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A NEW CLASSICAL CEPHEID IN CASSIOPEIA

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Name of the object:	
Var 70 = GSC 4018.1275	
Equatorial coordinates:	Equinox:
R.A. = 0 ^h 01 ^m 46 ^s .0 DEC. = +62°25'28"	J2000.0
Observatory and telescope:	
40-cm astrograph in Crimea	
Detector:	Photoplate
Filter(s):	None
Comparison star(s):	See Fig. 1
Check star(s):	None
Transformed to a standard system:	B_{pg}
Standard stars (field) used:	B_{pg} -band standard sequence in NGC 7790 (Pedreros et al., 1984)
Availability of the data:	
Upon request	
Type of variability:	DCEP
Remarks:	
<p>The brightness of the star was estimated by eye on 853 plates taken for interval JD 2432853–49633. Periodic variability typical of a classical Cepheid was revealed. The light elements are the following:</p> $JD_{\max} = 2439051.35 + 3^{\text{d}}87845 \times E.$ <p>The variability range is 15^m45–16^m35. Max – min = 0^s27. The phased light curve is given in Fig. 2.</p>	
Acknowledgements:	
<p>This study was supported in part by the Russian Foundation for Basic Research and the Council of the Program for the Support of Leading Scientific Schools through grants Nos. 99-02-16333 and 00-15-96627.</p>	

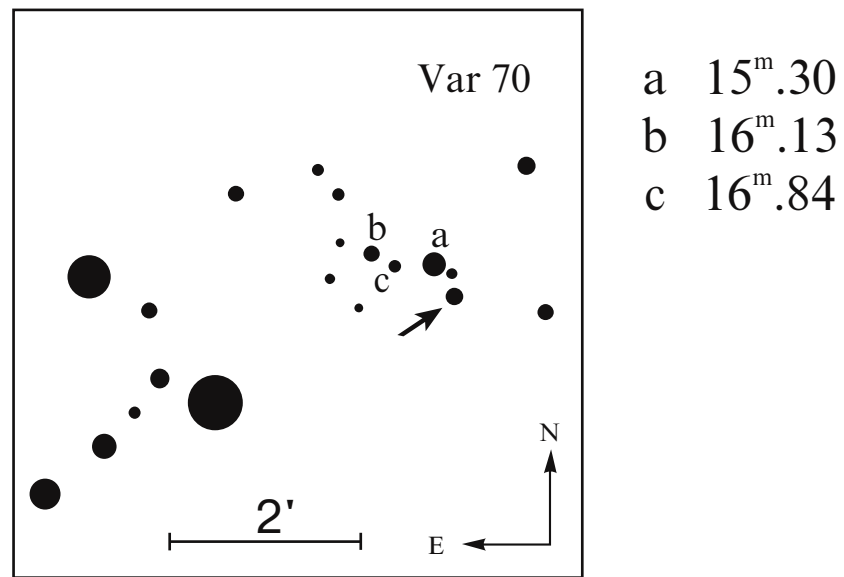


Figure 1. The finding chart and the comparison stars.

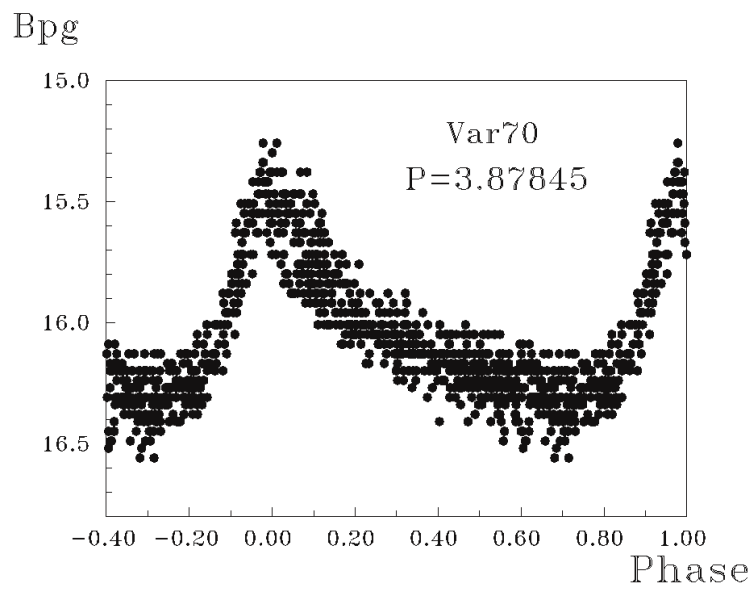


Figure 2. The phased light curve.

Reference:

Pedreras, M., Madore, B.F., Freedman, W.L., 1984, *ApJ*, **286**, 563