

## ESO/MPA Workshop on Spiral Galaxies in the Near-IR

Garching, 7–9 June 1995

The Workshop will bring theorists and observers together to discuss what can be learned about the dynamics, populations and nuclei of spiral galaxies from the newly available array data in the near infra-red. Topics to be covered include:

- Resolved Populations
- Global Colours
- Structure of Disks and Bars
- Milky Way Structure
- Nuclei of Spirals
- Spectroscopic Population Constraints

**Scientific Organizing Committee:** E. Athanassoula, K. Freeman, R. Genzel, D. Minniti, A. Moorwood, M. Rieke, H.-W. Rix, S. D. M. White.

Send inquiries to: [dante@eso.org](mailto:dante@eso.org) or [rix@mpa-garching.mpg.de](mailto:rix@mpa-garching.mpg.de)

### Contact Addresses:

Dante Minniti European Southern Observatory Karl-Schwarzschild-Str. 2 D-85748 Garching bei München, Germany phone: +49 89 320 06 532 fax: +49 89 320 2362	Hans-Walter Rix Max-Planck-Institut für Astrophysik Karl-Schwarzschild-Str. 1 D-85748 Garching bei München, Germany phone: +49 89 3299 323 fax: +49 89 3299 3295
--	---

## The Role of Dust in the Formation of Stars

ESO, Garching, September 11–14, 1995

To keep the VLT observatory and its scientific instrumentation in phase with the evolution of astronomical research, ESO is organizing selected workshops dedicated to specialized fields of current research. The objective of this workshop is to have an exchange between observers, experimentalists and theoreticians. The discussion shall encompass the status of observations and observational techniques, laboratory experiments and theoretical research with emphasis on what observations are needed for the future to test predictions and to constrain models.

Among topics to be covered are:

- a short presentation of the VLT project
- Present observations of YSO
- Properties of dust around YSO
- Processing of dust in YSO
- Models (e.g. synthetic spectra or evolutionary scenarios)
- Dust as a catalytic agent for star formation

**Scientific organization:** Rolf Chini and Endrik Krügel (MPIfR, Bonn), Thomas Henning (MPG-AG Dust and Star Formation, Jena), John Mathis (Univ. Wisconsin, Madison), Antonella Natta (Oss. Astronomico Arcetri), Jean-Loup Puget (IAS, Orsay), Alexander Tielens (NASA Ames, Moffet Field), Nikolai Voshchinnikov (Astronomical Institute, St. Petersburg)

The workshop will be **organized locally** by: Hans Ulrich Käuffel (ESO, Garching) and Ralf Siebenmorgen (ESA/ESTEC, Noordwijk)

**Pre-registration by: December 31, 1994**

All information about this workshop is available via [www http://http.hq.eso.org/stardust.html](http://http.hq.eso.org/stardust.html)

or using the *finger* command  
`finger stardust@mc6.hq.eso.org`

## ESO/ST-ECF Workshop Calibrating and Understanding HST and ESO Instruments

ESO, Garching, April 26–28, 1995

Space and Ground-based Observatories have followed different approaches to the problem of monitoring, calibrating and understanding their Scientific Instruments. However, with the increasing complexity of the new Ground-based Instrumentation, this cultural and operational gap is gradually disappearing. This Workshop, starting from a review of the level and effectiveness of the calibration procedures which are currently adopted by the refurbished HST and by the ESO main Instruments, is aimed at highlighting the remaining differences and will provide guidelines for the development of operational procedures and software tools to be used in the VLT era. The core programme will include invited reviews followed by round-table discussions; a limited number of contributed papers/posters will also be selected.

### Main Topics:

- HST Instruments after the M&R Mission
- ESO/La Silla Instruments
- VLT and VLTI Instruments
- Current and Future Major Observatories
- Software Environments

**Scientific Organizing Committee:** D. Baade (ESO), P. Benvenuti (ESO/ST-ECF), J. Bergeron (ESO), S. D'Odorico (ESO), K. Freeman (MSSSO), P. Grosbøl (ESO), H. Hensberge (Koninklijke Sterrenwacht van België), M. Mountain (NOAO), M. Rosa (ST-ECF), E. Schreier (ST Scl) H. Schwarz, (ESO Chile), J. Spyromilio (ESO), J. Wampler (ESO).

**Local Organizing Committee:** P. Benvenuti, R. Gilmozzi, F. Murtagh, M. Péron, B. Sjöberg, J. Spyromilio.

### Further information:

WWW URL <http://http.hq.eso.org/calconf.html>

**Contact address:** Britt Sjöberg, European Southern Observatory, Karl-Schwarzschild-Str. 2, D-85748 Garching, Germany

Tel.: +49-89-32006-291; Fax: +49-89-32006-480;  
E-mail: [calconf@eso.org](mailto:calconf@eso.org)

**Registration deadline: March 3, 1995**

**Registration fee:** DM 80.00 payable at the workshop. The fee includes a free copy of the Proceedings published by ESO.

## New ESO Scientific Preprints

October–December 1994

1037. G. Mathys: Spectropolarimetry of Magnetic Stars. III. Measurement Uncertainties. — IV. The Crossover Effect. — V. The Mean Quadratic Magnetic Field. *Astronomy and Astrophysics*.
1038. R.L.M. Corradi and H.E. Schwarz: Morphological Populations of Planetary Nebulae: Which Progenitors? I. Comparative Properties of Bipolar Nebulae. *Astronomy and Astrophysics*.
1039. G. Mathys and S. Hubrig: Magnetic Fields of the HgMn Spectroscopic Binaries  $\chi$  Lup and 74 Aqr. *Astronomy and Astrophysics*.
1040. A.A. Zijlstra: Stellar Evolution and Mass Loss on the Asymptotic Giant Branch. Review talk given at Edinburgh, September 1994, "Circumstellar Matter".
1041. X.-W. Liu, M.J. Barlow, I.J. Danziger and R.E.S. Clegg: Neutral Carbon Far-Red Forbidden Line Emission from Planetary Nebulae. *M.N.R.A.S.*
1042. D. Maccagni, B. Garilli and M. Tarenghi: The Complex Structure of Abell 2151 (Hercules). *The Astronomical Journal*.

## VACANCY AT LA SILLA

# Staff Astronomer

A position as staff astronomer will become available at La Silla in the middle of 1995. The position is open to experienced observational astronomers with a Ph.D degree or equivalent and several years of post-doctoral experience in the area of CCD imaging and low-dispersion spectroscopy.

Astronomers at ESO in Chile are required to spend 50% of their time doing support activities and 50% of their time on research. A strong background of independent research is an essential requirement. Every three weeks ESO astronomers spend one week at La Silla doing functional work, followed by one week of compensatory leave, and then one week doing research at ESO's Institute of Astronomy at Vitacura in Santiago. ESO astronomers are based in Santiago.

The successful candidate will be responsible for the EFOSC instruments at La Silla, and is therefore expected to have knowledge and interests in CCD's and their calibration, and CCD photometry and low-dispersion grism spectroscopy. The functional work includes

- introducing visitors to the use of the instruments
- writing and updating User's Manuals
- interacting with the technical staff on modifications and updates of the instrumentation.

Staff posts are normally offered for an initial period of 3 years and may be renewed for a second period of 3 years.

Applications should be submitted to ESO **not later than March 15, 1995**. Applicants will be notified by June 1, 1995. The ESO Application Form should be used and be accompanied by a list of publications. In addition, three letters of recommendation from persons familiar with the scientific work of the applicant should be sent directly to ESO. These letters should reach ESO **not later than March 15, 1995**.

The research interests of the members of the staff in the Astronomy Support Department at La Silla include low-mass star formation, chemistry of molecular clouds, high-resolution spectroscopy of cool stars, supernovae and their remnants, the distance scale, compact groups of galaxies, and observational cosmology. Staff members and senior fellows act as co-supervisors for students of European universities who spend up to 2 years on La Silla working towards a doctoral dissertation. The staff of the Astronomy Support Department consists of about 20 astronomers including staff, post-doctoral fellows, and students. Most of the ESO scientists are from the member states of ESO (Belgium, Denmark, Germany, France, Italy, the Netherlands, Sweden and Switzerland), but several are from other countries. The research facilities at La Silla consist of 12 telescopes, including the SEST 15-m submillimetre antenna, and the 3.5-m New Technology Telescope. There are ample computing facilities in Vitacura including a number of networked SUN workstations, running MIDAS, IRAF, Supermongo, etc.

Enquiries, requests for application forms and applications should be addressed to:

European Southern Observatory  
Personnel Department  
Karl-Schwarzschild-Strasse 2  
D-85748 Garching bei München, Germany

1043. W. Freudling: An Image Restoration Technique for the Removal of Cosmic Ray Hits from Dithered Images. *P.A.S.P.*
1044. H. Kjeldsen, T.R. Bedding, M. Viskum and S. Frandsen: Solar-Like Oscillations in  $\eta$  Boo. *The Astronomical Journal*.
1045. E.J. Wampler, N.N. Chugai and P. Petitjean: The Absorption Spectrum of Nuclear Gas in Q0059-2735. *Astrophysical Journal*.
1046. G. Mathys and T. Lanz: Magnetic Splitting and Identification of Spectral Lines in Ap Stars. To be published in the Proc. of the Workshop "Laboratory and High Resolution Spectra" (Brussels, Aug. 29 - Sept. 2, 1994). Eds. A.J. Sauval, R. Blomme, N. Grevesse. *Astron. Soc. Pacific Conf. Series*.
1047. W. Freudling et al.: Gas Around  $\beta$  Pictoris: An Upper Limit on the HI Content. *Astronomy and Astrophysics*.
1048. D. Minniti, E. Olszewski and M. Rieke: IR Photometry of M33. In Proc. of the 3rd ESO/CTIO Workshop on "The Local Group Galaxies". Eds. A. Layden and J. Storm, in press.  
D. Minniti and T.R. Bedding: Resolving Distant Galaxies Into Stars. In Proc. of the ESO Workshop on "Science with the VLT", 1994. Eds. J.R. Walsh and J. Danziger, in press.  
A. Zijlstra and D. Minniti: Miras in Nearby Galaxies. In Proc. of the ESO Workshop on "Science with the VLT".
1049. D. Minniti: The Helium Abundance of the Galactic Bulge. In Proc. of ESO/EIPC Workshop on "The Light Element Abundances", Ed. P. Crane, in press.  
The Formation of the Galactic Bulge: Clues from Metal-Rich Globular Clusters. In "The Formation of the Milky Way". Eds. E. Alfaro and G. Tenorio-Tagle, in press.  
Metallicity, Structure and Kinematics of the Milky Way's Bulge. In IAU Symp. 169 on "Unsolved Problems with the Milky Way". Ed. L. Blitz, in press.

## Staff Movements

### Arrivals

#### Europe

AMICO, Paola (I), Fellow  
ANDERSEN, Torben (DK), Senior Systems Analyst/Head of System Engineering Group  
BELETIC, James (USA), Head of Optical Detector Group  
BÖHM, Torsten (D), Fellow  
COURBIN, Frédéric (F), Student  
DERIE, Frédéric (F), Student  
DORN, Peter (D), Laboratory Technician (Photography)  
MAYR, Stephanie (D), Junior Analyst  
MICHEL, Alain (F), Optical Engineer  
MONNET, Guy (F), Senior Astronomer / Physicist-Head of the Instrumentation Division  
VAN KESTEREN, Arno (NL), EMC and Electrical Engineer

#### Chile

GUISARD, Stéphane (F), Optical Engineer  
PRIETO, Eric (F), Optical Engineer  
STORM, Jesper (DK), Paid Associate (changed from Fellow)

### Departures

#### Europe

BEDDING, Timothy (Aus), Fellow  
GERBIER, Alain (F), Mechanical Engineer  
TINNEY, Christopher (Aus), Fellow