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OBSERVATIONS OF NSV 03799 AND NSV 04612

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VAR 1

VAR 1		
Name of the object:		
NSV 03799		
Equatorial coordinat	es:	Equinox:
$R.A. = 07^{h}54^{m}20^{s}.1$ $DEC. = -00^{\circ}40'18''$		2000.0
Comparison star(s):	GSC 4833.246	
Check star(s):	GSC 4833.611	
VAR 2		
Name of the object:		
NSV 04612		
Equatorial coordinates: $\mathbf{R.A.} = 09^{\text{h}}45^{\text{m}}22^{\text{s}}3$ DEC.= $03^{\circ}57'26''$		Equinox:
$\mathbf{R.A.} = 09^{\circ}45^{\circ}22.3 \mathbf{D}$	EC.= 03*57*20*	2000.0
Comparison star(s):	GSC 239.137	
Check star(s):	GSC 239.576	
Observatory and tele		
=	amento de Física de la Universidac	d de Extremadura, 0.4-m
f/4.5 Newtonian reflect	or	
Detector:	Starlight Xpress CCD Camera (based in the chip SONY ICX027BL $6.4 \times 4.35 \text{ mm}^2$, $500 \times 256 \text{ pixels}$)	
Filter(s):	V (Kron–Cousins system)	
Transformed to a standard system: No		

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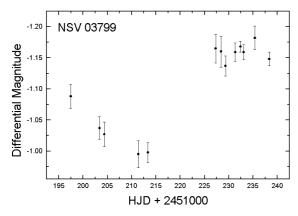


Figure 1. The V light curve obtained for NSV 03799. Delta magnitudes (variable minus comparison) are plotted versus Heliocentric Julian Date

Figure 2. The V light curve obtained for NSV 04612. Delta magnitudes (variable minus comparison) are plotted versus Heliocentric Julian Date

Availability of the data:
Upon request

Type of variability: | SR

Remarks:

Fig. 1 shows the light curve of NSV 3799, obtained during thirteen nights spanning a total of 40 days. The first part of this light curve shows a slow and apparently continuous variation in luminosity, and the last set of observations denote a relatively constancy of brightness with small deviations. The shape of the light curve of NSV 3799 and its spectral type M5 (Kukarkin et al. 1982), allow us to give a preliminary classification as SRb variable, although a possible designation as a SRc star cannot be discarded from the observations if it were a supergiant.

Fig. 2 shows the light curve of the variable NSV 4612, obtained on eight nights spanning a total of 54 days. In this light curve a variation in luminosity of around 1 magnitude is observed. The brightness changes are continuous and, furthermore, it is possible that the light curve could follow a sinusoidal shape, typical of SRa stars, although the gap existing between HJD 2451295 and 2451320 does not allow us to assure this assumption. Its spectral type M (Kukarkin et al. 1982) and the shape of the light curve allow us to give a preliminary classification as an SRa or SRb variable.

Acknowledgements:

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Reference:

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