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PHOTOELECTRIC MINIMA OF ECLIPSING BINARIES

The following table gives the photoelectric minima of several eclipsing binaries obtained in the year 1990 at the N. Copernicus Observatory and Planetarium in Brno (Czechoslovakia) by means of the 40-cm telescope, type Nasmyth.

The times of minima in U or B band have been omitted in case the signal-to-noise ratio was insufficient.

The table gives the type of filter, the heliocentric times of minima, the O-C residuals in the various bands, and abbreviations of the observer's name.

These abbreviations are as follows:

DH : Dalibor Hanžl  
 TH : Tomáš Hudecek  
 MZ : Miloslav Zejda

Data for calculating the O-C are taken from the following literature:

O-C (I) : SAC 62, Krakow 1990.

O-C (II) : GCVS, Moscow 1985-1987.

O-C (III) : IBVS No.3596 (our light elements).

The moments of the secondary minima are labeled by "s". As far as the data for calculating the times of the secondary minima were not found in the literature, we use the phase 0.5 for predicting the secondary minima

Table I

Star	Filt.	Min.hel. 24...	O-C (I) [ d ]	O-C (II) [ d ]	O-C (III) [ d ]	Observer
KP Aql	V	48084.4392	-0.0079	= -0.0079		DH/TH
	B	48084.4399	-0.0072	= -0.0072		DH/TH
00 Aql	V	48109.4264	+0.0017	= +0.0017		DH/TH
v346 Aql	V	48097.4182	-0.0029	-0.0032		DH
	B	48097.4182	-0.0029	-0.0032		DH
v445 Cas	V	48151.4726	+0.0344	= +0.0344		DH
	B	48151.4720	+0.0338	= +0.0338		DH
	U	48151.4720	+0.0338	= +0.0338		DH
EI Cep	V	s 48133.4171	-0.0182	+0.0239		TH/DH
	B	s 48133.4171	-0.0182	+0.0239		TH/DH
GS Cep	V	48060.4838	-0.1314	= -0.1314	+0.0054	DH
	B	48060.4845	-0.1307	= -0.1307	+0.0061	DH

Table I (cont.)

Star	Filt.	Min. hel. 24...	O-C (I) [ d ]	O-C (II) [ d ]	O-C (III) [ d ]	Obs.
	V	48085.4936	+0.1743	= +0.1743	-0.0024	DH
	B	48085.4936	+0.1743	= +0.1743	-0.0024	DH
	V	48088.4365	+0.0292	= +0.0292	-0.0027	DH
	B	48088.4358	+0.0285	= +0.0285	-0.0034	DH
	V s	48102.4205	+0.1172	= +0.1172	+0.0008	DH/TH
	B s	48102.4198	+0.1165	= +0.1165	+0.0001	DH/TH
	V s	48205.4300	+0.0644	= +0.0644	-0.0034	DH
	B s	48205.4293	+0.0637	= +0.0637	-0.0041	DH
WZ Cyg	V	48073.4709	+0.0087	+0.0342		DH
	B	48073.4709	+0.0087	+0.0342		DH
V796 Cyg	V s	48134.3799	-0.0237	= -0.0237		DH
	B s	48134.3792	-0.0244	= -0.0244		DH
V1034 Cyg	V	48062.4680	+0.0148	+0.0059		DH
	B	48062.4673	+0.0141	+0.0052		DH
	U	48062.4666	+0.0134	+0.0045		DH
	V	48104.4745	+0.0134	+0.0044		MZ/DH
	V	48106.4245	+0.0095	+0.0005		MZ/DH
	B	48106.4252	+0.0102	+0.0012		MZ/DH
	V	48107.4051	+0.0131	+0.0042		DH/TH
	B	48107.4058	+0.0138	+0.0049		DH/TH
V1356 Cyg	V s	48095.5099	-	+0.0587		DH/TH
AK Her	V	48100.4112	-0.0026	= -0.0026		TH
UV Leo	V	47945.4790	+0.0098	-0.0098		TH
V501 Oph	V	48093.4750	-0.0075	= -0.0075		DH
	B	48093.4743	-0.0082	= -0.0082		DH
V839 Oph	V s	48067.4452	+0.0267	+0.0630		DH
	B s	48067.4452	+0.0267	+0.0630		DH
	U s	48067.4459	+0.0274	+0.0637		DH
	V	48120.4113	+0.0279	+0.0642		DH
	B	48120.4113	+0.0279	+0.0642		DH
	U	48120.4120	+0.0286	+0.0649		DH
GP Peg	V	48115.4362	-0.0038	-0.0224		TH
SV Tau	V	47947.3980	-0.0058	= -0.0058		DH/TH
	B	47947.3987	-0.0051	= -0.0051		DH/TH
GR Tau	V	47945.2937	-0.0170	-0.0063		DH
	B	47945.2943	-0.0164	-0.0056		DH
XY UMa	V	47944.3526	+0.0004	+0.0073		DH
	B	47944.3526	+0.0004	+0.0073		DH
ZZ UMa	V	47967.4137	-0.0031	= -0.0031		DH
	B	47967.4130	-0.0037	= -0.0037		DH

(the secondary minimum is supposed to be symmetric between the primary ones).

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