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HD 105759, A NEW SHORT PERIOD VARIABLE STAR

During an observational program on the variable star FG Vir, it turned out that the star HD 105759, used as a check star, shows systematic variation.

This star was not reported in the "Catalog of Stars Suspected of Variability" nor in the more recent edition of the GCVS.

The observations were made during the nights of 1991 March 13, 23; April 03, 13 with the 0.40 m reflector at the "A. Righi" observatory in Reggio Calabria - Italy and given in use at the "Gruppo Astrofili Reggini M31 del DLF". A photomultiplier EMI 9789 QB with Johnson's V filter and photon counting was used.

The elaboration of data obtained on the first two nights showed that HD 105759 had a variation of about 0.05 magn. with respect to HD 105654 with a probable period of 0.045 day.

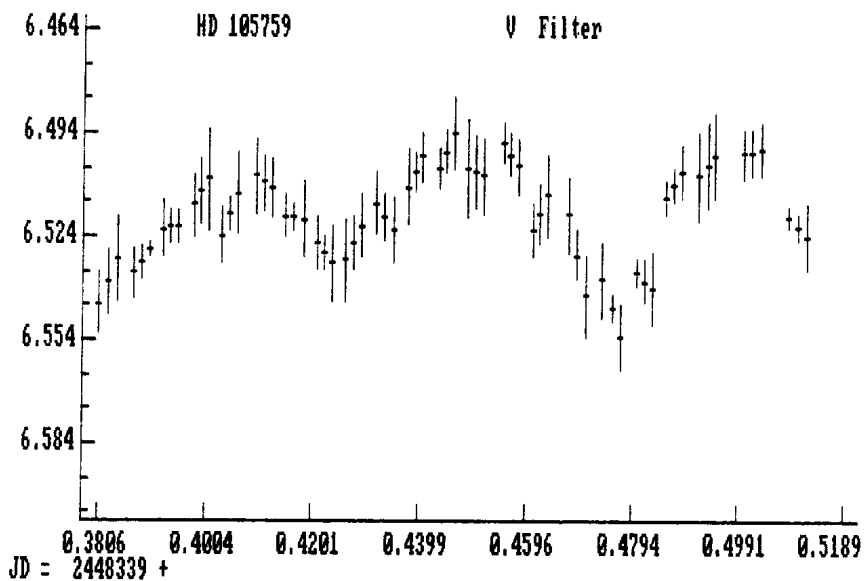


Figure 1 Light curve of HD 105759 in the V filter on March 23th.

The variation was confirmed on the two last nights when HD 105654 and HD 107830 were used as comparison and check stars respectively.

In Figure 1 the magnitude differences with respect to HD 105654 are plotted for the night of 23 March 1991.

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