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PHOTOGRAPHIC OBSERVATIONS OF AT Cnc IN 1983/84

Photographic observations of AT Cnc were carried out in November, 1983 through March, 1984, with 18-cm Schmidt camera in two colours. 103a-0 emulsion with sharp cut filter at 3900Å, and Tri-X emulsion with yellow-green filter were used for photographic and visual magnitudes, respectively. The photographic magnitudes of comparison stars by Götz (1983) were used, and their visual magnitudes were determined by the author. The results are shown

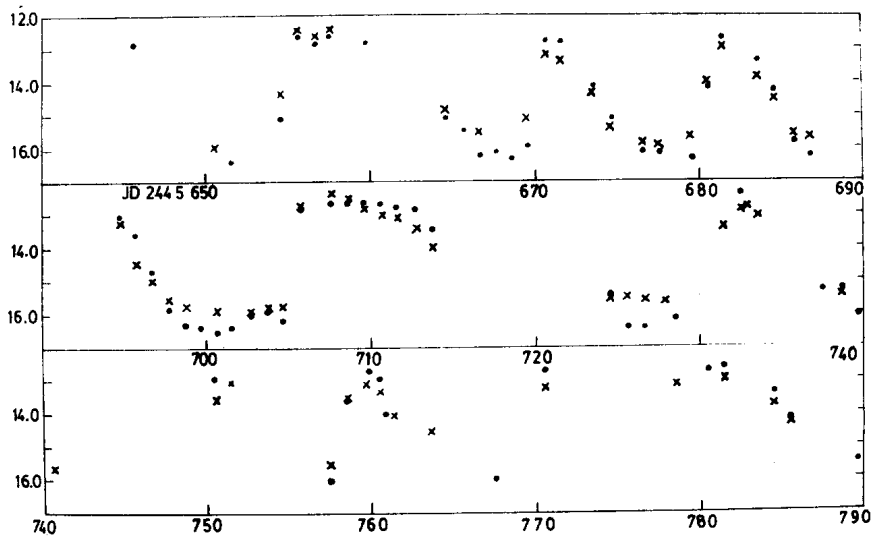


Figure 1

in Figure 1, in which photographic magnitudes are by dots and visual magnitudes by crosses.

The light curve shows fairly regular variation with the period of $12^{\text{d}}.5$. The amplitudes are $12^{\text{m}}.5-16^{\text{m}}.0$ (visual) and $12^{\text{m}}.5-16^{\text{m}}.5$ (photographic). I like to point out that the light curve is very much similar to that of the dwarf nova and X-ray emitting star, HL Cma, in their amplitude, period and the behavior of variation, having broad and narrow maxima irregularly.

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Reference:

Götz, W., 1983, I.B.V.S. No. 2363