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TIMES OF MINIMA OF ECLIPSING BINARIES AND TIMES OF MAXIMA OF PULSATING STARS

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Observatory and telescope:
T1: 40 cm Cassegrain telescope (f/8.1), **T2**: 25 cm Newtonian reflector telescope (f/4.7), **T3**: 8 cm Newtonian refractor telescope (f/7.5) at the University of Athens Observatory.

Detector:	**C1**: ST-10XME CCD camera, Peltier cooling, KAF-3200ME chip, $16' \times 11'$ and $25' \times 17'$ (using a focal reducer) FoV with T1, 2184 × 1472 pixels, **C2**: ST-8XMEI CCD camera, Peltier cooling, KAF-1603ME chip, $40' \times 27'$ with T2 and $79' \times 53'$ FoV with T3, 1530 × 1020 pixels. Both CCDs are equipped with the Bessell UBVRI filters.

Method of data reduction:
Differential photometry with the software Muniwin v.1.1.26 (Hroch 1998).

Method of minimum determination:
Kwee & van Woerden (1956).

Table 1: Times of maxima of pulsating stars

System	HJD	Error	Filters	Remark
BX Del	2455821.2972	0.0004	BV	C1+T1
	2455822.3886	0.0011	BV	C1+T1
	2455834.3970	0.0005	BV	C1+T1
	2455856.2340	0.0004	BV	C1+T1

Table 2: Times of minima of eclipsing binaries

System	HJD	Error	Type	Filters	Remark
AP And	2455837.4916	0.0001	II	BVI	C1+T1
	2455838.2851	0.0002	I	BVRI	C1+T1
	2455841.4597	0.0001	I	BVRI	C1+T1
	2455853.3646	0.0001	II	BVRI	C1+T1
QY Aql	2455794.4802	0.0020	I	BVI	C1+T1
BD+07 3142	2455695.4632	0.0002	II	BVRI	C1+T1
	2455696.4281	0.0002	I	BVRI	C1+T1
	2455697.3900	0.0002	II	BVRI	C1+T1
	2455697.5287	0.0002	I	BVRI	C1+T1
VW Boo	2455698.4256	0.0002	II	BVRI	C1+T1
	2455702.5323	0.0003	II	BVRI	C1+T1
	2455703.3886	0.0002	I	BVRI	C1+T1
	2455707.4961	0.0002	I	BVRI	C1+T1
EL Boo	2455696.3621	0.0005	I	BVRI	C2+T2
	2455697.3952	0.0004	II	BVRI	C2+T2
	2455698.4311	0.0006	I	BVRI	C2+T2
	2455699.4665	0.0007	II	BVRI	C2+T2
	2455702.3606	0.0004	II	BVRI	C2+T2
VZ Cep	2455804.3392	0.0004	II	BVRI	C2+T2
	2455807.2988	0.0002	I	BVRI	C2+T2
	2455814.3993	0.0002	I	BVRI	C2+T2
V1073 Cyg	2455774.3275	0.0007	I	BRI	C2+T2
	2455777.4684	0.0008	I	UBVRI	C1+T1
	2455779.4327	0.0002	II	UBVRI	C1+T1
	2455793.5788	0.0003	II	UBVRI	C1+T1
V1187 Cyg	2455848.2539	0.0002	II	BVRI	C1+T1
V1191 Cyg	2455833.3032	0.0002	I	BVRI	C1+T1
	2455835.3382	0.0007	II	BVRI	C1+T1
	2455847.2473	0.0002	II	BVRI	C1+T1
	2455848.3471	0.0003	I	BVRI	C1+T1
BW Del	2455813.3112	0.0003	I	BV	C1+T1
HI Dra	2455729.3917	0.0005	II	BVRI	C2+T2
	2455731.4815	0.0005	I	BVRI	C2+T2
	2455732.3786	0.0006	II	BVRI	C2+T2
GSC 3787-0502	2455569.3530	0.0006	I	B	C2+T2
	2455569.4813	0.0002	II	B	C2+T2
	2455569.6061	0.0007	I	B	C2+T2
	2455570.3820	0.0007	I	BV	C2+T2
	2455576.4544	0.0007	II	VI	C2+T2
	2455576.5799	0.0005	I	BVI	C2+T2
	2455577.2285	0.0007	II	BI	C2+T2
	2455580.5832	0.0008	II	BVI	C2+T2
	2455581.3580	0.0010	II	I	C2+T2
	2455581.4859	0.0007	I	BVI	C2+T2
	2455588.3333	0.0007	II	BVI	C2+T2
	2455588.5905	0.0011	II	BVI	C2+T2
	2455598.2753	0.0007	I	BVI	C2+T2

Table 2: cont.

System	HJD	Error	Type	Filters	Remark
	2455598.4099	0.0008	II	BVI	C1+T1
	2455598.5349	0.0004	I	BVI	C1+T1
	2455602.2830	0.0009	II	BVI	C1+T1
BO Her	2455711.4868	0.0001	I	BVI	C1+T1
	2455726.4452	0.0015	II	VI	C1+T1
V1010 Oph	2455750.4177	0.0008	I	B	C2+T3
	2455757.3644	0.0005	II	BVRI	C2+T3
	2455758.3547	0.0002	I	BVRI	C2+T3
V2388 Oph	2455746.4824	0.0005	I	BVRI	C2+T3
	2455748.4894	0.0005	II	BVRI	C2+T3
V2610 Oph	2455712.5283	0.0006	I	BVRI	C1+T1
	2455714.4490	0.0004	II	BVRI	C1+T1
	2455719.5665	0.0008	II	BVRI	C1+T1
	2455720.4206	0.0010	II	BVI	C1+T1
	2455722.5504	0.0006	II	BVRI	C1+T1
	2455723.4050	0.0007	II	BVRI	C1+T1
	2455727.4569	0.0012	I	BVRI	C1+T1
	2455741.5312	0.0011	I	BVRI	C1+T1
	2455744.5169	0.0008	I	BVRI	C1+T1
V2612 Oph	2455727.3963	0.0002	I	BVRI	C1+T1
	2455729.4632	0.0002	II	BVRI	C1+T1
V407 Peg	2455853.4082	0.0004	I	BVRI	C1+T1
	2455854.3718	0.0004	II	BVRI	C1+T1
	2455855.3207	0.0001	I	BVRI	C1+T1
V482 Per	2455847.6067	0.0003	II	BVRI	C1+T1
	2455852.4969	0.0002	II	BVRI	C1+T1
	2455868.3970	0.0003	I	BVRI	C1+T1
V881 Per	2455818.4056	0.0005	I	BVRI	C1+T1
	2455818.5984	0.0003	II	BVRI	C1+T1
	2455819.5681	0.0003	I	BVRI	C1+T1
	2455820.5353	0.0004	II	BVRI	C1+T1
	2455821.5049	0.0004	I	BVRI	C1+T1
	2455833.5136	0.0003	I	BVRI	C1+T1
	2455834.4814	0.0003	II	BVRI	C1+T1
	2455835.4501	0.0003	I	BVRI	C1+T1
AU Ser	2455730.4918	0.0001	II	BVRI	C1+T1
	2455731.4593	0.0001	I	BVRI	C1+T1
	2455739.3809	0.0001	II	BVRI	C1+T1
	2455740.3486	0.0001	I	BVRI	C1+T1
USNO-A2.0 0900-04405532	2455602.3200	0.0006	I	B	C1+T1
	2455603.4220	0.0018	I	I	C1+T1
	2455630.2951	0.0009	I	I	C1+T1
	2455632.2900	0.0011	II	VI	C1+T1
USNO-A2.0 0900-05986449	2455569.4588	0.0004	II	B	C1+T1
	2455576.3915	0.0006	I	VR	C1+T1
	2455576.5543	0.0006	II	VR	C1+T1
	2455580.5809	0.0004	I	VR	C1+T1

Table 2: cont.

System	HJD	Error	Type	Filters	Remark
	2455581.5516	0.0001	I	R	C1+T1
PY Vir	2455699.3574	0.0003	II	BVRI	C1+T1
	2455702.3154	0.0002	I	BVRI	C1+T1

Explanation of the remarks in the table:

T1, T2, T3, C1 and C2 refer to the instrumentation (telescope and CCD camera) used for the corresponding observations.

Remarks:

The systems GSC 3787-0502, USNO-A2.0 0900-04405532 and USNO-A2.0 0900-05986449 were recently discovered by Liakos & Niarchos (2011).

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