

"Astrophysics in the LOFAR Era"

Scientific Workshop
Emmen, April 23-27, 2007

Program

Monday

<i>M. Garrett</i>	Welcome	5		14:00
<i>M. van Haarlem</i>		5		14:05
	Session: LOFAR			
<i>C. Vogt</i>	Long and short baseline LOFAR	30	+ 5	14:10
<i>A. Gunst</i>	LOFAR station processing	30	+ 5	14:45
<i>G. de Bruyn</i>	CS-1 commissioning and LOFAR Calibration	15	+ 5	15:20
<i>V. Nath Pandey</i>	CS1 - Data and Image Analysis	15	+ 5	15:40
	Coffee Break	30		16:00
<i>J. Bregman</i>	Data Processing in the LOFAR Era	15	+ 5	16:30
<i>G. de Bruyn</i>	EOR Key Science Project Plans	15	+ 5	16:50
<i>H. Rottgering</i>	Survey Key Science Project Plans	15	+ 5	17:10
<i>R. Wijers</i>	Transients Key Science Project Plans	15	+ 5	17:30
<i>H. Falcke</i>	Cosmic Ray Key Science Project Plans	15	+ 5	17:50
<i>J. Otieno Malo</i>	Kenya International Radio Observatory	15	+ 5	18:10
	End of Day			18:30
	Dinner			19:00
	Reception - Bar			20:30

Tuesday

Session: Pulsars

<i>A. Lyne</i>	Finding observing and understanding RRATs	20	+ 5	09:00
<i>N. Rea</i>	RRATs populate the radio sky	15	+ 5	09:25
<i>J. Gil</i>	Drifting subpulse phenomenon in pulsars	20	+ 5	09:45
<i>O. Ulyanov</i>	Subpulse structure of Pulsars radio emission in the Decameter Range	15	+ 5	10:10

Session: Magnetic Fields, AGN

<i>T. Jones</i>	Astrophysical Particle Acceleration	25	+ 5	10:30
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Coffee Break

<i>K. Ferriere</i>	Galactic Magnetic Fields	20	+ 5	11:30
<i>L. Feretti</i>	Extragalactic Magnetic Fields	20	+ 5	11:55
<i>R. Beck</i>	Observation of weak magnetic fields around galaxies with LOFAR	20	+ 5	12:20
<i>J. Anderson</i>	Low Energy Electrons in AGNs	15	+ 5	12:45

Lunch Break

Session: Clusters

<i>M. Arnaud</i>	Clusters and the X-ray connection	20	+ 5	14:05
<i>M. Murgia</i>	Dying radio galaxies with LOFAR.	15	+ 5	14:30
<i>R. Dunn</i>	Radio Bubbles in Clusters: Relativistic Particle Content	15	+ 5	14:50
<i>M. Wise</i>	Tracing AGN Heating in Clusters with Low Frequency Radio Observations	15	+ 5	15:10
<i>R. Cassano</i>	Statistics of Radio Halos and Future Low Frequency Observations	15	+ 5	15:30

Coffee Break

<i>T. Venturi</i>	Perspectives in the low frequency study of diffuse cluster radio sources	15	+ 5	16:20
<i>R. Pizzo</i>	The diffuse extended emission and the first polarimetric results at low frequency for Abell 2255	15	+ 5	16:40
<i>F. Govoni</i>	Polarization of cluster radio sources with LOFAR	15	+ 5	17:00
<i>G. Brunetti</i>	Constraining cosmic rays in Galaxy Clusters	15	+ 5	17:20
<i>J. Croston</i>	Constraining the energy budget of radio galaxies with LOFAR	15	+ 5	17:40

End of Day

18:00

Dinner

19:00

Football Match

20:30

Wednesday

Session: Stellar Sources & Transients

<i>T. Montmerle</i>	Magnetic fields in young stars and accretion disks: the X-ray perspective (Invited)	25	+ 5	09:00
<i>J. Eislöffel</i>	Investigating the launching mechanism of young stellar jets with LOFAR	15	+ 5	09:30
<i>S. Corbel</i>	Jets in XRBs	25	+ 5	09:50
<i>C. Kaiser</i>	Radio lobes of microquasars	15	+ 5	10:20
	Coffee Break	30		10:40
<i>S. Markoff</i>	LOFAR constraints on weakly accreting black hole jets	15	+ 5	11:10
<i>J. Miller-Jones</i>	Low-frequency radio observations of Galactic X-ray binary systems	15	+ 5	11:30
<i>C. Brocksopp</i>	A Highly Polarised Jet in XTE J1748-288	15	+ 5	11:50
<i>S. Roy</i>	New Results on Radio emission from the Transient Bursting Source GCRT 1745-3009	15	+ 5	12:10
<i>J. Grießmeier</i>	The search for radio emission from extrasolar planets with LOFAR	25	+ 5	12:30
	Lunch Break	60		13:00
<i>C. Maccone</i>	Innovative SETI by the KLT	20	+ 5	14:00
	Excursion to LOFAR site	145		14:25
	E-LOFAR Discussion			
<i>R. Beck</i>	German LOFAR	10		16:50
<i>R. Fender</i>	UK LOFAR	10		17:00
<i>M. Tagger</i>	French LOFAR	10		17:10
<i>G. Brunetti</i>	Italian LOFAR	10		17:20
<i>K. Otmianowska-Mazur</i>	Polish contribution to LOFAR	10		17:30
<i>J. Conway</i>	Swedish LOFAR	10		17:40
<i>H. Falcke</i>	Discussion	60		17:50
	End of Day			18:50
	Banquet			20:00

Thursday

Session: EOR

<i>A. Ferrara</i>	The Epoch of Reionization	20	+ 5	09:00
<i>S. Zaroubi</i>	The Epoch of Reionization with LOFAR	20	+ 5	09:25
<i>R. Thomas</i>	Reionization Simulation for LOFAR	15	+ 5	09:50
<i>G. Mellema</i>	Simulating the redshifted 21cm signal from Reionization	15	+ 5	10:10
<i>V. Jelic</i>	Foregrounds Simulation for the LOFAR EOR Experiment	15	+ 5	10:30

Coffee Break

30 10:50

<i>B. Ciardi</i>	21cm views of the high-z universe	15	+ 5	11:20
<i>X. Chen</i>	21cm signature of first stars	15	+ 5	11:40
<i>P. Labropoulos</i>	Extracting the EoR signal from LOFAR data	15	+ 5	12:00
<i>R. Crittenden</i>	Reionisation and large scale cross correlations with the CMB	15	+ 5	12:20
<i>A. Meiksin</i>	The Wouthuysen-Field mechanism revisited	15	+ 5	12:40

Lunch Break

60 13:00

Session: Surveys

<i>T. Garn</i>	610 MHz radio surveys using the GMRT	15	+ 5	14:00
<i>V. Shepelyev</i>	Extragalactic Radio Sources at Low Frequencies	15	+ 5	14:20
<i>M. Sydorчук</i>	Decametric continuum investigations at UTR-2	15	+ 5	14:40
<i>I. Prandoni</i>	Modelling the sub-mJy radio sky implications for LOFAR and SKA	15	+ 5	15:00
<i>O. Wucknitz</i>	Finding gravitational lenses with LOFAR	15	+ 5	15:20
<i>M. Garrett</i>	E-LOFAR & Cluster Lensing - a peek at the high-z radio Universe	15	+ 5	15:40

Coffee Break

30 16:00

<i>N. Jackson</i>	After CLASS: LOFAR and future lens surveys	15	+ 5	16:30
<i>W. Reich</i>	Galactic research with LOFAR	20	+ 5	16:50
<i>P. Papaderos</i>	New insights into dwarf galaxy evolution with LOFAR	15	+ 5	17:15
<i>S. Stepkin</i>	Extremely low frequency radio spectroscopy of the interstellar medium as important instrument of studies of the tenuous and partially ionized objects.	15	+ 5	17:35
<i>D. Mukha</i>	Observations of carbon radio recombination lines near Galactic plane at decameter wavelengths	15	+ 5	17:55

End of Day

18:15

Dinner

19:00

Barbeque & Bowling

20:30

Friday

Session: Solar System

<i>G. Mann</i>	Monitoring the Solar Activity by LOFAR	20	+ 5	09:00
<i>L. Klein</i>	Solar radio physics with LOFAR - constraints and	15	+ 5	09:25
<i>V. Mel'nik</i>	Sporadic radio emission of the Sun at frequencies 10-30MHz	15	+ 5	09:45
<i>J. Khan</i>	The Glasgow and UK interest in Solar Physics with LOFAR	15	+ 5	10:05
<i>I. Falkovich</i>	The investigations of the outer heliosphere with the large antenna arrays of the low-frequency URAN interferometer.	15	+ 5	10:25
<i>R. Fallows</i>	Interplanetary Scintillation Using LOFAR: Long Baseline Heliospheric Tomography	15	+ 5	10:45

Coffee Break

30 11:05

Session: Cosmic Rays

<i>O. Scholten</i>	The NuMoon Project Detection of UHE Neutrinos and Cosmic Rays off the Moon.	20	+ 5	11:35
<i>A. Horneffer</i>	Air Shower Measurements with LOFAR	20	+ 5	12:00
<i>S. Buitink</i>	Amplified radio pulses from cosmic ray air showers in thunderstorms	15	+ 5	12:25
<i>J. Petrovic</i>	Neutrino search with LOFAR and ANTARES telescopes	10	+ 5	12:45
	End of Day			13:00

Posters

- G. Giovannini* Relics Radio Sources in Clusters of Galaxies
E. Orru' Low frequency observations of radio halos
Using stream queries to measure communication performance of a parallel computing environment
- E. Zeitler*
- S. Amiri* A Low Frequency Feed for GMRT:
A. Bonafede The Coma cluster magnetic field from Faraday Rotation measures
- S. Brown* A New View of the Polarized Sky with the NVSS Survey
- T. Coenen* Automatic LOFAR Transient Classification
- N. Kalinichenko* Investigations of dynamic processes in the solar wind
- I. Iliev* Large-scale simulations of EoR and their implications for the observables
- J. Kijak* Turn-over in pulsar radio spectra: From young pulsars to millisecond ones.
- A. Konovalenko* Astrophysics at low and very low frequencies with the existing and future radio telescopes.
- C. Law* A Survey for Transient Sources with CS1
- W. Lewandowski* Turn-over in pulsar radio spectra: From young pulsars to millisecond ones.
Significant importance of the high sensitive and high resolution observations for the Jovian DAM emission investigation
- G. Lytvynenko*
- K. Mack* Low-frequency emission from restarting radio galaxies
- M. Pandey* Low frequency imaging
Z. Paragi e-VLBI developments at JIVE
- P. Zarka* Study of solar system planetary lightning with LOFAR
- P. Zarka* Fast radio imaging of Jupiter's magnetosphere with LOFAR, and first LOFAR-Nançay VLBI test measurements
- M. Vaccari* IR/Radio Correlation Deep and Wide in the Spitzer & LOFAR Era
- E. Vasiliev* The 21 cm power spectrum from the universe with decaying particles
- M. Wezgowiec* Diffuse cocoons around extended giant radio galaxies