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PHOTOELECTRIC MINIMA TIMES OF HD 197433 (VW CEPHEI)

The short period eclipsing binary HD 197433 (BD +75° 752, VW Cephei) is always in our observational programme because of its peculiarities. Here, we are reporting the new minima times coming out from our photoelectric observations of VW Cep during 1984 and 1985.

The observations were carried out with a two-beam, multi-mode, nebular-stellar photometer attached to the 48-inch Cassegrain reflector at the Kryonerion Astronomical Station of the National Observatory of Athens. The stars HD 192889 and HD 192635 were used for comparison and checking, respectively. The two intermediate pass bands of the filters used, B and V, are in close accordance to the international system. Our results are presented in the following Table the successive columns of which give : the Hel. JD, the residuals $(O-C)_I$ and $(O-C)_{II}$ and the type of minimum.

Table

Hel. JD	$(O-C)_I$ days	$(O-C)_{II}$ days	Min Type
2440000.+			
5946.3996	-0.1463	+0.0412	I
5948.3428	-0.1508	+0.0361	I
5948.4762	-0.1307	+0.0304	II
6257.4104	-0.1558	+0.0294	II
6333.4046	-0.1423	+0.0423	II
6333.5527	-0.1334	+0.0513	I
6334.3658	-0.1556	+0.0194	I
6334.5027	-0.1578	+0.0271	II

The minima times were calculated using Kwee and Van Woerden's method (1956) and are the mean values of B and V observations; while the differences $(O-C)_I$ and $(O-C)_{II}$ were found using Kwee's (1966) and Kukarkin's et al. (1976) ephemeris formulae respectively.

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