

# Differential UBV observations of the CP3 star HD89822

M. Zboril

*Astronomical Institute of the Slovak Academy of Sciences  
059 60 Tatranská Lomnica, The Slovak Republic*

Received: October 20, 1993

**Abstract.** Within the framework of investigation the photometric behaviour of CP3 stars we present differential UBV observations of the star HD89822 obtained at Skalnaté Pleso observatory for periods 1991 - 1993. The period 7.5586 days suggested by Catalano and Leone (1991) is not confirmed using these observations.

**Key words:** stars - chemically peculiar - photometry

## 1. Introduction

The CP3 star HD 89822 (HR4072, A0 HgSiSr) was selected from the paper of Gerbaldi, Floquet and Hauck (1985) to investigate the photometric period amongst Hg-Mn spectroscopic binaries to check the period 7.5586 days discovered by Catalano and Leone (1991). The results of the investigation are published in Zboril and Budaj (1993).

## 2. Observations

A Latex version of table 1 gives the unpublished instrumental UBV observations of HD 89822. The comparison star was HD 88983 (HR 4026, A8III). Details on the sequence of observations and reduction process are given also in Zboril and Budaj (1993). Only observations in 25 nights were used from the overall number of 41 nights obtained at Stará Lesná and Skalnaté Pleso observatories. Here data from Skalnaté Pleso are prepared since they demonstrate more clearly no photometric variations within 0.01 mag in comparison with the data from Stará Lesná observatory. We give an sample of observations (1 night) in tab.1. The complete data of table 1 are stored on diskette and can be sent upon request (e-mail address: astrmizb@asu.savba.sk).

---

Contrib. Astron. Obs. Skalnaté Pleso **24**, (1994), 141–142.

Table 1. Journal of observations

Skalnáté Pleso					
<i>JD</i> + 2400000.	U		B		V
48534.54382	-1.256	48534.54399	-1.017	48534.54415	-0.840
48534.54466	-1.245	48534.54482	-1.022	48534.54498	-0.829
48534.55137	-1.256	48534.55153	-1.026	48534.55169	-0.825
48534.55201	-1.251	48534.55217	-1.023	48534.55233	-0.828
48534.55907	-1.252	48534.55923	-1.021	48534.55939	-0.829
48534.55969	-1.254	48534.55985	-1.018	48534.56002	-0.828
48534.56809	-1.249	48534.56826	-1.017	48534.56842	-0.833
48534.56893	-1.253	48534.56909	-1.023	48534.56925	-0.837
48534.57528	-1.247	48534.58232	-1.022	48534.57561	-0.835
48534.57592	-1.249	48534.58294	-1.023	48534.57624	-0.836
48534.58216	-1.260	48534.59064	-1.025	48534.58248	-0.833
48534.58278	-1.256	48534.59127	-1.024	48534.58330	-0.835
48534.59048	-1.255	48534.59811	-1.020	48534.59080	-0.836
48534.59110	-1.252	48534.59873	-1.018	48534.59143	-0.836
48534.59794	-1.262	48534.60664	-1.026	48534.59827	-0.831
48534.59857	-1.261	48534.60726	-1.018	48534.59889	-0.830
48534.60647	-1.257	48534.61385	-1.020	48534.60680	-0.830
48534.60710	-1.255	48534.61466	-1.022	48534.60742	-0.836
48534.61368	-1.246	48534.62080	-1.026	48534.61401	-0.833
48534.61449	-1.256	48534.62143	-1.020	48534.61482	-0.831
48534.62064	-1.250			48534.62096	-0.833
48534.62127	-1.249				

### References

- Catalano, F. A., Leone, F.: 1991, *Astron. Astrophys.* **244**, 327  
 Gerbaldi, M., Floquet, M., Hauck, B.: 1985, *Astron. Astrophys.* **146**, 341  
 Zboril, M., Budaj, J.: 1993, *Inf. Bull. Var. Stars*, No. 3913