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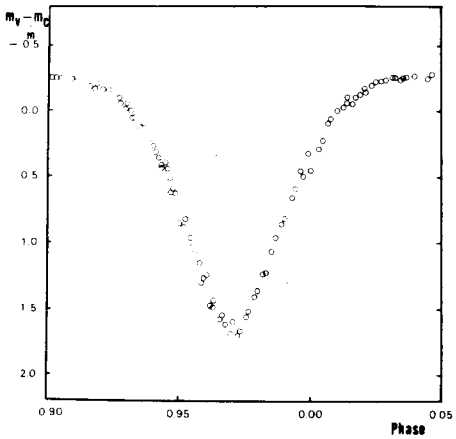
PHOTOELECTRIC MINIMA OF THE ECLIPSING VARIABLE T LEO MINORIS

The 10th magnitude eclipsing variable T LMi was observed photoelectrically with the 36-inch reflectors at the Dodaira Station of Tokyo Astronomical Observatory and at the Okayama Astrophysical Observatory on twenty nights during the winters of 1972-73 and 1973-74. The standard UBV colour filters were used. BD+34°2032 was used as the primary comparison star through the observations, and BD+33°1905 was occasionally observed for checking the constancy of the comparison star.



The whole UBV light curve was covered and it is found that the depth of the primary minimum in V is $1^m.92$, being different from the value $2^m.48$ previously reported by McDiarmid, Princ. Contr. 7, 43, 1924. The corresponding depths in U and B are $2^m.76$ and $2^m.50$ respectively. A shallow secondary minimum was also detected. The figure shows the light variation in V for the primary minimum. Two epochs of the observed minima were obtained as

JD(Hel) 2441725.1811, O-C = $-0^d.0890$,
and JD(Hel) 2442042.2719 O-C = $-0^d.0912$,

where the O-C residuals are calculated from the light elements JD 2423856.323+$3^d.0199336$E taken from the GCVS (1970).

Further photoelectric observations are being done. Some image-intensified coudé spectra were also taken with the 74-inch reflector at the Okayama Astrophysical Observatory.

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