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**FY PERSEI IS A SHORT PERIOD CATAclySMIC VARIABLE**

The variability of FY Per was discovered by Morgenroth (1936). The history of the star's investigation, the preliminary results of photometric observations, the identification chart and the magnitudes of nearby stars are given in Shugarov (1980).

We obtained more than 400 UBV photoelectric observations during 1980 - 1992. The analysis of the observations revealed that the star showed a small outburst. The outburst duration is about 20<sup>d</sup>. The brightness range is 12<sup>m</sup>3 - 13<sup>m</sup>5 in B.

The average color indices are B-V ≈ +0<sup>m</sup>3, U-B ≈ -0<sup>m</sup>5, that is typical for the cataclysmic stars.

The treatment of the observations shows that the system's light changes with the short period of about 1<sup>h</sup>33<sup>m</sup> and the amplitude of about 0<sup>m</sup>15.

For the analysis of the light curve we calculated the magnitude deviations from the average nightly values, because the light of FY Per changes from night to night.

The light curve for such deviations constructed with the following elements:

$$\text{J.D. min.} = 2447494.4403 + 0^d 0648479 \times E$$

is given in Figure 1.

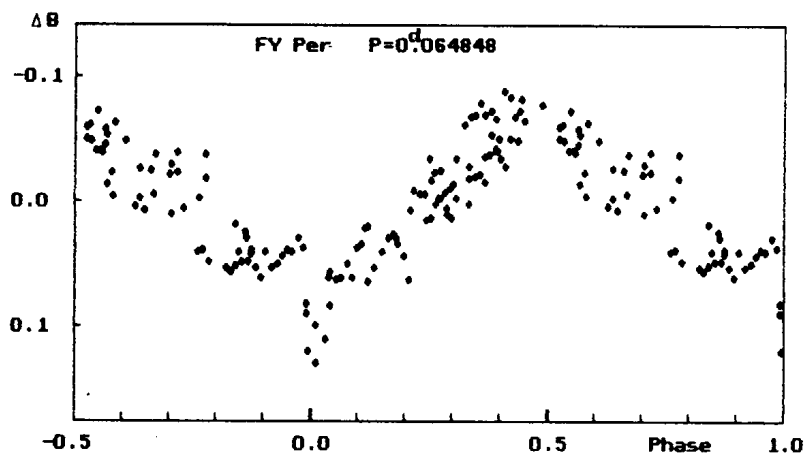


Figure 1. The mean light curve of FY Per.

Note that in some night the above period was not revealed.

In the nearest future we intend to publish a more detailed light curve in the different photometric systems and make a comprehensive analysis of the outburst activity.

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References:

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