

New ESO Preprints

(June – August 1991)

Scientific Preprints

771. F.R. Ferraro and G. Piotto: Deep Luminosity Functions of Globular Clusters. IV. NGC 6171. *Monthly Notices of the Royal Astronomical Society*.
772. D. Baade, S. Cristiani, T. Lanz, R.A. Malaney, K.C. Sahu and G. Vladilo: Reduced Upper Limits on the Equivalent Width of Interstellar Li I 670.8 Towards SN 1987A. *Astronomy and Astrophysics*.
773. R.M. West, O. Hainaut and A. Smette: Post-Perihelion Observations of P/Halley. III. An Outburst at $R = 14.3$ AU. *Astronomy and Astrophysics*.
774. E. Brocato and V. Castellani: Core Overshooting and Stellar Evolution. *Astronomy and Astrophysics Letters*.
775. A. Cavaliere, N. Menci and G. Setti: Distortions of the CMB Spectrum by Distant Clusters of Galaxies. *Astronomy and Astrophysics Letters*.
776. M. Stiavelli, P. Londrillo and A. Messina: Dissipationless Collapse and the Shape of Isophototes. *Monthly Notices of the Royal Astronomical Society*.
777. M. Stiavelli and F. Matteucci: Abundance Gradients and Galaxy Formation. *Astrophysical Journal Letters*.
778. S. D'Odorico, P. Molaro and G. Vladilo: NTT Interstellar NaI Observations of the Two Faint ($V = 15.5$) Optical Companions of SN 1987A. *Astronomy and Astrophysics*.
779. G. Setti: The Origin of the X-Ray Background. To be published in the proceedings of the 28th Yamada Conference on "Frontiers of X-Ray Astronomy", Nagoya, Japan, April 8–12, 1991.
780. I.J. Danziger, P. Bouchet, C. Gouiffes and L.B. Lucy: Dust and Line Luminosities in SN 1987A. Paper presented at ESO/EIPC Workshop "SN 1987A and Other Supernovae", Marciana Marina, Isola d'Elba, September 17–22, 1990.
781. G. Bono and V. Castellani: A Theoretical Investigation of Population II Red Giant Clumps. *Astronomy and Astrophysics*.
782. A. Iovino, P.A. Shaver and S. Cristiani: The Clustering of Quasars and its Evolution. Paper presented at the Workshop on "The Space Distribution of Quasars", Victoria, Canada, June 1991. To appear in PASP Conference Series.
783. B.E. Westerland, M. Azzopardi, J. Breyssacher and E. Rebeiro: The Evolution of Carbon Stars in the Magellanic Clouds. *Astronomy and Astrophysics Supplement Series*.
784. M.-H. Ulrich, A. Boksenberg, G.E. Bromage, J. Clavel, A. Elvius, M.V. Penston, G.C. Perola and M.A.J. Snijders: The Ultraviolet Spectrum of NGC 4151 from 1978 to 1990. *Astrophysical Journal*.
785. S. D'Odorico, T. Oosterloo, T. Zwitter and M. Calvani: On the Mass of the Compact Object in SS 433. *Nature*.

786. P. Padovani and C.M. Urry: Luminosity Functions, Relativistic Beaming, and Unified Theories of AGN. To appear in the proceedings of "Physics of Active Galactic Nuclei", June 3–7, 1991, Heidelberg.
787. C.M. Urry, P. Padovani and M. Stickel: Fanaroff-Riley I Galaxies as the Parent Population of BL Lacertae Objects. III. Radio Constraints. *Astrophysical Journal*.
788. D. Baade: Observational Aspects of Stellar Seismology. Invited talk presented at the International Scientific Meeting of the Astronomische Gesellschaft on "Variability in Stars and Galaxies", Bamberg, April 1991. To appear in G. Klare (ed.): Reviews in Modern Astronomy, Vol. 4, "Variability of Stars and Galaxies", Springer, Heidelberg.

Technical Preprints

28. A.F. de Baas and M. Sarazin: The Temperature Structure Function for Complex Terrain. Paper presented at the Eighth Symposium on Turbulent Shear Flows,

- Technical University of Munich, Germany, September 9–11, 1991.
29. J.M. Beckers: The Use of Differential Adaptive Optics for Astronomical Interferometry. On the Optimization of Partial Adaptive Optics. Submitted as Technical Notes to *Applied Optics*.
30. Th. Rimmele, O. von der Lühe, P.H. Wiborg, A.L. Widener, R.B. Dunn and G. Spence: Solar Feature Correlation Tracker. To appear in SPIE Proceedings: Technical Conference 1542 "Active and Adaptive Optical Systems", San Diego, July 22–24, 1991.
31. F. Merkle et al.: Adaptive Optics System Tests at the ESO 3.6-m Telescope. To be published in Proceedings of SPIE, Vol. 1542 (1991).
32. F. Merkle and N. Hubin: Adaptive Optics for the European Very Large Telescope. To be published in Proceedings of SPIE, Vol. 1542 (1991).
33. L. Noethe et al.: Latest Developments of Active Optics of the ESO NTT and the Implications for the ESO VLT. To be published in Proceedings of SPIE, Vol. 1542 (1991).

Professional Video Studio at ESO

During June/July 1991, the ESO Information Service installed a professional video facility (M II format) at the ESO Headquarters in Garching.

ESO has experienced an ever-increasing demand for high-standard video material, in particular from the large TV companies in the member countries, showing various aspects of ESO activities, scientific and technical. Main subjects of interest continue to be the scientific work at La Silla, as well as the NTT and, more recently, the VLT project and the development of Paranal.

The M II format represents the latest video technology and ESO is now able to document its activities fully in "broadcast" standard. At the same time, VHS and S-VHS copies can be made at a minimum of cost,

ensuring a quick and efficient distribution of videos from ESO to less demanding customers.

The ESO video team consists of Claus Madsen and Herbert Zodet (in the picture) who from now on will make video recordings of all important events at ESO. Since they are based in Europe and would not be able to travel to Chile at a moment's notice, whenever a special event takes place there, they will be supported by Jürgen Eschwey of the ESO team at Paranal. His first assignment is to record the beginning of the levelling and blasting at the top of that mountain in September 1991.

All enquiries about ESO videos should be directed to the ESO Information Service (address on the last page).

