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**CCD OBSERVATIONS OF A NEW T TAURI STAR IN CEPHEUS**

The CCD observations of the new suspected T Tauri star in Cepheus, having a strong variability (Semkov 1993) were made on 24 September 1992 at the Rozhen Astronomical Observatory, Bulgarian Academy of Sciences.

The star is located in the dark clouds near the emission nebula NGC 7129 and it was also recognized as a very strong H $\alpha$  emission star - No 7 from the list of Semkov and Tsvetkov (1986).

The observations were taken with the Focal Reducer and CCD P8603/B (576  $\times$  385) camera of the Max-Planck-Institute for Aeronomy (Jockers 1992) attached to the Rozhen 2m RCC telescope. The CCD image of the star through a red broad band filter Gunn R is shown in Fig. 1a and through an interference narrow band filter IF 657 in Fig. 1b. In Figure 1 North is on the top, East is on the left and the scale is 1.3 arcmin on a side.

The observations showed that there is a small cometary nebula around the star, which is not visible on the Palomar Observatory Sky Survey prints. West of the star a more dense object is situated, which maybe a jet from the star. On the North there is a background enhancement probably connected with the nebulosity around the star.

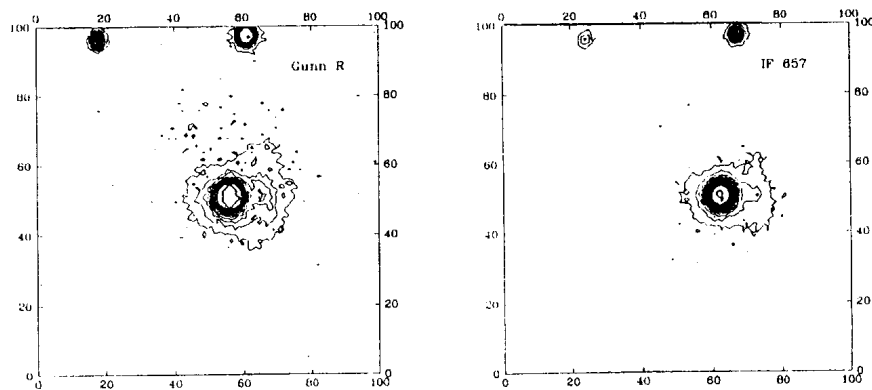


Figure 1. CCD frame of the new T Tauri star through Gunn R and IF 657 filters.

The spectra of the star were taken with a grating prism having a dispersion 0.469 nm/pixel (Fig. 2). The spectral observations exhibit strong emission line spectrum with the lines of H I, O III, Fe II, Mg I and other metals. The H $\alpha$  hydrogen line is very intense and it goes beyond the frame in Fig. 2.

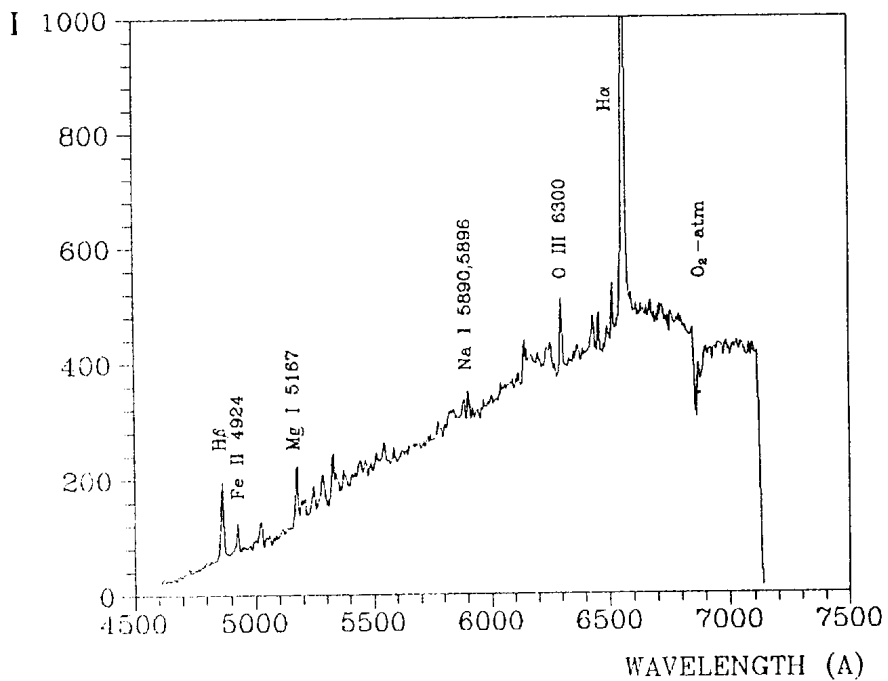


Figure 2. CCD spectrum of the new T Tauri star in Cepheus.

This kind of spectrum is typical of the very active T Tauri stars connected with nebulae according to Herbig's classification (1962).

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