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V471 TAURI ECLIPSE TIMINGS

Further timings of the eclipse of the white-dwarf member of the V471 Tauri system are reported. The observations were obtained with the two-channel photometer at the f/16 Cassegrain focus of the 61 cm. Fick Observatory reflector. Simultaneous measurements in V and R bands provide compensation for varying sky conditions and guiding errors. An integration time of four seconds was employed for both bands.

Table I  
 V471 Tau Occultation Timing

UT DATE	EPOCH <sup>(a)</sup>	tmid <sup>(b)</sup> MJD	$\Delta t_s$ <sup>(c)</sup> (sec)	O-C <sup>(d)</sup> (sec)	O-C <sup>(e)</sup> (sec)
1-03-87	11874	46798.09374	358	-308	-11
1-27-87	11920	46822.08823	187	-303	-5
1-28-87	11922	46823.11062	179	-301	-3

- (a) As given by ephemeris of Young and Lanning (1975).
- (b) Heliocentric mid-eclipse time given in modified Julian date. Estimated errors are  $\pm 5$  sec. = 0.00005 days.
- (c) Observer's solar correction for time of observation.
- (d) C based on ephemeris of Young and Lanning.
- (e) O-C of three body model of Beavers et al. (1986).

Table I lists the results of these timings. The next to last column contains the O-C values calculated from the Young and Lanning (1975) ephemeris. The final column contains O-C values of the three-body model of Beavers et al. (1986). With assumed timing errors of  $\pm 5$  seconds, the results suggest that the Young and Lanning ephemeris O-C curve may be passing through or near its minimum as predicted by the three-body model. Additional eclipse timings over the next several years are needed to confirm this. Such data would be very useful in attempting a refinement of the present three-body orbit.

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