

COMMISSION 27 OF THE I. A. U  
INFORMATION BULLETIN ON VARIABLE STARS  
NUMBER 186

Konkoly Observatory  
Budapest  
23 February 1967

V 439 OPHIUCHI, A CEPHEID WITH SECONDARY PERIOD

This variable star was observed since 1931 by Tsessevich (1,2), Hoffmeister, Piotrovski (3), and Storch (4). Hoffmeister classified the star as RRc. Storch determined the following correct elements:

$$\text{Max} = \text{JD } 2438942.915 + 1.^d_{893} \text{ E}$$

I estimated the variable on 117 Odessa sky patrol plates in the interval J.D 2436378 - 2438964. All the observations were used for improving the elements to

$$\text{Max} = \text{JD } 2438942.859 + 1.^d_{892958} \text{ E}$$

My observations show a large scatter. The variable seems to be similar to TU Cas. Therefore, I looked for a secondary period or for a beat period which resulted from the combined effect of a primary and a secondary period. The value of the beat period finally adopted is:

$$P_b = 2.441 \quad P_o = 4.62 \text{ days.}$$

However, photoelectric observations are needed for corroborating these results.

Odessa Astronomical Observatory

E. B. GUSEV

References:

1. V. P. Tsessevich AN 247, 5911
2. V. P. Tsessevich Izv. Odessa Astron. Observ. II, II, 116, 1952
3. S. Piotrovsky, Acta Astronomica Suppl. 5, 584, 1962
4. C. Storch PASP 78, 462, 210, 1966