

The Binary system V380 Cygni

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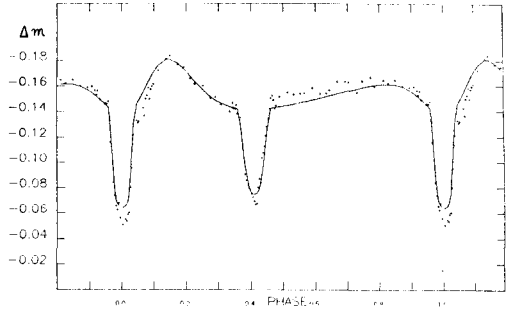
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This binary system, according to Semeniuk and Paczynski (1971), is very interesting because it is probably in a phase of rapid evolution through the Hertzsprung gap in the HR diagram and shows apsidal motion (Battistini et al. 1974).

The system was observed at the Bologna Astronomical Observatory in UBV because the only known light curve (Kron 1935) is insufficient to give appropriate orbital elements (Kopal 1940, Ramella et al. 1980) and it is impossible to fit photometric elements with spectroscopic results (Batten 1962). The observations started in 1970 and ended in 1973; in 1980 the system was reobserved to complete light curve coverage.

We report here the normal V light curve (dots) superimposed to a predicted light curve (continuous line) obtained with WINK code updated to Status report no.10 (Wood 1971,1980) using Hill and Batten (1984) elements.



References :

- Batten, A.H.:1962, Pub. Dom. Obs. Victoria 12,91
Battistini, P., Bonifazi, A., Guarnieri, A.:1974,
Astrophys.Space Sci.30,163
Hill, G., Batten, A.H.:1984, Astron. Astrophys., 141,39
Kron, G.E.:1935, Astrophys J. 82,255
Kopal, Z.:1940, Harvard Coll.Obs.Circ. No. 441,1
Ramella, M., Giuricin G., Mardirossian F., Mezzetti M.:1980,
Astrophys.Space Sci.71,385
Semeniuk, I., Paczynski B.:1968, Acta Astronomica 18,33
Wood, D.B.:1971, Astron. J., 76,701
Wood, D.B.:1980, Status report 10, private communication.

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