

# LOFAR Community Science Workshop Schedule

v5, 7 April 2014

## Tuesday, 8 April 2014

### Workshop Begins

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08:30 - 09:00		<i>Registration</i>
09:00 - 09:05	R. Vermeulen	<i>Welcome address</i>
09:05 - 09:10	M. Wise	<i>Workshop overview</i>

### Session I: Surveys and Techniques (Chair - H. Röttgering)

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09:10 - 09:30	G. Heald	<i>MSSS: Overview and Update</i>
09:30 - 09:50	F. de Gasperin	<i>Correcting the Ionospheric effect</i>
09:50 - 10:10	A. Deller	<i>Identifying calibrators for International LOFAR observations</i>
10:10 - 10:30	L. Morabito	<i>Discovery of Carbon Radio Recombination Lines in M82</i>
10:30 - 10:50	<b>Coffee break</b>	

### Session I: Surveys and Techniques (cont.)

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10:50 - 11:10	A. Bonafede	<i>LOFAR High Band observations of the Coma cluster</i>
11:10 - 11:30	R. Morganti	<i>Radio archaeology with LOFAR: relics and AGN deep time</i>
11:30 - 11:50	V. Heesen	<i>Radio galaxy physics with LOFAR</i>
11:50 - 12:10	E. Mahony	<i>The Lockman Hole Project: a Multi-frequency Study of the Faint Radio Population down to 60 MHz</i>
12:10 - 12:30	R. Coppejans	<i>Searching for the first generation of black holes in Boötes</i>
12:30 - 13:30	<b>Lunch break</b>	

### Session II: Transients (Chair - R. Fender)

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13:30 - 13:50	J. Broderick	<i>LOFAR high-band observations of the microquasars SS 433 and GRS 1915+105</i>
13:50 - 14:10	A. Stewart	<i>A Short Duration Transient Candidate At The North Celestial Pole</i>
14:10 - 14:30	A. Rowlinson	<i>Training the TraP: Finding optimal transient search thresholds using observations and simulations</i>
14:30 - 14:50	S. ter Veen	<i>FRATs: Commensal Real-Time Searches for Fast Radio Transients</i>
14:50 - 15:10	A. Siemion	<i>Searching for Extraterrestrial Intelligence with LOFAR</i>
15:10 - 15:30	<b>Coffee break</b>	

### Session III: Pulsars (Chair - J. Hessels)

15:30 - 15:50	S. Cooper	<i>The LOFAR Tied-Array All Sky Survey</i>
15:50 - 16:10	A. Archibald	<i>Scintillation and scattering both: studying the interstellar medium with LOFAR</i>
16:10 - 16:30	A. Bilous	<i>PSR B0943+10 at the very low radio frequencies</i>
16:30 - 16:50	V. Kondratiev	<i>Millisecond pulsars at low frequencies with LOFAR</i>
16:50 - 17:10	C. Sobey	<i>A plethora of emission characteristics from PSR B0823+26</i>
17:10 - 17:30	M. Pilia	<i>Pulsar Profile Evolution at Low Frequency with LOFAR</i>
17:30	<b>Day 1 of Workshop Concludes</b>	
19:30 - 22:00	<b>Workshop Dinner at Restaurant <i>Pakhuis de Zwijger</i></b>	

## Wednesday, 9 April 2014

### Workshop Begins

08:30 - 09:00	<i>Registration</i>	
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### Session IV: Extending LOFAR (Chair - M. Wise)

09:00 - 09:10	P. Zarka	<i>The project NenuFAR</i>
09:10 - 09:20	R. Vermeulen	<i>The POLFAR collaboration</i>
09:20 - 09:30	D. Morosan	<i>Status update on the I-LOFAR initiative</i>

### Session V: Solar and Space Weather (Chair - M. Wise)

09:30 - 09:50	G. Mann	<i>Tracking an electron beam through the corona with LOFAR</i>
09:50 - 10:10	D. Morosan	<i>Imaging Low Frequency Type III Solar Radio Bursts with LOFAR</i>
10:10 - 10:30	R. Fallows	<i>Probing the Ionosphere with Broadband Low-Frequency Observations of Ionospheric Scintillation</i>
10:30 - 10:50	D. McKay-Bukowski	<i>KAIRA Riometry: using LOFAR technology to study the aurorae</i>
10:50 - 11:10	<b>Coffee break + KAIRA Video Presentation</b>	

### Session VI: Cosmic Rays (Chair - H. Falcke)

11:10 - 11:30	A. Nelles	<i>Measuring air showers of cosmic rays at LOFAR</i>
11:30 - 11:50	A. Corstanje	<i>The shape of the radio wavefront of cosmic ray air showers as measured with LOFAR</i>

## Session VI: Cosmic Rays (Chair - H. Falcke)

11:50 - 12:10	S. Buitink	<i>Cosmic-ray mass composition from radio measurements</i>
12:10 - 12:30	G. Trinh	<i>Effects of atmospheric electric fields on radio emission from air showers</i>
12:30 - 13:30	<b>Lunch break</b>	

## Session VII: Magnetism (Chair - G. Heald)

13:30 - 13:50	R. Beck	<i>Observing nearby galaxies at low frequencies - first results from the LOFAR MKSP</i>
13:50 - 14:10	D. Mulcahy	<i>Results from observations of M51 and NGC891</i>
14:10 - 14:30	E. Varenus	<i>Subarcsecond imaging of M82 with LOFAR</i>
14:30 - 14:50	M. Iacobelli	<i>Studying Galactic interstellar turbulence through fluctuations in synchrotron emission with LOFAR</i>
14:50 - 15:10	A. Noutsos	<i>Low-Frequency Pulsar Polarisation with LOFAR</i>
15:10 - 15:30	<b>Coffee break</b>	

## Session IX: Epoch of Reionization (Chair - G. de Bruyn)

15:30 - 15:50	S. Zaroubi	<i>Upper limit on the Epoch of Reionization from LOFAR</i>
15:50 - 16:10	V. N. Pandey	<i>High Dynamic Range Imaging of the EoR-3C196 Field with LOFAR</i>
16:10 - 16:30	S. Yatawatta	<i>LOFAR Ultra Deep Imaging</i>
16:30 - 16:50	V. Jelic	<i>Galactic polarized emission detected in the LOFAR-EoR observing windows</i>
16:50 - 17:10	H. Vedentham	<i>The LOfar COsmic-dawn Search (LOCOS): Chasing the lunar shadow</i>
17:10 - 17:30	M. Mevius	<i>Extracting Ionospheric Statistics from EoR Data</i>

## Workshop Conclusion

17:30 - 18:00	H. Falcke	<i>Workshop Summary</i>
18:00 - 18:10	M. Wise	<i>Workshop Conclusion</i>
18:10	<b>Day 2 of Workshop Concludes</b>	

## Poster Presentations

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S. Daiboo

*Tomography of the ionosphere at LOFAR*

I. Iliev

*Observability of the Epoch of Reionization: What do large-scale simulations tell us?*