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PHOTOELECTRIC MINIMA OF THE ECLIPSING BINARY DM PERSEI

The eclipsing binary DM Per (BD $+55^{\circ}616$, HD 14871) was observed photoelectrically at Ege University Observatory and three primary and three secondary minima were obtained. The observations were made in B, V filters with the 48 cm Cassegrain telescope equipped with an unrefrigerated EMI 9781 A photomultiplier.

BD $+55^{\circ}590$ (HD 14331) was used as comparison star.

The (O-C) values were calculated with the following elements given by Scaltriti (1976):

$$\text{MinI (Hel)} = 2441920.4543 + 2^{d}.7277427 \cdot E$$

Table I

Times of minima

Min. (Hel.)	O-C	Filter	Min.
2444491.3405	-0.0113	B,V	II
499.5237	-0.0113	B,V	II
506.3519	-0.0025	B,V	I
510.4348	-0.0112	B,V	II
517.2671	+0.0018	B,V	I
566.3676	+0.0029	B,V	I

An interesting feature observed during the observations of primary minima was the variable depth. The level of light obtained on November 22, 1980 was about $0^{m}.03$ brighter than those obtained on September 23, and October 4, 1980.

Another remarkable feature is that the mid-primary does not show any shift while a noticeable displacement of mid-secondary can be seen from the (O-C) values given in Table I. This could be due to the eccentricity of the orbit of the system.

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Reference:

Scaltriti, F., 1976, Astron. Astrophys. Suppl. 25,291