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PHOTOELECTRIC TIMES OF MINIMA OF ECLIPSING BINARIES

Photoelectric V-filter observations of selected eclipsing binaries were continued with the 40-cm f/18 Cassegrain reflector at the Blue Mountain Observatory during the 1982 observing season. The observing procedure was identical to that described in Margrave et al. (1978).

Following past practice, least-squares parabolic fits were made to the observations. Table I contains the resultant Heliocentric Julian Date

Table I. Heliocentric Times of Minima

Star	Hel. JD - 2,440,000	E	O-C	Remark
KO Aql	5209.7844 ± 0.0003	1160	+0^{d}.0082	P
RZ Cas	5204.7352 ± 0.0008	12825	-0.0016	P
	5217.8828 ± 0.0008	12836	-0.0017	P
TV Cas	5256.8056 ± 0.0002	2020	+0.0067	P
TW Cas	5207.8303 ± 0.0001	2240	-0.0028	P
PV Cas	5164.5753	1962	-0.0022	S
	5165.4760	1963	+0.0022	P
	5253.8509 ± 0.0004	2013	-0.0008	S
XX Cep	5206.7625 ± 0.0008	1569	+0.0088	P
	5220.7876 ± 0.0004	1575	+0.0099	P
SW Lac	5201.7407 ± 0.0005	5431	-0.0063	S
	5203.8264 ± 0.0009	5438	-0.0053	P
	5204.7892 ± 0.0006	5441	-0.0046	P
AT Peg	5219.8562 ± 0.0005	4199	+0.0064	P

(minus 2,440,000) for each eclipse along with its probable error, cycle number E, and O-C value. The data for the first two eclipses of PV Cassiopeiae were kindly supplied by Dr. Alvaro Giménez (1982). The letters P and S in the Remark column denote a primary or secondary eclipse, respectively. The references for the ephemerides used to calculate the O-C values are given in Table II.

Table II. Ephemerides References

Star	Reference
KO Aql	Margrave (1980)
RZ Cas	Herczeg and Friboes-Conde (1974)
TV Cas	Margrave (1980)
TW Cas	Margrave (1980)
PV Cas	Giménez and Margrave (1982)
XX Cep	SAC 53
SW Lac	Faulkner and Bookmyer (1978)
AT Peg	Margrave (1981)

The residuals for RZ Cassiopeiae appear to have reversed the trend towards more negative values that was exhibited during the preceding two seasons. The residuals for XX Cephei continue to become more positive, which indicates that the period given in SAC 53 needs to be increased.

The quadratic elements for AT Pegasi cited in Table II provide much smaller residuals for the eclipse time given here and those given in the previous notes from this observatory than do the quadratic elements given in SAC 54. In the case of the AT Pegasi eclipse reported here the SAC 54 quadratic elements yield O-C = $-0^d.0821$. Those who plan to observe this system should make allowance for this discrepancy if they use the SAC 54 quadratic elements.

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