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PHOTOELECTRIC OBSERVATIONS OF UW Cma

BV photoelectric observations were carried out with the 20 cm refractor at the Kanagawa Education Centre, Japan, on 68 nights during the winters of 1973, 1974 and 1975.

The photometer is furnished with the Hitachi 1P21 photomultiplier tube and Schott filters BG12+GG13 (for B) and GG14 (for V). HD54669 (BD-23^o4949, Sp=B3V) was used as the comparison star throughout the course of the observations and Johnson's standard stars were observed on each night.

For the photometric reduction to the standard BV system the following formulae were used:

$$\Delta V = \Delta v - k_v \cdot \Delta F(z) + \epsilon \cdot \Delta(b-v),$$

$$\Delta(B-V) = \mu \{ \Delta(b-v) - k_{bv} \cdot \Delta F(z) - k'_{bv} \Delta [F(z) \cdot (b-v)] \}.$$

The photometric constants are $\epsilon = -0.111$ and $\mu = 1.080$ for the observations from November 24 to December 16, 1974 and $\epsilon = -0.144$ and $\mu = 1.094$ for the observations from December 20, 1974 to January 13, 1976. New light elements from the present observations are

$$\text{Min.I} = \text{Hel.JD } 2442424.014 + 4.39341 \cdot E.$$

It is interesting to note a strange hump at the phase 2.5 days which can be seen on both light curves in B, V.

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