

## Seminar über Microwave Physics and Atmospheric Physics

**Referent/in:** Prof. Ulrich Achatz, Institut für Atmosphäre und Umwelt, Goethe-Universität Frankfurt, Frankfurt/Main, Germany

**Titel:** Gravity waves and their influence on weather and climate: Challenges and new approaches

Even with present and foreseeable computational capabilities, the spatial resolution of atmospheric weather-forecast and climate models is and will remain insufficient to capture many essential processes. Next to clouds and turbulence, subgrid-scale waves and their parameterization are one of the grand challenges of the field. Here, especially buoyancy-driven gravity waves are in the focus. The talk will give an overview of the fundamental properties and atmospheric impacts of these waves. It will describe lead issues in their handling in models, and it will discuss recent developments towards their solution, ranging from laboratory experiments over theory to atmospheric modeling.

**Zeit:** Freitag, 11. November 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  
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