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THE NEW CLASSICAL CEPHEID NSV 02852

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Name of the object:
NSV 02852 = HD 252611 = S 09193 = GSC 01877-00245

Equatorial coordinates:	Equinox:
R.A. = 06 ^h 10 ^m 19 ^s .34 DEC. = +24°01'15".24	2000.0

Observatory and telescope:
Els Hostalets de Pierola Observatory, 0.4-m Newtonian telescope Esteve Duran Observatory, 0.6-m Cassegrain telescope

Detector:	CCD: SX, Sony ICX027BL chip
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Filter(s):	V
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Date(s) of the observation(s):
1 October 2001 to 19 February 2002

Comparison star(s):	GSC 01877-00086
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Check star(s):	GSC 01877-00864
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Transformed to a standard system:	No
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Availability of the data:
Upon request.

Type of variability:	Cep
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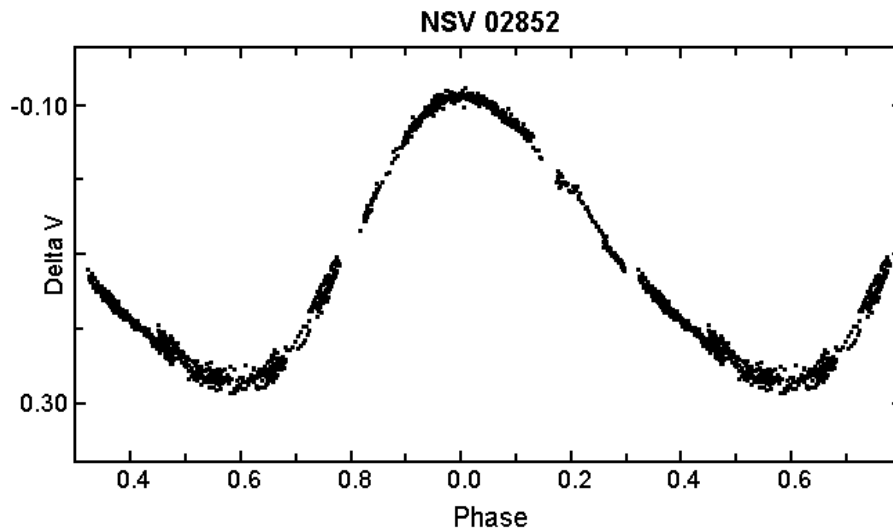


Figure 1.

Remarks:

The variability of NSV 02852 was first discovered by Hoffmeister (1966) and listed in the NSV catalogue (Kholopov, 1982), as an unstudied variable with rapid light changes. In the Henry Draper Catalogue (Cannon and Pickering, 1918-1924) this star is included with a photographic magnitude of 10.80 and an A0 spectral type. Our observations show that NSV 02852 is a classical Cepheid variable with an amplitude of 0.38 magnitudes and a period of 2.14 days (Figure 1). The following ephemeris was computed:

$$\text{HJD}_{\text{MinI}} = 2452234^{\text{d}}.46 + 2^{\text{d}}.1371 \times E. \\ \pm 0.02 \pm 0.0007$$

References:

- Cannon, A.J., and Pickering, E.C. 1918-1924, *The Henry Draper Catalogue*, Ann. Astron. Obs. Harvard College, **91-99**
 Hoffmeister, C., 1966, *AN*, **289**, 3, 139
 Kholopov, P. N., editor, 1982, *New Catalogue of Suspected Variable Stars*, Moscow

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The epoch that was given for the new classical Cepheid NSV 02852 is the time of maximum, so the ephemeris is:

$$HJD_{Max} = 2452234.46 + 2.1371 \times E$$

The correct reference of Cannon & Pickering:

Cannon, A.J., and Pickering, E.C. 1918-1924, The Henry Draper Catalogue and Extension, Ann. Astron. Obs. Harvard College, 91-100

(Although HD252611 is in the Henry Draper Catalogue, it was actually published in the HD catalogue extension.)

Enrique Garcia-Melendo