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PHOTOGRAPHIC LIGHT ELEMENTS OF TX Cnc

Haffner¹ demonstrated that TX Cnc is a variable of the W Uma type. Properties of the system, which is a member of the Praesepe cluster, have been discussed by various authors (2, 3, 4). TX Cnc is a zero age W Uma variable and its position in the period colour diagram defies current theoretical explanation (5). It may be that a new spectroscopic determination of the masses of the components is desirable.

With this in mind, photographic observations were made at Herstmonceux using the 26" f/10 refractor and IIAO emulsion to check existing light elements. This system is a good approximation to the B magnitude. The plates were reduced by iris photometer against Johnson's (6) magnitudes for Praesepe and give $B = 10.65 - 11.02$. Combined with Haffner's light elements quoted by Popper (3), the new observations give

$$JD_{\min} = 2440\ 597.7605 + 0^d 3828813 \\ \pm 25 \qquad \qquad \qquad \pm 3$$

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