## COMMISSION 27 OF THE I. A. U. INFORMATION BULLETIN ON VARIABLE STARS

Number 2771

Konkoly Observatory Budapest 7 August 1985 *HU ISSN 0374 - 0676* 

## THE J LIGHT CURVE OF CG CYGNI

We present the J light curve of the eclipsing binary CG Cygni (P=0.63) obtained with the 1.5 m infrared flux collector at the Observatorio del Teide, Tenerife, using a cooled InSb detector. The data were obtained during 4 out of 5 consecutive nights in September 1984. The comparison star was BD+34 $^{\circ}$ 4216 and the principal standard star was BS8430.

In Figure 1 is the J light curve of CG Cygni with the differential magnitude plotted against the phase, calculated using the ephemeris of Milone and Ziebarth (1974)

JD(phase=0) = 2439425.1221 + 0.6311410 E.

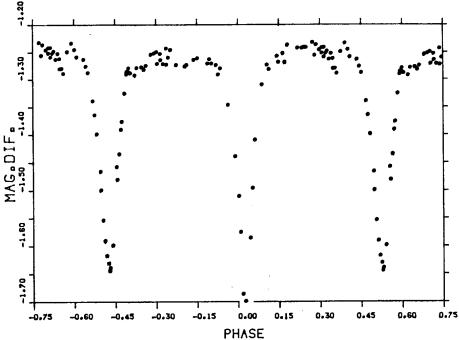


Figure 1: J light curve of CG Cygni.

The J light curve shows the asymmetry of the minima that has been previously observed in optical curves of CG Cygni (Milone et al. 1979; Jassur, 1980) and some other short period RS CVn-type binaries. Figure 1 also shows that the minima have advanced in phase by about 2.5% since 1966, confirming conclusively the progressive change first noted by Milone et al. A fuller account of this work is being prepared for publication.

J.J. FUENSALIDA, M. J. AREVALO
Instituto de Astrofisica de Canarias
La Laguna
Tenerife, Spain

D. K. BEDFORD

Dept. of Space Research

University of Birmingham

Birmingham, U.K.

## References:

Jassur, D.M.Z.; 1980, Astrophys. Space Sci. 67, 19.
Milone, E.F., Ziebarth, K.E.: 1974, Pub. Astron. Soc. Pacific 86, 684.
Milone, E.F., Castle, K.G., Robb, R.M., Swadron, D., Burke, E.W., Hall, D.S.,
Michlovic, J.E., Zissell, R.E.: 1979, Astron. J. 84, 417.