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

Telefon: +41 (0)31 631 89 11
E-Mail: iapemail@iap.unibe.ch
www.iap.unibe.ch

UNIVERSITÄT BERN

Seminar über Microwave Physics and Atmospheric Physics

Referent/in: Dr. Gunter Stober, IAP, University of Bern

Titel: Active and Passive remote sensing of the middle atmosphere: open questions and science perspectives

The middle atmospheric circulation is driven by atmospheric waves, which carry energy and momentum from their source to the area of their dissipation and thus providing an energetic coupling between different atmospheric layers. A comprehensive understanding of the wave-wave or wave-mean flow interactions and turbulence and mixing processes is still elusive. General Circulation models often make use of parameterizations or numerical spectral truncations to enforce model stability, which leads to inconsistencies in the energy budget and balance in the models. Active and passive remote sensing of the middle atmosphere provides key observations to study the dynamical processes as well as to improve meteorological analysis and reanalysis through data assimilation. Furthermore, we show examples of atmospheric tomography using multistatic observations applying a 3DVAR+div algorithm.

Zeit: Freitag, 26. November 2021, 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
Passcode: iapmw