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NEW LIGHT CURVES OF RS CVn

The eclipsing binary RS CVn has been observed at the Ege University Observatory from March 25 to August 3, 1979. The observations in B and V were made with the 48 cm Cassegrain telescope equipped with unrefrigerated EMI 9781 A photomultiplier. The filters B and V are approximately in the standard UBV system. BD $+36^{\circ}2347$ as proposed by Hall (1976) was used as comparison star. The phases of individual observations have been computed with the following light elements

Min I = JD Hel. 2439834.471 + $4^{d}.79781 \cdot E$.

The light curves obtained in B and V colours are shown in Figures 1 and 2.

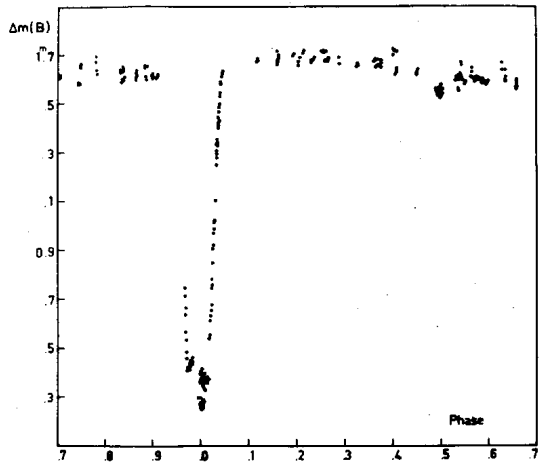

Fig. 1. B light curve of RS CVn.

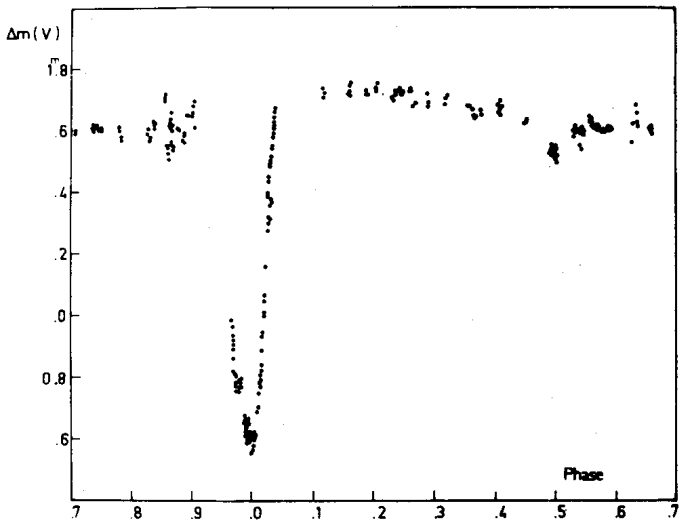

Fig. 2. V light curve of RS CVn.

The wave-like distortion outside the minima is clearly seen. The amplitude of the wave is about $0^m.09$ in blue and $0^m.14$ in yellow light. The maximum and minimum of the wave fall approximately at the phases 0.22 and 0.72, respectively. The amplitude of the wave and the phase of the minimum of the wave agree well with the values computed from the equations given by Hall (1972).

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

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