Session Program

Sep 22 – 26, 2025

LOFAR Family Meeting 2025

Science talks

Institut de Physique du Globe de Paris
1 Rue Jussieu 75005 Paris France

Mon, September 22

9:15 AM

Science talks

Session | **Location:** Institut de Physique du Globe de Paris, 1 Rue Jussieu 75005 Paris France | **Convener:** Cyril
Tasse

9:15 – 9:45 AM

Recent Advances in the LOFAR-EoR and NenuFAR Cosmic Dawn Projects

Speaker
Florent Mertens

9:45 – 10:00 AM

Overdispersed radio source counts and excess radio dipole detection

Speaker
Lukas Böhme

10:00 – 10:30 AM

WEAVE-LOFAR: Harnessing the Power of Low-Frequency Radio Observations Using Optical Spectroscopy

Speaker
Marina Arnaudova

10:30 – 10:45 AM

Radio-Detected Lyα Emitters at $1.88 < z < 3.52$: AGN Fraction and Lyα Visibility

Speaker
Sai Zhai

10:45 AM

11:15 AM

Science talks

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Tasse

11:15 – 11:30 AM

The role of galaxy properties and environmental factors on radio AGN prevalence

Speaker
Lara Alegre

11:30 – 11:45 AM

Studies of compact AGNs at low frequencies with LOFAR

Speaker
Aleksandra Krauze

11:45 AM – 12:15 PM

Sub-arcsecond wide-field imaging with the LOFAR LBA

Speaker
Dr Henrik Edler

12:15 – 12:30 PM

A view of radio relics at sub-arcsecond resolution with LOFAR

Speaker
Gabriella Di Gennaro

12:30 – 12:45 PM **Searching for revived fossil plasma sources in galaxy clusters**

Speaker
Luca Bruno

12:45 – 1:00 PM **New Scaling Relations of Galaxy Cluster Radio Halos**

Speaker
Marco Balboni

1:00 PM

2:30 PM

Science talks

Session | **Location:** Institut de Physique du Globe de Paris, 1 Rue Jussieu 75005 Paris France | **Convener:** Aaron Golden

2:30 – 2:45 PM

Unveiling the Spectral Properties of Radio Halos in the Galaxy Clusters of the LOFAR sky survey

Speaker
Koushika Sri Lakshmi srikanth

2:45 – 3:15 PM **Magnetic fields inside and beyond galaxy clusters with LOFAR**

Speaker
Chiara Stuardi

3:15 – 3:30 PM **Galactic fields in the LoTSS**

Speaker
Maria Arias

3:30 – 3:45 PM **Magnetic fields in planetary nebulae revealed by LOFAR**

Speaker
Marcin Hajduk

3:45 – 4:00 PM **ApPolLo- Apertif counterparts of polarised LOFAR sources**

Speaker
Anna Berger

4:00 PM

5:00 PM

Science talks

Session | **Location:** Institut de Physique du Globe de Paris, 1 Rue Jussieu 75005 Paris France | **Convener:** Aaron Golden

5:00 – 5:30 PM **Black hole jets on the scale of the Cosmic Web**

Speaker
Martijn Oei

5:30 – 5:45 PM

From activation to afterglow: Duty cycles and restarted activity in peaked-spectrum radio sources

Speaker
Anupama Mohanan

5:45 PM

Tue, September 23

9:00 AM

Science talks

Session | **Location:** Institut de Physique du Globe de Paris, 1 Rue Jussieu 75005 Paris France | **Convener:** Andrea Bracco

9:00 – 9:15 AM

The deepest radio image using the full European LOFAR

Speaker
Jurjen de Jong

9:15 – 9:45 AM

Tracing Turbulence and Shocks: LOFAR's Exploration of Galaxy Cluster Radio Emission

Speaker
Reinout van Weeren

9:45 – 10:00 AM

Revealing the intricacies of radio galaxies and filaments in the galaxy cluster Abell 2255

Speaker
Emanuele De Rubeis

10:00 – 10:15 AM

First LOFAR LBA View of the Sausage Cluster at 45 MHz

Speaker
Dr Giulia Lusetti

10:15 – 10:30 AM

The Perseus cluster with LOFAR LBA

Speaker
Christian Groeneveld

10:30 – 10:45 AM

The radio and optical morphological properties of LOFAR sources in the Euclid Deep Field North

Speaker
Manuela Magliocchetti

10:45 AM

11:15 AM

Science talks

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11:15 – 11:30 AM

Searching for LOFAR-selected optical/NIR-dark galaxies in the EDFN

Speaker
Marika Giulietti

11:30 – 11:45 AM

From clusters and groups to the cosmic field: environmental drivers of AGN evolution in LoTSS DR2

Speaker
Thomas Pasini

11:45 AM – 12:00 PM **The Fraction of Radio-Loud AGN in the Euclid Deep Field North**

Speaker
Mr Scott Visser

12:00 – 12:15 PM
The largest samples of radio-luminous AGN from wide-area LOFAR surveys

Speaker
Martin Hardcastle

12:15 – 12:45 PM **The LOFAR view of the EDFN**

Speaker
Marco Bondi

12:45 – 1:00 PM **The LOFAR Two-metre Sky Survey**

Speaker
Timothy Shimwell

1:00 PM

Wed, September 24

9:00 AM

Science talks

Session | **Location:** Institut de Physique du Globe de Paris, 1 Rue Jussieu 75005 Paris France | **Convener:** Harish Vedantham

9:00 – 9:15 AM

Probing AGN spectral indices with Apertif and LOFAR

Speaker
Alexander Kutkin

9:15 – 9:30 AM

The LOFAR LBA Sky Survey: second release and plans for LOFAR2

Speaker
Francesco de Gasperin

9:30 – 9:45 AM

Reprocessing the Full LOTAAS Survey with Improved Methods: Paving the Way for Commensal LOFAR 2.0 Transient Searches

Speaker
Dirk Kuiper

9:45 – 10:15 AM

Nearby galaxies with LOFAR

Speaker
Rosita Paladino

10:15 – 10:30 AM

The low-frequency radio-star formation rate relation in nearby galaxies

Speaker
Volker Heesen

10:30 – 10:45 AM

Cosmic ray electron propagation and the radio-IR correlation in IC342

Speaker
Fatemeh Tabatabaei

10:45 AM

11:15 AM

Science talks

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11:15 – 11:45 AM

Fast radio bursts: the LOFAR bass notes

Speaker
Akshatha Gopinath

11:45 AM – 12:15 PM

Transients in the image plane with LOFAR2.0

Speaker
Antonia Rowlinson

12:15 – 12:30 PM

Initial Results from Transient Searches in the LOFAR Two-Metre Sky Survey

Speaker
Reshma Anna Thomas

12:30 – 12:45 PM **Detecting radio transients with LOFAR using LoTSS**

Speaker
Sylvain Ranguin

12:45 – 1:00 PM

Magnetic fields in dense molecular cores: a new perspective from meter-wavelength radio data

Speaker
Andrea Bracco

1:00 PM

Thu, September 25

9:00 AM

Science talks

Session | **Location:** Institut de Physique du Globe de Paris, 1 Rue Jussieu 75005 Paris France | **Convener:** Hanna Rothkaehl

9:00 – 9:30 AM

Signature of the local structures in Low-Frequency Radio Observations

Speaker
Vibor Jelic

9:30 – 10:00 AM

Cosmic ray measurements with LOFAR, and the road to SKA

Speaker
Anna Nelles

10:00 – 10:15 AM

An overview of the cosmic-ray particle detector array at LOFAR

Speaker
Katie Mulrey

10:15 – 10:45 AM

Spectral features and scintillation studies of Cas A from low-frequency observations with NenuFAR

Speaker
Lev Stanislavsky

10:45 AM

11:15 AM

Science talks

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11:15 – 11:30 AM

Detections of Carbon Radio Recombination Lines with the NenuFAR telescope

Speaker
Lucie Cros

11:30 – 11:45 AM

Blazars in the LOFAR Era

Speaker
Hrishikesh Shetgaonkar

11:45 AM – 12:00 PM

From Radio to Optical: Streamlining Source Identification in LoTSS DR3

Speaker
Bonny Barkus

12:00 – 12:15 PM

LoTSS-HR: The high-resolution post-processing of the LOFAR Two-Metre Sky Survey

Speaker
Roland Timmerman

12:15 – 12:45 PM

When Satellites Speak Loudly: Polarized Starlink Emission Below 100 MHz Seen by NenuFAR

Speaker
Xiang Zhang

12:45 PM

2:30 PM

Science talks

Session | **Location:** Institut de Physique du Globe de Paris, 1 Rue Jussieu 75005 Paris France | **Convener:** Florent Mertens

2:30 – 2:45 PM **Near-field satellite detection using LOFAR and GRAVES**

Speaker
Floris Martens

2:45 – 3:00 PM

Navigating the spectrum: regulatory realities and RFI challenges for LOFAR

Speaker
Emma van der Wateren

3:00 – 3:15 PM

RISER – Using LOFAR to Track Space Weather Through the Heliosphere-Magnetosphere-Ionosphere System

Speaker
Mario Bisi

3:15 – 3:30 PM

SIMPL Solutions for Complex Solar Challenges: A New LOFAR Solar Imaging Pipeline

Speaker
Soham Dey

3:30 – 4:00 PM **Solar and Space Weather Observations with LOFAR**

Speaker
Kamen Kozarev

4:00 PM

5:00 PM

Science talks

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5:00 – 5:15 PM

Periodic changes in the dynamic spectra of pulsars as an effect of signal propagation through the ionosphere

Speaker
Leszek Błaszkiewicz

5:15 – 5:30 PM

Monitoring horizontal electron density gradient with LOFAR PL610 in single station mode

Speaker
Dorota Przepiorka-Skup

5:30 – 5:45 PM

Combination of LOFAR and GNSS observations for a statistical characterisation of ionospheric irregularities

Speaker
Leszek Błaszkiewicz

5:45 – 6:00 PM

Dynamic Ionospheric Notifications for Operations and Scheduling (DINOS): Using Ionospheric Observations to Support LOFAR2.0 Operations

Speaker
Gareth Dorrian

6:00 PM

Fri, September 26

9:00 AM

Science talks

Session | **Location:** Institut de Physique du Globe de Paris, 1 Rue Jussieu 75005 Paris France | **Convener:** Dr
Philippe Zarka

9:00 – 9:15 AM

Overview of advancements in understanding lightning initiation and propagation with LOFAR

Speaker
Brian Hare

9:15 – 9:30 AM

New Insights into the Nature of Lightning Intiation via LOFAR Beamforming and ATRI-D

Speaker
Dr Christopher Sterpka

9:30 – 9:45 AM

Investigating the origins of three acceleration episodes during a weak solar eruption accompanied by type II radio bursts

Speaker
Sanna Normo

9:45 – 10:00 AM

Comparative analysis of solar activity

Speaker
Vergil Yotov

10:00 – 10:15 AM

RISER – High-Resolution Visualisation of the Inner Heliosphere Using LOFAR

Speaker
Richard Fallows

10:15 – 10:30 AM

Radio eyes for the Sun, Heliosphere and Ionosphere: Status and plans for the LOFAR2.0 era.

Speaker
Pietro Zucca

10:30 – 10:45 AM

Galaxy detection with deep learning in radio data

Speaker
David Cornu

10:45 AM

11:15 AM

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11:15 – 11:30 AM

The detection of circularly polarized radio bursts from stellar and exoplanetary systems

Speaker
Cyril Tasse

11:30 AM – 12:00 PM

Stars at low frequencies

Speaker
Sanne Bloot

12:00 – 12:15 PM

VLBI with LOFAR and the EVN to resolve the structure of relativistic outflows in gamma-ray binaries

Speaker
Benito Marcote

12:15 – 12:30 PM

Hunting Radio Bursts from Exoplanets and Brown Dwarfs with NenuFAR

Speaker
Xiang Zhang

12:30 – 12:45 PM

Expanding the search of radio exoplanets using the LOFAR Decameter Sky Survey (LoDeSS)

Speaker
Cristina-Maria Cordun

12:45 PM