

**NOVA-ESO-MPIA workshop on**

# VLTI/MIDI

## Data reduction, Analysis and Science

Leiden Observatory/Lorentz Centre, The Netherlands  
October 11–15, 2004

The VLT-interferometer Mid-Infrared Instrument (MIDI) is unique in its kind and the only interferometric instrument available through an open call for proposals. The objective of the workshop is to provide the knowledge and tools to astronomers to:

1. Identify where MIDI can lead to new insights in astronomy
2. How to reduce MIDI data
3. How to interpret MIDI data

The program has sessions on:

- A: Basics of optical interferometry
- B: The VLTI/MIDI instrument
- C: Science with MIDI
- D: MIDI data reduction and analysis tools, and ESO observing preparation tools
- E: Teams will be formed and be working on MIDI data of Active Galactic Nuclei, Evolved stars, Young stars, Hot stars

The format of the workshop will be lectures combined with teamwork. Teams will reduce and analyze MIDI data during the workshop.

**SOC members:** Walter Jaffe, Andreas Quirrenbach, Eric Bakker (contact person), Christoph Leinert, Uwe Graser, Francesco Paresce. Full details and registration information can be found at: [http://www.strw.leidenuniv.nl/~nevec/workshop\\_2004](http://www.strw.leidenuniv.nl/~nevec/workshop_2004) or by email: [bakker@strw.leidenuniv.nl](mailto:bakker@strw.leidenuniv.nl)

**Date for interest to participate:** 1 September 2004 (required)

**Date for registration:** 15 September 2004

International Astronomical Observatories in Chile (IAOC) Workshop in 2004

# THE COOL UNIVERSE: OBSERVING COSMIC DAWN

Universidad Tecnica Federico Santa Maria (UTFSM), Valparaiso, Chile  
2004, October 4–8

**Sponsors:** ESO, NOAO, LCO, Gemini, NRAO, NAOJ

**Host:** UTFSM

**Rationale:** With the official start of the ALMA construction phase, it is of utmost importance to usher in the astrophysical topics which will be the prime scientific drivers for this outstanding facility. This is why we have chosen to organize the 2004 IAOC workshop on the subject of the cool universe and in particular, the contribution ALMA will make towards our understanding of the formation of astronomical objects at scales that range from protoplanetary systems to galaxies. Chile, the home of ALMA and the location of several existing submm, mm and cm telescopes (ASTE, APEX, CBI...), is a place that is particularly appropriate for hosting such a workshop.

The workshop will consist of a series of tutorial and reviews, each followed by oral contributions, to discuss physical processes in cool material and the astronomical objects in which they take place.

**Topics covered (tutorial and reviews):**

- Observing procedures and derivation of physical quantities in the submm/mm window
- The cosmic microwave background (CMB): theory and observation
- Galaxy formation up to enlightenment: theory and predictions
- Emission processes on the ISM (includes maser)
- Molecular clouds and fragmentation: modeling and observations
- Star formation, stellar evolution, astrochemistry: models and observations
- The ISM properties across redshifts (includes absorbers)
- Fragmentation within protoplanetary discs: models and predictions
- Observational facilities on the Atacama Plateau
- Concluding remarks and Prospective

**Scientific Organizing Committee:** Danielle Alloin (Chair), Claire Chandler, Edith Falgarone, Guido Garay, Santiago Garcia-Burillo, Ryohei Kawabe, Anthony Readhead, Luis Felipe Rodriguez, Peter Shaver

**Local Organizing Committee:** Danielle Alloin, Eduardo Hardy, Kotaro Kohno, Cedric Ledoux, Chris Lidman, Lars Nyman, Bernadette Rodgers, Miguel Roth, Malcolm Smith, Massimo Tarenghi

**Dead-line for pre-registration: July 15, 2004**

Full details, list of invited reviewers and registration information can be retrieved from <http://www.sc.eso.org/santiago/science/cooluniv> and by email at [cooluniv@eso.org](mailto:cooluniv@eso.org)