



innoFSPEC Potsdam, located at the Leibniz Institute for Astrophysics Potsdam (AIP) invites applications for a

Postdoctoral researcher

for the design and characterization of multi-telescope interferometric beam combiners for stellar interferometry

Overview

innoFSPEC Potsdam is an Excellence Center for research and innovation created as a joint venture between the Leibniz-Institute for Astrophysics Potsdam (AIP) and the University of Potsdam (UP). The head office of the center is based at the AIP in Potsdam-Babelsberg.

The AIP is located in the beautiful Potsdam/Babelsberg area, at the southwestern border of the Berlin metropolitan region. About 130 scientists at AIP work on a variety of topics in astrophysics spanning from solar physics to cosmology, as well as on the development of new technologies and instrumentation for astronomical spectroscopy and ground-based telescopes.

Your tasks

- Design and characterization of arrays of coupled waveguides for near-infrared, multi-telescope (≥ 6) beam combination in stellar interferometry
- Theoretical and experimental evaluation of techniques for the achromatization of inter-waveguide evanescent coupling
- Development of working prototypes of integrated optics beam combiners in collaboration with third party photonic manufacturers

Your profile

- PhD degree in Physics, Optical Engineering or Astronomy
- Experience in experimental and theoretical micro-optics and photonics
- Good programming skills (e.g. C++, MATLAB and/or LabView)
- Good general ICT skills (e.g. standard Office packages, Latex, Linux, Windows)
- Hands-on experience in micro-optical design with commercial software (e.g. R-Soft) is desired
- A background in optical interferometric techniques and / or development of astronomical instrumentation is a plus
- Self-motivation, creativity, flexibility and the ability to work alone and in a team are highly appreciated

Conditions

The AIP is an equal opportunity employer and particularly encourages women to apply. It values diversity. The appointment is planned to start by September 1, 2016. End date of the contract will be on August 31, 2021. Further extensions of the contract will depend on the availability of third party funding and the overall performance of the candidate. Salary and social benefits are calculated based on the German public service scale (TV-L).

To apply, please send a single PDF (up to 10 MB), with your Curriculum Vitae (including publication list), cover letter, a list of references (3 or more) and statements on education and skills to zik2-si@aip.de or to the address stated below. Complete applications received by August 1, 2016 will receive full consideration, however, review of applications will continue until the position is filled.

Contact

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