

## PHOTOMETRIC OBSERVATIONS OF NSV 13368

The variability of NSV 13368 was initially announced by Thorndike (1942). According to the New Catalogue of Suspected Variable Stars (Kholopov, 1982), NSV 13368 (HV 10648, CSV 005292) is an RR Lyrae variable star with a photographic magnitude variation range between 13.4 and 14.3. NSV 13368 can unambiguously be identified with star GSC 0524.0645.

From August 3 to October 29, 1995, the star was observed on 18 nights in the V band, using a Starlight Xpress CCD camera attached to the Newtonian focus of the 0.41-m telescope at Observatorio de Mollet (Spain). GSC 0524.0669 was used as comparison star, and GSC 0524.0839 and GSC 0525.1384 as check stars (see Figure 1).

These observations show that NSV 13368 is in fact an RR Lyrae star with an asymmetric light curve ( $(M-m)/P=0.12$ ), an amplitude in the V band of 0.8 magnitudes, and a period close to 13 hours and 36 minutes (Figure 2). We derived the following ephemeris:

$$\begin{aligned} \text{Max.} &= \text{HJD } 2449957.418 + 0.56684 \times E \\ &\pm 0.005 \quad \pm 0.00015 \end{aligned}$$

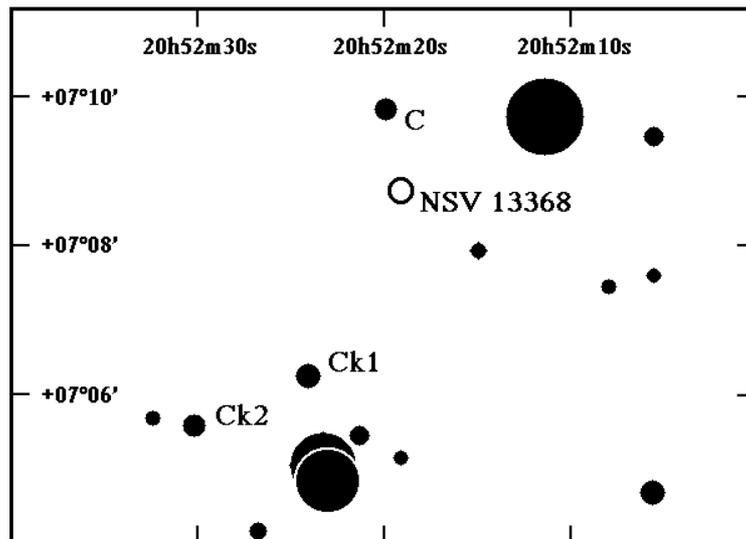
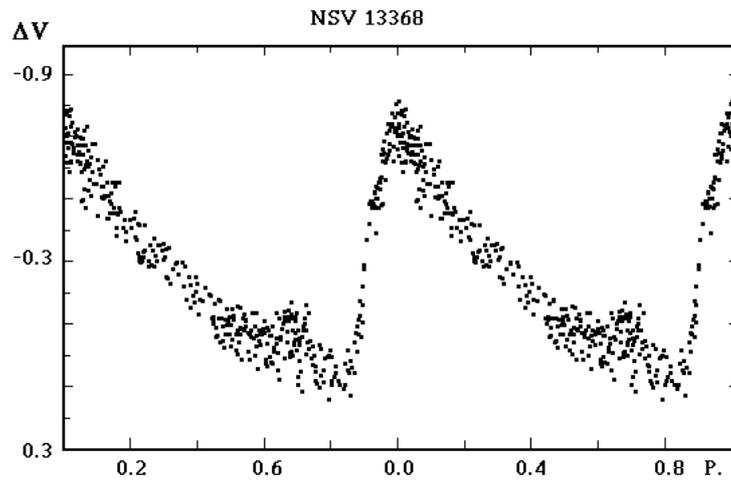


Figure 1. C = Comparison star, Ck<sub>1</sub> and Ck<sub>2</sub> = Check stars.



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References:

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Thorndike, S. L., 1942, *Bulletin of the Harvard College Observatory*, No. 916