

Seminar über Microwave Physics and Atmospheric Physics

Referent/in: Dr. Alistair Bell, Microwave Physics, IAP, University of Bern

Titel: **MIAWARA: Developments on a 22 GHz radiometer for middle atmosphere water vapour in Switzerland**

Water vapor in the middle atmosphere is crucial for the Earth's overall radiative balance, influences ozone concentrations and temperature dynamics within the middle atmosphere, and affects surface weather events via stratosphere-troposphere interactions. A microwave radiometer for observing middle atmosphere water vapour (MIAWARA) was developed by the Institute of Applied Physics (IAP) at the University of Bern in 2002 and has been permanently stationed at Zimmerwald, Bern, since 2006. Due to outdated data processing methods, the calibration and retrieval of data from the instrument fell into disrepair in recent years. These old methods have now been updated, together with key instrumental components which offer the potential for increased retrieval vertical range and reduced retrieval error. In this seminar, the developments of MIAWARA will be presented, alongside a verification of the latest retrieval setup and a short overview of future projects that are associated with the instrument.

Zeit: Freitag, 21. April 2023, 10:15 Uhr

Ort: Room A97, Exwi, Sidlerstrasse 5, 3012 Bern
<https://unibe-ch.zoom.us/j/97081325603?pwd=d0ozME5xOS9pQVNxallLem81VHQyZz09>
Meeting ID: 970 8132 5603
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