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TAU CYGNI

The star Tau Cyg, reported as suspected Delta Scuti variable (Pant et al. 1968, Frolov 1970, Kukarkin 1974), was observed photoelectrically in 6 nights since July 25, 1978 to October 9, 1979 with the UBV photometer described by Piccioni (1972) mounted on the 60 cm reflector telescope of the Bologna Observatory.

Sigma Cygni was used as comparison star. In the Table are reported the mean UBV magnitudes of Tau Cyg deduced from the

Table I

J.D.	$N_{\text{mis.}}$	V	B-V	U-B
2443715.385	3	$3.711 \pm .006$	$.411 \pm .008$	$.034 \pm .008$
.425	5	$3.709 \pm .006$	$.414 \pm .008$	$.029 \pm .008$
2443718.380	4	$3.722 \pm .005$	$.411 \pm .007$	$.021 \pm .008$
.413	5	$3.723 \pm .002$	$.413 \pm .003$	$.021 \pm .004$
.445	6	$3.717 \pm .002$	$.411 \pm .003$	$.019 \pm .004$
2443736.431	6	$3.722 \pm .002$	$.420 \pm .002$	$.011 \pm .003$
.468	2	$3.730 \pm .005$	$.421 \pm .006$	$.010 \pm .007$
2443738.395	5	$3.707 \pm .004$	$.414 \pm .006$	$.022 \pm .006$
.430	3	$3.72 \pm .01$	$.41 \pm .01$	$.03 \pm .01$
.452	5	$3.703 \pm .007$	$.408 \pm .008$	$.019 \pm .008$
.481	4	$3.718 \pm .003$	$.415 \pm .006$	$.022 \pm .006$
.528	3	$3.705 \pm .008$	$.41 \pm .01$	$.02 \pm .01$
.554	1	$3.71 \pm .01$	$.42 \pm .01$	$.02 \pm .01$
2443747.355	4	$3.704 \pm .004$	$.417 \pm .005$	$.022 \pm .006$
.372	4	$3.718 \pm .004$	$.415 \pm .004$	$.027 \pm .006$
2444156.410	5	$3.697 \pm .001$	$.418 \pm .002$	$.023 \pm .002$
.433	7	$3.695 \pm .003$	$.419 \pm .004$	$.022 \pm .004$
.468	8	$3.694 \pm .003$	$.416 \pm .003$	$.022 \pm .003$

magnitudes of Sigma Cyg published by Iriarte et al. (1965). A systematic calibration error of $0^m.02$ could be present in addition to the standard errors of the mean.

The present observations confirm that the star is certainly variable with an amplitude of about $0^m.02$; we do not find evidence of the period $0^d.143$ suggested by Paraskevopoulos (1921) and Henroteau (1922).

Considering all the available observations and the Abt (1961) remark against a rotational explanation of the variability, Tau Cyg seems to be a Delta Scuti star of variable-period type according the Breger (1979) classification with asymmetric light and velocity curves.

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