

Seminar über Microwave Physics and Atmospheric Physics

Referent/in: Dr. Derek Houtz, WSL and TerraRad Tech AG, Zürich

Titel: Portable L-band radiometers for Soil and Vegetation Remote Sensing

Dr. Derek Houtz, co-founder and CEO of TerraRad Tech AG, and Research Scientist at the Swiss Federal Institute for Forest Snow and Landscape Research (WSL) will introduce the many applications of the Portable L-band Radiometers (PoLRa). Operating in the 1400-1427 MHz protected band L-band has historically been used for remote sensing of soil moisture, e.g. ESA SMOS and NASA SMAP satellites. Miniaturizing this concept has allowed placing radiometers on drones, vehicles, and even golf course mowers. In this talk we dive into the radiometer design, antenna, retrieval algorithm, and results of the Portable L-band Radiometer (PoLRa). New developments with ETHZ and Innosuisse on C-band radiometer design are also introduced.

Zeit: Freitag, 4. November 2022, 10:15 Uhr

Ort: Room A97, Sidlerstrasse 5, 3012 Bern
<https://unibe-ch.zoom.us/j/97081325603?pwd=d0ozME5xOS9pQVNXallLem81VHQyZz09>
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