

COMMISSIONS 27 AND 42 OF THE IAU
INFORMATION BULLETIN ON VARIABLE STARS

Number 6091

Konkoly Observatory
Budapest

15 January 2014

HU ISSN 0374 – 0676

**CCD MAXIMA OF PULSATING STARS
AND TIMES OF MINIMA OF AN ECLIPSING BINARY**

MARTIGNONI, MASSIMILIANO

Stazione Astronomica Betelgeuse (SAB), Via Don Minzoni 26, I-20020 Magnago (Milano), Italy, e-mail: massimiliano.martignoni@alice.it

Observatory and telescope:

0.25 m Schmidt-Cassegrain Telescope (f/10)
--

Detector:	512×512 pixels Kodak KAF261E CCD cooled to (typ.)
------------------	---

–20°C; 1".6 per pixel (1×1 binning); 14'×14' field of view; equipped with BVR_CI_C photometric filters.

Method of data reduction:

Differential photometry on each CCD image using AIP4Win software. No reduction to standard photometric system was performed.
--

Method of minimum determination:

The times of maxima were calculated using parabolic fit; the minima times were calculated using Kwee & van Woerden's (1956) method.

Times of maxima of pulsating stars:
--

Star name	Time of max. HJD 2400000+	Error	Filter
ASAS J083947+1417.4	54565.3943	0.0011	VR_CI_C
	55975.4599	0.0001	BVR_CI_C
	55980.4260	0.0008	BVR_CI_C
ASAS J142511+1211.1	56064.4739	0.0007	VR_C
	56076.4518	0.0017	VR_C
ASAS J150509+1817.4	56077.5490	0.0022	VR_C

Times of maxima of pulsating stars:			
Star name	Time of max. HJD 2400000+	Error	Filter
SW And	56609.3580	0.0025	V
XX And	56603.4739	0.0021	V
	56632.3854	0.0021	V
AT And	56629.3135	0.0030	V
DM And	56631.3006	0.0039	V
DR And	56603.3575	0.0026	V
OV And	56608.2966	0.0029	V
V569 And	56638.4332	0.0031	V
V1821 Aql	54684.4738	0.0010	<i>BVR_CI_C</i>
	54686.4465	0.0040	<i>BVR_CI_C</i>
	54687.4392	0.0006	<i>BVR_CI_C</i>
SY Ari	56268.3725	0.0001	V
CD Ari	56273.4585	0.0036	V
TZ Aur	55931.4204	0.0008	V
	55936.5107	0.0002	V
	56340.3295	0.0013	V
BH Aur	56609.4784	0.0013	V
	56630.4594	0.0018	V
NU Aur	56297.3497	0.0027	V
V377 Aur	56342.3150	0.0034	V
V575 Aur	56632.4821	0.0019	V
	56268.4964	0.0029	V
TY Cam	56322.3997	0.0034	V
AH Cam	56315.3553	0.0040	V
	56339.3554	0.0032	V
V354 Cam	56608.4646	0.0046	V
RW Cnc	56629.6847	0.0016	V
TT Cnc	56640.6061	0.0034	V
AS Cnc	56339.4557	0.0037	V
BN CVn	56339.5648	0.0036	V
HU Cas	56272.3328	0.0001	V
V363 Cas	56608.3850	0.0025	V
FP Cep	56185.3506	0.0001	V
KM Cep	56185.4240	0.0001	V
RR Cet	56630.3604	0.0022	V
U Com	56640.7223	0.0053	V
CK Del	56541.3424	0.0016	V
SU Dra	56332.5370	0.0042	V
XZ Dra	56479.5226	0.0028	V
AK Gem	56332.3224	0.0013	V
V397 Gem	56331.3838	0.0023	V
	56640.4367	0.0041	V
TW Her	56127.4122	0.0013	V
V392 Her	56483.4244	0.0021	V
RX Leo	56373.4319	0.0036	V
X LMi	56342.4560	0.0026	V
Y LMi	55985.4396	0.0021	V
	56340.4897	0.0010	V

Times of maxima of pulsating stars:			
Star name	Time of max. HJD 2400000+	Error	Filter
TV Lyn	55932.4471	0.0004	V
	55933.4141	0.0013	VI_C
	55933.6554	0.0058	VI_C
	55934.6106	0.0001	VI_C
TW Lyn	56629.5619	0.0011	V
EZ Lyr	56485.4733	0.0016	V
FN Lyr	56478.5050	0.0041	V
V408 Oph	56483.5028	0.0021	V
V452 Oph	56485.4124	0.0020	V
V455 Oph	56479.4355	0.0032	V
V816 Oph	56479.3996	0.0018	V
CM Ori	56630.5311	0.0018	V
V1640 Ori	56640.5269	0.0038	V
VV Peg	56126.4835	0.0036	V
	56148.4633	0.0032	V
TU Per	56629.4621	0.0014	V
	56640.3911	0.0022	V
AR Per	56631.3488	0.0016	V
ET Per	56609.4156	0.0010	V
V375 Per	56300.3308	0.0021	V
SS Psc	56315.2938	0.0045	V
BR Tau	55937.3743	0.0005	V
	56272.5061	0.0001	V
	56631.4637	0.0017	V
	56638.4940	0.0015	V
U Tri	56266.4567	0.0001	V
MU UMa	56340.5875	0.0060	V
FK Vul	56184.4386	0.0007	V

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
GN Boo	56057.4903	0.0020	Min.I	VR_C	
	56058.3956	0.0015	Min.I	VR_C	
	56062.4670	0.0018	Min.II	VR_C	
	56066.3881	0.0020	Min.II	VR_C	
	56066.5390	0.0022	Min.I	VR_C	

Reference:

Kwee, K.K., van Woerden, H., 1956, *B.A.N.*, **12**, 327