Facility for Antiproton and Ion Research

Helmholtzzentrum für Schwerionenforschung GmbH

GSI Helmholtzzentrum für Schwerionenforschung in Darmstadt operates one of the leading particle accelerators for science. In the next few years, the new FAIR (Facility for Antiproton and Ion Research, one of the world's largest research projects), will be built in international cooperation. GSI and FAIR offer the opportunity to work together in this international environment with a team of employees committed to ensure each day to conduct world-class science.

In the division of "Theory" we are looking for a

Physicist (postdoctoral researcher) (all genders) in the field of Theoretical Astrophysics

Posting ID: 22.33-1840

to strengthen our team. The position is part of the cluster project ELEMENTS. The project offers collaborative work with other groups at GSI and other institutes in Europe.

Your Tasks

The successful candidate

- will perform relativistic hydrodynamics simulations of neutron star mergers,
- the main goal is to improve our understanding of the impact of phase transitions on the observables of neutron star mergers.

Your Qualifications

- successfully completed scientific study of physics and a PhD in physics,
- outstanding expertise in relativistic hydrodynamics and numerical simulations,
- a profound background in theoretical astrophysics and in particular in the field of gravitational wave physics and neutron star mergers,
- excellent skills in programming, scientific and high-performance computing are essential,
- Experience with relativistic grid-based hydrodynamics codes and relativistic smooth particle hydrodynamics is highly desirable.

We offer a position in an international research environment with competent supervision and contribution to a very interesting research field. The position is limited to a term of 1.5 years.

Salary is equivalent to that for public employees as specified in the collective agreement for public employees (TVöD Bund).

GSI supports the vocational development of women. Therefore, women are especially encouraged to apply for the position.

Handicapped persons will be preferentially considered when equally qualified.

For any questions please contact PD Dr. Andreas Bauswein (e-mail: a.bauswein@gsi.de; tel.: 06159/ 71 2693).

Information about FAIR and GSI is available at www.gsi.de and www.fair-center.eu.

If you find this position interesting and challenging and would like to work in an exceptional, international, scientific environment, please submit your CV with two referee contacts, with information of your earliest possible starting date and the Posting-ID above to the following address by **April 17th, 2022** to:

GSI Helmholtzzentrum für Schwerionenforschung GmbH
ABTEILUNG PERSONAL
PLANCKSTR. 1
64291 DARMSTADT

or by e-mail: **bewerbung[at]gsi.de**