



Postdoctoral Position in Astrophotonics at innoFSPEC, AIP

Overview

The innovation center innoFSPEC Potsdam is a joint project between the University of Potsdam and the Leibniz-Institute for Astrophysics Potsdam (AIP). While AIP has a strong record in the development of optical instrumentation for state-of-the-art international observatories (e.g. ESO, LBT, HET, CAHA), innoFSPEC Potsdam provides a unique opportunity for research on key enabling technologies and application studies for instrumentation at modern telescopes, e.g. the ELT. The innoFSPEC group “Astrophotonics” solicits applications for a postdoc position concerned with the research in the areas of interferometric beam combiners and aperture remapping. The main task consists in end-to-end simulations and experimental validation of discrete beam combiners using ULI inscribed waveguide structures. The tasks lead to on-sky demonstration of proof-of-concept at VLTI and CHARA.

Your Tasks

- Design and numerical modelling of integrated optics beam combiners
- Development and fabrication of working prototypes of discrete beam combiners, for on-sky tests along with international collaborators
- Supporting PhD students in the related research activities

Your Profile

- PhD in areas related to astronomical instrumentation, photonics or physics
- Background in astronomical instrumentation, specifically with interferometers, beam combiners, fiber optics, spectroscopy, frequency combs is an added advantage
- A track record of scientific publications in peer-reviewed journals
- Good analytical and mathematical skills are an advantage
- Good programming skills with Python, MATLAB, LabView is highly desired

Conditions

The AIP is an equal opportunity employer and strives to maintain a diverse, inclusive work environment and culture. AIP particularly encourages applications from women and those from diverse backgrounds. Preference will also be given to people with disabilities with equal competence. The appointment could start immediately after the recruitment process is completed. The appointment would be until August 2021. Salary and social benefits are calculated based on the German public service scale TV-L and depends on qualification. Employer contributions to medical, parental leave, and retirement benefits are included. To apply, please send your CV, publication list, copies of academic degrees, and a brief research plan to: bewerbung_2019-01@aip.de. Review of applications will begin 11.02.2019, and continue until the position is filled.

Contact

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