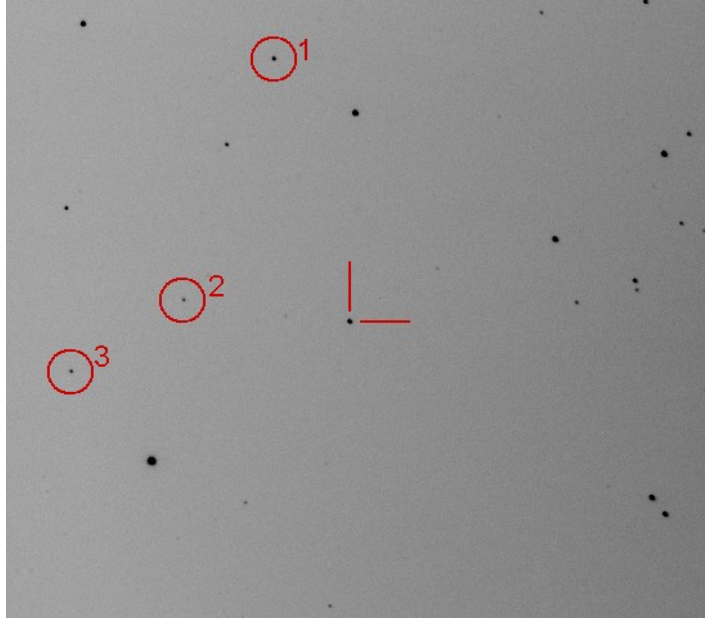


DISCOVERY OF NEW VARIABLE STAR

We describe the discovery of a new variable star in the Bootes constellation, observed at the (IAU station 565) Bassano Bresciano Observatory on May 11th 2014. The star is cataloged as GSC 03036-00001 (14h 28m 00.71s +39°33'07.1"). From light curve analysis the star should be an EW eclipsing type variable. We computed the epoch HJD 2456792.450714 and the period $P = 0.361257$ days. Magnitude is 13.61V with a amplitude = 0.15(clear).



GSC 03036-00001 and comparison stars

Tab 1 Comparison stars

Catalog = 2MASS		Color band=V							
Num	Num.Cat.	RA J2000	DE J2000	Mag	B-V	V-R	R-I	J-H	
1	14281049+3926187	217.0437460	39.4385530	14.075	+0.56	+0.33	+0.32	+0.32	
2	14282238+3932332	217.0932710	39.5425570	15.323	+0.69	+0.39	+0.38	+0.37	
3	14283713+3934234	217.1547280	39.5731700	14.949	+0.64	+0.36	+0.35	+0.30	

Tab 2. Cross identification of variable star

GSC 03036-00001 = 2MASS J14280068+3933069 = USNO-B1.0 1295-0249290 = CSS_J142800.7+393307

Tab 3 Summary of the Bassano Bresciano observations:

Session, Date of sessions, number of images/session, Telescope, exposure times

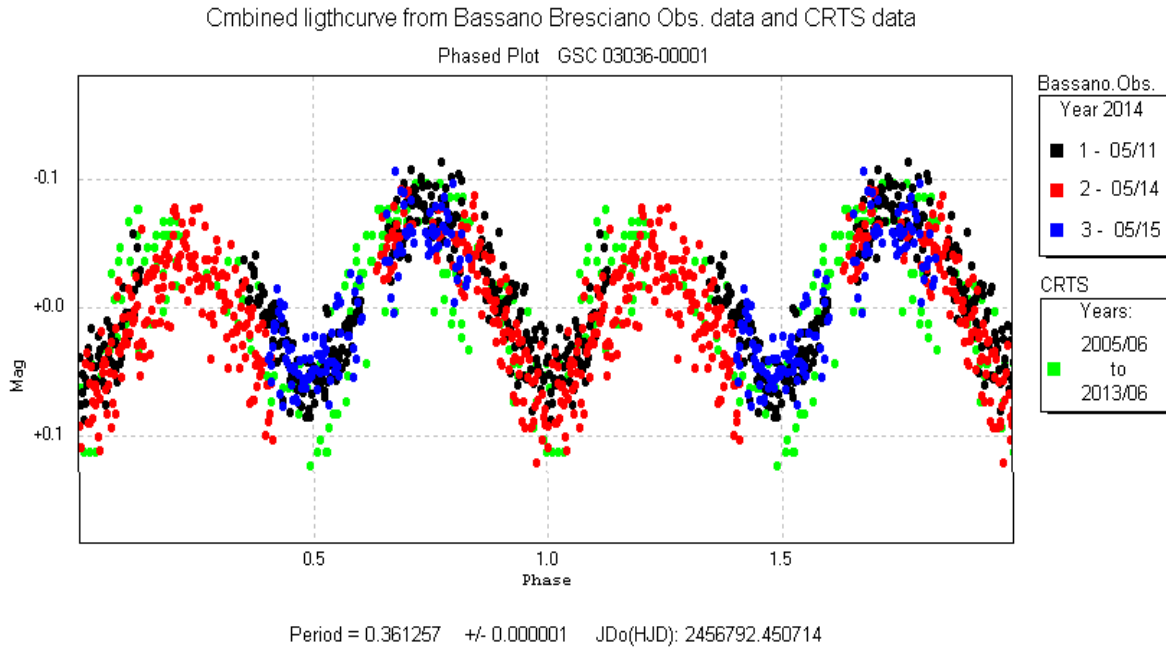
Session number	UT Date of the observations	N.images	exp. time sec.
S1	2014-05-11/19:43:37 2014-05-12/02:29:48	302	60
S2	2014-05-14/19:35:15 2014-05-15/02:34:31	380	60
S3	2014-05-15/19:39:35 2014-05-15/23:57:21	196	60

PERIOD DETERMINATION

Period was performing combining Bassano Bresciano Observatory data and Catilina survey data (CRTS Identifier = CSS_J142800.7+393307). Following is the combined plot giving us the period of **0.361257** days.

EPOCH AND AMPLITUDE DETERMINATION

Using Peranso software was able to compute the minimum epoch = **HJD 2456792.450714** and amplitude = **0.15 mag** (clear)



Tab 4. Main characteristics of discovered star

Name	Type	Period (d)	Initial epoch (HJD)	V Mag	Amplitude Mag (Clear)
GSC 03036-00001	EW	0.361257 +/- 0.000001	2456792.450714	13.61	0.15

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