UNIVERSITÄT BERN

Astronomisches Institut, Sidlerstrasse 5, CH - 3012 Bern

Bern, July 14, 2023

Philosophisch-naturwissenschaftliche Fakultät

Astronomisches Institut

The **Space Weather group of the Astronomical Institute, University of Bern** is inviting applications for a

PhD student

to work on

astronomical instrumentation

The University of Bern hosts many domains of astronomy, from solar physics, to exoplanets, and satellite observations. The successful candidate will work in the space weather group, which focuses on understanding solar and stellar flares with machine learning. This project has the goal of building a unique instrument to measure the full visible spectrum of flares. It will be used at the University's observatory in Zimmerwald and as a guest instrument at other facilities.

The PhD student will learn about instrumentation, flares, spectroscopy and spectropolarimetry, data analysis, and programming. The length of a PhD is typically 3-4 years. Support for conferences and collaborations, as well as telescope observing is available.

Requirements:

- We are looking for highly motivated candidates with (or obtaining soon) a MSc in physics or astronomy.
- A background in astronomical instrumentation, optics, or spectrographs is desired.
- Knowledge of programming in Python or IDL and of Zemax would be beneficial.
- At least a basic knowledge of astronomy is required.
- Strong verbal and written communication skills in English.
- Strong analytical abilities and problem solving/troubleshooting skills.
- Teamplayer who likes to work with other group members and students.

Appointment: After January 1, 2024, open until filled. Funding for maximally 4 years.

Application: deadline: **August 15, 2023**, via email to L. Kleint, containing (as one pdf file):

- CV
- motivation letter for this specific PhD position
- a copy of BSc and MSc transcripts of courses and grades (scans of official transcripts are sufficient)
- if available, a link to the Master's thesis.
- Two letters of recommendation shall be sent before the application deadline directly by the referees to L. Kleint.

Salary: Based on the regulations of the University of Bern, starting at 47 kCHF/year

Contact: Prof. Dr. Lucia Kleint (email lucia.kleint@unibe.ch).

An equal opportunity environment is important to us, and we welcome applicants from groups that are traditionally underrepresented in physics and astronomy. We will be particularly pleased to receive applications from women for the advertised position.

Prof. Dr. Lucia Kleint
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