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

Number 2130

Konkoly Observatory
Budapest
1982 April 28

*HU ISSN 0374-0676*

# NEW VARIABLE STAR IN THE $\gamma$ CYGNI REGION

On the observational material ($T_{eff} = 116^h$) obtained with the 20in./28in. Schmidt-telescope of National Astronomical Observatory at Rojen a new variable star was discovered in the $\gamma$ Cygni region (the plates were centered at BD+40°4165).

The coordinates of this star for 1950.0 are:

$$R.A. = 20^h15^m.1, \quad D = 42^\circ49.1$$

The observational material is obtained on emulsion ORWO ZU21 with UG2 filter by the method of multiple exposures giving a possibility to observe quick variability of the order of 10 minutes time resolution. The magnitude variations of this star in U-light were:

$m_{U\ max} = 16^m.4$, $m_{U\ min} > 17.5$ (i.e. the star becomes fainter than the limit of our patrol plates).

It has been found that the star shows sharp Algol-like minima of one night duration. We suppose that the probable type of variation is EA.

Between September 1979 and October 1981 we observed a few minima of the star. We give the moments of observations, when the star was found in minimum brightness:

JD 2444495.208
....763.465
....814.470
....820.533
....846.262
....897.199

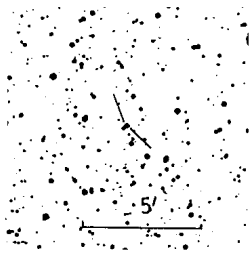


Figure 1

The identification chart of the variable star obtained from a $40^{in}/52^{in}$. Schmidt plate (Kodak 103aF + RG610 filter, 60 minutes exposure) is presented in Figure 1.

KATYA P. TSVETKOVA

Department of Astronomy with
National Astronomical Observatory,
Bulgarian Academy of Sciences
Sofia-1184, Lenin Str. 72
Bulgaria