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PHOTOELECTRIC MINIMA OF ECLIPSING BINARIES

The following Table gives photoelectric minima obtained during the years 1978/79 at the Ege University Observatory, Izmir (Turkey) and the Nürnberg Observatory (Germany). Minima of eclipsing binaries observed at both observatories 1960 - 1977 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), 1163 (1976), 1358 (1977) and 1449 (1978).

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:

Bo = G. Bode	Mi = F. Mittl
Ch = B. Chwastek	Pl = E. Pohl
Eb = J. Ebersberger	Rd = E. Roderer
Er = A.Y. Ertan	Sb = R. Sendelbeck
Gr = R. Gröbel	Sn = S. Evren
Ib = C. Ibanoglu	Tg = I. Thiering
Kt = M. Kurutac	Tm = O. Tümer
Li = B. Liebscher	Tn = Z. Tunca
Me = T. Mertelmeier	

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 51, Krakow 1979

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.

Table

Star	Min.hel.	O-C(I)	O-C(II)	Filt.	Obs.	Instr.	Rem.
	244						
RT And	3880.2460	-0.0078	-0.0043	-	Fl	34	
AB And	3749.4090	+0.0043	+0.0043	V	Eb/Tg	34	
TZ Boo	4013.455	+0.019	-	V	Gr	34	Min II
44 i Boo	3608.473	-0.003 =	-0.003	V	Eb	34	Min II
	3717.480	+0.002 =	+0.002	V	Eb/Tg	34	Min II
	4007.385	-0.003 =	-0.003	V	Gr	34	
SV Cam	3892.254	-0.010	-0.004	-	Gr/Fl	34	
RZ Cas	3861.2794	-0.0042=	-0.0042	V	Fl/Rd	34	
TW Cas	3832.3536	-0.0045	-0.0063	-	Fl	34	
PV Cas	3777.3538	-0.0037(m)	-0.0123	-	Me/Sb	34	
VW Cen	3524.3900	-0.0084	-0.0051	V	Ch/Eb	34	Min II
	4001.4203	-0.0119	-0.0052	V	Li	34	Min II
EG Cep	3617.4529	+0.0032	-0.0018	V	Bo/Eb	34	Min II
AI Dra	3796.3259	-0.0049=	-0.0049	V	Gr/Tg	34	
TX Her	3974.5363	+0.0033	+0.0131	V	Gr/Li	34	Min II
AK Her	3656.5194	-0.0009=	-0.0009	V	Eb/Mi	34	
DI Her	4024.4399	+0.0059=	+0.0059	V	Gr	34	Min II
RT Lac	3772.3161	-0.0210	-0.0264	V	Er/Ib/Sn/Tm	48	
	3772.3168	-0.0203	-0.0257	B	Er/Ib/Sn/Tm	48	
	3782.4647	-0.0204	-0.0259	V	Er/Ib/Sn/Tm	48	
	3782.4654	-0.0197	-0.0252	B	Er/Ib/Sn/Tm	48	
SW Lac	3756.4151	-0.0245	0.0000	V	Ne/Tg	34	
	4069.4412	-0.0208	+0.0018	V	Gr	34	
UV Leo	3608.354	-0.007	+0.006	-	Ch/Eb	34	Min II
XY Leo	3606.396	-0.024 =	-0.024	V	Gr/Me	34	Min II
V 566 Oph	3662.477	+0.043	+0.011	V	Eb/Me	34	
U Peg	3789.353	-0.007	-0.018	V	Gr/Tg	34	Min II
HU Tau	3833.3662	+0.0055=	+0.0055	B,V	Kt/Tm	48	
	3834.3967	+0.0079=	+0.0079	B,V	Kt/Tm	48	Min II
	3835.4228	+0.0058=	+0.0058	B,V	Kt/Tm	48	
	3837.4797	+0.0064=	+0.0064	B,V	Kt/Tm	48	

Table (cont.)

Star	Min.hel. 244	O-C(I)	O-C(II)	Filt.	Obs.	Instr.	Rem.
V 471 Tau	3816.3840	-0.0013	-	B	Ib/Kt/Tm/Tn	48	
	3817.4262	-0.0015	-	B	Ib/Kt/Tm/Tn	48	
	3819.51106	-0.00135	-	B	Ib/Kt/Tm/Tn	48	
	3832.5405	-0.0015	-	B	Ib/Kt/Tm/Tn	48	
	3861.2058	-0.0013	-	B	Ib/Kt/Tm/Tn	48	
W UMa	3864.33283	-0.00135	-	B	Ib/Kt/Tm/Tn	48	
	3563.3995	+0.0063	+0.0011	B,V	Sn/Tm/Tn	48	
	3564.4005	+0.0064	+0.0012	B,V	Sn/Tm/Tn	48	
	3594.4289	+0.0075	+0.0022	V	Bo/Rd	34	
	3928.3998	+0.0078	+0.0014	B,V	Sn/Tm/Tn	48	
	3928.5658	+0.0070	+0.0006	B,V	Sn/Tm/Tn	48	Min II
	3929.4009	+0.0080	+0.0016	B,V	Sn/Tm/Tn	48	
	3929.5668	+0.0071	+0.0006	B,V	Sn/Tm/Tn	48	Min II
	3930.4019	+0.0081	+0.0016	B,V	Sn/Tm/Tn	48	
	4262.3693	+0.0067	+0.0008	B,V	Sn/Tm/Tn	48	
	4275.3814	+0.0070	-0.0006	B	Sn/Tm/Tn	48	
	4275.3816	+0.0072	-0.0004	V	Sn/Tm/Tn	48	
	4279.3855	+0.0074	-0.0002	B,V	Sn/Tm/Tn	48	
	4280.3866	+0.0076	0.0000	B	Sn/Tm/Tn	48	
	4280.3866	+0.0076	0.0000	V	Sn/Tm/Tn	48	
	4298.4035	+0.0081	+0.0004	B,V	Sn/Tm/Tn	48	
	4312.4166	+0.0085	+0.0007	B,V	Sn/Tm/Tn	48	

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