

Morgan type, at a redshift of about 0.05) should ensure that the results will have a general validity. This is also important for a study of the general distribution of dark matter in these clusters, to be based on the same data.

For a complete sample of 70 to 80 clusters with $z < 0.1$ we will get between 20 and 30 radial velocities per cluster, from a single Optopus exposure. These will yield unbiased estimates of the mean cluster velocity (for a study of peculiar velocities), and of overall velocity dispersions (to be correlated with other global cluster properties).

The candidate galaxies for spectroscopy are found from automatic scans of film copies of SERC III a-J survey plates, obtained with the Leiden Observatory automatic measuring machine Astro-

scan. This machine will also produce accurate photographic photometry, to be calibrated with CCD sequences for which time on the 1.54-m photometric telescope has been granted.

With an anticipated yield of over 5000 new radial velocities, possibly other useful information from the spectra, and new photometry, it is hard to imagine that this programme will not provide a better description and understanding of the class of rich galaxy clusters. We look forward not only to answers to the questions that we presently pose, but also to new questions raised by the new data.

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Surface Photometry Catalogue Presented

On June 14, 1989, Andris Lauberts and Edwin Valentijn presented their new "Surface Catalogue of the ESO-Uppsala Galaxies" during a Colloquium in the Auditorium at the ESO Headquarters. The appearance of this catalogue is the crowning event of many years of hard work by the authors. It is now available, both in printed form and on magnetic tape. The book may be obtained from the ESO Information Service and the computer readable version from Centre de Données in Strasbourg, cf. the announcement in *Messenger* 56, page 34. On the photo, Ed Valentijn (left) and Andris Lauberts (middle) present the first printed copy of their Catalogue to the ESO Director General, Professor Harry van der Laan, at the time of the Colloquium.

Operating Manuals Now Available

A number of Operating Manuals have recently become available. The following have already been distributed to institutes, etc. in the member states:

- B & C Spectrograph
- CASPEC
- CAT/CES
- ECHELEC
- EFOSC
- IR Photometers
- PISCO

The following three manuals will be ready for distribution later: **Dutch Telescope, CCD, and Optical Photometers.**

Copies of these manuals can be obtained from Visiting Astronomers' Service, ESO Headquarters, Karl-Schwarzschild-Strasse 2, D-8046 Garching bei München, F. R. Germany.

The Proceedings of the 1st ESO/ST-ECF Data Analysis Workshop

held on April 17-19 in Garching, will become available towards the end of September 1989.

The 230-page volume, edited by P.J. Grosbøl, F. Murtagh and R.H. Warmels, will be sold at a price of DM 30.-. This price includes packing and surface mail and has to be prepaid.

Payments have to be made to the ESO bank account 210002 with Commerzbank München or by cheque, addressed to the attention of

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