

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

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



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## Seminar über Microwave Physics and Atmospheric Physics

**Referent/in:** Roland Albers, IAP, University of Bern

**Titel:** An overview of the Arctic Weather Satellite and its quasi-optical design

The Arctic Weather Satellite (AWS) mission is a low-cost constellation of single instrument satellites in polar orbit, providing "nowcasting" capabilities in the arctic region. Currently, a prototype is being built for which the Microwave Physics group is working on the quasi-optical design as well as developing and manufacturing the calibration targets, both on-board and on-ground. Quasi-optical systems for meteorological satellites have historically been very complex and costly, but recently many streamlined low-cost missions with potential for scalability like AWS have emerged. This talk introduces the typical challenges and trade-off decisions for such a mission, using AWS as an example.

**Zeit:** Freitag, 17. Dezember 2021, 10:15 Uhr

**Ort:** Raum A97, ExWi, Sidlerstrasse 5  
<https://unibe-ch.zoom.us/j/97081325603?pwd=d0ozME5xOS9pQVNxallLem81VHQyZz09>  
Meeting ID: 970 8132 5603  
Passcode: iapmw