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

Number 2563

Konkoly Observatory Budapest 26 July 1984 HU ISSN 0374-0676

1983-1984 PHOTOMETRY OF THREE SEMI-REGULAR VARIABLES

The Automatic Photoelectric Telescope at Fairborn Observatory West in Phoenix, Arizona has been used to obtain UBV photometry of six semi-regular variables on the AAVSO Photoelectric Photometry Program. In this paper we present V-band results for the three with the most complete coverage.

The Automatic Photoelectric Telescope used to make the observations has been described by Boyd, Genet, and Hall (1984a). The complete set of data in all three bandpasses of the UBV system has been sent to the I.A.U. Commission 27 Archive for Unpublished Observations of Variable Stars (Breger 1982) where it is available as File No. 131 (1983) and File No. 136 (1984).

Shown in Figures 1, 2, and 3 are the V-band light curves for rho Per, CE Tau, and FS Com, respectively. The data were corrected for differential extinction and transformed differentially to the standard UBV system. The coefficients used in the reduction procedure have been given by Boyd, Genet, and Hall (1984b). The ordinates are the differential magnitudes between the variable and comparison stars, while the abscissas are the Julian dates (plus 2445000). The comparison and check stars observed are shown in Table I. The differential magnitudes between the comparison and check stars were found not to vary significantly.

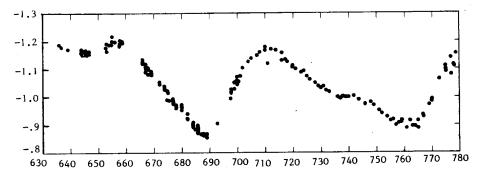
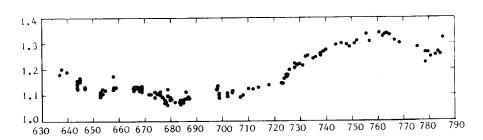
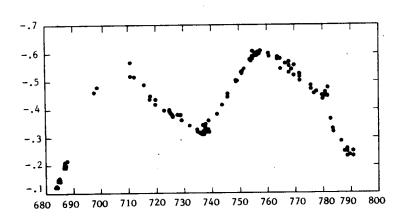


Figure 1
1983-1984 photoelectric light curve of rho Persei in V



 $Figure \ 2 \\$  1983-1984 photoelectric light curve of CE Tauri in V



 $\mbox{Figure 3}$  1983-1984 photoelectric light curve of FS Comae in V

Table I
Variable, Comparison, and Check Stars

Variable	Comparison	Check
rho Per = HD 19058	но 19656	но 18339
CE Tau = HD 36389	HD 35802	HD 35296
FS Com = HD 113866	HD 113848	HD 114724

We wish to thank John R. Percy at the David Dunlap Observatory for providing detailed information on the variable, comparison, and check stars. We also wish to thank Michael M. Genet for plotting the light curves.

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