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**PHOTOMETRIC OBSERVATIONS OS NSV 07180**

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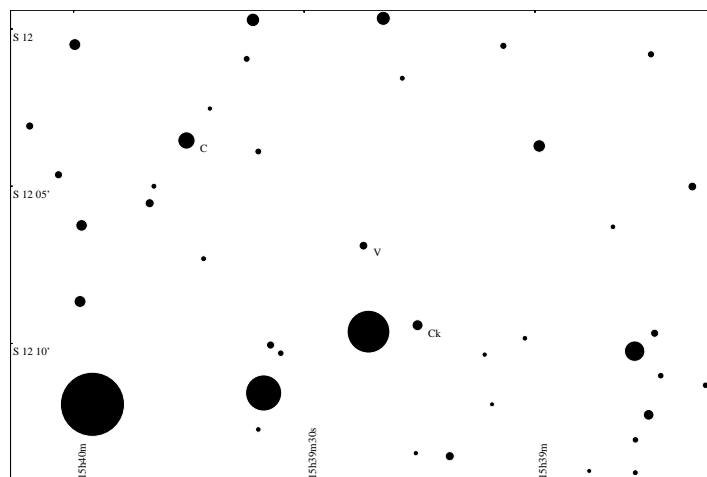
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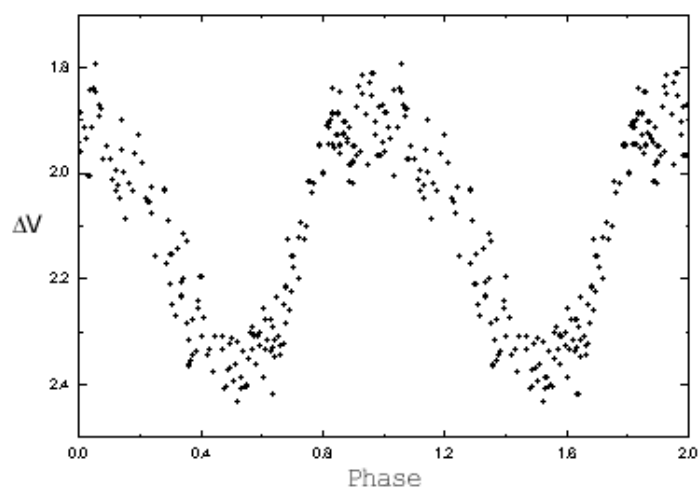
<b>Name of the object:</b>	
NSV 07180 = CSV 002403	
<b>Equatorial coordinates:</b>	<b>Equinox:</b>
<b>R.A.</b> = 15 <sup>h</sup> 39 <sup>m</sup> 23.3 <b>DEC.</b> = -12°06'47''	2000.0
<b>Observatory and telescope:</b>	
Observatorio del Departamento de Física de la Universidad de Extremadura, Reflector Newton 0.4-m f/4.5	
<b>Detector:</b>	Starlight Xpress CCD Camera (based in the chip SONY ICX027BL 6.4 × 4.35 mm <sup>2</sup> , 500 × 256 pixels)
<b>Filter(s):</b>	V (Kron-Cousins system)
<b>Comparison star(s):</b>	GSC 5604.231
<b>Check star(s):</b>	GSC 5604.564
<b>Transformed to a standard system:</b>	No
<b>Availability of the data:</b>	
Upon request	
<b>Type of variability:</b>	RR Lyr
<b>Remarks:</b>	
The results of the observations carried out show that NSV 07180 seems to be an RR Lyrae star with a period close to 7 hours. Although the data display a high dispersion, the star shows an almost symmetric light curve ( $\varepsilon = 0.48$ ) and a 0.5 magnitude amplitude in the V band. We have derived the following ephemeris for the maximum: $\text{Max} = \text{HJD } 2451342.4375 + 0^{\text{d}}2850 \times E.$ $\pm 0.0036 \quad \pm 0.0001$	

**Acknowledgements:**

This research was supported by the Consejería de Educación y Juventud (Junta de Extremadura) and Fondo Social Europeo under project IPR98A047.



**Figure 1.** Identification chart of NSV 07180. C = comparison star, Ck = Check star, V = NSV 07180. North is on the top.



**Figure 2.** The V light curve obtained for NSV 07180. Delta magnitudes (variable minus comparison) are plotted versus phase, where the phases are computed using the ephemeris calculated in this work.

Reference:

Kukarkin et al. 1982, New Catalogue of Suspected Variable Stars, Moscow