

## Conference program

### Monday 3 September 2007

19:00 *Arrival at RelaiSoleil*  
19:30 *Welcome cocktail / Dinner*

### Tuesday 4 September 2007

8:00 – 9:00 *Breakfast*

9:00 – 9:30 Welcome address  
- T. Jacq, Director of LAB/Observatoire de Bordeaux  
- P. Charlot, LOC chair

#### Star Formation

*Chair: Valentine Wakelam*

9:30 – 9:50 L1517: from molecular clouds to prestellar cores  
*Alvaro Hacar*

9:50 – 10:10 Multiple YSOs in the low-mass star-forming region IRAS 00213+6530  
*Gemma Busquet*

10:10 – 10:30 Protostellar outflows in Perseus observed with HARP  
*Emily Curtis*

10:30 – 11:00 *Coffee Break*

11:00 – 11:20 Chemical structure of protoplanetary disks  
*Edwige Chapillon*

11:20 – 11:40 Circumstellar disks around young intermediate mass stars  
*Tomas Alonso*

11:40 – 12:00 The molecular emission of the contracting irradiated dense core ahead of HH 80N  
*Josep-Maria Masque*

12:00 – 12:20 Massive star formation: continuum and molecular observations and modeling of IRAS 18151-1208  
*Matthieu Marseille*

12:30 – 14:00 *Lunch*

14:30 – 14:50 Testing HCN/HCO<sup>+</sup> chemistry and excitation in the Galactic starburst template W49A  
*Tzu-Cheng Peng*

14:50 – 15:10 Methanol masers tracing high-mass star-formation  
*Kalle Torstensson*

## **Instruments, Signal Processing and Simulations**

*Chair: Thibault Cavalié*

- 15:10 – 15:30 ESCS - New facilities for the Medicina 32-m dish  
*Simona Righini*
- 15:30 – 15:50 The "MARS-3" Matrix Radiometric System at the RATAN-600 radio telescope: first observations  
*Roman Udovitskiy*
- 15:50 – 16:10 Conception and fabrication of integrated circuits based on GaAs Schottky nano-diodes for THz and sub-THz frequencies  
*Cécile Jung*
- 16:10 – 16:40 *Coffee Break*
- 16:40 – 17:00 Radioastronomical source restoration from a hostile radioelectric environment: implementation of real-time detectors for dynamic spectrum analysis  
*Cédric Dumez-Viou*
- 17:00 – 17:20 The Effelsberg-Bonn HI survey  
*Benjamin Winkel*
- 17:20 – 17:40 First LOFAR data, initial calibration and imaging  
*Sander de Kievit*
- 17:40 – 18:00 Extracting the Epoch of Reionization signal from the LOFAR data  
*Panagiotis Lampropoulos*
- 18:00 – 18:20 Foreground simulations for the LOFAR-EoR experiment  
*Vibor Jelic*
- 19:30 *Dinner*

## **Wednesday 5 September 2007**

- 8:00 – 9:00 *Breakfast*

## **Galaxies and Clusters**

*Chair: Jonathan Braine*

- 9:00 – 9:20 Star-forming galaxies and the infrared/radio correlation  
*Timothy Garn*
- 9:20 – 9:40 Galactic HI in the ELAIS N1 field  
*Zsófia Nagy*
- 9:40 – 10:00 The carbon radio recombination lines at decameter wavelengths  
*Dmytro Mukha*
- 10:00 – 10:20 Star formation in the outskirts of M33  
*Erwan Gardan*
- 10:20 – 10:50 *Coffee Break*
- 10:50 – 11:10 Probing evolutionary mechanisms in galaxies of nearby clusters with HI  
*Tom Scott*

- 11:10 – 11:30 Modelling and observing the Sunyaev-Zel'dovitch effect in cluster of galaxies  
*Michael Peel*
- 11:30 – 11:50 Hydrodynamical N-Body simulations of the Bullet Cluster  
*Daniel Johansson*
- 11:50 – 12:10 Shocks in simulated galaxy clusters and non-thermal emission from accelerated cosmic ray particles  
*Franco Vazza*
- 12:10 – 12:30 Between NVSS and IRAS: search for a new population of sky objects at RATAN-600  
*Tamara Semenova*
- 12:30 *Lunch*
- 13:45 – 23:00 *Conference trip and dinner:*
- 13:45 *Bus departure for Lacanau*
  - 14:15 – 15:45 *Lacanau (beach and shopping)*
  - 15:45 *Bus departure for Cap-Ferret*
  - 17:30 – 19:15 *Boat tour on the “Bassin d’Arcachon”*
  - 19:30 *Dinner at restaurant “L’escale”*

## **Thursday 6 September 2007**

8:00 – 9:00 *Breakfast*

### **Active Galactic Nuclei I**

*Chair: Patrick Charlot*

- 9:00 – 9:20 Molecular gas and dust in nearby radiogalaxies  
*Breezy Ocaña Flaquer*
- 9:20 – 9:40 Inverse-Compton emission in the lobes of 3C353  
*Joanna Goodger*
- 9:40 – 10:00 Molecular tori in AGN  
*Violette Impellizzeri*
- 10:00 – 10:20 Vortex ring ejection as a model of AGN jet components formation  
*Elena Bannikova*
- 10:20 – 10:50 *Coffee Break*

### **Planetary Science**

*Chair: Franck Selsis*

- 10:50 – 11:10 Observations of Jupiter with SWAS and Odin: a cometary origin of the water vapor in the stratosphere of Jupiter ?  
*Thibault Cavalie*
- 11:10 – 11:30 First disk-resolved millimetric observations of Io's surface and SO<sub>2</sub> atmosphere  
*Arielle Moullet*
- 11:30 – 11:50 Radio wave propagation effects in the atmosphere of Titan: applications to Cassini/Huyguens radio-science investigations  
*Anne Angsmann*

## **Stellar Physics**

*Chair: Matthieu Marseille*

- 11:50 – 12:10 Stereoscopic study of the type III solar radio bursts  
*Xavier Bonnin*
- 12:10 – 12:30 HI in circumstellar envelopes around AGB stars: observations and modeling  
*Yannick Libert*
- 12:30 – 14:00 *Lunch*
- 14:30 – 14:50 OH maser emission in protoplanetary nebula OH17.7-2.0  
*Pawel Wolak*
- 14:50 – 15:10 Planetary nebulae survey at 30 GHz, search for anomalous dust emission  
*Bogna Pazderska*

## **Pulsars**

*Chair: Franck Selsis*

- 15:10 – 15:30 The Nancay radiotelescope and timing of milliseconds pulsars  
*Grégory Desvignes*
- 15:30 – 15:50 Analysis of time structure of giant radio pulses from the Crab pulsar  
*Olga Moshkina*
- 15:50 – 16:10 A new software for dynamic power spectrum search  
*Matteo Bachetti*
- 16:10 – 16:40 *Coffee Break*
- 16:40 - 17:00 Search for a radio pulsar in the accreting X-ray millisecond pulsar XTE J0929-314  
*Maria Noemi Iacolina*
- 17:00 – 17:20 Detection of radio emission from AXP 4U 0142+61  
*Daria Teplykh*
- 17:20 – 17:40 Radio astronomers helping gamma astronomers  
*Lucas Guillemot*
- 17:40 – 18:00 From radio pulsars to gamma ray pulsars  
*Damien Parent*
- 18:00 – 18:20 Precise pulsar timing by SKA as a technique for study of mass distribution in the Galaxy  
*Maxim Pshirkov*
- 19:30 *Dinner*

## Friday 7 September 2007

8:00 – 9:00            *Breakfast*

### Active Galactic Nuclei II

*Chair: Patrick Charlot*

- 9:00 – 9:20            A global 86 GHz VLBI survey of compact radio sources  
*Sang-Sung Lee*
- 9:20 – 9:40            New evidence for helical magnetic fields and surprising evolution of  
Faraday rotation gradients in the jets of active galactic nuclei  
*Mehreen Mahmud*
- 9:40 – 10:00          Analysis of the multi-wavelength polarization VLBI observations of  
BL Lac objects  
*Vladislavs Bezrukovs*
- 10:00 – 10:20        Investigation of correlations between the optical and radio polarization  
of AGN  
*Juan Carlos Algaba Marcos*
- 10:20 – 10:50        *Coffee Break*
- 10:50 – 11:10        A connection between helical magnetic fields and the circular  
polarisation of AGN  
*Vasiliy Vitrishchak*
- 11:10 – 11:30        Interstellar scintillation of active galactic nuclei  
*Giuseppe Cimo*
- 11:30                  Conference closing
- 11:45                  *Lunch*
- 12:45                  *Bus departure*