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## PRELIMINARY ORBITAL ELEMENTS FOR THE NEGLECTED VARIABLE STAR V1256 CYG - PHOTOGRAPHIC SOLUTION -

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The variability of V1256 Cyg was found, on the ground of photographic observations, by Walter J. Miller S.J. [1] about thirty years ago.

After these photographic observations this star was neglected by the observers, so we have used the only data available at today to determine its preliminary orbital elements at  $\lambda$  4250 Angstrom.

V1256 Cyg = VV 228 is classified in the G.C.V.S. IV ed. [2] as eclipsing binary star of EW type with range of variation between 13,8 - 14,3 mag. Secondary minimum at 14.1 mag. and period  $P = 0.5404102d$ , no spectrum is known and no more bibliography is available.

With the aid of the SNIFFER code [3] the input parameters for Binary Maker [4] were calculated and the temperature ratio was detected.

The best elements of the fit are shown in table 1.

In figure 1 we can see the light curve from Binary Maker, superimposed to the observational one.

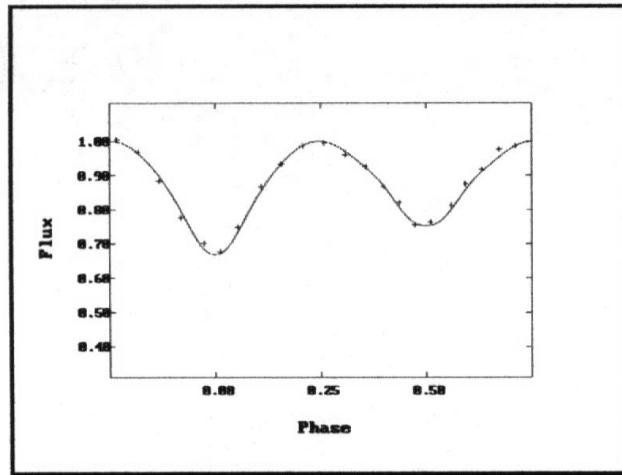
In figure 2 we have shown the system aspect at the phase 0.24.

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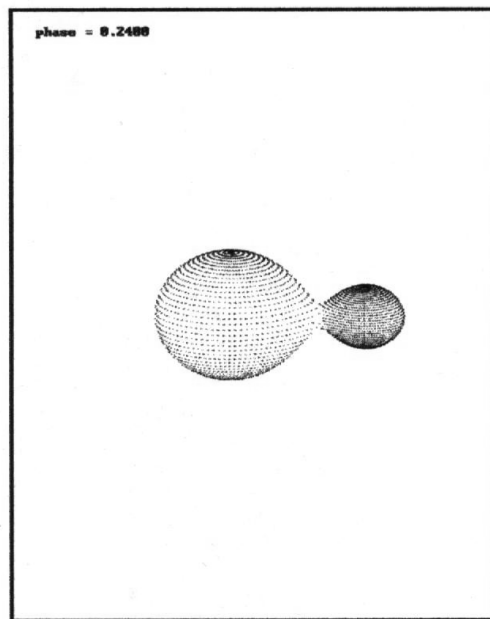
$$\begin{aligned} q &= 0,201 \pm 0,021 \\ f &= 0,301 \pm 0,044 \\ i &= 76^\circ \pm 0,51^\circ \\ T2/T1 &= 0,831 \\ \text{Mean R1} &= 0,536 \pm 0,017 \\ \text{Mean R2} &= 0,265 \pm 0,008 \\ L1 &= 0,896 \pm 0,019 \\ L2 &= 0,104 \pm 0,019 \end{aligned}$$

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**Table 1 - Orbital parameters for V1256 Cyg**



*Fig.1* The light curve from Binary Maker (example model), superimposed to the original one (points).



*Fig.2* Three-dimensional model of the system at phase 0,24.

#### **BIBLIOGRAPHY**

- [1] Walter J. Miller S.J., 1969, *Ricerche Astronomiche*, 7,16.
- [2] Kolopov P.N. et All., 1985, *General Catalogue of Variable Stars IV edition*, Nauka publishing House.
- [3] Gaspani A., 1996, Private communication
- [4] Bradstreet H. David, 1993, *Binary Maker 2.0 User Manual*, Contact software