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CCD PHOTOMETRY OF THE SX PHOENICIS STAR BL CAMELOPARDALIS

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Name of the object:	
BL Cam = GD 428	
Equatorial coordinates:	Equinox:
R.A. = 03 ^h 47 ^m 19 ^s .0 DEC. = +63°22'46"	2000
Observatory and telescope:	
Ondřejov Observatory, 0.65-m reflecting telescope	
Detector:	Apogee AP7 CCD camera in primary focus, Peltier cooled
Filter(s):	V
Date(s) of the observation(s):	
November 2001 - September 2002	
Comparison star(s):	GSC 4067.0077, GSC 4067.0071, GSC 4067.0748
Availability of the data:	
Upon request.	
Type of variability:	DSCT, SX Phe
Remarks:	
We cannot confirm the result of Hintz et al. (1997) that the star has a constantly increasing pulsational period. See the <i>O – C</i> diagram (drawn using all the data from the literature) enclosed. This star deserves a continuous monitoring.	
Acknowledgements:	
This work was supported by the research plan J13/98: 113200004 Investigations of the Earth and the Universe. This research has made use of the SIMBAD database, operated at CDS, Strasbourg, France, and of NASA's Astrophysics Data System Bibliographic Services.	

Reference:

Hintz, E.G., Joner, M.D., McNamara, D.H., et al., 1997, *PASP*, **109**, 15

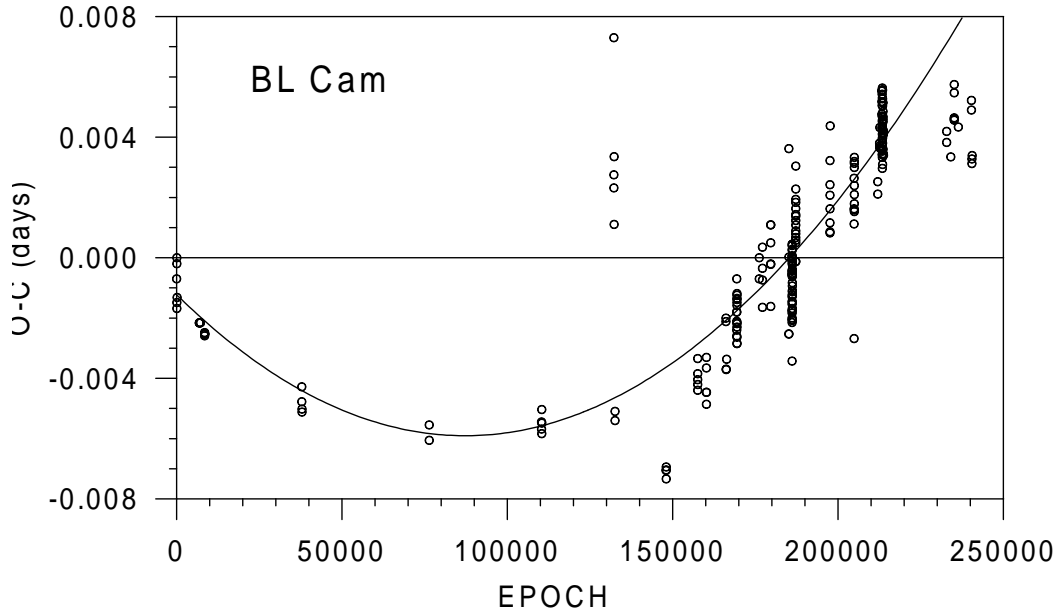


Figure 1. The $O - C$ diagram for BL Cam using the ephemeris given in Hintz et al. (1997). The solid curve is a second-order polynomial fit to all measurements of previous observers.

Table 1: New precise times of maximum light for BL Cam.

JD Hel. – 24 00000	Error [days]	Observers
52229.4277	0.0002	MB, LŠv
52229.4672	0.0002	MB, LŠv
52279.6288	0.0005	MW
52320.2527	0.0002	MC, MW
52320.2919	0.0002	MC, MW
52320.3318	0.0002	MC, MW
52320.3712	0.0002	MC, MW
52320.4091	0.0002	MC, MW
52369.3203	0.0002	MW, LŠa
52522.5843	0.0005	MW
52522.6238	0.0005	MW
52530.4021	0.0002	JŠ, OV
52530.4414	0.0002	JŠ, OV
52530.4806	0.0002	JŠ, OV