

**“FRONTEND RESEARCH AT LOW RADIO FREQUENCY RADIO ASTRONOMY:
SCIENCE AND TECHNICAL CHALLENGES”**

3-7 April 2023 WEB SCHOOL

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PROGRAM

Monday, 3 April **Chairman: A. Mignone**

- 14.00-14.10 Mignone: Welcome
14.10-14.50 van Weeren: *LOFAR Surveys: a New Window of Observations on the Universe (I)*
14.50-15.30 de Gasperin: *LOFAR LBA: Sky Survey ad Practical Use (I)*
15.30-16.10 Bonafede: *Polarization at Low-Radio Frequencies and Cosmic Magnetism (I)*

Tuesday, 4 April **Chairman: G. Brunetti**

- 9.30-10.10 Vermeulen: *Low-Frequency Radio Astronomy and the LOFAR Telescope*
10.10-10.50 Morabito: *Very Long Baseline Interferometry with LOFAR (I)*
*** BREAK
11.10-11.50 Morabito: *Very Long Baseline Interferometry with LOFAR (II)*
11.50-12.30 Callingham: *Radio studies of exoplanets*

Chairman: S. Guglielmino

- 14.00-14.40 Mevius: *Ionosphere Calibration (I)*
14.40-15.20 Mevius: *Ionosphere Calibration (II)*
*** BREAK
15.40-16.20 Zucca: *Solar Radio Astronomy and Space Weather (I)*
16.20-17.00 Zucca: *Solar Radio Astronomy and Space Weather (II)*

Wednesday, 5 April **Chairman: A. Mignone**

- 9.30-10.10 van Weeren: *LOFAR Surveys: a New Window of Observations on the Universe (II)*
10.10-10.50 de Gasperin: *LOFAR LBA: Sky Survey ad Practical Use (II)*
*** BREAK
11.10-11.50 Morganti: *Radio Galaxies at low radio frequencies (I)*
11.50-12.30 Morganti: *Radio Galaxies at low radio frequencies (II)*

Chairman: A. Botteon

- 14.00-14.40 Brunetti: *Non-thermal phenomena in Galaxy Cluster and Large-Scale-Structure*
14.40-15.20 Bonafede: *Polarization at Low-Radio Frequencies and Cosmic Magnetism (II)*
*** BREAK
15.40-16.20 Rowlinson: *Transients at low radio frequencies (I)*
16.20-17.00 Rowlinson: *Transients at low radio frequencies (II)*

Thursday, 6 April

Chairman: G. Brunetti

- 9.30-10.10 Tiburzi: *Pulsars at Low Radio Frequencies (I)*
10.10-10.50 Tiburzi: *Pulsars at Low Radio Frequencies (II)*
*** BREAK
11.15-12.05 Taffoni: *Computational Challenges in Low Frequency Radio Astronomy*

Chairman: R. Vermeulen

- 14.00-14.40 Heesen: *Cosmic Rays and Magnetic Fields in nearby Galaxies (I)*
14.40-15.20 Heesen: *Cosmic Rays and Magnetic Fields in nearby Galaxies (II)*
***BREAK

ABSTRACT PRESENTATION

- 15.40-16.00 Balis: *Reconstructing meteoroid trajectories using forward scatter radio observations from the BRAMS network*
16.00-16.20 Shreyman: *Bluebird: A Next-Generation Imager applied to MWA Solar Observations*
16.20-16.40 Bruno: *Low frequency observations of the multi-component radio halo in Abell 2142*
16.40-17.00 Pignataro: *Probing diffuse radio emission in bridges between galaxy clusters with uGMRT*

Friday, 7 April

Chairman: A. Mignone

- 9.30-10.10 Camera: *The Impact of Low Frequency Observations in Cosmology (I)*
10.10-10.50 Camera: *The Impact of Low Frequency Observations in Cosmology (II)*
***BREAK
11.10-12.30 STUDENT TALKS
12.30-12.40 Farewell