



ID de Contribution: 37

Type: **Oral presentation**

Detection of exoplanets using low frequencies radio imaging

mercredi 28 février 2024 10:00 (15 minutes)

Radio interferometry is a great tool to study Jupiter's magnetic field, and NenuFAR provides quality low-frequencies observation of it from 10 to 85 MHz. As we expect star-planet interactions from gas giants near to their star to be visible in this range of frequencies, we try to detect them using radio imaging. This should provide useful information and constraints on these planets' magnetic field. In this presentation, I will introduce the basics of radio imaging, and the star-planet interactions we are looking for, before detailing an example of observation.

Astrophysics Field

Planetology (including small bodies and exoplanets)

Day constraints

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Classification de Session: Session 1