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ON THE VARIABILITY OF HD 205328

During observations of GK Cep M. Winiarski noticed certain irregularities in the light curve of this star. Similar irregularities were also observed before (Bartolini et al., 1965, Gleim, 1967, Dworak, 1975).

M. Winiarski observed GK Cep during 24 nights from May 4, 1977 to December 17, 1977, with a 50-cm Cassegrain telescope and a photoelectric photometer equipped with a 9789 QB tube and filter for V. HD 205328 was used as a comparison star and HD 205235 and HD 204087 as check stars.

After analysing these observations it was confirmed that the comparison star - HD 205328 - was variable. The amplitude of the variations was about 0.025<sup>m</sup>. Provisional elements are:

$$\text{Max.} = \text{JD } 2443268.4014 + 0.65415 \text{ E}$$

The mean light curve with these elements is presented in Figure 1, where

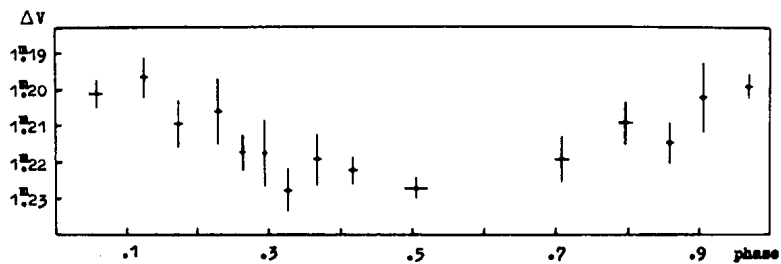


Figure 1  
The mean light curve of HD 205328 in V

$\Delta V$  signifies the difference of magnitude in V between HD 205328 and HD 205235. Each point in the plot is a normal point of ten individual observations. The standard deviations of  $\Delta V$  and the phase for each point are marked by solid lines.

In view of the characteristics, HD 205328 might be considered as an Alpha CVn star.

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