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• IMPROVED EPHEMERIS, UX ERIDANI

UX Eridani (BD-7°553) is a W UMa-type eclipsing binary system which undergoes partial eclipses. Photoelectric B,V observations were obtained with the 0.6 meter telescope at Cerro Tololo Inter American Observatory in December 1979. BD-7°551 was observed as the comparison star. The observations define a secondary eclipse curve. The following epoch of minimum light was determined by an iterative technique based on the Hertzsprung (B.A.N. 4, 179, 1928) method,

$$\text{JD Hel. Min. II} = 2444228.6458.$$

Table I lists all the photoelectric times of minimum light that have been published for this system. The O-C's were calculated from the ephemeris published by Binnendijk (A.J. 72, 82, 1966), namely,

$$\text{JD Hel. Min. I} = 2438700.7228 + 0^{\text{d}}.44528226\text{E}.$$

An improved ephemeris for the system is

$$\text{JD Hel. Min. I} = 2441922.3195 + 0^{\text{d}}.44527942\text{E}.$$

TABLE I

JD Hel.	Min.	O-C	Reference
2434358.101	II	-0.007	Annals Tokyo Obs. 5, 23, 1957.
4369.015	I	-0.002	"
5097.053	I	0.000	"
8700.7228	I	0.0000	A.J. 72, 82, 1966.
8727.6635	II	+0.0011	"
2441922.5394	II	-0.0232	I.R.V.S. No. 937, 1974.
4228.6458	II	-0.0336	- - - - -

A reanalysis of the system is underway.

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