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PHOTOELECTRIC MINIMA OF SELECTED ECLIPSING BINARIES AND MAXIMA OF PULSATING STARS

(BAV Mitteilungen No. 111)

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In this 36th compilation of BAV results, photoelectric observations obtained in the years 1997 and 1998 are presented on 113 variable stars giving 150 minima and maxima. All moments of minima and maxima are heliocentric. The errors are tabulated in column '+/−'. The values in column 'O–C' are determined without incorporation of nonlinear terms. The references are given in the section 'remarks'. All information about photometers and filters are specified in the column 'Rem'. The observations were made at private observatories. The photoelectric measurements and all the lightcurves with evaluations can be obtained from the office of the BAV for inspection.

Table 1: Eclipsing binaries

Variable		Min JD 24..	+/−	Obs	O–C		FI	Rem
AB	And	50748.3342	.0005	HSR	−0.0121	GCVS 85	Ir	4)
ST	Aqr	50754.2783	.0004	KI	−0.0268	GCVS 85		1)
CX	Aqr	50698.4760	.0002	KI	−0.0014	GCVS 85		1)
OO	Aql	50719.3922	.0002	QU	+0.0068	GCVS 85	Ir	4)
V346	Aql	50718.3888	.0002	QU	−0.0065	GCVS 85	Ir	4)
V724	Aql	50711.3160	.0006	KI	−0.0064 s	BAVM 57		1)
VW	Boo	50584.3930	.0005	KI	−0.0223	BAVR 2)		1)
AC	Boo	50618.4434	.0003	QU	−0.0333	GCVS 85	Ir	4)
SV	Cam	50673.4498	.0014	HSR	+0.0358	GCVS 85	Ir	4)
AK	CMi	50839.4615	.0006	KI	+0.2730	GCVS 85		1)
V381	Cas	50750.4849	.0003	QU	−0.0045 s	BAVR 1)	Ir	4)
XX	Cep	50671.4158	.0035	HSR	−0.0163	GCVS 85	Ir	4)
VV	Cet	50743.4553	.0006	KI	+0.0868 s	GCVS 85		1)
		50770.3583	.0006	KI	+0.0867	GCVS 85		1)
SS	Com	50570.3924	.0003	KI	+0.0389 s	BAVR 3)		1)
CC	Com	50556.4122	.0002	KI	−0.0091	GCVS 85		1)
Y	Cyg	50672.3717	.0004	AG	−0.0997 s	GCVS 85	BV	2)
		50702.3365	.0019	AG	−0.0982 s	GCVS 85	BV	2)
CG	Cyg	50702.3863	.0004	AG	+0.0368	GCVS 85	BV	2)
GO	Cyg	50673.3822	.0016	AG	+0.0589 s	GCVS 85	BV	2)
KR	Cyg	50700.4609	.0009	FR	−0.0006 s	GCVS 85		5)
		50753.2828	.0008	FR	−0.0007	GCVS 85		5)
		50755.3856	.0013	FR	−0.0107 s	GCVS 85		5)
		50772.3013	.0005	FR	+0.0019 s	GCVS 85		5)
V382	Cyg	50671.4673	.0004	AG	+0.0500	GCVS 85	BV	2)
V488	Cyg	50686.4273	.0002	AG	+0.1071 s	GCVS 85		1)
V680	Cyg	50715.4429	.0007	QU	+0.0164	BAVR 1)	Ir	4)
V841	Cyg	50700.4466	.0040	AG	+0.0119 s	GCVS 85	BV	2)

Table 1 (cont.)

Variable		Min JD 24..	+/−	Obs	O–C		FI	Rem
V1187	Cyg	50672.4663	.0003	AG	−0.0102	BAVM 73		1)
V1191	Cyg	50672.4550	.0008	AG	+0.0005 s	GCVS 85		1)
V2021	Cyg	50680.4295	.0004	AG			BV	2)
GG	Del	50712.3204	.0003	KI	−0.0160	GCVS 85		1)
BF	Dra	50712.3895	.0010	AG	+0.0148	GCVS 85	BV	2)
CV	Dra	50713.3485	.0006	AG	−0.0005	BAVM 69	BV	2)
UX	Eri	50717.5699	.0003	KI	+0.0913	GCVS 85		1)
		50769.4442	.0004	KI	+0.0905 s	GCVS 85		1)
WX	Eri	50749.5688	.0002	KI	+0.0105	GCVS 85		1)
YY	Eri	50823.3630	.0004	KI	+0.0682	GCVS 85		1)
BL	Eri	50743.6078	.0002	KI	+0.0207 s	GCVS 85		1)
BV	Eri	50840.2387	.0004	KI	−0.0572	GCVS 85		1)
TT	Her	50602.4611	.0003	KI	+0.0276	GCVS 85		1)
FG	Hya	50840.5173	.0003	KI	−0.0498 s	GCVS 85		1)
AM	Leo	50559.3990	.0002	KI	−0.0056 s	GCVS 85		1)
V406	Lyr	50713.3506	.0004	AG	−0.0097 s	BAVM 72		1)
V496	Mon	50823.4426	.0003	KI	−0.0232	GCVS 85		1)
V456	Oph	50653.4324	.0003	KI	+0.0158	GCVS 85		1)
V508	Oph	50616.4631	.0003	KI	+0.0064	GCVS 85		1)
V566	Oph	50640.4252	.0004	KI	+0.0487	GCVS 85		1)
V839	Oph	50637.4307	.0004	KI	−0.0781 s	GCVS 85		1)
ER	Ori	50752.5825	.0002	KI	+0.0202 s	GCVS 85		1)
U	Peg	50712.4420	.0001	KI	−0.0697	GCVS 87		1)
ZZ	Peg	50753.3213	.0005	KI	+0.1358	GCVS 87		1)
AT	Peg	50716.4418	.0003	KI	+0.0032	GCVS 87		1)
AW	Peg	50720.4515	.0027	HSR	+0.0099	GCVS 87	Ir	4)
BB	Peg	50702.4698	.0006	KI	+0.0073 s	GCVS 87		1)
BN	Peg	50702.3840	.0003	KI	+0.0038	GCVS 87		1)
BO	Peg	50750.2738	.0004	KI	−0.0164	GCVS 87		1)
DI	Peg	50672.4793	.0042	HSR	−0.0153	GCVS 87	Ir	4)
		50712.3428	.0024	HSR	−0.0135	GCVS 87	Ir	4)
		50719.4618	.0007	HSR	−0.0127	GCVS 87	Ir	4)
DK	Peg	50711.523 :	.012	HSR	+0.055	GCVS 87	Ir	4)
VZ	Psc	50719.5071	.0008	KI	−0.0563 s	GCVS 87		1)
CU	Sge	50713.3218	.0003	KI	+0.0148	GCVS 87		1)
CW	Sge	50709.3253	.0006	KI	−0.0815 s	GCVS 87		1)
Y	Sex	50823.5701	.0002	KI	+0.0250	BAVR 1)		1)
CD	Tau	50839.3194	.0003	KI	+0.0042	GCVS 87		1)
X	Tri	50702.4451	.0003	QU	−0.0330	GCVS 87		4)
		50703.4166	.0003	QU	−0.0330	GCVS 87	Ir	4)
		50740.3352	.0007	HSR	−0.0327	GCVS 87	Ir	4)
		50773.3669	.0002	HSR	−0.0332	GCVS 87	Ir	4)
AW	Vir	50569.4327	.0002	KI	+0.0095	GCVS 87		1)
AZ	Vir	50571.3857	.0004	KI	−0.0131 s	GCVS 87		1)
BH	Vir	50582.4482	.0003	KI	−0.0053	GCVS 87		1)
AT	Vul	50716.3794	.0009	AG	−0.0795	GCVS 87	BV	2)

Table 2: RR Lyrae and Delta Scuti type stars

Variable		Max JD 24..	+/−	Obs	O–C		FI	Rem
XX	And	50727.46	.01	PS	−0.05	SAC 60		3)
BK	And	50740.4106	.0021	BK	+0.1070	GCVS 85		4)
GP	And	50438.4732	.0020	MAR	+0.0066	GCVS 85		7)
SW	Aqr	50699.3925	.0003	KI	−0.0032	GCVS 85		1)
SX	Aqr	50711.4236	.0021	BK	−0.0473	BAVM 75		4)
AA	Aqr	50772.2756	.0005	KI				1)
BR	Aqr	50752.3593	.0007	KI				1)

Table 2 (cont.)

Variable		Max JD 24..	+/−	Obs	O–C		FI	Rem
CY	Aqr	50683.498	.002	PS	+0.009	GCVS 85		3)
		50683.561	.002	PS	+0.011	GCVS 85		3)
		50683.621	.002	PS	+0.010	GCVS 85		3)
		50720.4871	.0007	ATB	+0.0091	GCVS 85		1)
		50749.2362	.0002	KI	+0.0091	GCVS 85		1)
		50749.2974	.0003	KI	+0.0092	GCVS 85		1)
		50749.3581	.0002	KI	+0.0089	GCVS 85		1)
FY	Aqr	50750.2861	.0042	BK				4)
		50753.3504	.0042	BK				4)
AA	Aql	50692.3804	.0004	KI	+0.0006	BAVM 78		1)
		50721.330	.005	PS	+0.007	BAVM 78		3)
V341	Aql	50713.3787	.0042	BK	+0.0195	GCVS 85		4)
		50717.4235	.0005	QU	+0.0182	GCVS 85	Ir	4)
		50742.2776	.0006	KI	+0.0174	GCVS 85		1)
X	Ari	50752.4650	.0007	KI	+0.0553	BAVR 4)		1)
RV	Ari	50825.2972	.0004	KI	+0.0070	GCVS 85		1)
RW	Ari	50749.5120	.0084	BK	−0.1289	GCVS 85		4)
CM	Boo	50600.4222	.0042	BK	−0.0433	BAVM 75		4)
CQ	Boo	50594.5152	.0010	KI				1)
		50600.4322	.0011	KI				1)
		50603.5227	.0084	BK				4)
CS	Boo	50599.4406	.0021	BK	−0.0009	IBVS 2855		4)
AH	Cam	50716.4437	.0005	QU	+0.1613	GCVS 85	Ir	4)
		50799.3768	.0007	QU	+0.1291	GCVS 85	Ir	4)
		50848.4459	.0007	QU	+0.1565	GCVS 85	Ir	4)
		50855.4172	.0004	QU	+0.1219	GCVS 85	Ir	4)
SS	Cnc	50831.3828	.0007	QU	+0.0466	GCVS 85	Ir	4)
		50849.3800	.0004	QU	+0.0442	GCVS 85	Ir	4)
		50850.4832	.0004	QU	+0.0454	GCVS 85	Ir	4)
AA	CMi	50840.4292	.0009	KI	+0.0226	GCVS 85		1)
RR	Cet	50749.4477	.0005	KI	−0.0012	GCVS 85		1)
RV	Cet	50750.5511	.0042	BK	+0.1243	GCVS 85		4)
		50772.3680	.0010	KI	+0.1221	GCVS 85		1)
RZ	Cet	50799.3557	.0011	KI	−0.0714	GCVS 85		1)
S	Com	50571.4723	.0021	BK	+0.0184	SAC 60		4)
DM	Cyg	50700.4314	.0004	QU	+0.0323	GCVS 85		4)
DX	Del	50714.434	.005	MZ				6)
		50716.3276	.0005	KI				1)
DD	Dra	50719.4997	.0020	AG	+0.0580	BAVM 49	BV	2)
BK	Eri	50770.4669	.0009	KI				1)
VX	Her	50604.4187	.0005	KI	−0.0221	BAVR 5)		1)
BD	Her	50712.3278	.0021	BK	+0.0445	GCVS 85		4)
DY	Her	50593.4602	.0003	KI	−0.0166	GCVS 85		1)
V445	Oph	50601.4440	.0005	KI	+0.0097	GCVS 85		1)
V567	Oph	50638.4789	.0006	KI	+0.0643	GCVS 85		1)
CM	Ori	50841.3259	.0011	KI	−0.0416	GCVS 85		1)
VV	Peg	50752.2609	.0004	KI	−0.0274	GCVS 87		1)
AE	Peg	50740.3450	.0004	KI				1)
		50744.3190	.0003	KI				1)
AO	Peg	50743.3484	.0005	KI				1)
AV	Peg	50741.3834	.0005	KI	+0.0555	GCVS 87		1)
		50770.2653	.0006	KI	+0.0497	GCVS 87		1)
BF	Peg	50744.4394	.0084	BK	+0.1587	GCVS 87		4)
BH	Peg	50799.2432	.0011	KI	−0.0699	GCVS 87		1)
BP	Peg	50717.4813	.0007	ATB	+0.0316	GCVS 87		1)
DY	Peg	50750.3215	.0020	MZ	−0.0012	GCVS 87		6)

Table 2 (cont.)

Variable		Max JD 24..	+/−	Obs	O–C		FI	Rem
DY	Peg	50762.2811	.0003	KI	−0.0015	GCVS 87		1)
RY	Psc	50714.4978	.0004	KI	−0.2402	GCVS 87		1)
		50740.4611	.0005	KI	−0.2327	GCVS 87		1)
NSV361	Psc	50744.4414	.0003	KI				1)
VY	Ser	50848.6679	.0002	MS	−0.0033	BAVR 6)		1)
AN	Ser	50603.4638	.0007	KI	+0.0016	GCVS 87		1)
CW	Ser	50599.4746	.0004	KI	+0.0250	GCVS 87		1)
SS	Tau	50771.5743	.0004	KI	−0.0772	GCVS 87		1)
UX	Tri	50753.4825	.0042	BK				4)
UU	Vir	50562.3948	.0005	KI				1)
		50582.3722	.0004	KI				1)
AT	Vir	50601.5011	.0042	BK	−0.1125	GCVS 87		4)
AV	Vir	50593.4495	.0042	BK	+0.0143	GCVS 87		4)

Remarks:

AG	Agerer, F.	Tiefenbach	MAR	Martignoni, M.	Busto Arsizio (I)
ATB	Achterberg, Dr. H.	Norderstedt	MS	Moschner, W.	Lennestadt
BK	Birkner, C.	Hagen	MZ	Maintz, G.	Bonn
FR	Frank, P.	Velden	PS	Paschke, A.	Rueti (CH)
HSR	Husar Dr. D.	Hamburg	QU	Quester, W.	Esslingen
KI	Kleikamp, W.	Marl			

:	=	uncertain
s	=	secondary minimum
B	=	filter: B
V	=	filter: V
Ir	=	filter: KG 5/2
1)	=	photometer CCD 375x242 uncoated - without filter
2)	=	photometer EMI 9781A - filter: V=GG495,1mm; B=BG12,1mm+GG385,2mm
3)	=	photometer Cryocam 89A - without filter
4)	=	photometer ST-7 - filter: without filter or Ir = KG 5/2
5)	=	photometer OES-LcCCD11 without filter
6)	=	photometer LC14 - without filter
7)	=	photometer starlight Xpress 510x256 - without filter
BAVM nn	=	BAV Mitteilungen No. nn
BAVM 57	=	BAV Mitteilungen No. 57 = IBVS No. 3555
BAVM 72	=	BAV Mitteilungen No. 72 = IBVS No. 4132
BAVM 73	=	BAV Mitteilungen No. 73 = IBVS No. 4133
BAVR 1)	=	BAV Rundbrief 32, 36 ff
BAVR 2)	=	BAV Rundbrief 32,122 ff
BAVR 3)	=	BAV Rundbrief 33,152 ff
BAVR 4)	=	BAV Rundbrief 38, 1 f
BAVR 5)	=	BAV Rundbrief 39, 9 ff
BAVR 6)	=	BAV Rundbrief 41, 1 ff
GCVS nn	=	Gen. Cat. of Variable Stars, 4th ed. 1985,87
SAC xx	=	Rocznik Astronomiczny Nr. xx, Krakow (SAC)