b UNIVERSITÄT BERN

Postdoctoral Position in Microwave Remote Sensing

The Microwave Division at the Institute of Applied Physics, University of Bern, develops and operates microwave radiometers for remote sensing of water vapor, ozone, temperature and other essential climate variables in the middle atmosphere. It is a member of the Oeschger Center for Climate Research (OCCR) at the University of Bern and of the international Network of Atmospheric Composition Change (NDACC). We are currently offering a postdoctoral position for 12 months for an upgrade of our NDACC instruments.

Responsibilities

The 22 GHz radiometer for middle atmospheric water vapor (MIAWARA) is observing near Bern since 2002 (Lainer et al. 2019, <u>https://doi.org/10.5194/acp-19-6611-2019</u>). Similar instruments of our group are operated in South Korea and the Arctic research station Ny-Ålesund on Spitsbergen. We are planning an upgrade of the receivers and of the data processing pipeline of these instruments. The successful candidate will be responsible for an update of the calibration and optimal estimation retrieval routines. It will be also necessary to investigate the impact of a new digital spectrometer with improved linearity on the retrieval results, and to homogenize the long term measurement series after the upgrade.

Requirements and applications

The position requires a PhD degree in natural sciences or engineering with a background in remote sensing. Experience in data analysis and instrumentation is expected, preferably with microwave radiometry and inversion techniques. Working language will be in English or German.

Interested applicants are invited to send their curriculum vitae, a brief statement of research interests (1-page), publication list, and the contact details of 2-3 reference persons by email.

The IAP is actively seeking to increase the number of women in physics and hence women are strongly encouraged to apply.

Contact for applications and informal inquiries:

Dr. Axel Murk Head of the Microwave Physics Division Institute of Applied Physics, University of Bern Sidlerstr. 5 CH-3012 Bern murk@iap.unibe.ch www.iap.unibe.ch