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SPECTROSCOPIC OBSERVATIONS OF V389 CYGNI

Hoffleit (1977) has recently called for intensive new spectroscopic and photometric observations on V389 Cygni. This star was on the spectroscopic program of the David Dunlap Observatory from 1971-1974. During that time about 100 12\AA mm^{-1} spectrograms were obtained. The analysis of this material is still underway, but it is possible to make a few preliminary comments.

Periods shorter than the 3.3^{d} period found by Young are not present. The 3.3^{d} period is present in our data set, but the scatter about the velocity curve is enormous considering the quality of the spectra - $\underline{v\sin i} < 15 \text{ km s}^{-1}$. However, multiple plates taken on a single night do not show this scatter. They are found to fit the mean velocity curve well provided a different V_0 is adopted for each night. I have therefore concluded that the system is triple. The long period may be $\sim 150^{\text{d}}$, but periods of $\sim 110^{\text{d}}$ and $\sim 270^{\text{d}}$ are also possible.

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References:

- Hoffleit, D. 1977, I.B.V.S. No. 1283
Young, R.K. 1921, Pub. D.A.O. 1, 319