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NSV 01754: A NEW ECLIPSING BINARY SYSTEM IN ORION

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Name of the object:	
NSV 01754, S 03545, CSV 000453, GSC 4741_842	
Equatorial coordinates:	Equinox:
R.A. = 04 ^h 53 ^m 09 ^s DEC. = -03°29'53"	2000.0
Observatory and telescope:	
L'Ametlla del Valles observatory, 0.5-m Newtonian telescope; Monegrillo Observatory, 0.4-m Newtonian telescope	
Detector:	CCD
Filter(s):	V
Comparison star(s):	GSC 4741_1265
Check star(s):	None
Transformed to a standard system:	No
Availability of the data:	
Upon request	
Type of variability:	EA
Remarks:	
<p>Light variations of NSV 01754 were first reported by Hoffmeister (1944). The star was later included in the New Catalogue of Suspected Variable Stars (Kholopov, 1982) as a variable with rapid light changes, a photographic brightness variation between 12^m0 and 12^m5, and an A spectral type, but not further information is given. NSV 01754 was observed on 24 nights, from December 1996 to February 1998. Observations show that NSV 01754 is an EA type eclipsing binary system with a period slightly over 1.8 days. During primary minimum the star fades 1.12 magnitudes, while during the secondary minimum the star is 0.12 magnitudes dimmer (Figure 1). The following ephemeris was computed:</p>	
$\text{Min. I} = \text{HJD } 2450775.52365 + 1^{\text{d}}8228 \times E.$ $\pm 0.00033 \quad \pm 0.0001$	

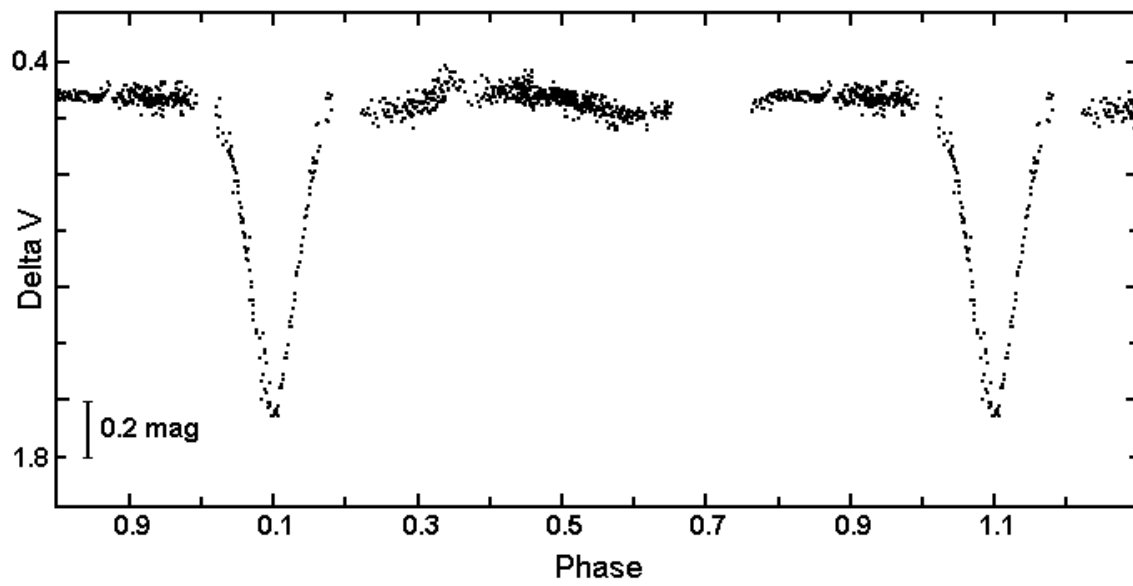


Figure 1. Phase curve of the EA type star NSV 01754

References:

Hoffmeister, C., 1944, *AN*, **274**, 176

Kholopov, P. N. (ed.), 1982, *New Catalogue of Suspected Variable Stars*, Nauka, Moscow