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θ^2 TAURI A POSSIBLE NEW δ SCUTI STAR

Photoelectric observations of θ^2 Tauri (HR 1412) were obtained during a 3 hour period on 31 December 1976 with the 40 cm reflector on Tortugas Mountain using a dry ice cooled 1P21. Observations were made in V only using θ^1 Tauri as the comparison star. θ^2 Tauri has been listed as a member of the Hyades by both van Bueren (1952, VB72) and van Altena (1966, VA491).

The variability had an amplitude of approximately 0.03 magnitude with a period of 0.07 day. Thus the star seems to belong to the δ Scuti class. Using the (b-y) color index as listed by Lindemann and Hauck (1973) and the P-C-L relation for δ Scuti stars given by Breger and Bregman (1975) one finds the absolute magnitude of θ^2 Tauri to be 1.26 magnitudes. This is comparable with the spectral classification of A7 IV as given by Iriarte et al. (1965).

Further observations are needed to confirm the variability.

STEPHEN HORAN

Department of Astronomy
New Mexico State University
Las Cruces, New Mexico 88001
U.S.A.

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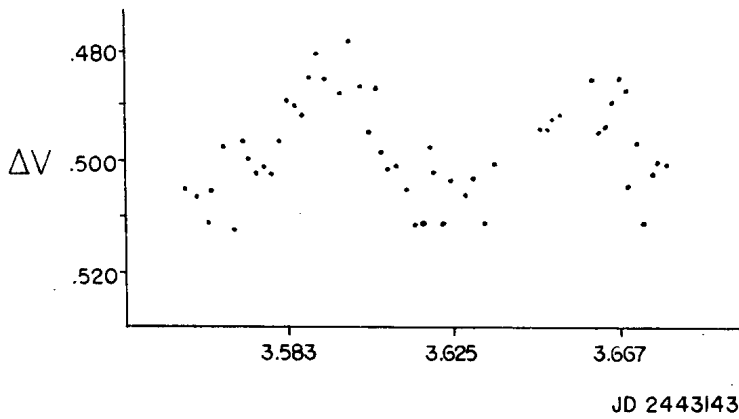


Figure 1. The light curve of θ^2 Tauri. Each point represents a single magnitude difference in the sense variable minus comparison.