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UBV PHOTOMETRY OF FY Per

FY Per was discovered as a variable star by Morgenroth (1936). Some results of investigation of this nova-like cataclysmic variable are published by Shugarov (1980). Recently Sazonov and Shugarov (1993) have discovered that the system's light changes with a period of $1^{\text{h}}33^{\text{m}}$ and an amplitude of $0^{\text{m}}15$ in B band.

FY Per has been observed with the 60 cm telescope and computer controlled photometer of the National Astronomical Observatory Rozhen on several occasions. BD +50°1032 has been used as a comparison star. Each integration was 10 sec through the B filter. In spite of the changes from night to night, the brightness has remained almost constant on the individual nights, and we have not detected any variations on a time scale of ~ 1 -2 hours and amplitude larger than $0^{\text{m}}035$.

Table 1

Date	UT	N pts	B	σ
18 Dec. 1993	20 ^h 07 ^m - 23 ^h 27 ^m	994	12 ^m 82-12 ^m 86	0.012
19 Dec. 1993	18 43 - 22 20	1135	12.96-12.99	0.013
21 Dec. 1993	22 35 - 22 53	88	13.08-13.10	0.013

Additionally five UBV estimates were obtained:

Table 2

JD 2440000+	V	B-V	U-B
9340.49	12.55	0.29	-0.47
9341.45	12.68	0.30	-0.43
9343.44	12.74	0.35	-0.41
9357.42	12.53	0.30	-0.48
9366.48	12.69	0.35	-0.37

The photometric data here in were reduced using APR software system (Kirov et al., 1992).

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References:

- Kirov, N. K., Antov, A. P., Genkov, V. V., 1991, *Compt. Rend. Acad. Bulg. Sci.*, **44**, No. 11, 5
- Morgenroth, O., 1936, *Astron. Nachr.*, **261**, 261
- Sazonov, A. V., Shugarov, S. Yu., 1993, *IBVS*, No. 3744
- Shugarov, S. Yu., 1980, *Astron. Tsirk*, No. 1199, 3 (in Russian)