

between fundamental and first-overtone pulsations is 1 : 0.71 for Cepheids; the observed short-period cutoff at $P = 2.3$ days (BB GEM) and $P = 1.95$ days (SU CAS) respectively, is therefore in good agreement.

For pulsating variables the period interval from 1 to 3 days is a twilight zone, where distinctly different types of variables coexist. Their observational separation is a necessary first step for a deeper understanding of their physical parameters and their evolutionary status.

List of Preprints Published at ESO Scientific Group

June – August 1981

151. M. W. Pakull: HD 36705 – A New Bright X-ray Emitting RS CVn Star. *Astronomy and Astrophysics*, Letters. June 1981.
152. J. Krautter, G. Klare, B. Wolf, H. W. Duerbeck, J. Rahe, N. Vogt and W. Wargau: IUE Spectroscopy of Cataclysmic Variables. *Astronomy and Astrophysics*, Main Journal. June 1981.
153. J. R. Dickel, S. D'Odorico, M. Felli and M. Dopita: Detection of Radio Emission from Optically Identified SNR in M31. *Astrophysical Journal*. June 1981.
154. A. Lauberts, E. B. Holmberg, H. E. Schuster and R. M. West: The ESO/Uppsala Survey of the ESO (B) Atlas of the Southern Sky. IX. *Astronomy and Astrophysics*, Supplement Series. June 1981.
155. J. Lequeux and R. M. West: Preliminary Stellar Photographic Photometry in the Sculptor Dwarf Irregular Galaxy (SDIG). *Astronomy and Astrophysics*, Main Journal. July 1981.
156. R. Barbier: Ultraviolet Colours of Early-type Stars. *Astronomy and Astrophysics*, Main Journal. July 1981.
157. E. A. Valentijn: Westerbork 5 GHz Observations of Head-Tail Radio Sources in A2022, A2256 and A2462. *Astronomy and Astrophysics*, Main Journal. July 1981.
158. D. Baade: An Unusually Short Stable Period of Absorption Line Asymmetries and V/R Variations in the spectrum of the Be Star 28 CMa. *Astronomy and Astrophysics*. July 1981.
159. G. Contopoulos: The Effects of Resonances Near Corotation in Barred Galaxies. *Astronomy and Astrophysics*. July 1981.
160. R. M. West and R. Barbier: The Very Large, Interacting Galaxy Pair IC 5174/75. *Astronomy and Astrophysics*, Main Journal. July 1981.
161. N. Vogt and F. M. Bateson: An Atlas of Southern and Equatorial Dwarf Novae. *Astronomy and Astrophysics*, Supplement Series. July 1981.
162. J. Koornneef: The Gas to Dust Ratio and the Near-infrared Extinction Law in the Large Magellanic Cloud. *Astronomy and Astrophysics*, Main Journal. July 1981.
163. G. Contopoulos, P. Magnenat and L. Martinet: Invariant Surfaces and Orbital Behaviour in Dynamical Systems of 3 Degrees of Freedom. II. *Physica D. Nonlinear Phenomena*. August 1981.
164. H. Arp and J. Surdej: Quasars in a Control Field Far from Bright Galaxies. *Astronomy and Astrophysics*. August 1981.
165. P. Véron and M. P. Véron: On the Quasar Surface Density. *Astronomy and Astrophysics*. August 1981.
166. P. A. Shaver, V. Radhakrishnan, K. R. Anantharamaiah, D. S. Retallack, W. Wamsteker and A. C. Danks: Anomalous Motions of HI Clouds. *Astronomy and Astrophysics*, Letters. August 1981.
167. S. D'Odorico, W. M. Goss and M. A. Dopita: Radio Emission from Supernova Remnants in the Galaxy M33. *Monthly Notices of the Royal Astronomical Society*. August 1981.
168. A. Surdej, J. Surdej and J.P. Swings: Spectral Variations and Evidence for Edge and/or Line Locking Mechanism(s) in the Low Excitation Planetary Nebula HD 138403. *Astronomy and Astrophysics*, Main Journal. August 1981.

PERSONNEL MOVEMENTS

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- MORESMAU, Michel, F. Electronics Technician, 24.8.1981
 KÄSLING, Angelika, D. Administrative Clerk, 1.9.1981
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 MISCHUNG, Norbert, D. Senior Project Engineer, 1.11.1981
 DEKKER, Klaus, NL, Head of Optical Section, 1.11.1981

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- ESCHWEY, Jörg, D, Head of Construction Group, 31.12.1981

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- MILLER, Richard H., USA, 1.9.1981

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- GLASS, Ian, Irish, 30.9.1981

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- SVENSSON, Roland, S, 1.10.1981

ALGUNOS RESUMENES

ESO fue seleccionada para alojar el servicio de coordinación europea del telescopio espacial

La "National Aeronautics and Space Administration" (NASA) de los Estados Unidos intentará lanzar un telescopio espacial de 2.4 m hacia fines de 1984. En este proyecto participa la Agencia Espacial Europea (ESA), y los observadores de los países miembros de esta institución obtendrán por lo menos un 15% del tiempo total de observación con el telescopio espacial.

El día 26 de junio ESO fue elegida por ESA para alojar el servicio de coordinación del telescopio espacial.

Las tareas más importantes del servicio de coordinación serán:

- dar informaciones sobre programas de observación a posibles observadores;
- coordinar el desarrollo del software para el análisis de los datos y crear software adicional para responder a las demandas de la comunidad europea del telescopio espacial;