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PHOTOELECTRIC MINIMA OF VW CEPHEI

Photoelectric observations on the peculiar eclipsing binary VW Cep (HD 197433=BD +75°752, G5) were carried out, in B and V, during September 1979. The observations were made using the two-beam, multi-mode, nebular-stellar photometer of the National Observatory of Athens attached to the 48-inch Cassegrain reflector at the Kryonerion Astronomical Station.

The stars HD 192889 (G5,  $P_{t_m}=8.12$ ) and HD 192635 (F5,  $P_{t_m}=8.1$ ) were used for comparison and checking, respectively. The filters used are in close accordance with the standard ones. Reduction of the observations has been made using Hardie's method (1962). Every observational night (13/14, 14/15, 18/19 and 21/22) the observations were carried out for several hours thus, we succeeded in obtaining 3 complete light curves and 8 minima.

The following Table gives the Hel.J.D. of the 8 minima, the differences (O-C), the mean error  $\sigma$ , and the type of minimum. The times of minima and the mean errors have been calculated using the method of Kwee and Van Woerden (1956); while the ephemeris used is that of Kwee (1966).

Table

Hel.J.D. 2444000+	(O-C) days	$\sigma$ days	Minimum
130.4162	-0.1052	$\pm 0.0007$	I
130.5558	-0.1047	$\pm 0.0008$	II
131.5278	-0.1068	$\pm 0.0002$	I
135.2859	-0.1060	$\pm 0.0005$	II
135.4254	-0.1057	$\pm 0.0006$	I
135.5648	-0.1055	$\pm 0.0004$	II
138.3480	-0.1054	$\pm 0.0003$	II
138.4866	-0.1060	$\pm 0.0002$	I

Our O-C values indicate that the period of the system continues to decrease. (See for instance the residual diagrams of van't Veer (1973) of Hopp et al. (1979)).

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