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PHOTOELECTRIC MINIMA OF ECLIPSING BINARIES

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

The Table gives the heliocentric minima three 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, or 15 cm refractor, Nürnberg: 34 cm Cassegrain, all with phototube 1P21).

Abbreviations of the observers' names:

Ad = A. Durgut	Ki = A. Kizilirmak
Ar = G. Arneth	Nc = N. Damla
Be = G. Besold	Nr = N. Celikezer
Bo = G. Bode	Od = O. Demircan
Eb = J. Ebersberger	Rd = E. Roderer
Er = A.Y. Ertan	Sb = R. Sendelbeck
Gd = N. Gdür	Sc = H. Schellemann
Gl = Ö. Gülmen	Si = B. Schieweck
Gn = G. Isik	Sr = C. Sezer
Gr = R. Gröbel	Tn = Z. Tunca
He = W. Hetterich	We = Th. Weber
Ib = C. Ibanoglu	

Remarks:

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

O-C (II) : SAC 47, Krakow 1975

O-C (III) : i Boo IBVS 209 (1967) Pohl  
RZ Cas Scientific Reports of the Faculty of Science,  
Ege University No. 120, Astronomy No.12 (1971), A.Kizilirmak

AG Per : The elements with third term (First Supplement to the third edition of GCVS, Moscow 1971) give O-C of about.  $-0^m035$  for Min. I, about  $-0^m050$  for Min.II.

The(O-C)'s for secondary minima (Min II) were calculated on the supposition that they are symmetric between primary minima (if not 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 un-  
certain.

E. POHL  
Nürnberg Observatory  
Lützwstr.10, 85 Nürnberg  
F.R.G.

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

Star	Min.hel.	0-C (I)	0-C (II)	0-C(III)	Filt.	Obs.	Instr.	Rem
RT And	2442 717.3586	+0.0001	-0.0122			Gr/He	34	
OO Aql	301.3758 311.2580	+0.0001(m) -0.0001	+0.0092 +0.0090(m)		B,V B,V	Gd/Od Gd/Od	48 "	
1 Boo	449.501 465.4365: 465.567: 581.397 600.4137:	+0.020 +0.0209: +0.017: +0.018 +0.0198:	+0.008 +0.0087: +0.005: +0.006 +0.0081:	+0.018 +0.0182: +0.015: +0.015 +0.0170:	V V V V V	Eb Gr Gr/Rd Gd/K1 Eb	34 " " 15 34	Mini Mini Mini Mini
SV Cam	517.5142 545.3909 545.3895 771.350 771.350 777.2786 777.2792	-0.0094 -0.0071 -0.0085 -0.008 -0.0105 -0.0099	-0.0051 -0.0028 -0.0042 -0.004 -0.0058 -0.0052		B,V B V B,V B V	Er/G1/Nr G1/Nr/Tn G1/Nr/Tn G1/Nr G1/Nr G1/Nr	48 " " " "	
RZ Cas	454.4755:	+0.0036:	-0.0049:	+0.0064:		Ar/We	34	
TV Cas	590.4729 659.3506 659.3513	-0.0149 -0.0164 -0.0157	-0.0073 -0.0088 -0.0081		B V	Bo/Eb Ad/Gd/Nc Ad/Gd/Nc	" 48 "	
U Cep	452.417	+0.030	+0.003			Ar/Rd	34	
VW Cep	434.3686 449.4002 449.3967 530.388: 556.405 556.409 556.550 556.546 562.397 606.513:	+0.0080 = +0.0106 = +0.0071 = +0.009: +0.004 = +0.008 = +0.009 = +0.005 = +0.012 = +0.015 =	+0.0080 = +0.0106 = +0.0071 = +0.009: +0.004 = +0.008 = +0.009 = +0.005 = +0.012 = +0.015 =		B V V B V B V B,V	Gd/K1 Sr Sr Eb/Rd/Sc Ib/Sr Ib/Sr Ib/Sr Ib/Sr Sr Ar/Eb	15 " " 34 15 " " " " 34	Mini Mini Mini
477 Cyg	628.5150	+0.0057 =	+0.0057			Eb/He	"	
548 Cyg	575.443	+0.005	-0.016			Eb/Gr	"	

Star	Min. hel.	O-C (I)	O-C (II)	O-C (III)	Filt.	Obs.	Instr.	Rem
548 Cyg	2442	+0.0053	-0.0169		B	Er/Gn/Sr	48	MnIII
	631.4055	+0.0050	-0.0172		V	Er/Gn/Sr	"	"
	631.4052	+0.0053	-0.0170		B	Er	"	"
	640.4317	+0.0060	-0.0163		V	Er	"	"
	640.4324	+0.0075	-0.0150		B	Er/Gn/Nc	"	"
	667.5126	+0.0071	-0.0154		V	Er/Gn/Nc	"	"
	667.5122							
RX Her	583.4931	+0.0007	+0.0003		Bo	Bo	34	MnIII
	561.540	+0.037	+0.046		Be/Eb	Be/Eb	"	MnIII
	532.5291	+0.0001 =	+0.0001		Eb/Sb	Eb/Sb	"	"
TX Her	630.3750	-0.0177 =	-0.0177		Gd	Gd	48	"
AK Her	697.4039	-0.0192 =	-0.0192		Eb/S1	Eb/S1	34	"
SW Lac	453.4937	-0.0055	+0.0077		Be	Be	34	"
UV Leo	508.419 :	+0.012 :	+0.025 :		Be/Rd	Be/Rd	"	"
	493.392	+0.002	-0.004		Eb/Rd	Eb/Rd	"	"
	521.375	+0.001	-0.004		Eb/Rd/We	Eb/Rd/We	"	"
AM Leo	472.3982:	+0.0018:	-0.0034:		Eb/Rd	Eb/Rd	"	"
RR Lyn	570.4558:	+0.0069: =	+0.0069:		Eb/Gr/Rd	Eb/Gr/Rd	"	"
502 Oph	451.3304	+0.0166 =	+0.0166		Eb/Gr	Eb/Gr	"	"
FT Ori	712.2435:	+0.0338:	-0.0118:		Eb	Eb	"	"
AT Peg	377.3459		-0.0121		Gd	Gd	15	"
AG Per	384.4722		+0.0136		Gd/Tn	Gd/Tn	48	"
	386.504 :	+0.017 :	+0.017 :		Gd/Sr	Gd/Sr	"	"
	386.500 :	+0.013 :	+0.013 :		Gd/Sr	Gd/Sr	"	"
	668.4971	+0.0164	+0.0164		Gd	Gd	"	"
	727.3307	+0.0169	+0.0169		B,V	B,V	"	"
	728.3113	-0.0169	-0.0169		B,V	B,V	"	"
DM Per	711.5013	+0.0476	+0.0027		Be/He/S1	Be/He/S1	34	"
IZ Per	630.4953	+0.0155 =	+0.0155		Eb/He/Sc	Eb/He/Sc	"	"

Star	Min. hel.	O-C (I)	O-C (II)	O-C (III)	Filt.	Obs.	Instr. cm	Rem
β Per	2442	+0.0022:	-0.0048:		V	Eb/He/Sc	34	
471 Tau	725.4604:	-0.002 :			B	Er/Ib	48	
	723.464 :	+0.001 :			B	Er/Ib	"	
W UMa	450.3821	-0.0068	-0.0062			Be/Bo	34	
AG Vir	451.480	+0.006	-0.006			Eb/Gr	"	MinII
AH Vir	501.408	+0.032	+0.031			Eb/Rd	"	MinII