

COMMISSION 27 OF THE I. A. U  
INFORMATION BULLETIN ON VARIABLE STARS  
NUMBER 85

Konkoly Observatory  
Budapest  
8 March 1965

DOUBLE-LINED ECLIPSING BINARY  
BV 382 CEPHEI HD 205372

This star was previously announced as an EW binary having the period  $0.^d.483$ ; (1) (2) (3).

Spectroscopic and photoelectric observations made respectively at the Astrophysical Observatories of Asiago and Bologna show that the variable is a double-lined system whose period is approximately twice the old one. The spectral types of both components are about AO V, so that the binary belongs to the beta-Lyrae type.

The following preliminary elements have been derived;

$$P = 0.^d.936171$$

$$T_0 = 2438225.6858 \text{ JD (primary minimum)}$$

$$e = 0.00, V_0 = -22 \text{ km/s}, i = 71^\circ$$

$$K_1 = 172 \text{ km/s}, K_2 = 187 \text{ km/s}$$

$$a_1 = 2.3 \times 10^6 \text{ km}, a_2 = 2.5 \times 10^6 \text{ km}$$

$$r_1 = 1.8 \times 10^6 \text{ km}, r_2 = 1.7 \times 10^6 \text{ km}$$

$$m_1 = 2.7 \odot, m_2 = 2.5 \odot$$

$$\varphi_1 = 0.16 \odot, \varphi_2 = 0.16 \odot$$

Further results will be given in a paper which is now in print.

References:

- 1/ I.B.V.S. No.22, 1963.
- 2/ Bamberg Veröff. , Bd. V. Nr. 17, 1963.
- 3/ Sky and Telescope, XXVI. 264, 1963.

Astrophysical Observatories  
Asiago and Bologna  
February 11, 1965

C. BARTOLINI  
A. MAMMANO  
G. MANNINO  
R. MARGONI

*Remark to Bulletin No. 80*

On the little chart the variable is hardly to be recognized as a small ring. The variable is the star 9.4 mm from the right side and 3.8 mm from below.

C. HOFFMEISTER