

COMMISSION 27 OF THE I. A. U.
 INFORMATION BULLETIN ON VARIABLE STARS
 NUMBER 876

Konkoly Observatory
 Budapest
 1974 March 15

PHOTOELECTRIC OBSERVATIONS OF THE FLARE STAR YZ CMi

Photoelectric monitoring of the flare star YZ CMi was carried out at Okayama Station of the Tokyo Astronomical Observatory during the period of 18 to 24 January, 1974. The observations were made with the simultaneous three-color photometer attached to the 91cm reflector.

The observational results are summarized in the Table. Some more details will be published in the Tokyo Astronomical Bulletin.

1974 monitoring Jan.	Time of (UT)	Fil- ter	Time of max.(UT)	$\frac{I_{off}}{I_o}$	$\frac{I_{on}}{I_o}$	Max. Δm	P	d_b	d_a	σ	Wea- ther
18	11h19 ^m -13h16 ^m					mag	min	min	min	mag	1
	17 13 -19 08	U	18h03 ^m	9.91	2.59	42.4	11.7	32.0	0.24		
		B		1.65	1.05	4.5	11.7	26.5	0.04		1
		V	18 03.7	0.37	0.36	2.1	12.1	28.0	0.02		
	19 10 47 -12 15	U		1.57	1.02	3.9	4.3	3.5	0.21		
		B	12 05.3	0.33	0.31	0.8	3.7	3.5	0.05		1
		V		0.07	0.07	0.3	3.5	3.5	0.02		
	12 30 -13 58	U		10.71	2.68	11.0	0.7	20.0	0.16		
		B	12 44.5	1.79	1.11	3.1	0.7	20.0	0.04		0
		V		0.61	0.52	1.8	0.7	20.0	0.02		
		U		3.03	1.53		1.3	20.0			
		B	13 21.4	0.73	0.60		1.3	19.0			0
		V		0.19	0.19		1.3	19.0			
		U	13 23.3	1.76	1.10	U 10.9			U 0.16		
		B	13 23.4	0.42	0.38	B 2.8			B 0.04		0
		V		0.13	0.13	V 1.1			V 0.02		
		U	13 24.1	3.27	1.58						
		B	13 24.0	0.66	0.53						0
		V	13 23.9	0.22	0.22						
	14 49 -16 45									U 0.15	
										B 0.05	1
										V 0.02	
	21 16 51 -18 30	U		5.67	2.06	5.6	0.5	5.3	0.17		
		B	17 01.6	0.81	0.64	0.6	0.4	3.5	0.04		0
		V		0.17	0.17	0.1	0.4	2.0	0.01		

(continued)

1974 Jan.	Time of monitoring (UT)	Fil- ter	Time of max. (UT)	Time of I ₀	Max. Δm	P	d _b	d _a	σ	Wear- ther*
22	10 ^h 57 ^m -11 ^h 44 ^m									
	13 23 -14 12								U 0.17 B 0.04 V 0.02	1~2
14	22 -14 35									
14	55 -16 57	U			mag	min	min	min	mag	
		B	15 ^h 03 ^m .4		7.55 2.32	37.6	1.3	32.0	0.09	0
		V			1.04 0.77	5.2	1.3	28.0	0.04	
					0.25 0.24	1.1	0.8	27.0	0.02	
		U	16 18.1		1.58 1.03		0.2	2.4		
		B			0.33 0.31		0.2	2.4		1
		V	-	-	-					
						U 0.8			U 0.16	
						B 0.2			B 0.05	
						V -			V 0.02	
		U	16 18.6		1.43 0.97					1
		B			0.22 0.22					
		V	-	-	-					
23	10.31 -13 25								U 0.18 B 0.07 V 0.02	1~2
24	10 15 -12 08								U 0.21 B 0.03 V 0.02	1~2

*Weather ; 0 = very clear, 1 = clear, 2 = some thin clouds,
3 = extended thin clouds, 4 = some clouds.

Tokyo Astronomical Observatory
February 27, 1974

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