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## THE NEW SHORT PERIOD EB ECLIPSING BINARY SYSTEM NSV 05339

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Name of the object:			
NSV 05339, BD +36°2217, CSV 006866, Wr 007, GSC 2526_1034			
Equatorial coordinates:		Equinox:	
$R.A. = 11^{h}47^{m}50^{s}$ $DEC. = +35^{\circ}13'43''$		2000.0	
Observatory and telescope:			
Mollerusa Private Observatory, 0.26-m Schmidt-Cassegrain telescope;			
Esteve Duran Observatory, 0.2-m Schmidt-Cassegrain telescope			
		0	
Detector:	CCD		
Filter(s):	$\mid V$		
	CALC CONTRACT DDIA NO.		
Comparison star(s):	SAO 62705, PPM 760	80, GSC 2526_2379	
	I dad akaa ba		
Check $star(s)$ :	GSC 2526_781		
Transformed to a standard system: No			
A '1 1 '1'4 C41 1 4			
Availability of the data:			
Upon request			

## Remarks:

Type of variability:

EB

NSV 05339 was announced to be a variable star by Weber (1955). In the NSV catalogue (Kholopov, 1982) this star is listed as an EA: with a G5 spectral type and a photographic brightness variation between  $11^{\text{m}}0$  and  $11^{\text{m}}6$ . Observations performed between March 1998 and April 1999 show that it is a short period EB eclipsing binary system (Figure 1). About 20' to the east of NSV 05339 is GSC 2506\_775, a star which according to GSC has a photovisual magnitude of 13.34. This object was included in the synthetic aperture photometric measurements. Taking this into account, a maximum V amplitude of 0.56 between minimum I and phase 0.25 was obtained. During the secondary minimum the variable fades 0.15 magnitudes, and it also presents an O'Connell effect of  $0^{\text{m}}06$ . The computed ephemeris is:

Min. I = HJD 2451220.4869 +  $0^{d}$ 351862 × E. ±0.0002 ±0.000003 2 IBVS 4810

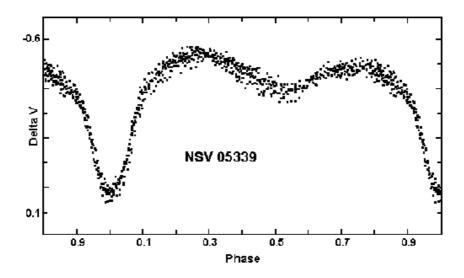


Figure 1.

## References:

Kholopov, P. N., ed., 1982, New General Catalogue of Suspected Variable Stars, Moscow Weber, R., 1955, BSAF, 69, 440