



IV Amazonian Workshop on Black Holes and Analogue Models of Gravity

May 11th - 15th 2015
Federal University of Pará

Scalars, Spinors, and Gravitational Wave Extraction

Breno Imbiriba

Universidade Federal do Pará, Brasil

Numerical spacetimes generated by simulations of binary black hole collisions can be thought as been a highly deformed Kerr spacetime. These deformities do propagate towards the observer at infinity, eventually becoming small perturbations over Kerr. Here we will see the role of Weyl Scalars (or Spinors) in mapping the resulting numerical spacetime into a perturbed Kerr black hole and in the gravitational wave extraction procedure.