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## Seminar über Microwave Physics and Atmospheric Physics

**Referent/in:** Dr. Uwe Raffalski, Swedish Institute of Space Physics, Kiruna

**Titel:** Atmospheric Remote Sensing in Kiruna in northernmost Sweden

The location of the Swedish Institute of Space Physics (67.84N/20.41E) allows for interesting atmospheric trace gas measurements inside the polar vortex over long lasting winter periods. In particular Ozone is one of the target species which is monitored all through the year since 2002 when the **K**iruna **M**illimeter wave **R**adiometer, KIMRA, started operation. Later on the Millimeter wave RAdiometer 2 of the Karlsruhe institute of Technology (KIT) was installed here, too. Originally designed for Chlorine Monoxide (ClO) observations at 204 GHz and 278 GHz respectively, these radiometers, however, have not been able to detect the very faint signature of ClO but instead are now continuously observing Ozone and Carbon Monoxide (KIMRA).

Other instruments such as the KIT FTIR and a DOAS system from MPI in Mainz are monitoring the atmosphere since the end of the 1990-ies.

I will present these remote sensing activities and also mention other scientific efforts in Northern Sweden, having Kiruna as a base.

**Zeit:** Freitag, 03. Dezember 2021, 10:15 Uhr

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