

B. E. J. Pagel: Uses and Limitations of the Differential Curve of Growth Method.

L. H. Aller: Use of Line Profiles in Abundance Work.

R. Cayrel: Comparison of High Dispersion Studies with Scanner Work.

A. Unsöld: General Survey of Recent Experimental and Theoretical Work on the Abundance Problem.

Joint Meeting with Commission 27: 'The Spectra of Variable Stars'

The meeting was devoted chiefly to Eta Carinae.

B. E. J. Pagel: Spectral Analysis of Eta Carinae.

A. Feinstein: The Stars Near Eta Carinae.

L. H. Aller: A Comparison of the Shell and Core Spectra of Eta Carinae and RRTel.

R. Viotti: The Excitation of the Emission Lines and Some Consideration of the Nature of Eta Carinae.

A. D. Thackeray: The Spectrum of Eta Carinae 8000–11 000 Å and a Comparison of RRTel and S. Dor with Eta Carinae.

In addition the following papers were read:

H. Maehara, Y. Fujita: Spectral Analysis of Long Period Variables.

G. H. Herbig, R. R. Zappala: The Infra-Red Spectra of NML Cygnus and the Leo Infra-Red Object IRC + 10° 216.

WORKING GROUP ON LINE INTENSITY STANDARDS

To increase the efficiency of this working group we suggest that somebody (e.g. Dr R. F. Griffin, if willing) should go to the McMath Solar Telescope and take photoelectric tracings with double pass of bright standard stars – (e.g. α Boo, ϵ Vir, α CMi).

The resulting reductions can then be used as a criterion by which to judge the accuracy of given telescope-spectrograph-observer reduction combinations at various observatories.

Suitable limited spectral regions should be investigated (the choice of which could be left to Dr Griffin). Tracings of these regions and tables of equivalent widths could then be published.

The efficiency of the subcommittee on line intensity standards will be substantially enhanced by a reduction of its membership.

We propose that the following should be members: R. F. Griffin, Koelbloed, Pagel, Wright.

GIUSA CAYREL DE STROBEL
Chairman of the Working Group