between scalar perturbations and the breakdown of the strong cosmic censorship conjecture demonstrating its collapse for particular cases and black hole parameters. In the particular cases when the geometry is stable to scalar perturbation we calculate the quasinormal modes of the solutions.

Author: Dr FONTANA, Rodrigo (UFRGS)

Presenter: Dr FONTANA, Rodrigo (UFRGS)