

Session Program

22-26 Sept 2025

LOFAR Family Meeting 2025

Science talks

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

Monday 22 September

09:15

Science talks

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

09:15–09:45

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

Speaker

Florent Mertens

09:45–10:00

Overdispersed radio source counts and excess radio dipole detection

Speaker

Lukas Böhme

10:00–10:30

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

Speaker

Marina Arnaudova

10:30–10:45

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

Speaker

Sai Zhai

10:45

11:15

Science talks

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11:15–11:30

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

Speaker

Lara Alegre

11:30–11:45

Studies of compact AGNs at low frequencies with LOFAR

Speaker

Aleksandra Krauze

11:45–12:15

Sub-arcsecond wide-field imaging with the LOFAR LBA

Speaker

Dr Henrik Edler

12:15–12:30

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

Speaker

Gabriella Di Gennaro

12:30–12:45

Searching for revived fossil plasma sources in galaxy clusters

Speaker

Luca Bruno

13:00

12:45-13:00

New Scaling Relations of Galaxy Cluster Radio Halos**Speaker**

Marco Balboni

14:30

Science talks**Session** | **Location:** Institut de Physique du Globe de Paris, 1 Rue Jussieu 75005 Paris France

14:30-14:45

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

Koushika Sri Lakshmi srikanth

14:45-15:15

Magnetic fields inside and beyond galaxy clusters with LOFAR**Speaker**

Chiara Stuardi

15:15-15:30

Galactic fields in the LoTSS**Speaker**

Maria Arias

15:30-15:45

Magnetic fields in planetary nebulae revealed by LOFAR**Speaker**

Marcin Hajduk

15:45-16:00

ApPolLo- Apertif counterparts of polarised LOFAR sources**Speaker**

Anna Berger

16:00

17:00

Science talks**Session** | **Location:** Institut de Physique du Globe de Paris, 1 Rue Jussieu 75005 Paris France

17:00-17:30

Black hole jets on the scale of the Cosmic Web**Speaker**

Martijn Oei

17:30-17:45

Blazars in the LOFAR Era**Speaker**

Hrishikesh Shetgaonkar

17:45-18:00

Jet reorientation or giant radio blazars - a continuation**Speaker**

Urszula Pajdosz-Śmierciak

18:00

Tuesday 23 September

09:00

Science talks

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

09:00–09:15

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

Speaker

Anupama Mohanan

09:15–09:45

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

Speaker

Reinout van Weeren

09:45–10:00

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

Speaker

Emanuele De Rubeis

10:00–10:15

First LOFAR LBA View of the Sausage Cluster at 45 MHz

Speaker

Dr Giulia Lusetti

10:15–10:30

The Perseus cluster with LOFAR LBA

Speaker

Christian Groeneveld

10:30–10:45

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

Speaker

Manuela Magliocchetti

10:45

11:15

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11:15–11:30

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

Speaker

Marika Giuliatti

11:30–11:45

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

Speaker

Thomas Pasini

13:00

11:45-12:00

The Fraction of Radio-Loud AGN in the Euclid Deep Field North

Speaker

Mr Scott Visser

12:00-12:15

The largest samples of radio-luminous AGN from wide-area LOFAR surveys

Speaker

Martin Hardcastle

12:15-12:45

The LOFAR view of the EDFN

Speaker

Marco Bondi

12:45-13:00

The LOFAR Two-metre Sky Survey

Speaker

Timothy Shimwell

Wednesday 24 September

09:00

Science talks

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

09:00–09:15 **Probing AGN spectral indices with Apertif and LOFAR**

Speaker

Alexander Kutkin

09:15–09:30 **The LOFAR LBA Sky Survey: second release and plans for LFOAR2**

Speaker

Francesco de Gasperin

09:30–09:45

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

Speaker

Dirk Kuiper

09:45–10:15 **Nearby galaxies with LOFAR**

Speaker

Rosita Paladino

10:15–10:30

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

Speaker

Volker Heesen

10:30–10:45 **Cosmic ray electron propagation and the radio-IR correlation in IC342**

Speaker

Prof. Fatemeh Tabatabaei

10:45

11:15

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11:15–11:45 **Cosmic ray measurements with LOFAR, and the road to SKA**

Speaker

Arthur Corstanje

11:45–12:00 **An overview of the cosmic-ray particle detector array at LOFAR**

Speaker

Katie Mulrey

12:00–12:30 **Transients in the image plane with LOFAR2.0**

Speaker

Antonia Rowlinson

12:30–12:45

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

Speaker

Reshma Anna Thomas

12:45–13:00

Detecting radio transients with LOFAR using LoTSS

Speaker

Sylvain Ranguin

13:00

Thursday 25 September

09:00

Science talks

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

09:00–09:30

Fast radio bursts: the LOFAR bass notes

Speaker

Akshatha Gopinath

09:30–10:00

Signature of the local structures in Low-Frequency Radio Observations

Speaker

Vibor Jelic

10:00–10:15

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

Speaker

Andrea Bracco

10:15–10:45

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

Speaker

Lev Stanislavsky

10:45

11:15

Science talks

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11:15–11:30

Detections of Carbon Radio Recombination Lines with the NenuFAR telescope

Speaker

Lucie Cros

11:30–11:45

The deepest radio image using the full European LOFAR

Speaker

Jurjen de Jong

11:45–12:00

From Radio to Optical: Streamlining Source Identification in LoTSS DR3

Speaker

Bonny Barkus

12:00–12:15

A decade of sub-arcsecond imaging with the International LOFAR Telescope (and a look to the future)

Speaker

Leah Morabito

12:15-12:30

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

Roland Timmerman

12:30-13:00

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

Xiang Zhang

13:00

14:30

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14:30-14:45

Near-field satellite detection using LOFAR and GRAVES**Speaker**

Floris Martens

14:45-15:00

Navigating the spectrum: regulatory realities and RFI challenges for LOFAR**Speaker**

Emma van der Wateren

15:00-15:15

RISER - High-Resolution Visualisation of the Inner Heliosphere Using LOFAR**Speaker**

Richard Fallows

15:15-15:30

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

Soham Dey

15:30-16:00

Solar and Space Weather Observations with LOFAR**Speaker**

Kamen Kozarev

16:00

17:00

Science talks**Session** | **Location:** Institut de Physique du Globe de Paris, 1 Rue Jussieu 75005 Paris France

17:00-17:15

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

Leszek Błaskiewicz

17:15-17:30

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

Speaker

Mariusz Pozoga

17:30–17:45

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

Speaker

Biagio Forte

17:45–18:00

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

Speaker

Alan Wood

18:00

Friday 26 September

09:00

Science talks

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

09:00–09:15

Overview of advancements in understanding lightning initiation and propagation with LOFAR

Speaker

Brian Hare

09:15–09:30

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

Speaker

Dr Christopher Sterpka

09:30–09:45

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

Speaker

Sanna Normo

09:45–10:00

Comparative analysis of solar activity

Speaker

Kamen Kozarev

10:00–10:15

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

Speaker

Mario Bisi

10:15–10:30

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

Speaker

Pietro Zucca

10:30–10:45

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

Speaker

Cyril Tasse

10:45

11:15

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11:15–11:45

Stars at low frequencies

Speaker
Sanne Bloot

12:00–12:15

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

Speaker
Benito Marcote

12:15–12:30

Hunting Radio Bursts from Exoplanets and Brown Dwarfs with NenuFAR

Speaker
Xiang Zhang

12:30–12:45

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

Speaker
Cristina-Maria Cordun

12:45