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UBV PHOTOMETRY OF GO Cyg

The short period eclipsing binary GO Cyg (=HD 196628=BD+34°4095) was photoelectrically observed during July and September 1992. The observations were made using a 40 cm Cassegrain-telescope and a photoelectric photometer equipped with an unrefrigerated photomultiplier tube RCA 1P21 Johnson's standard U, B, V filters. The phases were calculated using

$$\text{Min. I.} = \text{JD Hel } 2445865.4056 + 0^{\text{d}}.71776707 \times E$$

(Sezer et al., 1985). The stars BD +35°4180 and BD +34°4098 were used as the comparison and the check stars respectively. A total of 192 individual points were obtained in each colour. Figures 1, 2 and 3 summarize the results for U, B and V colours respectively.

The times of minimum light determined with Kwee and Van Woerden's method are given in Table I.

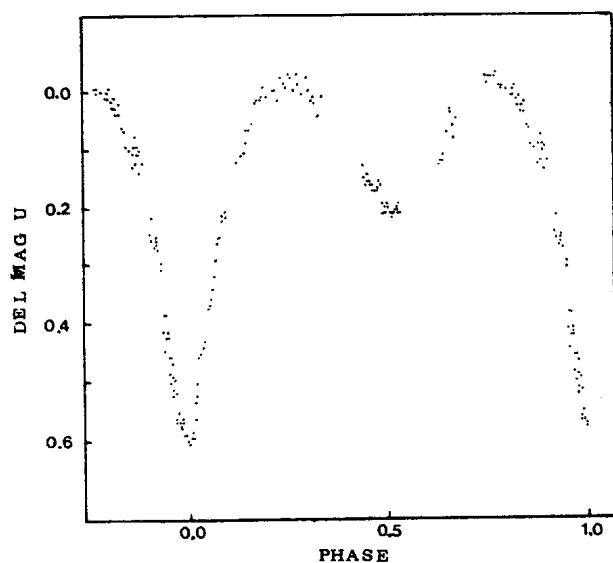


Figure 1

2

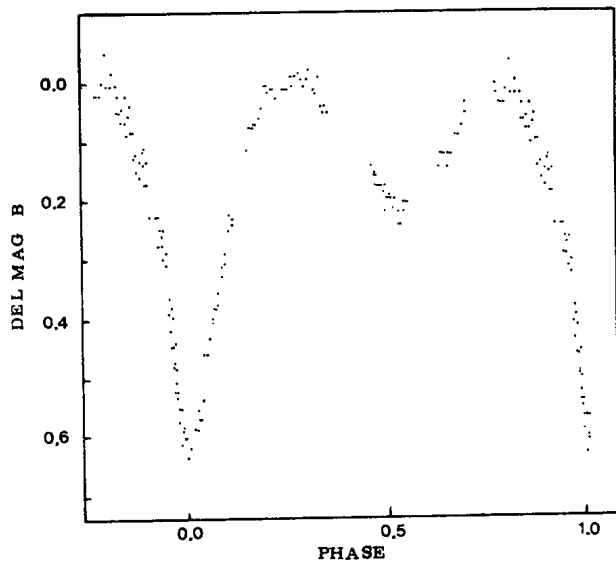


Figure 2

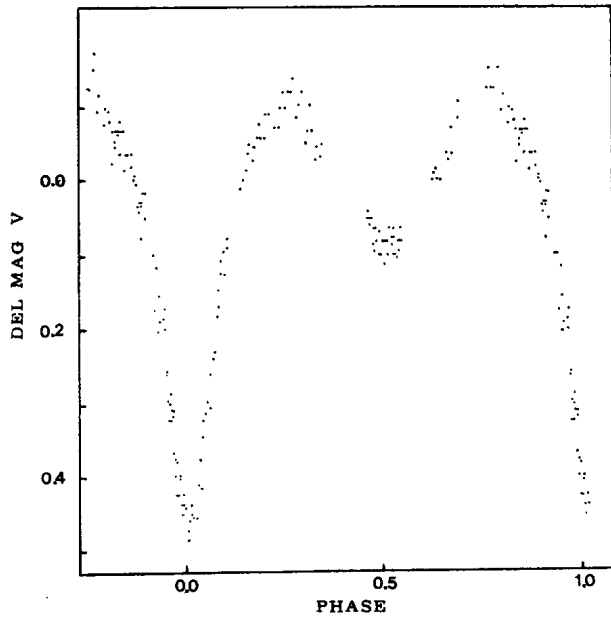


Figure 3

Table I

JD Hel.	Filter	m.e.	rem
2448000.+			
855.2584	U	0.0004	II
855.2584	B	0.0004	II
855.2584	V	0.0004	II
856.3347	B	0.0004	I
856.3345	V	0.0003	I

Few observations of GO Cyg have been published to date. The visual observations made by Kukarkin (1932) showed  $\beta$  Lyrae type variations. Ovenden (1954), Mannino (1963) and Sezer (1985) presented complete two colour photometric light curves for this star. Our present light curves show  $\beta$  Lyrae type variations with no asymmetry in the minima, no displacement in the secondary minimum and the maxima are equal. The depth of the primary minimum is 0.615, 0.605, 0.600 mag. and the depth of the secondary is 0.230, 0.228, 0.200 mag. in U, B and V respectively. The analysis of these light curves is being carried out and the results will be presented in a further paper.

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Mannino, G., 1953, *Publ. Univ. Bologna*, **8**, No. 15  
Ovenden, M. W., 1954, *Monthly Notices Roy. Astron. Soc.*, **114**, 569  
Sezer, C., Gülmen, O., Güdür, N., 1985, *Inf. Bull. Var. Stars*, No. 2743