

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.

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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>

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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 χ 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*.