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PHOTOELECTRIC MINIMA OF ECLIPSING BINARIES

The following Table gives photoelectric minima obtained during the year 1976 at the Ege University Observatory,Izmir (Turkey) and the Nürnberg Observatory (Germany). Minima of eclipsing binaries observed at both observatories 1960-1975 were published in Astr.Nachr. 288, 69(1964); 289, 191 (1966); 291, 111 (1968);IBVS 456 (1970), 530 (1971), 647 (1972), 937 (1974), 1053 (1975) and 1163 (1976).

The Table gives the heliocentric minima, two different O-C's, the type of filter (UBV), the abbreviations of the names of the observers and the type of the instruments used (Izmir: 48 cm Cassegrain, Nürnberg: 34 cm Cassegrain, both with phototube 1P21).

Abbreviations of the observers' names:

Ad = A. Durgut	He = W. Hetterich
Ar = G. Arneth	Kä = H. Kästner
Be = G. Besold	Me = T. Mertelmeier
Bl = A. Blenner	Rd = E. Roderer
Bo = G. Bode	Sb = R. Sendelbeck
Eb = J. Ebersberger	Si = B. Schieweck
Ek = S. Ertükel	Sr = C. Sezer
Er = A.Y. Ertan	We = Th. Weber
Gr = R. Gröbel	

Remarks:

O-C (I) : GCVS, Moscow 1969/70 or First or Second or Third Supplement to the Third Edition of the GCVS. Moscow 1971, 1974 and 1976

O-C (II) : SAC 48, Krakow 1976

The (O-C)'s for secondary minima (Min II) were calculated on the supposition that they are symmetric between primary minima (if no special data are given).

m: only the elements I or the elements II give secondary minimum.

The sign = between O-C(I) and O-C(II) indicates, that the elements (I) and (II) are equal.

The sign : means that the time of minimum (last decimal) is uncertain.

Star	Min.hel. 2442 -2443	O-C (I)	O-C (II)	Filt.	Obs.	Instr.	Rem.
AB And	962.492	+0.004 =	+0.004	V	He/Si	34	
BX And	012.4755	+0.0021=	+0.0021	V	Kä/Me	"	
KP Aql	989.447	-0.003	-0.001		Kä/Me/Si	"	
OO Aql	960.4541:	-0.0003:	+0.0112:(m)		Gr/Si	"	
BF Aur	808.4555:	+0.0030:	-0.0062:		Eb/Gr/Si	"	
	139.350 :	+0.005 :	-0.004 :		Eb/Si	"	
i Boo	828.4615:	-0.0009:	+0.0131:		Eb	"	
	841.585	0.000	+0.014		Bl/Eb/Gr	"	
	849.354	+0.002	+0.016		Bl/Bo/Gr	"	
	849.486 :	0.000 :	+0.014 :		Bl/Bo/Gr	"	MinII
	869.4358:	-0.0024:	-0.0120:	V	Eb/Bl	"	
	869.4371:	-0.0011:	+0.0133:	B	"	"	
	869.5685:	-0.0036:	+0.0108:	V	"	"	MinII
	869.5675:	-0.0046:	+0.0098:	B	"	"	"
	886.442	-0.003	+0.012	V	Bl/Si	"	
	886.442	-0.003	+0.012	B	"		
	886.578	0.000	+0.014	V	Bl/Si	"	
	937.462	-0.002	+0.014		Eb/Si	"	
SV Cam	138.461	-0.009	-0.004		Kä/Si	"	
VZ CVn	889.435 :	+0.001 :			Bl/Gr/He	"	
RZ Cas	907.4718	-0.0024	-0.0090		Bl/Eb/Si	"	
	078.3906	-0.0044	-0.0112		Bo/We	"	
TV Cas	016.424	-0.021	-0.019		Me/Si	"	
U Cep	806.4320	-0.0096	+0.0018		Eb/He	"	
	963.4980	-0.0079	+0.0044		He/Me/Si	"	
VW Cep	787.4140	-0.0034	+0.0022	B	Ek/Sr	48	MinII
	787.4126	-0.0048	+0.0008	V	"	"	"
	888.4409:	-0.0052:	+0.0011 :		Be/Gr/Si	34	"
	913.4887:	-0.0058:	+0.0007 :	V	Gr/He/Si	"	
	050.4218	-0.0043	+0.0032	B,V	Ad/Sr	48	"
XX Cep	063.4348	+0.0071	+0.0134		Eb/Me	34	
EG Cep	961.4578	+0.0040	+0.0150	V	Eb/Si	"	
MR Cyg	955.497	-0.002	0.000		Gr/Si	"	
MY Cyg	013.4850:	+0.0094:=	+0.0094 :	V	Bl/Gr	"	
477 Cyg	053.3216	+0.0075 =	+0.0075	B,V	Ad/Er	48	
548 Cyg	927.460	0.000	-0.012		Bl/Si	34	

Star	Min.hel. 242-2443	O-C (I)	O-C (II)	Filt.	Obs.	Instr.	Rem.
1034 Cyg	938.459	+0.026	-0.006		Bl/Eb/Si	34	
TW Dra	898.4621:	+0.0013:=	+0.0013:		Bl/Bo/Sb	"	
TZ Dra	966.482	+0.003	+0.011	V	Eb/Gr	"	
AI Dra	880.4335	-0.0025 =	-0.0025		Eb/Si	"	
TX Her	939.4743	-0.0041	+0.0055		Bl/Eb/Si	"	
AK Her	914.4284:	-0.0005:=	-0.0005:		Ar/He/Si	"	
HS Her	956.448	-0.004			Eb/He/Si	"	
UV Leo	838.4473	-0.0047	+0.0072		Eb/He/Rd	"	Min II
XY Leo	841.4395:	-0.014:=	-0.014 :		Eb/Gr	"	
XZ Leo	866.395 :	+0.024 :	+0.024 :		Eb/We	"	
AM Leo	815.4721	-0.0026	-0.0097		Eb/Si	"	Min II
DI Peg	015.4802	-0.0019	-0.0134		Eb/Si	"	
W UMa	815.378	-0.001	-0.011		Eb/He/Si	"	
TX UMa	829.3771	-0.0023	-0.0021		He/Si	"	
VV UMa	842.427	+0.007 =	+0.007		Bo/We	"	
AH Vir	858.4003	+0.0354	+0.0341		Eb/Rd	"	Min II
Z Vul	947.4777	-0.0038	+0.0129	V	Bo/He	"	

E. POHL

Nürnberg Observatory
Regiomontanusweg 1,
85 Nürnberg, F.R.G.

A. KIZILIRMAK

Ege University Observatory
Bornova/Izmir P.K.21,Turkey