



# LOFAR Family Meeting 2024

## Tuesday 4 June 2024

### Session: ISM / magnetism / other - Zuid 1 (09:00 - 10:30)

-Conveners: Cathy Horellou

time	[id] title	presenter
09:00	[86] First detections of Carbon Radio Recombination Lines with the NenuFAR telescope	CROS, Lucie
09:30	[70] Revealing the Local Bubble and the Complex of Local Interstellar Clouds in the LoTSS-DR2 Faraday tomographic data	JELIC, Vibor
09:45	[87] ApPoLo - Apertif counterparts of polarised LOFAR sources	BERGER, Anna
10:00	[37] The ultra-low frequency radio continuum spectra of nearby galaxies	GAJOVIĆ, Lovorka
10:15	[69] Studying radio galaxies with twisted jets using multifrequency data	MISRA, Arpita
10:20	[47] Extend the extragalactic peaked-spectrum sources to 54 megahertz	ZHAI, Sai
10:24	[67] Old AGN remnant sculpted by IGM sloshing	SHULEVSKI, Aleksandar
10:27	[20] Near-Field Interferometry of Lightning with LOFAR	TUREKOVA, Paulina

### Session: CR / lightning / other - Zuid 1 (11:00 - 12:15)

time	[id] title	presenter
11:00	[89] Detecting cosmic rays with LOFAR	BUITINK, Stijn
11:30	[55] Measuring high-energy cosmic rays at SKA-Low	CORSTANJE, Arthur
11:45	[16] The Initiation of Lightning Dart Leaders with LOFAR	HARE, Brian
12:00	[48] LOFAR cross correlation with eBOSS	ZHENG, Jinglan

### Session: Surveys and Methods (1) - Zuid 1 (14:00 - 15:30)

-Conveners: Francesco de Gasperin

time	[id] title	presenter
14:00	[90] Low-frequency VLBI with the International LOFAR Telescope	TIMMERMAN, Roland
14:30	[15] The high-resolution COSMOS: peering into the unknown with LOFAR and JWST observations	Dr VARDOULAKI, Eleni
14:45	[13] Into the Depths: Unveiling ELAIS-N1 with LOFAR's deepest sub-arcsecond wide-field images	Mr DE JONG, Jurjen
15:00	[14] HETDEX-LOFAR Spectroscopic Redshift Catalog	DEBSKI, Maya
15:15	[72] Cosmology from LOFAR Two-metre Sky Survey Data Release 2: Counts-in-Cells statistics	PASHAPOUR-AHMADABADI, Morteza
15:19	[60] Tracking travelling ionospheric disturbances in the mid-latitude ionosphere from Poland to the North Sea with LOFAR.	DORRIAN, Gareth
15:22	[101] Radial variation of anisotropic density turbulence from the low corona to 1au and solar radio observations	KONTAR, Eduard

**Session: Surveys and Methods (2) - Zuid 1 (16:00 - 17:45)****-Conveners: Virginia Cucciti**

time	[id] title	presenter
16:00	[19] Ultra-low frequencies with LOFAR: status and plans	DE GASPERIN, Francesco
16:30	[10] The awakening of the WEAVE-LOFAR survey	GLOUDEMANS, Anniek
16:45	[21] The LOFAR Two-metre Sky Survey	SHIMWELL, Timothy
17:00	[50] The LOFAR LBA Virgo Cluster Survey	EDLER, Henrik
17:15	[35] A cautionary tale about pipelines	SWEIJEN, Frits

# Wednesday 5 June 2024

## Session: Galaxy Clusters (1) - Zuid 1 (09:00 - 10:30)

-Conveners: Reinout van Weeren

time	[id] title	presenter
09:00	[25] Optical identifications in LoTSS DR2: from Citizens to Science	Prof. HARDCASTLE, Martin
09:15	[92] Galaxy clusters at LOFAR's turning point: lessons learned and open questions	BOTTEON, Andrea
09:45	[28] LOFAR-CHEXMATE study of radio halo clusters	BALBONI, Marco
10:00	[22] Decameter observations of Galaxy Clusters	GROENEVELD, Christian
10:15	[59] Can we use LOFAR to estimate SFR of Low Surface Brightness Galaxies?	Prof. MALEK, KATARZYNA
10:19	[58] Bridging the Gap: From UV/IR to Radio in Infrared Bright galaxies via SED Modeling and Radio SFR Calibration	DEY, Subhrata
10:23	[7] The influence of the ionosphere visible in the dynamic spectra of pulsars observed with PL612 LOFAR station	BŁASZKIEWICZ, Leszek
10:27	[17] LOFAR-BG – the South-easternmost station of LOFAR ERIC: status update	ANTONOVA, Antoaneta

## Session: Galaxy Clusters (2), Planets (1) - Zuid 1 (11:00 - 12:15)

-Conveners: Andrea Botteon

time	[id] title	presenter
11:00	[1] Tracing large-scale gas outflows from spiral galaxies in clusters with LOFAR	IGNESTI, Alessandro
11:15	[18] The high resolution view of radio phoenixes	BIAVA, Nadia
11:30	[2] The age of filaments	BRÜGGEN, Marcus
11:45	[32] A periodic radio transient found with LOFAR	DE RUITER, Iris

## Session: Planets (2), Transients and Pulsars (1) - Zuid 1 (13:30 - 15:00)

-Conveners: Jason Hessels

time	[id] title	presenter
13:30	[41] Catching the wisps: constraining mass-loss rates of cool stars at low frequencies	BLOOT, Sanne
13:45	[4] Hide and seek: Using LOFAR to hunt for hot Jupiters at decameter wavelengths	CORDUN, Cristina-Maria
14:00	[29] 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.	WOŁOWSKA, Aleksandra OLECH, Mateusz
14:15	[94] Fast transients < 300 MHz	
14:45	[8] Galaxy groups at the lowest frequencies: a combined LOFAR-uGMRT view of A1213	PASINI, Thomas
14:49	[54] Title: Thermal and non-thermal emission in merging galaxy groups NGC7618/UGC12491	BRUSTIO, Davide Matteo

14:53	[52] Unveiling the fine structure details of the radio relics in MACS J1752.0+4440	DELLA CHIESA, Maicol
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**Session: Transients and Pulsars (2) - Zuid 1 (15:30 - 16:45)**

**-Conveners: Antonia Rowlinson**

time	[id] title	presenter
15:30	[102] Invited talk - planets	CALLINGHAM, Joe
16:00	[46] Pulsar Timing Arrays -- The impact of LOFAR and NenuFAR	TIBURZI, Caterina
16:15	[3] The Crab Nebula	ARIAS, Maria
16:30	[63] EuroFlash: a commensal fast transient search machine for LOFAR2.0	HESSELS, Jason

# Thursday 6 June 2024

## Session: Sun and Space Weather (1) - Zuid 1 (09:00 - 10:30)

-Conveners: Pietro Zucca

time	[id] title	presenter
09:00	[96] Solar research with LOFAR telescope	DĄBROWSKI, Bartosz
09:30	[12] Observations and simulations of the shortest solar radio bursts with LOFAR	CLARKSON, Daniel
09:45	[44] Evolution of fundamental and harmonic sources in LOFAR type III radio burst images	VOCKS, Christian
10:00	[34] Ionospheric irregularities assessed through LOFAR and GNSS observations	Prof. KRANKOWSKI, Andrzej
10:15	[36] Observing the Sky with a Single LOFAR Station: Impact of Ionosphere on Position Measurements and Observation of related ionospheric structures	Dr PRZEPIÓRKA-SKUP, Dorota

## Session: Sun and Space Weather (2), Cosmology (1) - Zuid 1 (11:00 - 12:30)

-Conveners: Andrzej Krankowski

time	[id] title	presenter
11:00	[56] LOFAR observations of highly defined symmetric quasi-periodic ionospheric scintillations	TRIGG, Hannah
11:15	[33] Modeling and experimental investigations for Modern Radio-Diagnostics of the Ionosphere using LOFAR and GNSS Data	RAPOPORT, Yuriy
11:30	[30] Radio eyes for the Sun, Heliosphere and Ionosphere: Status and plans for the LOFAR2.0 era.	ZUCCA, Pietro
11:45	[97] Cosmological studies with LOFAR surveys	HALE, Catherine
12:15	[31] The Cosmic Radio Dipole: Bayesian multi-survey estimation	BÖHME, Lukas

## Session: Cosmology, EoR (2) - Zuid 1 (14:00 - 15:00)

-Conveners: Dominik Schwarz

time	[id] title	presenter
14:00	[98] Observing the 21-cm signal from the Epoch of Reionization and the Cosmic Dawn	CHEGE, Kariuki
14:30	[51] Advanced modeling of bright radio sources for LOFAR 21-cm power spectrum analysis: the Cygnus A and 3C196 cases	CECCOTTI, Emilio
14:45	[23] Beyond Just Beam Error: Direction-Dependent Calibration Challenges Far from the Phase Center	BRACKENHOFF, Stefanie

## Session: LOFAR ERIC Celebration - Zuid 1 (15:30 - 16:30)

time	[id] title	presenter
15:30	[104] The LOFAR Family on a roll; the role of the ILT	VERMEULEN, René
15:50	[105] The LOFAR ERIC	MOUT, Jacqueline

# Friday 7 June 2024

## Session: Galaxy Clusters (2), Other - Zuid 1 (09:30 - 10:30)

-Conveners: Emmy Escott

time	[id] title	presenter
09:30	[11] Intercontinental decametric VLBI	WUCKNITZ, Olaf
09:45	[43] Unintended electromagnetic radiation from satellite constellations	BASSA, Cees
10:00	[99] A view on cluster-scale diffuse radio emission at high redshift	DI GENNARO, Gabriella

## Session: AGN (1) - Zuid 1 (11:00 - 12:30)

-Conveners: Gabriella Di Gennaro

time	[id] title	presenter
11:00	[100] AGN through the eyes of the LOw Frequency ARray	ESCOTT, Emmy
11:30	[5] The LOFAR-eFEDS survey: The incidence of radio and X-ray AGN	IGO, Zsofi
11:45	[9] The Mass Assembly and Quenching of Radio AGN Host Galaxies	JIN, Gaoxiang
12:00	[65] New constraints on the contribution of star formation and AGN activity in quasar radio emission from the LOFAR Two-metre Sky Survey	YUE, Bohan
12:15	[68] High-resolution low-frequency probes of X-ray emitting knots in blazar jets	SHETGAONKAR, Hrishikesh

## Session: AGN (2) - Zuid 1 (13:30 - 14:45)

-Conveners: Olaf Wucknitz

time	[id] title	presenter
13:30	[57] Revealing the sub-arcsecond nature of radio galaxies in Abell 2255	DE RUBEIS, Emanuele
13:45	[74] Multi-frequency mapping and analysis of the largest giant radio galaxies	SETHI, Sagar
14:00	[49] LOFAR Legacy 58 MHz Survey of the 3CRR Catalogue	BOXELAAR, Jort
14:15	[71] Probing the Evolution of Radio Quasar Morphologies Across Cosmic Time with LoTSS	DABHADE, Pratik
14:30	[40] A statistical study of the most extreme star factories and gorging black holes	EISSA, Ismail

## Session: Closing - Zuid 1 (14:45 - 15:00)

-Conveners: Roberto Pizzo

time	[id] title	presenter
14:45	[103] Closing	PIZZO, Roberto