

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

NUMBER 426

Konkoly Observatory
 Budapest
 1970 April 6

FLARES OF YZ CMi OBSERVED AT OKAYAMA,
 31 JANUARY TO 13 FEBRUARY, 1970

A continual photoelectric monitoring of the flare star YZ CMi was done with the 91 cm reflector of the Okayama Station from 31 January to 13 February, 1970. During the 68 hours of monitoring in B, 20 flares were observed as shown in the following table.

Date 1970	time of monitoring (UT)	time of max (UT)	m_f (B)	P	Dura- tion	σ
Jan. 31	10 ^h 37 ^m -11 ^h 42 ^m					0.05 ^{mag}
Feb. 1	10 10 -10 46	10 ^h 22 ^m 6	0.64 ^{mag}	0.8 ^{min}	5 ^{min}	0.05
	11 21 -12 13					0.05
	13 04 -13 39					0.05
	14 01 -14 28					0.05
	14 33 -14 48					0.05
	14 56 -15 05					0.05
	15 13 -15 28					0.05
	15 46 -18 02	16 11.2	>4.3	}141	}94	0.05
		17 28.9	>0.37			cloudy
2	11 59 -12 55					0.03
	14 40 -14 51					0.03
	15 20 -18 40					0.03
3	9 58 -13 48	11 37.3	0.27	3.5	2.5	0.04
	15 11 -16 10					0.04
	16 38 -17 28					0.04
4	9 58 -14 28	10 36.9	0.43	1.1	10	0.04
		13 12.9	0.31	0.2	3	0.04
		13 18.8	0.15	0.05	1	0.04
	15 15 -15 43					0.04
5	9 03 -12 40	11 14.6	0.34	1.7	15	0.03
	17 05 -18 40					0.03
6	9 36 -10 10					0.06
	10 21 -18 10	11 13.4	0.34	0.2	0.5	0.05
		16 54.2	0.45	0.3	2	0.05
8	10 40 -15 34	14 17.0	0.27	0.5	3.5	0.04
		14 50.5	0.44	0.2	1.5	0.04
9	15 35 -17 40					0.04
10	10 42 -11 50					0.02
	12 28 -14 34	13 26.2	0.40	0.2	1.5	0.02

Date	time of monitoring (UT)	time of max (UT)	$m_f(B)$	P	Duration	σ
1970	10h45m-17h40m	11h35m5	0.14 ^{mag}	0.6 ^{min}	8 ^{min}	0.03 ^{mag}
Feb.11		13 38.5	0.33	0.1	1	0.03
		13 48.7	0.23	0.3	4	0.03
		13 59.3	0.31	0.2	2.5	0.03
		15 35.6	0.10	0.1	1	0.03
		15 42.0	0.13	0.4	5	0.03
		16 09.6	0.18	0.1	0.6	0.03
12	9 44 -13 28	9 48.5	>0.93	>8	19	0.04
	14 13 -18 13					0.04
13	9 45 -18 15					0.04

The definitions of $m_f(B)$ and σ are as follows:

$$m_f = m_0 - 2.5 \log I_{0+f}/I_0,$$

$$P = \int (I_{0+f} - I_0)/I_0 \cdot dt,$$

$$\sigma \text{ (mag)} = 2.5 \log (I_0 + \sigma)/I_0.$$

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17 March 1970

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