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PHOTOELECTRIC MINIMUM TIMES OF SOME ECLIPSING BINARY STARS

BULUT, İ.¹; DEMİRCAN, O.^{1,2}

¹ Çanakkale Astrophysics Research Center, Terzioğlu Campus, TR-17100, Çanakkale, Turkey

² Çanakkale Onsekiz Mart University, Department of Physics, TR-17100, Çanakkale, Turkey

e-mail: ibulut@comu.edu.tr

Observatory and telescope:

40-cm Cassegrain telescope of the TÜBİTAK†National Observatory and 30-cm Maksutov telescope of the Ankara University Observatory.

Detector:

OPTEC SSP-5A photometer containing a side-on R1414 Hamamatsu photomultiplier.

Method of data reduction:

Reduction of the observations were made in the usual way (Hardie, 1962).

Method of minimum determination:

Kwee & van Woerden (1956).

Observed star(s):

Star name	GCVS type	Coordinates (J2000)		Comp. star	Ephemeris		Source
		RA	Dec		E 2400000+	P [day]	
MR Cyg	EA/SD	21 58 57	+47 59 00	BD +47°3622	50314.3217	1.6770343	1
V477 Cyg	EA/DM	20 05 28	+31 58 18	BD +31°3926	19468.3340	2.3469777	2
OX Cas	EA/DM	01 09 00	+61 28 15	BD +60°0170	46733.7696	2.48934608	2
V821 Cas	EA	23 58 49	+53 40 20	BD +52°3575	48500.4459	1.76975	3
V364 Lac	EA/DM	22 52 15	+38 44 45	BD +37°4736	49947.4091	7.3515258	4
V402 Lac	EA	22 09 15	+44 50 47	BD +44°4041	48500.9800	3.7820	3
UW LMi	EA	10 43 30	+28 41 09	BD +30°2060	50854.7742	3.874307	5
DN UMa	EA	11 55 06	+46 28 37	BD +47°1914	44275.6400	1.730411	6

Source(s) of the ephemeris:

1.: Linnell et al. (1998); 2.: Kreiner et al.(2001); 3.: ESA (1997);
4.: Torres et al. (1999); 5.: Clausen et al. (2001); 6.: García & Giménez (1986)

†TÜBİTAK : The Scientific and Technical Research Council of Turkey

Times of minima:						
Star name	Time of min. HJD 2400000+	Error	Type	Filter	$O - C$ [day]	Rem.
MR Cyg	51056.4105	0.0004	II	<i>UBV</i>	0.0011	AUO
	51061.4446	0.0008	II	<i>UBV</i>	0.0041	TUG
V477 Cyg	51718.3976	0.0001	I	<i>UBV</i>	0.2430	TUG
	51721.4510	0.0003	II	<i>UBV</i>	-0.2240	TUG
	51728.4905	0.0004	II	<i>UBV</i>	-0.2255	TUG
	52117.3847	0.0001	I	<i>UBV</i>	0.2439	TUG
	52120.4372	0.0004	II	<i>UBV</i>	-0.2241	TUG
OX Cas	51722.3836	0.0007	I	<i>BV</i>	-0.0355	TUG
	52119.4910	0.0006	II	<i>UBV</i>	0.0212	TUG
V821 Cas	51720.3851	0.0009	II	<i>UBV</i>	-0.1209	TUG
	51721.3976	0.0003	I	<i>UBV</i>	0.0067	TUG
V364 Lac	49223.4067	0.0003	II	<i>UBV</i>	0.1229	AUO
	49234.3098	0.0003	I	<i>UBV</i>	-0.0013	AUO
	49256.3634	0.0004	I	<i>UBV</i>	-0.0023	AUO
	51057.4942	0.0003	I	<i>UBV</i>	0.0047	AUO
V402 Lac	51719.4730	0.0003	I	<i>UBV</i>	0.0110	TUG
	52115.4040	0.0004	II	<i>UBV</i>	0.7230	TUG
	52116.5720	0.0001	I	<i>UBV</i>	0.0000	TUG
UW LMi	51939.5807	0.0007	I	<i>UBV</i>	0.0005	TUG
DN UMa	51716.4305	0.0004	I	<i>BV</i>	0.0232	TUG

Explanation of the remarks in the table:

AUO: Ankara University Observatory, TUG: TÜBİTAK National Observatory

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