PHOTOGRAPHIC OBSERVATIONS OF UV Ceti
(October, 3-18, 1969)

According to the program published in the Inf.Bull.
IAU Comm. 27 (1) photographic observations of UV Ceti have
been carried out at Abastumani Astrophysical Observatory
from 3- to 18 October 1969. Through the use of a special
automatic camera adjusted at the primary focus of the tele-
scope almost continuous photography of the star was per-
formed.

The photographs were obtained on KH-3 film without
a filter, the exposures, in most cases, being 4 minutes.
Time intervals are given in the table below, when continuous
observations were carried out over 9 nights.

8.10.69	19^h53^m – 21^h48^m	13.10.69	00^h00^m–00^h24^m
	22 06 – 22 46	14.10	19 00 –24 00
9.10	19 10 – 20 22	15.10	00 00 –01 04
10.10	18 58 – 24 00		18 53 –24 00
11.10	00 00 – 01 04	16.10	00 00 –01 00
	19 28 – 21 32		19 00 –24 00
	21 54 – 22 12	17.10	00 00 –00 58
12.10	19 00 – 20 00		19 22 –24 00
	20 09 – 24 00	18.10	00 00 –00 34

The total length of continuous observations amounts
to 40^h51^m. More than 600 photonegatives are obtained. A
flash at 23^h38^m (U.T.),12 October with an amplitude about 0.3
magn. and a flare at 22^h06^m, 16 October with an amplitude
of about 1 magn. have been fixed.

Mean moments of exposure are indicated here, for
the cases of greatest brightness. Microphotometry of the
photographs, obtained at the moments near to flares, has
been done.

The comparison stars were used from (2). The results
of microphotometric estimations of magnitudes are given in
table and on the diagram (see figure).

16·X·69   12·X·69
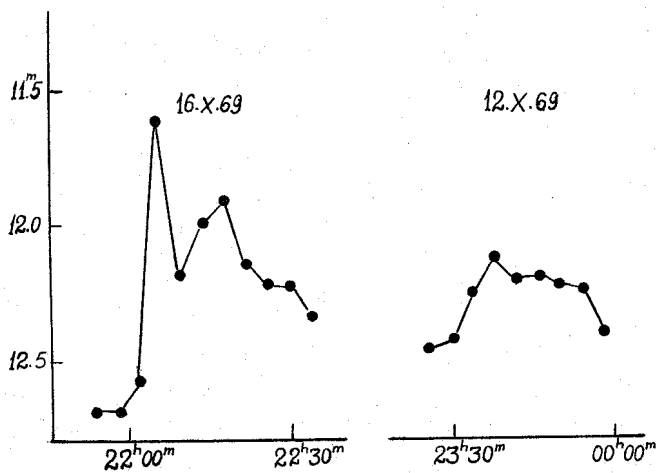
	16.10.1969			12.10.1969	
No	U.T.	m_{pv}	No	U.T.	m_{pv}
1	21^h54^m	$12\overset{m}{.}68$	1	23^h26^m	$12\overset{m}{.}46$
2	21 58	12.69	2	23 30	12.44
3	22 02	12.58	3	23 34	12.26
4	22 06	11.61	4	23 38	12.14
5	22 10	12.18	5	23 42	12.21
6	22 14	11.99	6	23 46	12.20
7	22 18	11.91	7	23 50	12.24
8	22 22	12.14	8	23 54	12.26
9	22 26	12.22	9	23 58	12.43
10	22 30	12.23			
11	22 34	12.35			

Mean square error of one estimation equals to $\pm0\overset{m}{.}05$.

R e f e r e n c e s

1. A.D.Andrews, P.F.Chugainov, V.S.Oskanian
   Comm.27, IAU Inf.Bull.Var.Stars, 1968, No.318
2. W.J.Luyten, AphJ 109, 532, 1949.

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