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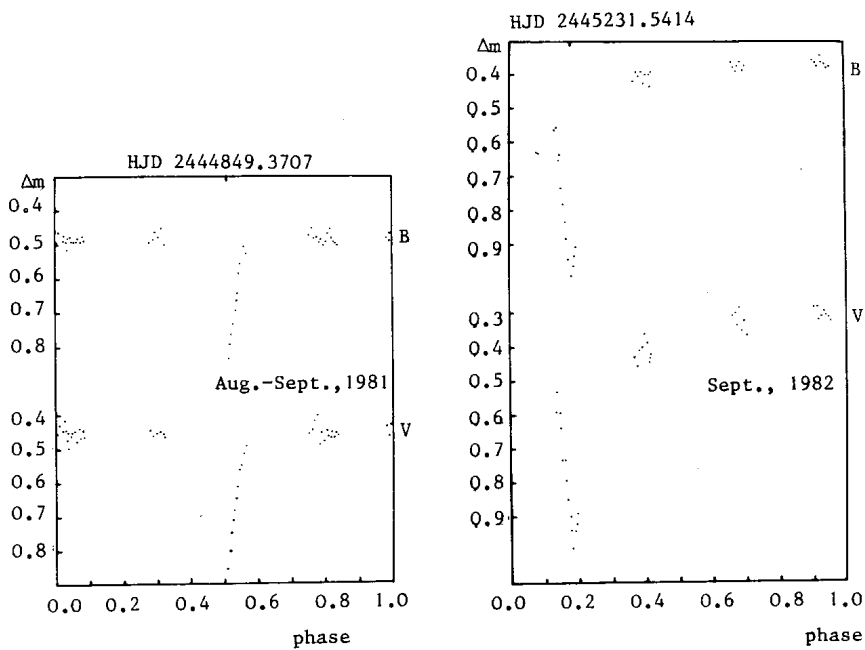
ON THE VARIABILITY OF THE STAR SAO 072799

The star SAO 072799 (BD+37^o4713) has been reported in I.B.V.S. No.1885 to be an eclipsing variable with a period 4.^d2150951. The variability of this star was noticed during photographic observations of the system SW Lac by Frank (1980). A request for a confirmation of the variability of SAO 072799 led us to observe the system photoelectrically.

The photoelectric observations were made on August 29-31 and September 1-3, 1981, as well as on September 16-19, 1982. The observations were made at Kryonerion Astronomical Station, Greece, with a 48-inch Cassegrain reflector and a two beam multi-mode photometer (Goudis and Meaburn,1973). The two intermediate pass-band filters used were selected to be in close accordance with the standard U,B,V colour system. As comparison star we used SAO 072816 for the period of August-September 1981 and SAO 072787 for the period of September 1982.

The observations made during those periods are given in Figures 1 and 2, respectively. From an inspection of Figure 1 it is obvious that a light minimum occurs around phase 0.5. The ascending branch of that minimum is clearly shown. On the other hand, Figure 2 shows another minimum at phase 0.18. Here the descending branch and a small part of the ascending one can easily be seen. Moreover, there is no indication in both Figures that another minimum exists at any other phase.

From the observations given in Figures 1 and 2 we can conclude that the star SAO 072799 is certainly variable, but it is difficult to define the type and the period of its variability. Therefore, more extensive observations are needed for a better understanding of this new discovered variable star.



Figures 1-2 B and V light curves of SAO 072799

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