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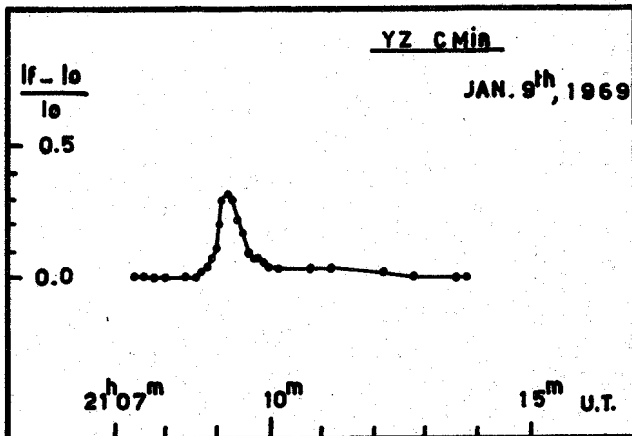
Konkoly Observatory
Budapest
1969 February 19

PHOTOELECTRIC OBSERVATIONS OF YZ CM1

The data obtained at Catania Observatory during the January, 1969 international patrol of the flare star YZ CM1 are reported.

Our photoelectric observations were carried out with a 91 cm cassegrain and a 61 cm quasi-cassegrain telescopes both equipped with EMI 6256 S photomultiplier-tubes. These devices were working in B ($\lambda_{eq} = 4300 \text{ \AA}$) and V ($\lambda_{eq} = 5150$) lights respectively.

The data given in the Tables I and II agree with those preliminarily suggested by the "Working group on UV Cet-type stars" (Chugainov, 1968).



During the observing period January 11-25, we were able to observe for 19,55 hours and we did not observe any flare. The flare, the characteristics of which are reported in Table II was observed two nights before the beginning of the planned international patrol. The light curve of the flare is drawn in Fig.1.

Catania Astrophysical Observatory
February 10, 1969

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Reference

Chugainov P.F. 1968 Private communication.

Table I

M, N Jan.	TI	L	Detailed Coverage	TC	Δm_{lim}	CTC
09-10 13-14	91	B	20 ^h 48 ^m -20 ^h 52 ^m , 2056-0212, 0214-0323, 0325-0339.	6 ^h 72	-0 ^h 04	6 ^h 72
	91	B	1918-1920, 1922-1946, 2033-2056, 2058-2205, 2207-2212, 0133-0147.	2.25	.05	
	61	V	2100-2118, 2120-2150, 2153-2158, 2200-2207, 0200-0203, 0205-0224.	1.37	.06	2.65
18-19	91	B	2311-2314, 2316-2320.	0.12	.04	
	61	V	2224-2230, 2234-2319.	0.85	.06	0.87
20-21	91	B	1932-2002, 2004-2006, 2008-2140, 2338-0012, 0016-0121, 0123-0134.	3.90	.06	
	61	V	1946-1958, 2000-2026, 2028-2050, 2053-2112, 2115-2127, 2130-2136, 2341-0010, 0022-0051, 0053-0105, 0107-0125, 0127-0128.	3.10	.05	4.00
21-22	91	B	1834-1838, 1920-1946, 1949-1955, 1957-2013, 2015-2019, 2022-2049, 2118-2130, 2150-2223, 2237-2303, 2305-2307, 2309-0000, 0003-0010, 0035-0045.	3.73	.06	
	61	V	2034-2100, 2102-2142, 2145-2211, 2217-2256, 2258-2312, 2314-0022, 0024-0042.	3.85	.04	5.20
22-23	91	B	1858-1925, 1936-2033, 2036-2213, 2215-2221, 2223-2227, 2230-2256, 2258-2319, 2323-0054, 0056-0149, 0152-0219, 0221-0228, 0230-0253, 0255-0304.	4.47	.05	
	61	V	1920-1927, 1930-2016, 2021-2034, 2037-2056, 2139-2202, 2223-2246, 2303-2306, 2341-0041, 0106-0115, 0118-0128, 0130-0157, 0159-0202, 0205-0225, 0228-0252, 0257-0308.	4.97	.03	6.85

Table II Observed Flare

Jan 9/10 CTC 6^h72, L:B, beginning 21^h06^m6 U.T., t_{max} 21^h07^m2, end 21^h10^m8,
 Δm_{lim} : -0^h04 $[(I_{o+F} - I_o)/I_o]_{max}$: 0.33, Integrated intensity 0.22 min.