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PHOTOELECTRIC OBSERVATIONS OF AD Leo

The results of photoelectric observations of the flare star AD Leo made as a part of cooperative programme in the period of 10-24 February 1969 are given below.

The observations were obtained in the B-band with the 64 cm meniscus telescope. The total coverage is 33.3 hours. The content of Tables I, II is identical with those of papers (1) and (2). The light curves of flares (Figs.1, 2,3) are given in relative intensities.

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- (1) P.F.Chugainov, (Photoelectric observations of UV Cet and YZ CMi), I.B.V.S. No 338, 1969
- (2) N.I.Shakhovskaya, (Photoelectric observations of YZ CMi), I.B.V.S. No 339, 1969

Table I

Date 1969	Coverage (U.T.)
February 15	16 ^h 20 ^m -19 ^h 10 ^m , 19 ^h 23 ^m -19 ^h 26 ^m , 19 ^h 33 ^m -20 ^h 08 ^m
February 16	19 ^h 38 ^m -24 ^h 00 ^m
February 17	0 ^h 00 ^m -03 ^h 30 ^m
February 20	18 ^h 11 ^m -18 ^h 18 ^m , 18 ^h 23 ^m -19 ^h 08 ^m , 19 ^h 21 ^m -19 ^h 24 ^m , 21 ^h 08 ^m -21 ^h 39 ^m
February 21	16 ^h 33 ^m -24 ^h 00 ^m
February 22	00 ^h 00 ^m -03 ^h 15 ^m , 17 ^h 22 ^m -24 ^h 00 ^m
February 23	00 ^h 00 ^m -03 ^h 15 ^m

Table II

Date and UT of flare maximum	Durations before and after maximum, minutes		Δm	Δm_{lim}	Inte- grated inten- sity, minutes	Air mass
	t_b	t_a				
Feb. 16 22 ^h 33 ^m 3	0.9	17	0.33	0.017	1.77	1.10
Feb. 16 23 ^h 11 ^m 5	1.0	6	0.16	0.014	0.22	1.13
Feb. 17 01 ^h 24 ^m 6	0.2	5	0.16	0.018	0.24	1.44
Feb. 17 02 ^h 00 ^m 4	0.2	2	0.09	0.018	0.07	1.64
Feb. 21 23 ^h 33 ^m 5	1.7	8	0.12	0.020	0.51	1.18
Feb. 22 17 ^h 30 ^m 5	0.2	1	0.39	0.030	0.12	1.92
Feb. 22 18 ^h 36 ^m 6	1.0	11	0.84	0.020	1.99	1.46
Feb. 23 01 ^h 00 ^m 2	0.2	12	0.57	0.050	1.29	1.44

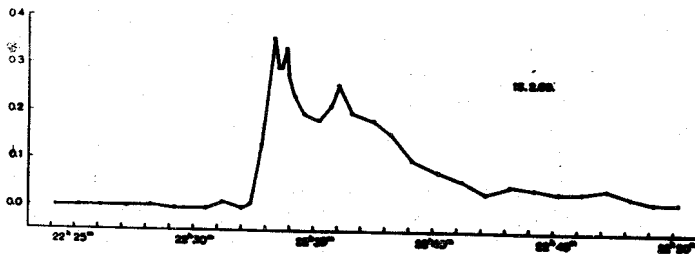


Fig. 1

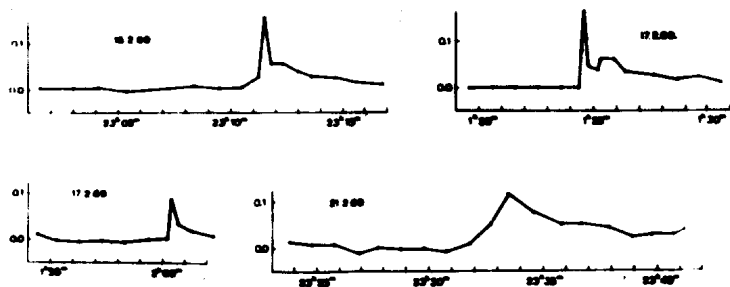


Fig. 2

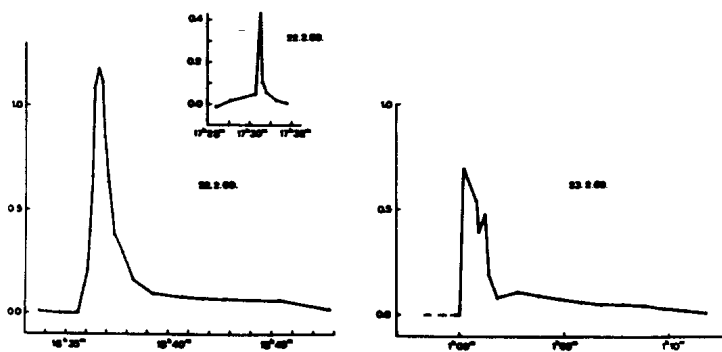


Fig. 3