Universität Bern
Institut für Angewandte Physik
Sidlerstrasse 5
3012 Bern, Schweiz

Telefon: +41 31 684 89 11
E-Mail: iapemail.iap@unibe.ch
www.iap.unibe.ch

UNIVERSITÄT BERN

Seminar über Microwave and Atmospheric Physics

Referent/in: **Dr. Olivier Auriacombe, AAC Omnisys, Gothenburg, Sweden**

Titel: **High Spectral Resolution Airborne Microwave Sounder (HiSRAMS)**

A high spectral resolution airborne microwave sounder has been developed by Omnisys Instruments in collaboration with the National Research Council Canada (NRC) and McGill University from a European Space Agency (ESA) funding. Two radiometers have been designed with different operating frequency range, 49.5 – 58.5 GHz and 175.5 – 185.0 GHz, observing the H and V polarizations. Each unit is composed of two heterodyne receivers combined with 2 polyphase digital Fast Fourier Transform spectrometers with 5 GHz bandwidth, with up to 16384 channels. The microwave sounder presents system noise temperatures below 250K and 750 K for the 54 GHz band and 183 GHz band, respectively. The two units have been installed onboard the NRC Convair-580 research aircraft for high spectral resolution remote sensing of the atmosphere.

Zeit: Freitag, 14. Oktober 2022, 10:15 Uhr

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