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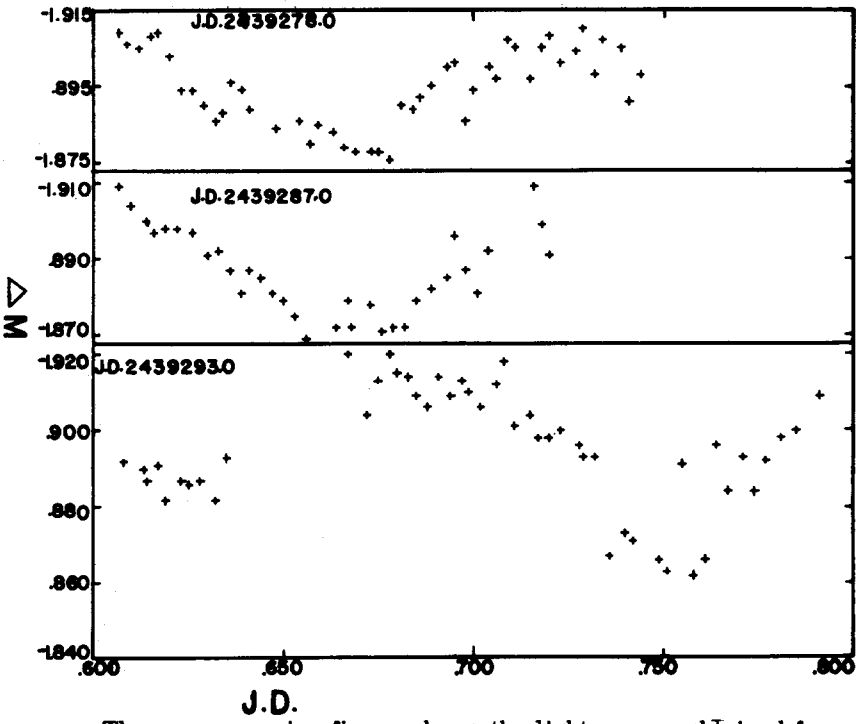
LIGHT VARIABILITY OF 20 CANUM VENATICORUM

At the AAS-NASA Symposium on the Magnetic and Other Peculiar and Metallic-Line A Stars Robert C. Cameron suggested that 20 C Vn (HD 115604 [FO]: $\alpha = 13^h\ 13^m.1$, $\delta = +41^\circ\ 6'$ [1900]) might be a Delta Scuti type star because it showed high metal indices. To investigate this suggestion we have observed it photoelectrically with a twelve inch reflector on three nights. The photometer used an EMI 6094 with Schott GG13 plus Corning 5030 filters.

Two comparison stars were used, HD 116127 and HD 114905. There was no evidence of variation of the comparison stars during the course of any night, although the third night was rather poor and showed appreciable scatter. The magnitudes for HD 114905 were converted to values equivalent to the magnitudes of HD 116127 by subtracting the mean difference between the comparison stars for each night. The mean differences for the three nights were $0^m.355$, $0^m.362$ and $0^m.347$. The differences between the comparison stars observations yielded a mean probable error for a single difference of $0^m.008$.



The accompanying figure shows the light curves obtained for three nights. It appears that 20 C Vn is variable with an amplitude of about $0^{m}.03$ magnitude. The observations are too limited to derive an accurate period or even to establish that the variation is periodic. However, from the individual curves a period of about 0.13 day may be inferred. The light variation and spectral type indicate that 20 C Vn is a Delta Scuti variable.

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W. H. WEHLAU
S. C. N. CHEN G. SYMONDS
University of Western Ontario
London, Ontario, Canada

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