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PHOTOELECTRIC OBSERVATIONS OF THE FLARE STAR YZ CMi

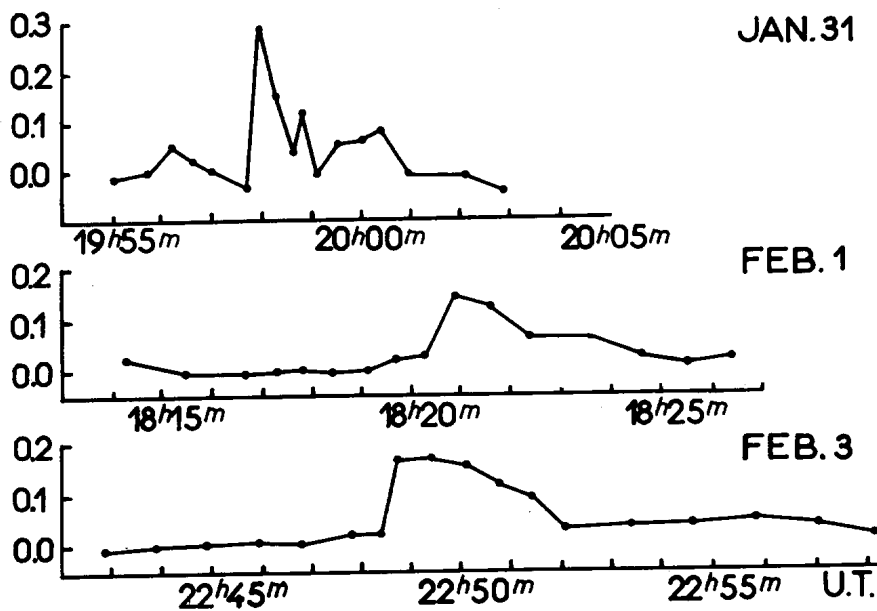
The working group on UV Ceti type stars (I.A.U. Commission 27) has organized co-operative observations of the flare star YZ CMi during two observing periods: January 22 - February 6 and February 21 - March 7, 1968. This paper contains the results of photoelectric observations obtained at the Crimean Astrophysical Observatory.

During the first period observations were made with the 64 cm telescope in the V-band and during the second one with the 70 cm reflector in the B-band. Three flares of the star were observed. Table 1 contains the times of the beginning and end of observations, times of maxima of the flares, their amplitudes and durations. Light curves of the flares are shown in Fig.1. The quantity i is the ratio of excess radiation to the normal radiation of the star, i.e.

$$i = \frac{I}{I_{\text{normal}}}$$

Table 1

Date	Beginning and end.time U.T.	Time of max. of flare, U.T.	Δm	Duration of flare, minutes	Notes
Jan.24	19 ^h 08 ^m -23 ^h 05 ^m				
Jan.31	18 09 -20 24	19 ^h 58 ^m	0.28	4	
Feb. 1	16 27 -19 24	18 21	0.15	5	
Feb. 3	16 31 - 0 00	22 49	0.16	9	
Feb.23	19 07 -20 02				
Feb.24	20 13 -22 19				Clouds sometimes
Feb.27	19 59 -23 00				- " -
Feb.28	20 48 -22 37				- " -
Mar. 3	17 02 -20 02				



Crimean Astrophysical
Observatory
March 26, 1968

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