

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

NUMBER 640

Konkoly Observatory
 Budapest
 1972 March 14

PHOTOELECTRIC OBSERVATIONS OF AD Leo

The flare star AD Leo was monitored photoelectrically in the period of cooperative observations 8-22 February 1972. The observations were carried out in the B-band with the 64-cm meniscus telescope. The observational results are given in Table 1, 2 and figures.

Table 1

Date 1972	Coverage (U.T.)								
Feb. 8	18 20-18	33,18	34-19	42,19	43-23	04,23	05-23	20, 23	23-24 00
9	00 00-02	51,02	54-03	02,18	43-18	44,18	45-19	40	
10	19 24-19	51,19	53-20	27					
11	17 53-19	17							
12	(17 40-19	35)							
13	17 26-18	31							
20	17 17-19	29							
21	17 25-19	07,19	09-21	01,21	03-23	04,23	06-24	00	
22	00 00-01	22,01	29-02	14,02	17-02	19,02	22-02	46	

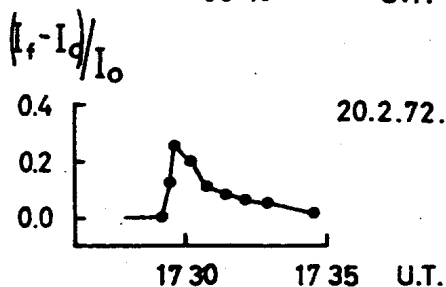
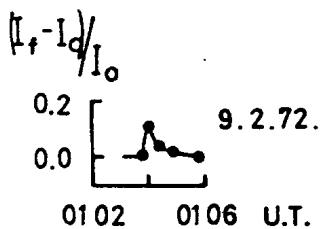
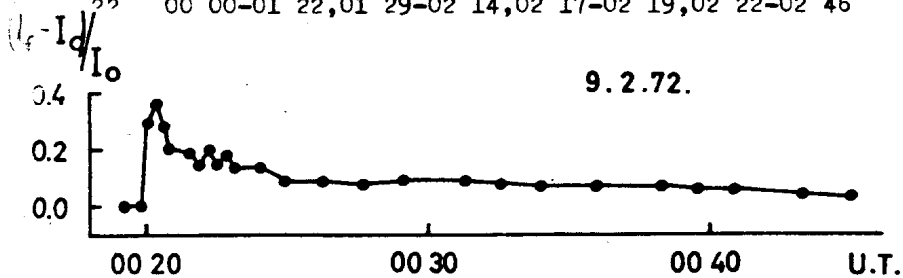


Table 2

Date	U.T.	t_b	t_a	$(I_f - I_0)/I_0$	G/I_0	P_B
1972	maximum	minutes	minutes	maximum		
Feb. 9	00 20.3	0.6	24.7	0.36	0.02	1.92
9	01 03.9	0.1	1.8	0.11	0.02	0.06
20	17 29.6	0.5	4.9	0.25	0.02	0.50

Crimean Astrophysical Observatory

P.F. CHUGAINOV and N.I. SHAKHOVSKAYA

The continual photoelectric monitoring of the flare star AD Leo was carried out with the 24 inch telescope at the Konkoly Observatory using an EMI 9502B photomultiplier and Schott GG 13 + BG 12 filter combination. The limiting magnitude for the nights was about $m_{lim} = 13.2$. As comparison star we used the companion star at 1.7 NE to AD Leo. The time of monitoring is given in Table 3.

Table 3

Date of obs.	Coverage UT
1972 Feb. 5	2040-2057, 2059-2116, 2118-2135, 2137-2200, 2201-2230, 2231-2344, 2254-2319, 2320-2332, 2333-2359, 2400-2425, 2427-2430, 2431-2455, 2457-2459, 2500-2529, 2530-2559, 2600-2631, 2632-2701, 2702-2722, 2724-2732, 2733-2801, 2802-2830.
Feb. 18	2036-2055, 2056-2110, 2111-2131, 2132-2151, 2152-2211, 2212-2231, 2232-2251, 2252-2311, 2312-2331, 2332-2351, 2352-2411, 2412-2431, 2432-2451, 2452-2501.
Feb. 20	2042-2101, 2102-2121, 2122-2141, 2142-2201, 2202-2221, 2222-2241, 2242-2301, 2302-2321, 2322-2341, 2342-2401, 2402-2421, 2422-2441, 2442-2443, 2445-2501, 2502-2521, 2522-2531.

Total coverage: 16^h00^m

No definite flare activity was noticed.

Konkoly Observatory, Budapest

K. BARLAI, L. SZABADOS, B. SZEIDL