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MINIMA TIMES OF SOME ECLIPSING BINARY STARS

DEMİRCAN, Y.; GÜROL, B.; GÖKAY, G.; TERZİOĞLU, Z.; SARAL, G.; GÜRSOYTRAK, H.; OKAN, A.; DEMİRHAN, U.; ÇOKER, D.; DERMAN, E.

Ankara University Observatory, Faculty of Science, Astronomy and Space Sciences Department 06100, Tandoğan, Ankara, TÜRKİYE; e-mail: demircan@ankara.edu.tr

Observatory and telescope:	
16"Schmidt/Cassegrain telescope at Ankara University Observatory	
Detector:	Apogee ALTA U47+ back illuminated CCD camera, Peltier cooling, E2V CCD47-10 chip, 1024 × 1024 pixels.
Method of data reduction:	
Reduction of the CCD frames: IRAF ¹ CCDRED and APPHOT packages.	
Method of minimum determination:	
The minima times were computed with several methods in Minima25b (Nelson, 2006) (parabolic fit, tracing paper, bisectors of chords, Kwee and van Woerden method (Kwee & van Woerden, 1956), Fourier fit and sliding integrations technique). Then weighted mean minimum-time value calculated for all filters used.	

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
ASAS 211538+2454.2	55435.2699	0.0001	II	BVRI	YD
	55435.5304	0.0001	I	BVRI	YD
	55439.4411	0.0001	II	BVRI	UD
ASAS 205847+2731.9	55405.3647	0.0002	II	BVRI	GG
	55405.4988	0.0001	I	BVRI	GG
	55406.4372	0.0001	II	BVRI	HG-ZT
	55406.5703	0.0002	I	BVRI	HG-ZT
ASAS 212915+1604.9	55407.5576	0.0001	II	BVRI	AO-YK-MSH
ASAS 231700+1944.9	55395.4988	0.0001	II	BVRI	GG
	55422.2993	0.0001	II	BVRI	AO
	55422.4785	0.0001	I	BVRI	AO
CP Cam	55409.5085	0.0005	II	BVRI	YD
	55412.2942	0.0002	I	BVRI	GG
DY CVn	55297.2885	0.0001	I	BVRI	YD
DZ Lyn	55208.3112	0.0002	I	BVRI	GG
	55218.5168	0.0001	I	BVRI	GS
	55222.2970	0.0002	I	BVRI	GG
	55222.4860	0.0002	II	BVRI	GG
EF Cep	55309.3863	0.0002	II	BVRI	GS
	55320.2955	0.0001	II	BVRI	AO

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Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
EI CVn	55316.3851	0.0001	I	BVRI	GS
	55316.5147	0.0001	II	BVRI	GS
	55333.3349	0.0001	I	BVRI	ZT
	55333.4639	0.0001	II	BVRI	ZT
GH Boo	55323.4320	0.0002	I	BVRI	GG
	55324.4234	0.0002	II	BVRI	AO
GK Boo	55364.4367	0.0001	II	BVRI	HG
GSC 1127 1808	55417.5265	0.0010	I	BVRI	DC
GSC 2331 0731	55425.4799	0.0010	I	BVRI	UD
GSC 2140 1485	55383.3148	0.0001	I	BVRI	GG
	55437.3791	0.0001	II	BVRI	YD
	55437.5302	0.0001	I	BVRI	YD
GSC 2534 1121	55319.3945	0.0002	II	BVRI	DC-EA
	55319.5642	0.0002	I	BVRI	DC-EA
GSC 2544 1007	55317.3859	0.0001	I	BVRI	GG
	55317.5440	0.0001	II	BVRI	GG
GSC 3526 2369	55384.4777	0.0002	I	BVRI	UD
HH Boo	55322.4428	0.0001	I	BVRI	HG
LO And	55160.3026	0.0001	II	BVRI	UD-EA
PS Vir	55318.2827	0.0001	I	BVRI	YD
	55318.4291	0.0001	II	BVRI	YD
TV UMi	55392.3785	0.0010	I	BVRI	HG
	55423.3350	0.0009	II	BVRI	YD
	55423.5470	0.0013	I	BVRI	YD
	55424.3765	0.0013	I	BVRI	DC-EA
TYC 1761-1246-1	55392.5071	0.0001	I	BVRI	HG
	55080.3625	0.0003	I	BVRI	GG
V1191 Cyg	55381.3930	0.0001	I	BVRI	YD
	55381.5499	0.0002	II	BVRI	YD
	55388.4436	0.0001	II	BVRI	GS
V1918 Cyg	55380.3132	0.0001	II	BVRI	AO
	55380.5193	0.0001	I	BVRI	AO
	55390.4368	0.0001	I	BVRI	UD
XY LMi	55259.5120	0.0001	II	BVRI	HG

Explanation of the remarks in the table:

Observers: AO: Abdullah OKAN, DÇ: Deniz ÇOKER, EA:Emre AYDIN, GG: Gökhan GÖKAY, GS: Gözde SARAL, HG: Hande GÜR SOYTRAK, MSH: Muhammed SHEMUNI, UD: Utku DEMİRHAN, YD: Yahya DEMİRCAN, YK: Yücel KILIÇ, ZT: Zahide TERZİOĞLU

Remarks:

The times of minima are weighted averages from all filters observed.

Acknowledgements:

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References:

- Kwee, K. K., van Woerden, H., 1956, *Bull. Astron. Inst. Neth.*, **12**, 327
 Nelson, B., 2006, Software, <http://members.shaw.ca/bob.nelson/software1.htm>