

Postdoc position in Black Hole Rotation Curves at IFUAP, Puebla, Mexico

The Instituto de Física at the Benemérita Universidad Autónoma de Puebla (IFUAP) calls for applications for a postdoctoral position to work in Black Hole Rotation Curves within General Relativity and Modified Theories of Gravity.

The ideal candidate should have a strong, internationally recognized record in one or more of the following areas: black holes in general relativity and alternative theories of gravity, black hole rotation curves, general relativistic astrophysics, as well as extensive experience in Python programming and statistical Bayesian fits. Emphasis of this position will be on modelling geodesics of test particles orbiting around black holes and extracting information about their mass, spin and distance to the source, both in general relativity and modified theories of gravity.

The position is for two years (one plus one years, depending on research performance) starting in June-July 2021 with flexibility on the starting date. Candidates must hold a PhD title in physics or related fields obtained five years before the appointment (after June-July 2016). Any question regarding this position may be directed to Alfredo Herrera-Aguilar at

aherrera[AT]ifuap.buap.mx

Applications will begin to be reviewed on June 1st, 2021; the process will continue until the position is filled.

The position is part of the "Frontier Science" research project supported by the Mexican Council of Science and Technology (CONACYT), therefore, postdoctoral researchers that already have been granted such a fellowship, cannot apply for this position.

The successful candidate is supposed to collaborate with the research group members including Ulises Nucamendi, Israel Quiros, Ricardo García Salcedo, Alfredo Herrera-Aguilar, Roberto Cartas Fuentesvilla, Alberto Escalante Hernández, Tamé González Cruz, Ricardo Becerril Bárcenas, and Francisco Antonio Horta Rangel, as well as several graduate students.

The candidate is expected to keep a high publication rate and to participate in the group activities. Salary and benefits are competitive (comparable to mexican standards).

Please apply by sending a cover letter, a complete CV, and a research statement to aherrera[AT]ifuap.buap.mx, and arrange for three recommendation letters to be sent the same email address. In the cover letter please mention your area(s) of expertise and specify the date of your PhD defense (or the expected date). Female researchers are particularly encouraged to apply for this position.