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THE SECONDARY PERIOD OF DL HERCULIS

This variable star of RR Lyrae type was investigated by Zessewitch (Odessa Isv. 3,257, 1953) who found strong variations in the light curve with a period of $49^{\text{d}}.2$. He obtained the elements:

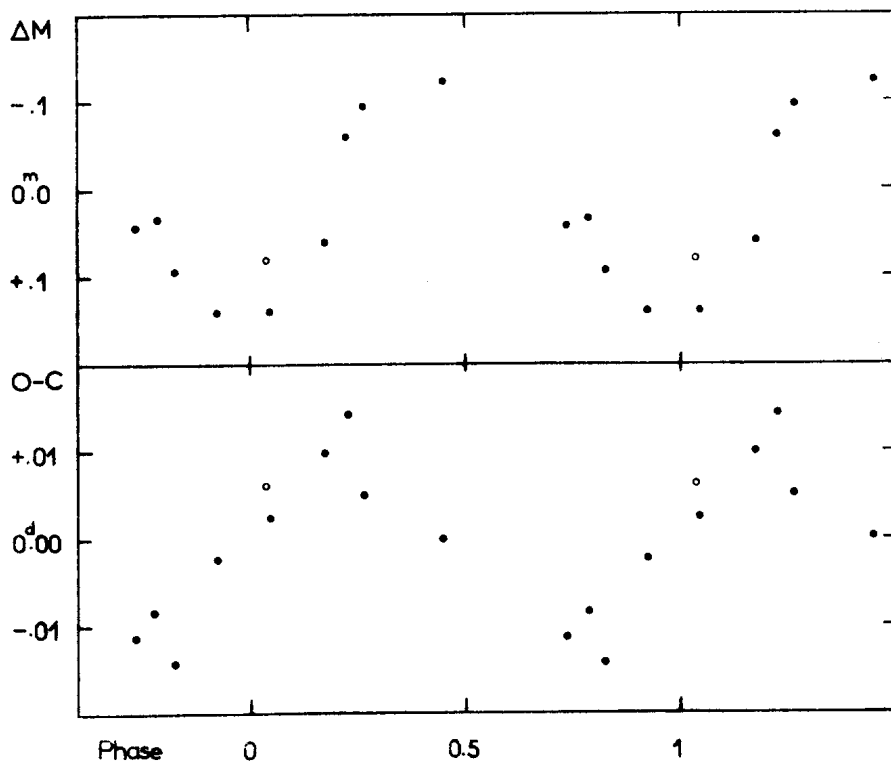
$$\text{Max. hel} = 2426959.212 + 0^{\text{d}}.5916291.E$$

$$\text{Min. ampl.} = 2426975 + 49^{\text{d}}.235.n$$

With the 24" telescope of the Konkoly Observatory 750 photo-electric observations have been obtained in blue and yellow. These observations show that the length of the secondary period is essentially shorter than the value given by Zessewitch. The new elements are:

$$\text{Max. hel} = 2438208.4282 + 0^{\text{d}}.59162786.E$$

$$\text{Min. ampl} = 2438227 + 33^{\text{d}}.6.n$$



The figure shows the variations of the heights of the maxima (above) and the phase variations of the maxima (below) in blue color. As the variable has a close companion which was measured together with the variable, the true amplitude of the variation of the maximum brightness must be larger than shown in the figure.

The observations will be continued in 1964.

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