

BENEMÉRITA UNIVERSIDAD AUTÓNOMA DE PUEBLA



INSTITUTO DE FÍSICA
“Luis Rivera Terrazas”



SEMINARIO
“DR. JESUS REYES CORONA”

“Black hole numerical simulations: excision technique applied to gravitational collapse”

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Black holes are fascinating objects, both from theoretical and observational (astrophysical) sides. They appeared as first exact solutions of the Einstein equation of General Relativity and are studied today in many numerical simulations. After some historical remarks and a broad introduction to the black hole model within General Relativity, I will present one of the two major techniques to simulate these objects on a computer, namely excision, as well as some results in the stationary case and in the dynamical scenario of the gravitational collapse of a perfect fluid.

Auditorio-IFUAP

**Viernes 2 de junio de 2017
13:00 Hrs.**