



The Leibniz Institute for Astrophysics Potsdam (AIP) is a publicly funded German research institute with a long record in history, which includes the Berlin Observatory and the Astrophysical Observatory Potsdam. The latter was the world's first observatory to emphasize explicitly the research area of astrophysics. Today, AIP has an international reputation as a competence center for the development of research technology in the fields of spectroscopy, robotic telescopes, and E-Science. About 130 scientists work on a variety of astrophysical topics such as magnetic fields, solar and stellar physics, stellar and galactic evolution, and cosmology. As a staff member of AIP, you will have the advantage to live in the Berlin-Potsdam metropolitan area as well as enjoying the calm, family-friendly area of Potsdam-Babelsberg for your work place.

The AIP invites applications for a

Postdoctoral researcher in Solar Physics (m/f/d)

The position is in the Solar Physics department within the project "LOFAR observations of the solar corona during Parker Solar Probe perihelion passages" supported by the German Research Foundation (DFG) as part of the Polish - German funding initiative "BEETHOVEN CLASSIC 3", in collaboration with the University of Warmia and Mazury in Olsztyn, Poland.

The LOFAR (LOw Frequency ARray) Key Science Project (KSP) "Solar Physics and Space Weather" has performed observing campaigns during the first three Parker Solar Probe (PSP) perihelia, and plans further ones over the next years. These campaigns consist of multiple observing modes that provide imaging data and dynamic radio spectra, as well as interplanetary scintillation observations probing the heliosphere.

We are seeking a postdoctoral researcher to work on these campaign data. The successful candidate's tasks consist of the analysis of interferometric imaging data of the active and quiet solar corona, including the further development of solar imaging techniques in collaboration with the Solar KSP. Furthermore, they cover solar radio burst identification and analysis in solar dynamic radio spectra and images, in combination with PSP radio and in-situ energetic electron data, and modeling of the underlying physical processes. The researcher will also be involved in the planning of future PSP perihelia observing campaigns and the preparation of LOFAR observing campaigns during perihelion passes of the upcoming Solar Orbiter mission.

The applicant is expected to have a PhD in Physics or Astronomy, and to be experienced in radio interferometry, solar physics, and/or space plasma physics. Experience in solar radio astronomy, with LOFAR data and the LOFAR software environment is desirable.

The appointment is a fixed-term contract for three years and could start on 1 February 2020. The salary is based on the German public service scale (TV-L E13) and commensurate with qualifications and experience. It includes employer contributions to medical and dental insurance, maternity leave and retirement benefits.

The AIP is an equal opportunity employer, values diversity and particularly encourages applications of women. Preference will be given to people with disabilities with equal competence.

To apply, please send your CV, publication list, copies of academic degrees and a minimum of two letters of reference preferably by email to bewerbung.2019-27@aip.de. Complete applications received by 6 January 2020 will receive full consideration.

Contact:

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