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PHOTOELECTRIC MINIMA OF U PEGASI

The short period eclipsing binary U Peg was photoelectrically observed during five nights on 1980 (17-21 September). The observations were made using the 48-inch Cassegrain reflector at Kryonerion Astronomical Station and the two-beam, multi-mode, nebular-stellar photometer of the National Observatory of Athens.

Reduction of the observations was made using Hardie's (1962) method while the B and V filters used are in close accordance to the standard ones.

From our observations three primary and two secondary minima times have been derived and are given in the following Table, the successive columns of which give : the heliocentric Julian date, the residuals $(O-C)_I$, $(O-C)_{II}$ and the type of minimum.

T a b l e

Hel. J.D.	$(O-C)_I$	$(O-C)_{II}$	Min
	days	days	Type
2444500.+			
0.4922	-0.0280	-0.0152	I
1.4295	-0.0276	-0.0147	II
2.5554	-0.0261	-0.0132	II
3.4923	-0.0260	-0.0133	I
4.6165	-0.0263	-0.0134	I

The residuals $(O-C)_I$ and $(O-C)_{II}$ have been evaluated according to

$$\text{Pr. Min} = \text{Hel. J.D. } 2436511.66878 + 0.^d.37478192E$$

(Kukarkin et al. 1969 or Rudnicki 1981)

and

$$\text{Pr. Min} = \text{Hel. J.D. } 2436511.66856 + 0.^d.37478133E$$

(Kukarkin et al. 1976)

respectively.

The times of minima have been calculated using the Kwee and Van Woerden method (1956) and are the mean values of B and V observations.

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