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PHOTOELECTRIC PHOTOMETRY OF V711 TAURI DURING 1979

Photoelectric observations of the double star V711 Tauri (HR 1099) were made at Kutztown State College Observatory with the f/14.5 46-cm Cassegrain reflector. An unrefrigerated EMI 6256-SA photomultiplier (S-13 surface) was used in conjunction with a standard V filter. Transformation to standard V magnitude was accomplished using a value of  $\zeta = -0.04$ . The comparison star chosen was 10 Tauri, which has been used by most previous observers of V711 Tauri.

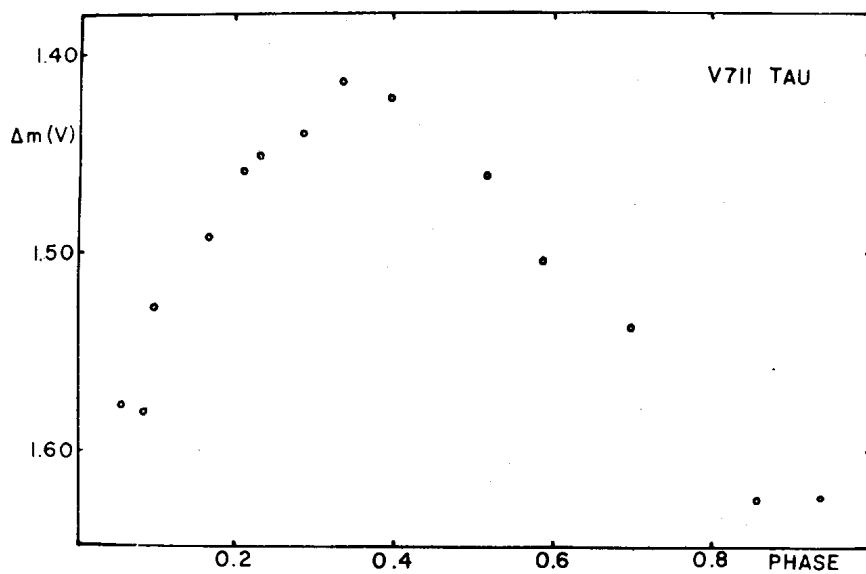
Observations were made on 14 nights from February 2 to March 19, 1979. Each is the mean of three individual readings. Phases have been calculated using the ephemeris:

$$\text{Hel. JD } 2442766.069 + 2.83782 E.$$

The observations are as follows:

Hel. J.D.	Phase	$\Delta m(V)$	Hel. J.D.	Phase	$\Delta m(V)$
2443907.528	0.231	1.452	2443916.501	0.393	1.423
908.537	0.586	1.505	918.501	0.098	1.529
909.509	0.929	1.626	921.520	0.162	1.493
910.519	0.285	1.440	922.517	0.513	1.462
913.494	0.333	1.415	940.519	0.857	1.625
914.520	0.695	1.538	941.521	0.210	1.460
915.545	0.056	1.578	952.525	0.088	1.581

The total amplitude appears to be about 0.20 mag., which is somewhat larger than that reported by Landis et al. (1978) for observations made during late 1976 and early 1977. The mini-



imum of the light curve occurs at about 0.35 phase, and for epoch 1979.15 a value of  $\theta(\text{min}) = 0.85$  is obtained. Thus direct migration of the wave minimum, as opposed to the retrograde motion first suspected, is confirmed by this finding.

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Reference:

Landis, H. J., Lovell, L. P., Hall, D. S., Henry, G. W., and Remer, T. R., 1978, *Astron. J.*, vol. 83, p. 176