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PHOTOELECTRIC MINIMA OF SOME ECLIPSING BINARY STARS

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Observatory and telescope:	
All observations were conducted in Tashkent, Uzbekistan from an urban yard under moderate light pollution. 28cm Schmidt-Cassegrain, 2640 mm focal length. German equatorial mount.	
Detector:	SBIG ST-7E, -15°C , covering 8×5 arcminutes, 18 micron pixels (binned 2×2). Unfiltered.
Method of data reduction:	
All CCD frames calibrated with bias, dark, and flat frames using AIP4WIN software. Differential aperture photometry performed using AIP4WIN software. AIP4WIN software available at: http://www.willbell.com/aip/index.htm	
Method of minimum determination:	
Digital tracing paper method, bisection of chords, curve fitting, and (occasionally) Kwee and van Woerden (1956).	

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
RT And	52893.4306	0.0001	I	None	
UU And	52925.4253	0.0001	I	None	
AA And	52968.2774	0.0001	I	None	
AB And	52880.4065	0.0000	I	None	
BX And	52932.3042	0.0001	I	None	
DS And	53023.1223	0.0001	I	None	
GZ And	52926.3818	0.0001	II	None	
DD Aqr	52894.3830	0.0001	I	None	
SS Ari	52888.4068	0.0002	I	None	
EM Aur	53038.2170	0.0003	I	None	
LY Aur	53046.1756	0.0009	I	None	
MU Aur	53067.2440	0.0003	I	None	
V410 Aur	53058.1464	0.0001	II	None	
V410 Aur	53108.1552	0.0001	I	None	
TU Boo	53167.2125	0.0002	I	None	
TX Boo	53125.2491	0.0010	I	None	
TX Boo	53159.3796	0.0005	I	None	
XY Boo	53105.2519	0.0005	I	None	
AR Boo	53090.4682	0.0001	I	None	
AR Boo	53143.2339	0.0003	I	None	
EF Boo	53163.1677	0.0002	II	None	
ET Boo	53105.3887	0.0003	I	None	
FI Boo	53149.2994	0.0003	I	None	

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
GS Boo	52843.1540	0.0011	I	None	
GS Boo	53045.5019	0.0001	I	None	
GS Boo	53142.2768	0.0002	I	None	
AO Cam	53083.2119	0.0002	II	None	
XZ Cnc	53087.3199	0.0002	I	None	Correct period 0 ^d 714673
AH Cnc	53047.3702	0.0003	I	None	
EV Cnc	53108.2776	0.0008	I	None	
EV Cnc	53109.1864	0.0007	I	None	
RV CVn	53148.2594	0.0002	I	None	
BI CVn	53047.5749	0.0010	I	None	
DK CVn	53082.4493	0.0005	I	None	
DM CVn	53166.2016	0.0002	I	None	
TY CMi	53075.2212	0.0004	I	None	
TV Cas	52962.1273	0.0001	I	None	
TW Cas	52929.3367	0.0001	I	None	
TW Cas	53032.1751	0.0002	I	None	
BH Cas	52889.3778	0.0001	I	None	
BS Cas	52927.3109	0.0003	II	None	
CW Cas	52928.3973	0.0012	II	None	
CW Cas	52884.3950	0.0002	II	None	
V364 Cas	52930.3319	0.0001	I	None	
V389 Cas	52931.3774	0.0001	I	None	Also known as GSC 3272-0316
V523 Cas	52922.4218	0.0000	I	None	
V776 Cas	53086.1374	0.0001	I	None	
V860 Cas	52892.4095	0.0003	I	None	
GS Cep	52890.3524	0.0001	I	None	
GW Cep	52935.3199	0.0001	II	None	
IP Cep	52953.1033	0.0002	I	None	
NS Cep	52912.1447	0.0001	I	None	Also known as HBV 480
SS Com	53050.4044	0.0004	I	None	
AQ Com	53123.2660	0.0005	II	None	
CN Com	53164.2941	0.0006	I	None	
DD Com	53124.2241	0.0008	I	None	
DD Com	53124.3566	0.0008	II	None	
EK Com	53066.4462	0.0001	I	None	
EQ Com	53153.2397	0.0003	I	None	
KR Com	53058.4796	0.0002	II	None	
KR Com	53150.2695	0.0005	II	None	
TU CrB	53091.4393	0.0001	I	None	
CG Cyg	52963.1454	0.0001	I	None	
V345 Cyg	52890.1978	0.0002	I	None	
V401 Cyg	52914.1135	0.0001	I	None	
V753 Cyg	52889.1513	0.0001	I	None	
V859 Cyg	52894.1433	0.0001	I	None	
V1004 Cyg	52900.2096	0.0002	I	None	
V2287 Cyg	52893.3167	0.0002	I	None	
V2287 Cyg	53157.4455	0.0007	I	None	
V2290 Cyg	52849.3049	0.0001	I	None	
V2290 Cyg	53124.4724	0.0009	I	None	
RZ Dra	52895.1732	0.0003	I	None	
BH Dra	52913.1026	0.0001	I	None	
BV Dra	53092.4514	0.0001	II	None	
BV Dra	53099.4507	0.0002	II	None	
BW Dra	53099.4236	0.0002	II	None	
LQ Dra	52923.1133	0.0001	I	None	
LQ Dra	53140.4261	0.0001	I	None	
WW Gem	53055.2027	0.0002	I	None	
AL Gem	53045.1617	0.0003	I	None	
DG Gem	53111.1930	0.0004	I	None	
GP Gem	53106.1880	0.0002	II	None	

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
QW Gem	53057.2714	0.0001	II	None	
V687 Her	53159.2786	0.0002	I	None	
V731 Her	53123.3805	0.0007	II	None	Correct period 0 ^d .426408
V878 Her	52859.1761	0.0002	I	None	
V878 Her	53115.4406	0.0002	I	None	
V921 Her	53095.3998	0.0025	II	None	
V1024 Her	52831.1936	0.0001	I	None	
V1024 Her	52835.1747	0.0001	II	None	
V1024 Her	52839.1573	0.0015	I	None	
V1024 Her	53110.4081	0.0001	I	None	
V1034 Her	52873.1962	0.0003	I	None	
V1034 Her	53130.4213	0.0005	II	None	
V1042 Her	52867.1862	0.0002	I	None	
V1042 Her	53126.3407	0.0002	I	None	
V1050 Her	52864.3044	0.0002	I	None	
V1050 Her	52884.1899	0.0004	II	None	
V1050 Her	53126.4223	0.0005	I	None	
V1065 Her	52866.1739	0.0001	I	None	
V1065 Her	53118.3969	0.0002	I	None	
FG Hya	53105.1573	0.0003	II	None	
SW Lac	52883.3986	0.0001	I	None	
VX Lac	52887.4208	0.0001	I	None	
VX Lac	52899.2407	0.0000	I	None	
CO Lac	52968.1442	0.0001	I	None	
BL Leo	53133.1551	0.0010	I	None	
BL Leo	53140.2021	0.0002	I	None	
BV Leo	53165.2123	0.0007	II	None	
BV Leo	53173.2081	0.0005	I	None	
BW Leo	53158.1848	0.0012	I	None	
CE Leo	53172.1915	0.0002	II	None	
ET Leo	53141.2250	0.0004	II	None	
EX Leo	53067.3696	0.0001	I	None	
FS Leo	53082.3585	0.0003	I	None	
UU Lyn	53123.1899	0.0002	I	None	
CC Lyn	53084.2625	0.0015	I	None	
CD Lyn	53053.2446	0.0001	II	None	
DF Lyr	53105.4761	0.0006	I	None	
IP Lyr	53137.3919	0.0002	I	None	
NY Lyr	52889.2492	0.0001	I	None	
QU Lyr	52911.1152	0.0002	I	None	
V531 Lyr	52921.1501	0.0001	I	None	
V576 Lyr	52837.2083	0.0001	I	None	
V576 Lyr	52841.2096	0.0002	II	None	
V576 Lyr	52849.2132	0.0002	II	None	
V576 Lyr	53111.4643	0.0012	I	None	
V582 Lyr	52840.3612	0.0000	I	None	
V582 Lyr	52840.2340	0.0001	II	None	
V582 Lyr	53136.4436	0.0002	I	None	
V396 Mon	53055.1282	0.0001	I	None	
V442 Mon	53109.1384	0.0003	I	None	
V448 Mon	53094.2235	0.0015	II	None	
V450 Mon	53056.1414	0.0004	I	None	
V528 Mon	53090.2114	0.0001	I	None	
V2357 Oph	53158.3416	0.0005	I	None	
V2553 Oph	52820.2345	0.0001	I	None	
V2553 Oph	52823.2090	0.0001	II	None	
V2553 Oph	53112.4254	0.0020	II	None	
V2553 Oph	53125.4623	0.0002	I	None	
FZ Ori	52921.4942	0.0002	II	None	
GU Ori	53047.1311	0.0002	II	None	

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
V343 Ori	53050.1305	0.0004	I	None	
U Peg	52885.3989	0.0001	I	None	
BX Peg	52886.3935	0.0001	I	None	
DI Peg	52888.3606	0.0001	I	None	
DP Peg	52867.2415	0.0001	I	None	
KW Peg	52886.3522	0.0002	I	None	
IU Per	53028.1419	0.0001	I	None	
V432 Per	52924.3608	0.0001	I	None	
V432 Per	53022.1057	0.0009	I	None	
LX Ser	53146.2310	0.0003	I	None	
OU Ser	53094.3375	0.0018	II	None	
Y Sex	53091.2258	0.0001	II	None	
CR Tau	53110.1262	0.0008	II	None	
EQ Tau	52923.4083	0.0000	I	None	
HU Tau	53066.1681	0.0001	I	None	
V781 Tau	53038.1373	0.0004	I	None	
V1154 Tau	52924.4763	0.0001	I	None	
V1154 Tau	53064.1402	0.0006	I	None	
RV Tri	53049.1708	0.0001	I	None	
TY UMa	53151.2419	0.0003	I	None	
XY UMa	53112.2409	0.0002	I	None	
AW UMa	53086.3908	0.0001	II	None	
BM UMa	53092.3840	0.0001	I	None	
BQ UMa	53168.2524	0.0010	II	None	
HN UMa	53096.4040	0.0004	I	None	
HX UMa	53057.4504	0.0007	I	None	
II UMa	53064.3778	0.0002	I	None	
LO UMa	53038.3828	0.0002	I	None	
LO UMa	53157.1601	0.0010	I	None	
RZ UMi	53135.3156	0.0004	I	None	
DY Vir	53118.2316	0.0003	I	None	
HT Vir	53087.5083	0.0001	II	None	
KZ Vir	53110.2639	0.0009	I	None	
NN Vir	53130.2446	0.0004	II	None	
BO Vul	52893.1873	0.0000	I	None	
NSV 24968	52847.2952	0.0001	I	None	

Remarks:

Correct period of XZ Cnc is 0.714673d. At time of publication GCVS period for this star is listed as 1.113753d, but this appears to be an aliasing artifact.

Correct period of V731 Her is 0.426408d. At time of publication GCVS period for this star is listed as 0.542d, but this appears to be an aliasing artifact.

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