

COMMISSION 27 OF THE I. A. U.  
INFORMATION BULLETIN ON VARIABLE STARS

Number 2465

Konkoly Observatory  
Budapest  
27 January 1984  
HU ISSN 0374-0676

NARROW BAND PHOTOMETRY OF FG Vir

FG Vir = HD 106384 was discovered as a variable star by Eggen (1971) who classified it as a  $\delta$  Scuti star from the general behaviour of the light curve taken during the night of March 11, 1970.

In order to confirm the  $\delta$  Scuti character of the light variation of FG Vir, we have carried out multicolor photometry during three nights in March, 1982.

The equipment utilized consisted essentially of a 60 cm telescope with an analogic photometer and a set of narrow band filters designed specifically for  $\delta$  Scuti variables and described in Le Contel et al. (1974).

We have calculated the magnitude difference between HD 106384 and HD 106976, which was the comparison star. The magnitude difference Var. minus Comp. for filter No. 1 and the colour index (1-2) are plotted in Figure 1.

Since this colour index (1-2) is an indicative of the temperature of the star, we can deduce that FG Vir behaves as a typical  $\delta$  Scuti variable, i.e. maximum light occurs when maximum temperature. Furthermore, a Fourier analysis of the data showed that there is at least a period of about 0.079, which, via a P-L-C relationship (Breger, 1979), leads to an absolute visual magnitude of  $1.73^m$ . This value agrees very well with the  $M_v$  deduced from a purely photometric calibration of the Strömberg photometry; Philips et al. (1976), for example, give for HD 106384,  $M_v = 1.60^m$ .

Therefore, we can conclude that FG Vir can be considered as a normal  $\delta$  Scuti variable, although more observations are needed in order to find the whole periodic content of the star.

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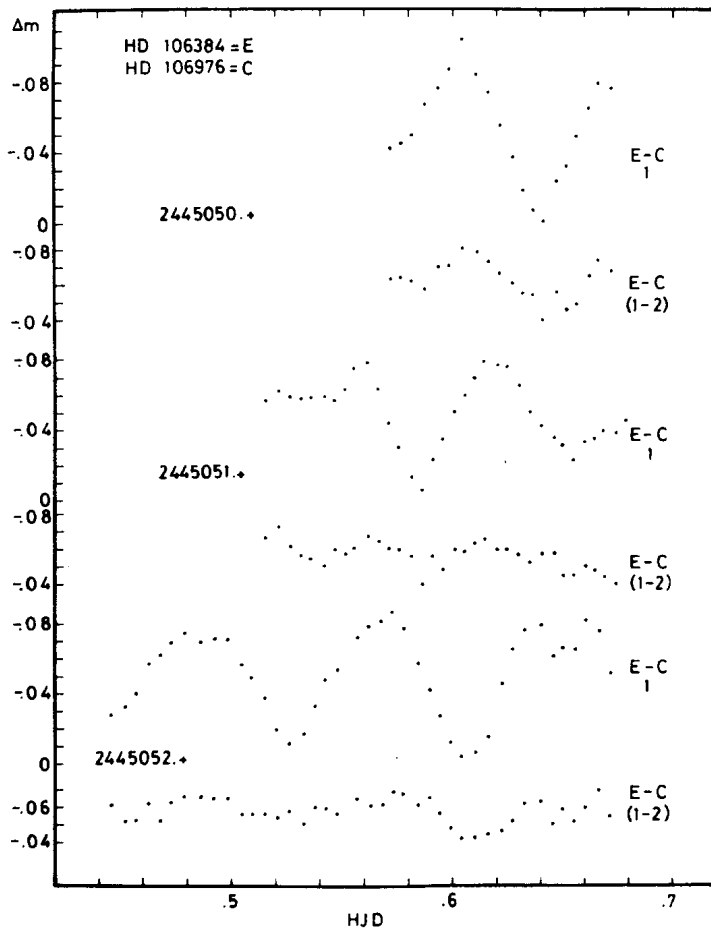


Figure 1