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PHOTOELECTRIC OBSERVATIONS OF EV Lac

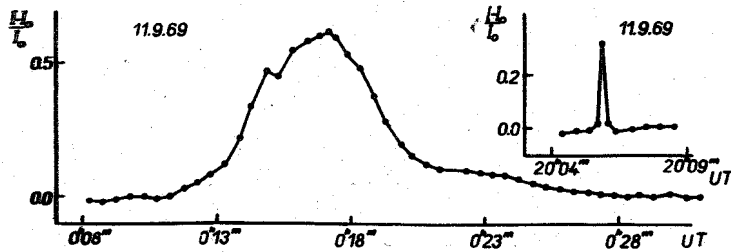
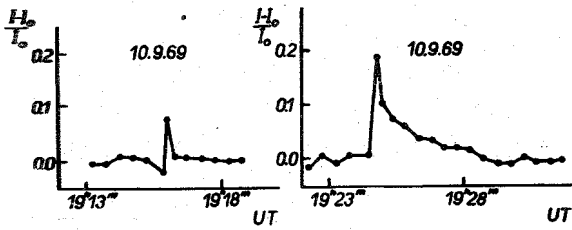
The photoelectric monitoring of the flare star EV Lac in the B photometric system was carried out in September 1969 according to the cooperative programme. The 64 cm meniscus telescope of the Crimean Astrophysical Observatory was used. The dates and UT of coverage are given in Table I. Table II contains the characteristics (I) of eight flares observed: moments of maxima (UT); durations of the flares before and after maxima t_b and t_a (in minutes); amplitudes of flares Δm_p in stellar magnitudes; standard deviations σ/I_0 ; integrated intensities P (in minutes) and the air masses $M(z)$. The light curves of flares in relative intensities are given on the figures. It must be noted that EV Lac was observed always with its optical companion. Therefore the Δm_p values refer to the variation of the combined light of both stars.

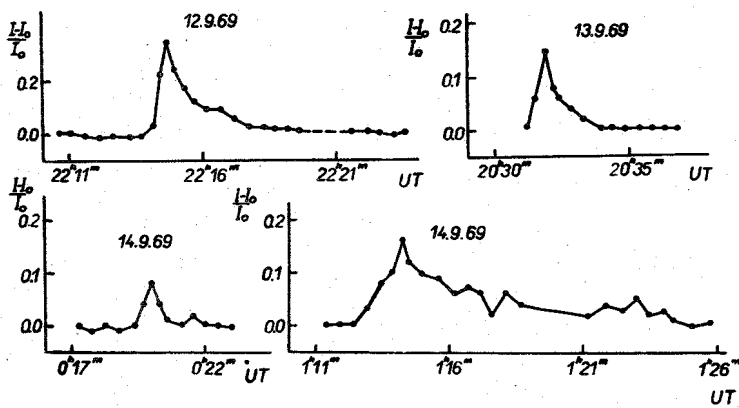
Table I

Date	UT of coverage
Sept. 4	19h07 ^m -21h29 ^m , 2150-2200, 2207-2323, 2339-2350,
5	1847-1904, 1928-1931, 1934-1938,
6	1729-1900,
8	1723-2031, 2041-2324, 2326-2400,
9	0000-0009, 0026-0048, 0050-0148, 0149-0157, 0159-0200, 1905-1922,
10	1728-1813, 1816-1900, 1904-1920, 1921-2004, 2037-2100, 2105-2147, 2151-2311, 2328-2400,
11	0000-0041, 0053-0137, 1723-1738, 1741-1750, 1755-1811, 1812-1828, 1831-1919, 1921-1936, 1939-2000, 2003-2038, 2039-2119, 2123-2231, 2246-2339, 2341-2400,
12	0000-0021, 0024-0140, 0142-0200, 1718-1736, 1737-2101, 2108-2220, 2222-2330, 2357-2400,
13	0000-0101, 0102-0200, 1739-1930, 1932-2037, 2039-2101, 2107-2119, 2123-2400,
14	0000-0035, 0047-0200,
15	1703-1733, 1741-2017, 2024-2027, 2052-2102, 2147-2211, 2218-2255,
16	2145-2208, 2213-2237

Table II

Date and UT of flare maximum	t_b	t_a	m_B	σ/I_0	P	M(z)
Sept. 10 19 ^h 16 ^m 0	0.1	0.7	0.08	0.01	0.02	1.02
10 19 24.8	0.3	3.9	0.19	0.01	0.20	1.01
11 00 17.1	6.7	10.0	0.52	0.02	3.59	1.31
11 20 05.9	0.2	0.4	0.25	0.02	0.04	1.00
12 22 14.7	0.7	4.7	0.26	0.01	0.21	1.06
13 20 31.9	0.8	2.1	0.15	0.01	0.15	1.00
14 00 20.0	0.6	1.0	0.08	0.01	0.06	1.32
14 01 14.3	1.9	10.7	0.16	0.01	0.62	1.58





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Correction to IBVS 399: For Sept. 15 the time of maximum
 should be read 17^h01^m8 (instead of
 17^h31^m8).