LOFAR Annual Meeting 2026

Monday, 8 June 2026 - Friday, 12 June 2026

Scientific Programme

LOFAR Annual Meeting 2026 programme
FINAL PROGRAM
Monday
Session 1: Surveys and Methods

14:00–15:30
14:00–14:30 — Invited: Frits Sweijen (UK)

Title: Pushing the fringe: towards a high-resolution sky survey with the ILT.
14:30–14:50 — Bonny Barkus

Title: From Radio Sources to Optical Counterparts: LoTSS DR3 and Euclid DR1
14:50–15:10 — Roland Timmerman

Title: LoTSS-HR: The high-resolution post-processing of the LOFAR Two-Metre Sky Survey
15:10–15:30 — Martin Hardcastle

Title: LoTSS DR3

15:30–16:00 — Coffee
Session 2: Surveys and Methods II
16:00–16:20 — Morteza Pashapour-Ahmadabadi

Title: A hierarchical counts-in-cells model incorporating halo occupation scatter for radio surveys
16:20–16:40 — Francesco de Gasperin

Title: The LOFAR LBA Sky Survey: second data release
Session 3: Epoch of Reionization (EoR)

16:40–17:50
16:40–17:10 — Invited: Emilio Ceccotti (INAF, Italy)

Title: Updates from the LOFAR-EoR Project: Results from the NCP and 3C196 fields
17:10–17:30 — Ayodeji Ibitoye

Title: Cosmology from LOFAR Two-metre Sky Survey Data Release 2: Cross-correlations with Ionized Gas Traced by Thermal Sunyaev Zel’dovich effect
17:30–17:50 — Andre Offringa

Title: Can processing techniques for LOFAR EoR science be used for other science cases?
Tuesday
Session 3: Observatory I

09:00–10:25
09:00–09:05 — V. Impellizzeri - Welcome
09:05–09:25 — M. van Haarlem

Title: Building the LOFAR2.0 Observatory
09:25–09:40 — R. Pizzo

Title: Science Operations with LOFAR2.0
09:40–09:55 — W. van Cappellen

Title: Developing the LOFAR2.0 observing capabilities
09:55–10:10 — J. Swinbank

Title: Developing the LOFAR2.0 data services capabilities
10:10–10:25 — L. Morabito

Title: Enhancing the LOFAR2.0 capabilities - LENSS

10:25–11:00 — Coffee
Session 4: Commissioning the LOFAR2.0 Observatory — Chair E. Orru'

11:00–12:30
11:00–11:15 — M. Brentjens

Title: LOFAR2.0 commissioning
11:15–11:30 — M. Iacobelli

Title: LOFAR2.0 Processing Pipelines
11:30–12:10 — Commissioners

Title: Lightning talks - commissioning results
12:10–12:30 — Discussion

12:30–14:00 — Lunch
Session 5

14:00–14:20
14:00–14:20 — Mick Veldhuis

Title: Improvements in ASTRON’s Visibility Processing Software: a Community Update
14:20–14:40 — George Heald

Title: Progress on Construction and Science Commissioning of SKA-Low
Session 6: Magnetized Universe

14:40–15:30 and 16:00–16:30
14:40–15:10 — Invited: Shane O’Sullivan

Title: The LOFAR RM Grid: a precision view of cosmic magnetism at metre wavelengths
15:10–15:30 — Reinout van Weeren

Title: Polarisation imaging at metre wavelengths with sub-arcsecond resolution

15:30–16:00 — Coffee
16:00–16:20 — Duy Hoang

Title: Searching for Extended Radio Emission from Cosmic Filaments with LOFAR
16:20–16:40 — Mousumi Mahato

Title: Constraining cosmic filament magnetism with LOFAR

Session 7: Deep Fields & AGNs — Part I

16:40–17:30
16:40–17:10 — Invited: Pratik Dabhade (Poland)

Title: Recent developments on giant radio galaxies and radio-AGN with LOFAR
17:10–17:30 — Anupama Mohanan

Title: From Young to Restarted: The Largest Sample of Peaked-Spectrum Sources from LoTSS DR3
Wednesday
Session 7: Deep Fields & AGNs — Part II

09:00–10:30
09:00–09:20 — Leah Morabito

Title: The hidden AGN population: a novel LOFAR perspective
09:20–09:40 — Giulia Lusetti

Title: Galaxy-Scale Jets In the LOFAR-VLBI Deep Fields
09:40–10:10 — John McKean

Title: Gravitational lensing with the ILT: A new probe of dark matter, cosmology and the high redshift Universe
10:10–10:30 — Jort Boxelaar

Title: The LBA view of the ELAIS-N1 field: The deepest wide-field observations at 50 MHz with LOFAR

10:30–11:00 — Coffee
11:00–11:20 — Sagar Sethi

Title: Tracing a radio jet from sub-kiloparsec to hundreds of kiloparsecs in a giant radio galaxy using LOFAR and LOFAR-VLBI
Session 8: Exoplanets

11:20–12:30
11:20–11:50 — Invited: Cristina Cordun (ASTRON)

Title: Radio Emission from Stars and Exoplanets: Pushing Toward the Decameter Regime
11:50–12:10 — Henrik Edler

Title: A census of circularly polarized sources at tens of MHz with V-LoLSS DR2
Session 14: Transients & Pulsars — Part I

12:10–12:30
12:10–12:30 — Sanne Bloot

Title: The key to unlocking the origin of long-period transients

12:30–14:00 — Lunch
Session 14: Transients & Pulsars — Part I (cont.)

14:00–16:00
14:00–14:30 — Invited — Pulsars: Francesco Iraci

Title: Pulsar Timing with LOFAR: Probing the Interstellar Medium
14:30–15:00 — Invited — Transient Surveys: Reshma Anna Thomas

Title: Fast transient searches with LOFAR: From archives to real-time.
15:00–15:20 — Sylvain Ranguin

Title: Searching for Radio Transients in LoTSS
15:20–15:40 — Kate Kelley

Title: AARTFAAC 2.0: Searching for the Rarest Radio Transients
15:40–16:00 — Mark Brionne

Title: Emission configurations of single-pulses at low-frequency

16:00–16:30 — Coffee
Session 15: Transients & Pulsars — Part II

16:30–16:50
16:30–16:50 — Pauline Noé

Title: Study of the Interstellar Medium through Low-Frequency Radio Observation of Pulsar using LOFAR and NenuFAR
Session 11: Stars & Interstellar Medium

17:00–17:30
17:00–17:30 — Invited: Andrea Bracco

Title: The Galactic interstellar medium seen by LOFAR: what have we learned and what comes next?
Thursday
Session 12: Instrumentation, Calibration & RFI Management

09:00–11:20
09:00–09:30 — Invited: Emma Van der Wateren (ASTRON)

Title: Unintended electromagnetic radiation from LEO satellites: observations, impact, and regulatory challenges
09:30–10:00 — Invited: Cees Bassa (ASTRON)

Title: LOFAR 2.0 commissioning a full journey review
10:00–10:20 — Caterina Tiburzi

Title: The Polarization Calibration scheme for LOFAR Beamformed Data

10:20–10:50 — Coffee
10:50–11:10 — Dirk Kuiper

Title: LOTAAS Flatielding and the path to real-time transient searches with EuroFlash
Session 9: Solar, Ionosphere & Space Weather

11:10–12:30
11:10–11:40 — Invited talk — Solar: Soham Dey (NCRA/ASTRON)

Title: Solar Observations with LOFAR
11:40–12:00 — Suli Ma

Title: First Observation and Interpretation of Solar Radio Spike Repeating Burst Pairs
12:00–12:20 — Diana Morosan

Title: Resolving spatial and temporal shock structures using high-resolution radio observations of the Sun
12:20–12:40 — Daniel Clarkson

Title: Frequency-time-resolved Imaging Spectroscopy of Fine Structures in a Solar Radio Noise Storm

12:40–14:00 — Lunch
Session 10: Solar, Ionosphere & Space Weather (continued)

14:00–15:30
14:00–14:30 — Invited talk — Ionosphere: Dorota (CBK, Poland)

Title: Multi-Instrument View of Ionospheric Turbulence
14:30–14:50 — Rebecca Ghidoni

Title: A Long-Term LOFAR Survey of Ionospheric Morphology and Dynamics
14:50–15:10 — Hanna Rothkaehl

Title: LOFAR as a Component of a Passive Radar System for LEO Object Detection
15:10–15:30 — Christian Vocks

Title: Evolution of coronal radio wave scattering during an M class solar flare

15:30–16:00 — Coffee
Session 16: Cosmic Rays & Lightning

16:00–16:30
16:00–16:30 — Invited: Marten Lourens (ASTRON)

Title: LOFAR observations of lightning propagation
Session 13: Galaxy Clusters

16:30–17:40
16:30–17:00 — Invited: Chiara Stuardi (INAF, Italy)

Title: Galaxy clusters with LOFAR: recent results and new perspectives
17:00–17:20 — Christian Groeneveld

Title: Galaxy clusters in the Decameter Sky
17:20–17:40 — Koushika Sri Lakshmi Srikanth

Title: Unveiling the Spectral Properties of Radio Halos in the Galaxy Clusters of the LOFAR sky Survey
Friday
Session 13: Galaxy Clusters (cont.)
09:00–09:20 — Nadia Biava

Title: Investigating the filamentary emission of radio phoenixes and characterising their peculiarities
09:20–09:40 — Matteo Cianfaglione

Title: The emerging complexity of multi-component radio halos in galaxy clusters
09:40–10:00 — Alexander Drabent

Title: The complexity of cluster turbulence: the filamentary radio halo in Abell 2319
10:00–10:20 — Alessandro Ignesti

Title: Leading the Next Generation of Studies of Coma Cluster Galaxies with LOFAR

10:30–11:00 — Coffee
Session 3: Nearby Galaxies

11:00–12:30
11:00–11:30 — Invited: Volker Heesen (Germany)

Title: Star formation, galactic winds, and magnetic fields in nearby galaxies as probed with LOFAR
11:30–11:50 — Pascal Vennedey

Title: Turning the radio dial on star formation in dwarf galaxies

11:50–12:10 — Michael Stein

Title: The LOFAR2.0 perspective of nearby star-forming galaxies, laboratories of magnetic fields and cosmic ray transport

12:10–12:30 — Closing Remarks and ending
POSTERS
Forecasting the detectability of cosmic web filaments: mock observations with LOFAR 2.0 and SKA-LOW — Maicol Della Chiesa
Frequency dependence of pulsar pulse component separation over a wide frequency range — Kristaps Veitners
Numerical simulations of diffuse radio emission in cluster outskirts: turbulent particle reacceleration in a radio bridge — Kosuke Nishiwaki
Exploring the Low-Frequency Radio Sky with LOFAR: Surveys of Compact and Faint Radio Sources — Aleksandra Wołowska
Formation of plasma structures in the ionosphere by the sources placed above, around and below the ionosphere: modelling and radio observations — Yuriy Rapoport

Segmentation of Solar Radio Bursts Using I-LOFAR and IDOLS — Herman le Roux
Probing particle acceleration during the Spring 2025 Solar Orbiter perihelion using I-LOFAR. — Catherine Cuddy
Studying the Extreme Neutron Star Population with I-LOFAR — Charlie Ashe
LOFTS: A LOw Frequency pulsar, FRB and Technosignature Survey — Evan Keane
A Coronal Jet Associated with Type II Radio Burst: Multi-Instrument Imaging of Solar Event on 6 October 2025 — Mohamed Nedal
Characterising the response of an International LOFAR Station — Letizia Vincetti
Observations of solar radio bursts of types II and III using CALLISTO and LOFAR — Bartosz Dąbrowski
Analysis of the periodicity of ionospheric scintillation in the spectra of pulsars observed with PL612 LOFAR station — Leszek Błaszkiewicz
Spectral bridges in type II solar radio bursts — Artem Koval
Decoding the sources of pulsar radiation: radio wave polarization before the escape — Jan Benáček
Spectropolarimetric analysis of a sample of powerful jets in nearby galaxy groups with MeerKAT — Yifei Gong

Extra 9 poster slots still available. If your talk is not on the program and you are interested in submitting a poster instead, please email zucca@astron.nl