

High power large aperture radar observations of meteors

Powerful radars can be used to study interplanetary and interstellar dust that cross Earth's orbit. Radar observations can yield information about e.g., the mass influx of meteoric matter, the orbital distribution of dust, and study the complex interaction that occurs between a dust particle and the Earth's upper atmosphere. One of the outstanding problems is the lack of any definitive observations of meteors of interstellar origin using radars. This talk will focus on the ongoing meteor observation program using the Middle Atmosphere Alomar Radar System (MAARSY), which is located in Northern Norway. The talk will also discuss the meteor observation capabilities of the upcoming tri-static EISCAT 3D radar, which is being constructed also in Northern Norway.



Thursday, October 12th

4:00-5:00 p.m.

725 Commonwealth Ave | Room 502

Juha Vierinen

UiT The Arctic University of Norway