

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

Number 3112

Konkoly Observatory  
 Budapest  
 18 November 1987  
 HU ISSN 0374-0676

32 Cyg : UVB PHOTOMETRY OF ECLIPSE IN 1987

The long period eclipsing binary 32 Cyg (V 1488 Cyg) was observed from 6 July to 28 July 1987 during a primary minimum. UVB photometry of this event was obtained using a 0.3 m f/16 Cassegrain telescope and one channel photometer with photomultiplier EMI 9781B. Extinction and transformation coefficients were used to correct the differential magnitudes to the standard system (Hall and Genet, 1982). The comparison star was HD 192985 as suggested by Schroeder (1987).

Observations of 32 Cyg are given differentially, with respect to HD 192985. Each value is an average of three individual integrations. Internal errors were  $\pm 0.01$  magnitude. Estimation of amplitude was made from observations in each band : U = 0.68, B = 0.17 , V = 0.05.

Table I

Photometric observations of V1488 Cyg:

J.D.(Hel) 2440000+	$\Delta U$	$\Delta B$	$\Delta V$
6983.482	0. <sup>m</sup> 55	-0. <sup>m</sup> 56	-1. <sup>m</sup> 89
6984.403	0.55	-0.55	-1.90
6986.491	0.59	-0.55	-1.92
6987.439	0.72	-0.55	
6988.448	0.79	-0.50	-1.89
6989.554	1.08	-0.48	-1.91
6993.476	1.23	-0.38	-1.85
6996.500	1.02	-0.42	-1.89
6997.451	0.84	-0.49	-1.89
7005.388	0.50	-0.59	-1.88

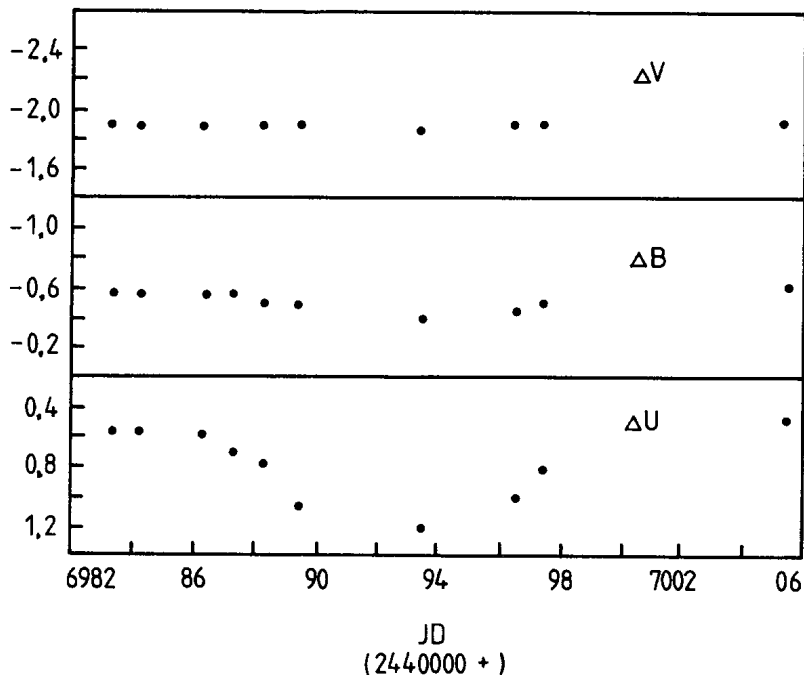
Time of minimum was determined using tracing paper method (U band). The (O-C) value was calculated using the formula

$$\text{Min}(I) = \text{J.D.}(\text{Hel}) 2444125.96 + 1147.4^d * E$$

given by SAC 58 (Cracow).

Observed J.D.(Hel) Min(I)	(O-C)	Filter
2446992.92	-1.04	U

Figure 1 shows the light curve in UVB filters from JD 2446983 to 2447005.



Primary minimum of V1488 Cyg

Figure 1

A. DOLŽAN  
 Zasavska 88  
 61231 Ljubljana  
 Yugoslavia

References:

- Böhme, D., 1987, I.B.V.S. No. 3083  
 Hall, D.S., Genet, R.M., 1982, Photoelectric Photometry of Variable Stars,  
 I.A.P.P.P.  
 SAC 58, 1986 Cracow  
 Schroeder, K.P., 1987, BAV Rundbrief 36, 61