

Monday, 3 June

Registration / lunch - 11:00 - 13:30

Session 1 - 13:30 - 15:15 (105 min)

13:30 - 13:40: J. Dempsey / W. Van Cappellen , “Welcome”
13:40 - 14:00: J. Dempsey / W. Van Cappellen , “LOFAR 2.0: running the new observatory”
14:00 - 14:15: J. Hessels , “LOFAR 2.0: science overview”
14:15 - 14:35: R. Pizzo , “SDC operations: achievement, past & future challenges”
14:35 - 14:55: B. Hut , “LOFAR2.0 development status and plans”
14:55 - 15:15: J. Swinbank , “SDC Developments towards LOFAR 2.0”

Coffee / tea - 15:15 - 15:45

Session 2 - 15:45 - 17:45 (120 min)

LOFAR 2.0 Commissioning plan

15:45 - 16:05: M. Brentjens, “LOFAR 2.0 commissioning areas: status, challenges, plans”
16:05 - 16:20: C. Bassa, “Telescope”
16:20 - 16:35: E. Orru', “Operations”
16:35 - 17:05: T. Shimwell et al., “Pipelines”
17:05 - 17:45: T. Shimwell et al., “Discussion: LOFAR2.0 pipelines roadmap”
Andre' Offringa, RAPHOR pipelines
Francesco de Gasperin, LBA pipelines
Leah Morabito, VLBI pipelines

Tuesday, 4 June

Session 3 - 9:00 - 10:30 (90 min)

ISM / magnetism / other - Chair: Cathy Horellou

- 9:00 - 9:30: (Invited) Lucie Cros, "First detections of Carbon Radio Recombination Lines with the NenuFAR telescope"
9:30 - 9:45: Vibor Jelic, "Revealing the Local Bubble and the Complex of Local Interstellar Clouds in the LoTSS-DR2 Faraday tomographic data"
9:45 - 10:00: Anna Berger, "ApPoLo - Apertif counterparts of polarised LOFAR sources"
10:00 - 10:15: Lovorka Gajović, "The ultra-low frequency radio continuum spectra of nearby galaxies"
10:15 - 10:30: 4 x 3 minute poster talks (Arpita Misra, Sai Zhai, Aleksandar Shulevski, Paulina Turekova)
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Coffee / tea / poster - 10:30 - 11:00

Session 4 - 11:00 - 12:15 (75 min)

CR / lightning / other - Chair: Sander ter Veen

- 11:00 - 11:30: (Invited) Stijn Buitink "Detecting cosmic rays with LOFAR"
11:30 - 11:45: Arthur Corstanje, "Measuring high-energy cosmic rays at SKA-Low"
11:45 - 12:00: Brian Hare, "The Initiation of Lightning Dart Leaders with LOFAR"
12:00 - 12:15: Jinglan Zheng, "LOFAR cross correlation with eBOSS"
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Lunch (external) 12:15 - 14:00 (105 min)

Session 5 - 14:00 - 15:30 (90 min)

Surveys and methods (1) - Chair: Francesco de Gasperin

- 14:00 - 14:30: (Invited) Roland Timmerman "Low-frequency VLBI with the International LOFAR Telescope"
14:30 - 14:45: Eleni Vardoulaki, "The high-resolution COSMOS: peering into the unknown with LOFAR and JWST observations"
14:45 - 15:00: Jurjen de Jong, "Into the Depths: Unveiling ELAIS-N1 with LOFAR's deepest sub-arcsecond wide-field images"
15:00 - 15:15: Maya Debski, "HETDEX-LOFAR Spectroscopic Redshift Catalog"
15:15 - 15:30: 3 x 3 minute poster talks (Morteza Pashapour-Ahmadabadi, Gareth Dorrian, Eduard Kontar)
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Coffee / tea / poster - 15:30 - 16:00

Session 6 - 16:00 - 17:30 (90 min)

Surveys and methods (2) - Chair: Virginia Cucciti

- 16:00 - 16:30: (Invited) Francesco de Gasperin "Ultra-low frequencies with LOFAR: status and plans"
16:30 - 16:45: Anniek Gloudemans, "The awakening of the WEAVE-LOFAR survey"
16:45 - 17:00: Timothy Shimwell, "The LOFAR Two-metre Sky Survey"
17:00 - 17:15: Henrik Edler, "The LOFAR LBA Virgo Cluster Survey"
17:15 - 17:30: Frits Sweijen, "A cautionary tale about pipelines"

Wednesday, 5 June

Session 7 - 9:00 - 10:30 (90 min)

Galaxy clusters (1) - Chair: Reinout van Weeren

- 9:00 - 9:15: Martin Hardcastle, "Optical identifications in LoTSS DR2: from Citizens to Science"
9:15 - 9:45: (Invited) Andrea Botteon, "Galaxy clusters at LOFAR's turning point: lessons learned and open questions"
9:45 - 10:00: Marco Balboni, "LOFAR-CHEXMATE study of radio halo clusters"
10:00 - 10:15: Christian Groeneveld "Decameter observations of Galaxy Clusters"
10:15 - 10:30: 4 x 3 minute poster talks (Katarzyna Malek, Subhrata Dey, Leszek Błazkiewicz, Antoaneta Antonova)
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Coffee / tea / poster - 10:30 - 11:00

Session 8 - 11:00 - 12:15 (75 min)

Galaxy clusters (2) - Chair: Andrea Botteon

- 11:00 - 11:15: Alessandro Ignesti "Tracing large-scale gas outflows from spiral galaxies in clusters with LOFAR"
11:15 - 11:30: Nadia Biava, "The high resolution view of radio phoenixes"
11:30 - 11:45: Marcus Brüggen, "The age of filaments"
11:45 - 12:15: (Invited) Iris de Ruiter, "A periodic radio transient found with LOFAR"
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Lunch 12:15 - 13:30 (75 min)

Session 9 - 13:30 - 15:00 (90 min)

Planets (1), Transients and Pulsars (1) - Chair: Jason Hessels

- 13:30 - 13:45: Sanne Bloot, "Catching the wisps: constraining mass-loss rates of cool stars at low frequencies"
13:45 - 14:00: Cristina-Maria Cordun, "Hide and seek: Using LOFAR to hunt for hot Jupiters at decameter wavelengths"
14:00 - 14:15: Aleksandra Wołowska: The collaboration between the University of Warmia and Mazury and the Poznan Supercomputing and Networking Center: A significant milestone in our endeavor to conduct high-resolution mapping of compact galaxies utilizing the LOFAR-VLBI pipeline."
14:15 - 14:45: (Invited) Ziggy Pleunis, "Fast transients < 300 MHz"
14:45 - 15:00: 3 x 3 minute poster talks (Thomas Pasini, Davide Matteo Brustio, Maicol Della Chiesa)
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Coffee / tea / poster - 15:00 - 15:30

Session 10 - 15:30 - 16:45 (75 min)

Planets (2), Transients and Pulsars (2) - Chair: Antonia Rowlinson

- 15:30 - 16:00: (Invited) Joe Callingham, invited talk on planets
16:00 - 16:15: Caterina Tiburzi, "Pulsar Timing Arrays -- The impact of LOFAR and NenuFAR"
16:15 - 16:30: Maria Arias, "The Crab Nebula"
16:30 - 16:45: Jason Hessels, "EuroFlash: a commensal fast transient search machine for LOFAR2.0"

17:30: Boat tour, starts at the Morspoort, followed by conference dinner in Brasserie de Poort

Thursday, 6 June

Session 11 - 9:00 - 10:30 (90 minutes)

Sun and space weather (1) - Chair: Pietro Zucca

- 9:00 - 9:30: [\(Invited\) Bartosz Dąbrowski, "Solar research with LOFAR telescope"](#)
9:30 - 9:45: Daniel Clarkson, "Observations and simulations of the shortest solar radio bursts with LOFAR"
9:45 - 10:00: Christian Vocks, "Evolution of fundamental and harmonic sources in LOFAR type III radio burst images"
10:00 - 10:15: Biagio Forte, "Ionospheric irregularities assessed through LOFAR and GNSS observations"
10:15 - 10:30: Dorota Przepiórka-Skup, "Observing the Sky with a Single LOFAR Station: Impact of Ionosphere on Position Measurements and Observation of related ionospheric structures"
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Coffee / tea / poster - 10:30 - 11:00

Session 12 - 11:00 - 12:30 (90 minutes)

Sun and space weather (2), Cosmology (1) - Chair: Andrzej Krankowski

- 11:00 - 11:15: Gareth Dorrian, "LOFAR observations of highly defined symmetric quasi-periodic ionospheric scintillations"
11:15 - 11:30: Yuriy Rapoport, "Modeling and experimental investigations for Modern Radio-Diagnostics of the Ionosphere using LOFAR and GNSS Data"
11:30 - 11:45: Pietro Zucca, "Radio eyes for the Sun, Heliosphere and Ionosphere: Status and plans for the LOFAR 2.0 era."
11:45 - 12:15: [\(Invited\) Catherine Hale "Cosmological studies with LOFAR surveys"](#)
12:15 - 12:30: Lukas Böhme, "The Cosmic Radio Dipole: Bayesian multi-survey estimation"
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Lunch (external) 12:30 - 14:00 (90 min)

Session 13 - 14:00 - 15:00 (60 min)

Cosmology (EoR) (2) - Chair: Dominik Schwarz

- 14:00 - 14:30: [\(Invited\) Kariuki Chege, "Observing the 21-cm signal from the Epoch of Reionization and the Cosmic Dawn"](#)
14:30 - 14:45: Emilio Ceccotti, "Advanced modeling of bright radio sources for LOFAR 21-cm power spectrum analysis: the Cygnus A and 3C196 cases"
14:45 - 15:00: Stefanie Brackenhoff, "Beyond Just Beam Error: Direction-Dependent Calibration Challenges Far from the Phase Center"
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Coffee / tea / poster - 15:00 - 15:30

Session 14 - 15:30 - 16:30 (60 min)

LOFAR ERIC celebration

- 15:30 - 15:50 René Vermeulen, "The LOFAR Family on a roll; the role of the ILT"
15:00 - 16:00 Jacqueline Mout, "The LOFAR ERIC"

17.00-19.00: Reception at the city hall (Stadhuisplein 1)

Friday, 7 June

Session 15 - 9:30 - 10:30 (60 minutes)

Other, Galaxy clusters (2) - Chair: Emmy Escott

- 9:30 - 9:45: Olaf Wucknitz, "Intercontinental decametric VLBI"
9:45 - 10:00: Cees Bassa, "Unintended electromagnetic radiation from satellite constellations"
10:00 - 10:30: (Invited) Gabriella Di Gennaro "A view on cluster-scale diffuse radio emission at high redshift"

Coffee / tea / poster - 10:30 - 11:00

Session 16 - 11:00 - 12:30 (90 minutes)

AGN(1) - Chair: Gabriella di Gennaro

- 11:00 - 11:30: (Invited) Emmy Escott "AGN through the eyes of the LOw Frequency ARray"
11:30 - 11:45: Zsofi Igo, "The LOFAR-eFEDS survey: The incidence of radio and X-ray AGN"
11:45 - 12:00: Gaoxiang Jin, "The Mass Assembly and Quenching of Radio AGN Host Galaxies"
12:00 - 12:15: Bohan Yue, "New constraints on the contribution of star formation and AGN activity in quasar radio emission from the LOFAR Two-metre Sky Survey"
12:15 - 12:30: Hrishikesh Shetgaonkar, "High-resolution low-frequency probes of X-ray emitting knots in blazar jets"

Lunch 12:30 - 13:30 (60 min)

Session 17 - 13:30 - 14:30 (75 minutes)

AGN (2) - Chair: Olaf Wucknitz

- 13:30 - 13:45: Emanuele de Rubeis, "Revealing the sub-arcsecond nature of radio galaxies in Abell 2255"
13:45 - 14:00: Sagar Sethi, "Multi-frequency mapping and analysis of the largest giant radio galaxies"
14:00 - 14:15: Jort Boxelaar, "LOFAR Legacy 58 MHz Survey of the 3CRR Catalogue"
14:15 - 14:30: Pratik Dabhade, "Probing the Evolution of Radio Quasar Morphologies Across Cosmic Time with LoTSS"
14:30 - 14:45: Ismail Eissa, "A statistical study of the most extreme star factories and gorging black holes"

Closing - 14:45 - 15:00 (15 minutes) Roberto Pizzo

Posters

AGN

- Arpita Misra, “Studying radio galaxies with twisted jets using multifrequency data”
- Sai Zhai, “Extend the extragalactic peaked-spectrum sources to 54 megahertz”
- Aleksandar Shulevski, “Old AGN remnant sculpted by IGM sloshing”

Lightning

- Paulina Turekova, “Near-Field Interferometry of Lightning with LOFAR”

Cosmology

- Morteza Pashapour-Ahmadabadi, “Cosmology from LOFAR Two-metre Sky Survey Data Release 2: Counts-in-Cells statistics”

Sun and Space Weather

- Gareth Dorrian, “Tracking travelling ionospheric disturbances in the mid-latitude ionosphere from Poland to the North Sea with LOFAR.”
- Eduard Kontar, “Radial variation of anisotropic density turbulence from the low corona to 1au and solar radio observations”

Surveys and Methods

- Katarzyna Malek, “Can we use LOFAR to estimate SFR of Low Surface Brightness Galaxies?”
- Subhrata Dey, “Bridging the Gap: From UV/IR to Radio in Infrared Bright galaxies via SED Modeling and Radio SFR Calibration”

Transients and Pulsars

- Leszek Błazzkiewicz, “The influence of the ionosphere visible in the dynamic spectra of pulsars observed with PL612 LOFAR station”

Other

- Antoaneta Antonova, “LOFAR-BG – the South-easternmost station of LOFAR ERIC: status update”

Galaxy clusters

- Thomas Pasini, “Galaxy groups at the lowest frequencies: a combined LOFAR-uGMRT view of A1213”
- Davide Matteo Brustio, “Thermal and non-thermal emission in merging galaxy groups NGC7618/UGC12491”
- Maicol Della Chiesa, “Unveiling the fine structure details of the radio relics in MACS J1752.0+4440”