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THE ECLIPSE OF CI Cyg IN 1980

The symbiotic star CI Cyg is known for recurrent deep fadings of the visual luminosity going up to 2-3 magnitudes, which take place with a period of about 855^d (Pucinskas, 1972).

In 1975 a deep minimum with the duration of about 100^d was observed and was interpreted as a regular eclipse of the hot component by the cold one (Belyakina, 1976 and 1979a).

Another minimum was detected in 1977-78, but few photoelectric observations were secured (Belyakina, 1979b).

Photoelectric UBV observations of CI Cyg were planned using the 50 cm reflector at the Collurania Astronomical Observatory in the occurrence of the eclipse of 1980.

Bad sky conditions during the period corresponding to the beginning of the minimum phase (at the end of April) have prevented us to observe. The observations were carried out during the period June-October.

BD +35^o3824 and an anonymous star in the field of CI Cyg were respectively used as comparison and check stars; BD+35^o3821 was also observed to obtain a comparison with the observations by Belyakina. The results of these observations are plotted in Fig.1.

The mean variations in U, B and V colours are 1^m.30, 0^m.90 and 0^m.50, respectively.

It is interesting to note that the U, B and V lightcurves are not synchronous, in particular the eclipse in the U colour seems to last more than in B and V colours.

Small fluctuations are seen over the curves of Fig. 1; their amplitudes are close to 0^m.2-0^m.3 with a duration of some days.

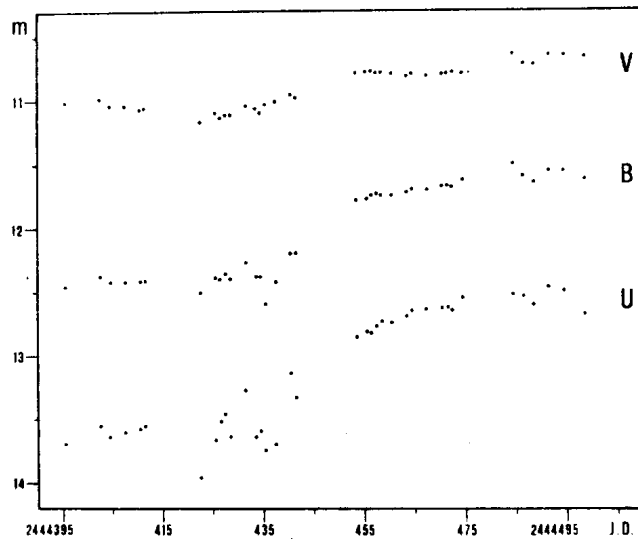


Figure 1

A detailed analysis of the lightcurves of CI Cyg will be presented in a forthcoming paper.

R. BURCHI, A. DI PAOLANTONIO, S. MANCUSO,
L. MILANO and A. VITTONI

Collurania Astronomical Observatory
Capodimonte Astronomical Observatory
via Moiariello, 16, I-80131 Napoli, Italy

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