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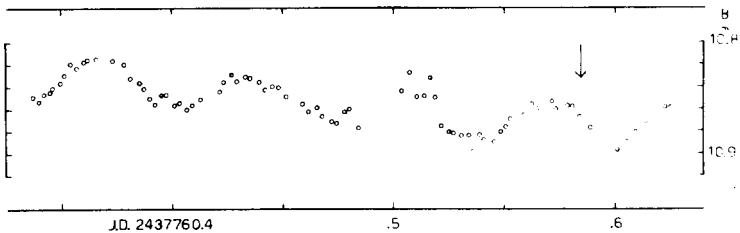
Konkoly Observatory
Budapest
1973 September 1

A DELTA SCUTI COMPONENT IN THE BINARY SYSTEM
Y CAMELOPARDALIS

B and V photometric observations of the eclipsing binary Y Cam have been obtained with the 102-cm reflector of the Merate Observatory from 1961 to 1970. The mean light curves display that, out of the deepest part of the primary minimum, small brightness fluctuations lay upon the main light variation produced by the eclipse. Therefore the warmer A7V component of the system seems to be a variable star. The total amplitude of the fluctuation can reach $0^m.04$, as we can see from the figure where the arrow indicates the central instant of the secondary minimum and it has a mean period of $0^d.063$.

However the plot of the single night runs displays that the amplitude of the fluctuation can reduce also to zero and that the period can also deviate by $0^d.01$ around the mean value. The photometric behaviour and the spectral type give evidence that the principal component of Y Cam is a Delta Scuti variable.

The detailed observations, a study of the variation of the orbital and Delta Scuti periods and a derivation of the elements will be published elsewhere.



August 20, 1973

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