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THE LIGHT CURVES OF RT CrB

The RS CVn-type eclipsing binary RT CrB has been observed in B and V colours at the Ege University Observatory from April 26 to July 30, 1979. The observations were made with the 48 cm Cassegrain telescope equipped with EMI 9781 A photomultiplier. For comparison and check stars BD +29°2691 and BD +29°2692 were used, respectively. A total of 288 observations were obtained on 32 nights.

The phases of the observations have been computed from the following light elements given in the second supplement to the GCVS (1969),

$$\text{Min I} = \text{JD Hel. } 2428273.28 + 5^{\text{d}}11712 \cdot \text{E.}$$

The differential observations in the sense comparison minus variable have been plotted against phase and are shown in Figures 1 and 2. Corrections for atmospheric extinction on differential observations were too small to be taken into account. Although, there is a large scattering in the light curves, a wave-like distortion can still be distinguished. The amplitudes of the wave are about 0<sup>m</sup>.04 and 0<sup>m</sup>.03 in yellow and blue lights, respectively. The maximum of the wave is around phase 0.05, while the minimum is around phase 0.55.

The observations of the system will be carried on in the next observing seasons.

A.Y. ERTAN, Z. TUNCA, S. EVREN  
O. TÜMER, M. KURUTAÇ and  
C. IBANOĞLU  
Ege University Observatory  
Bornova-Izmir, Turkey

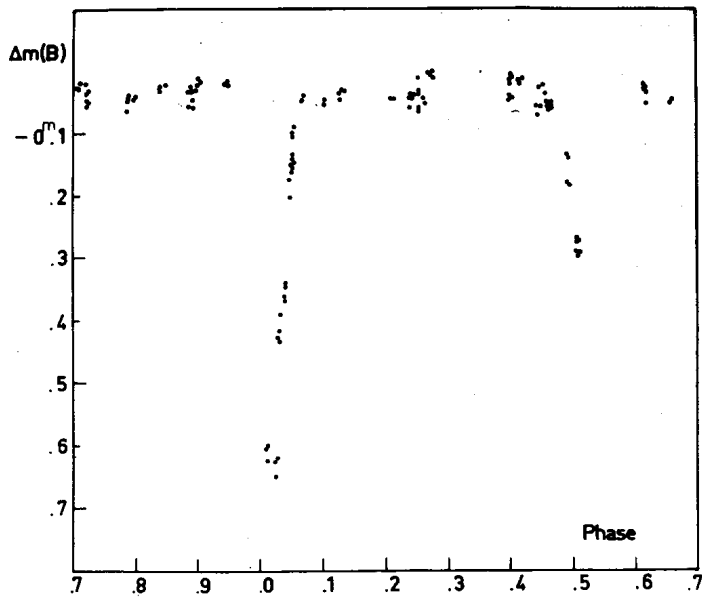


Figure 1. B light curve of RT CrB.

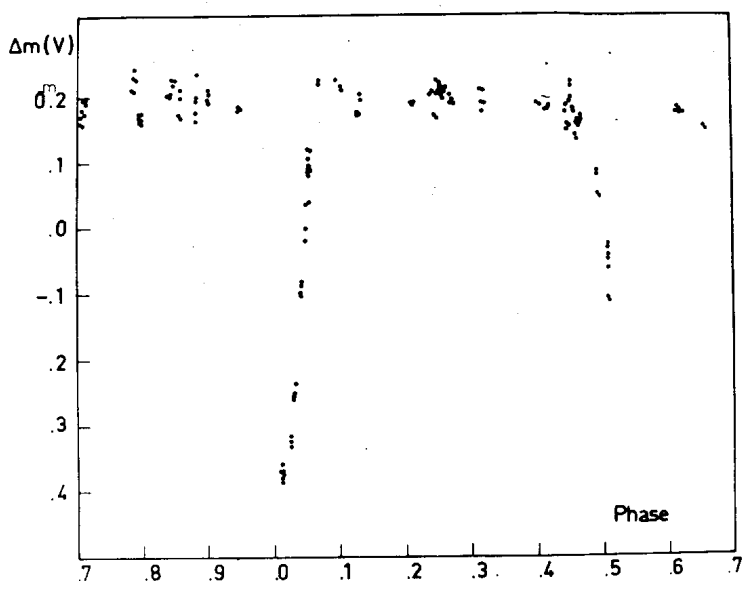


Figure 2. V light curve of RT CrB.