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NEW OUTBURST OF THE SYMBIOTIC STAR CH Cyg

The gradual decrease of the star's brightness in the U-filter down to values of about 11 mag and the vanishing of its rapid fluctuations in the U,B,V filters, were observed from 1986 to September 1988. These facts were interpreted as a photometric evidence of the end of the active phase of CH Cyg (Skopal, 1988, 1989).

New photometric U,B,V observations were carried out at the Skalnáté Pleso Observatory with a single-channel photoelectric photometer installed in the Cassegrain focus of the 0.6/7.5 m telescope from September 1988 (JD 2 447 424) to August 1989 (JD 2 447 760). The data of the comparison (HD 184 786) and check (HD 184 960) star were published by Chochol et al. (1984). The average values of the U and V magnitudes during one night are shown in Figure 1.

The changes of the star's brightness in the U-filter photometrically best reflect the activity of this symbiotic star. The U magnitude reached the value of 11.1 mag from September 1988 till November 1988. No rapid changes were observed in that period. From December 17, 1988 to April 25, 1989, a small increase of about 0.2 - 0.5 mag in the U-filter was indicated. Its sudden increasing from April 25 (10.8 mag) till the recent observation in August 22 (8.8 mag) is observed. The U-B and B-V colors decreased from  $\sim 1.6$  and  $\sim 1.8$  to  $\sim 0.4$  and  $\sim 1.4$  respectively. This rapid change of the U magnitude,  $\sim 2$  mag/4 months, can be classified as a new outburst of this symbiotic star. Moreover, the rapid fluctuations of the star's brightness in the U-filter were observed again. The V magnitude is still running approximately between 6.7 mag and 7.9 mag, and its changes have not been influenced yet by increasing of the blue continuum.

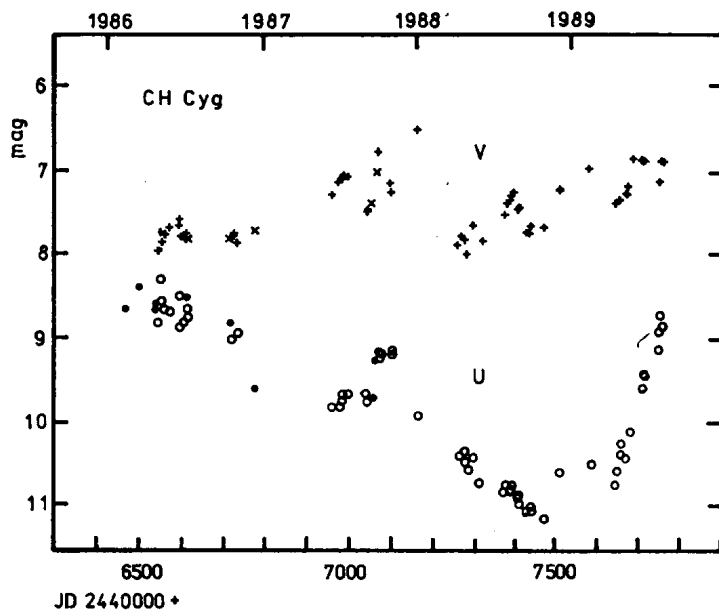


Figure 1. The U and V light curve of CH Cyg in 1986 - August 1989. Sudden increasing of the star's brightness in the U filter is observed in May - August 1989. • - U, x - V data taken from literature; o, + - observations carried out at the Skalnaté Pleso Observatory: Skopal (1987, 1989) and from JD 2 447 420 this paper.

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