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PHOTOELECTRIC MINIMA TIMES OF ER ORIONIS

The short period ($P = 0.4234$) eclipsing binary ER Orionis was observed photoelectrically during 1982 and 1983. The observations were made using the 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.

During our observations six new minima times were obtained. They are presented in the following Table, the successive columns of which give: the Hel. J.D. of the six minima, the residuals (O-C), the mean error σ and the type of minimum.

Table I

Hel.J.D. 2440000+	(O-C) days	σ days	Min. Type
5310.4163	-0.0277	± 0.0003	I
5311.4771	-0.0244	± 0.0004	II
5312.3233	-0.0250	± 0.0004	II
5312.5322	-0.0278	± 0.0003	I
5380.2774	-0.0268	± 0.0003	I
5667.5369	-0.0248	± 0.0004	II

The residuals (O-C) have been computed using Kukarkin's et al. (1976) ephemeris formula:

$$\text{Min I} = (\text{Hel.J.D.}) 2436508.7851 + 0.4234009 E$$

while the times of minima and the mean errors have been calculated using Kwee and Van Woerden's method (1956).

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 Kwee, K.K., and Van Woerden, H., 1956, Bull. Astr. Inst. Neth., 12, 327.