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**PHOTOELECTRIC MINIMA OF SELECTED ECLIPSING BINARIES**

(BAV MITTEILUNGEN NO. 117)

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In this 38th compilation of BAV results, photoelectric observations obtained in the years 1998 and 1999 are presented on 108 variable stars giving 180 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	$O - C$		Fil	Rem
RT And	51076.4564	.0003	QU	-0.0032		GCVS 85	V 3)
	51103.5007	.0003	QU	-0.0029		GCVS 85	V 3)
	51179.3440	.0003	QU	+0.0544	s	GCVS 85	V 3)
AA And	50013.3710	.0022	AG	-0.0806		GCVS 85	BV 2)
AB And	51178.2972	.0010	ATB	-0.0154	s	GCVS 85	1)
BL And	50727.3182	.0011	MS	+0.0067	s	GCVS 85	1)
KN And	50692.5064	.0009	MS	+0.0716		BAVR 3)	1)
EK Aqr	50717.4960	.0003	KI	+0.0253		GCVS 85	1)
EL Aqr	51080.4443	.0008	KI	+0.0053		GCVS 85	1)
OO Aql	51040.4440	.0002	QU	+0.0081	s	GCVS 85	V 3)
V343 Aql	51032.3968	.0005	KI	-0.0285		GCVS 85	1)
V415 Aql	50692.4053	.0010	AG	+0.0029		BAVM 69	BV 2)
V417 Aql	51016.4534	.0003	KI	-0.0444	s	BAVR 2)	1)
V694 Aql	51078.3432	.0005	KI	+0.0016		BAVM 97	1)
GSC 1062.33 (Aql)	51043.3877	.0004	QU				Ir 3)
RX Ari	51146.3969	.0006	KI	+0.0277		GCVS 85	I 1)
EM Aur	50831.5881	.0004	FR	-0.1369	s	GCVS 85	4)
HU Aur	50425.2786	.0024	MS	-0.0199		GCVS 85	1)
IM Aur	51165.504:	.002	AG	+0.544		GCVS 85	BV 2)
	51177.3620	.0002	AG	-0.0707		GCVS 85	BV 2)
	50825.3487	.0004	AG	+0.0448		GCVS 85	BV 2)
KO Aur	50706.5120	.0018	MS				1)
V404 Aur	50749.5073	.0003	MS				1)
	50799.2904	.0007	MS				1)
	50556.3910	.0006	MS	-0.0054		BAVM 68	1)
VW Boo	50953.4088	.0003	KI	-0.0273		BAVR 1)	1)
XY Boo	50547.3679	.0006	AG	+0.0335	s	GCVS 85	BV 2)
	50547.5532	.0008	AG	+0.0335		GCVS 85	BV 2)
CK Boo	50597.4577	.0004	KI	+0.0398	s	GCVS 85	1)
	50926.5076	.0004	KI	+0.0431		GCVS 85	1)

Table 1 (cont.)

Variable	Min JD 24. . .	$\pm$	Obs	$O - C$		Fil	Rem
FF Cnc	50844.4064	.0021	FR	-0.0581		BAVM 65	4)
	50846.3918	.0003	FR	-0.0575	s	BAVM 65	4)
	50848.3768	.0002	FR	-0.0572		BAVM 65	4)
	50850.3603	.0007	FR	-0.0584	s	BAVM 65	4)
BO CVn	50570.4605	.0004	AG			BV	2)
XZ CMi	50897.3279	.0004	KI	-0.0077		GCVS 85	1)
YY CMi	50896.3794	.0035	ATB	+0.0155	s	GCVS 85	1)
AK CMi	50881.3429	.0011	KI	+0.2780		GCVS 85	1)
	50896.3307	.0002	KI	-0.0135		GCVS 85	1)
AM CMi	51185.5041	.0006	AG	-0.0137		GCVS 85	BV 2)
	50514.4794	.0042	ATB	+0.1287		GCVS 85	1)
BH Cas	51123.5502	.0003	AG				1)
	51171.2388	.0011	AG				1)
	51171.4442	.0005	AG				1)
DZ Cas	50692.3721	.0009	AG	-0.1399		GCVS 85	1)
EN Cas	50695.5156	.0036	MS	+0.2375		GCVS 85	1)
	50744.3272	.0002	MS	+0.2339		GCVS 85	1)
V357 Cas	50000.4614	.0006	AG	-0.0233		GCVS 85	1)
	51043.4235	.0006	AG	-0.0454		GCVS 85	1)
V361 Cas	50779.3259	.0006	MS	-0.1604		GCVS 85	1)
	50784.2410	.0032	MS	-0.1612		GCVS 85	1)
V385 Cas	50752.2475	.0018	MS	-0.6597		GCVS 85	1)
V387 Cas	50678.4248	.0009	MS	+0.0384		GCVS 85	1)
V445 Cas	50751.2736	.0038	MS	-0.0023		BAVM 69	1)
V651 Cas	50001.388:	.003	AG	+0.003	s	BAVM 55	BV 2)
WW Cep	50573.4126	.0001	AG	+0.0014		BAVM 71	1)
	50688.4321	.0002	AG	-0.0002		BAVM 71	1)
EG Cep	50899.3352	.0002	DIE	+0.0145		GCVS 85	4)
	50924.3869	.0004	DIE	+0.0135		GCVS 85	4)
	51034.4029	.0001	DIE	+0.0159		GCVS 85	6)
	51040.3910	.0004	DIE	+0.0132		GCVS 85	6)
	51100.3016	.0007	DIE	+0.0154		GCVS 85	6)
	51107.3796	.0001	DIE	+0.0133		GCVS 85	6)
OT Cep	51198.3324	.0006	DIE	+0.0142		GCVS 85	6)
	50850.3762	.0005	AG	-0.0551	s	GCVS 85	1)
RW Cet	50716.5647	.0003	KI	+0.0030		GCVS 85	1)
TT Cet	50750.4538	.0004	KI	-0.0356	s	GCVS 85	1)
TX Cet	50741.4574	.0002	KI	+0.0166		GCVS 85	1)
	51078.5389	.0005	KI	+0.0158		GCVS 85	1)
VV Cet	51137.3383	.0009	KI	+0.0877	s	GCVS 85	I 1)
SS Com	50944.4045	.0007	KI	+0.0458	s	BAVR 2)	1)
CC Com	50881.4817	.0002	KI	-0.0105		GCVS 85	1)
NSV 6177 (Com)	50425.6619	.0011	MS	+0.0082		BAVM 88	1)
	50848.4465	.0001	MS	+0.0265		BAVM 88	1)
KR Cyg	50703.4230	.0004	FR	+0.0035		GCVS 85	4)
	50750.3193	.0033	FR	-0.0062	s	GCVS 85	4)
	50948.5166	.0001	FR	+0.0031		GCVS 85	4)
	51033.4436	.0021	FR	-0.0077	s	GCVS 85	4)
V477 Cyg	51036.4121	.0004	FR	+0.0028		GCVS 85	4)
	50699.4784	.0008	AG	-0.3271		SAC 58	BV 2)
	50700.4395	.0003	FR	+0.1065	s	GCVS 85	4)
	50703.5189	.0014	FR	+0.1031		GCVS 85	4)
	50745.2825	.0004	FR	+0.1085	s	GCVS 85	4)
	50750.3258	.0003	FR	+0.1071	s	GCVS 85	4)
	50751.4475	.0008	FR	+0.1078	s	GCVS 85	4)
	50753.4152	.0009	FR	+0.1137		GCVS 85	4)
	50754.2490	.0002	FR	+0.1067	s	GCVS 85	4)
	50755.3704	.0005	FR	+0.1072	s	GCVS 85	4)
V488 Cyg	50944.5411	.0007	FR	+0.1047		GCVS 85	4)
	50948.4671	.0014	FR	+0.1071		GCVS 85	4)

Table 1 (cont.)

Variable	Min JD 24...	$\pm$	Obs	$O - C$		Fil	Rem
V488 Cyg	51032.5394	.0017	FR	+0.1025		GCVS 85	4)
	51033.3800	.0015	FR	+0.1023	s	GCVS 85	4)
	51034.5027	.0012	FR	+0.1040	s	GCVS 85	4)
	51036.4688	.0011	FR	+0.1082		GCVS 85	4)
	51040.3909	.0013	FR	+0.1067		GCVS 85	4)
V501 Cyg	50702.4527	.0011	MS	-0.1372		GCVS 85	1)
V505 Cyg	51034.4242	.0002	AG	+0.1312	s	GCVS 85	1)
V513 Cyg	50669.3898	.0011	MS	-0.2875		GCVS 85	1)
V628 Cyg	51120.3145	.0014	AG	+0.0034		BAVM 89	1)
V700 Cyg	49999.3024	.0003	AG	+0.0106		GCVS 85	1)
	49999.4474	.0002	AG	-0.0144	s	GCVS 85	1)
V725 Cyg	50745.2837	.0008	FR	+0.1978		GCVS 85	4)
	51033.5446	.0030	FR	+0.2004		GCVS 85	4)
	51036.4825	.0017	FR	+0.2118		GCVS 85	4)
V859 Cyg	51041.4433	.0011	AG	-0.0418	s	GCVS 85	1)
V1004 Cyg	50718.3446	.0011	MS	-0.0993		GCVS 85	1)
V1187 Cyg	51165.2517	.0004	AG	-0.0142		BAVM 73	1)
V1191 Cyg	51165.2414	.0007	AG	+0.0016		GCVS 85	1)
TY Del	51079.4063	.0005	KI	+0.0493		GCVS 85	1)
AV Del	50714.3478	.0003	KI	+0.0299		GCVS 85	1)
DM Del	50717.3117	.0005	KI	-0.0488		GCVS 85	1)
EX Del	51107.2642	.0006	KI	-0.0712		GCVS 85	Ir 1)
FZ Del	51031.4907	.0003	KI	-0.0337		GCVS 85	1)
GG Del	51025.4734	.0003	KI	-0.0169		GCVS 85	1)
BX Dra	50547.4042	.0004	AG	-0.0020		GCVS 85	1)
	50904.3743	.0003	AG	+0.0500		GCVS 85	1)
	50945.4868	.0005	AG	-0.0851	s	GCVS 85	1)
EF Dra	50571.4095	.0007	AG	+0.0087		BAVM 63	BV 2)
BV Eri	51165.3913	.0006	KI	-0.0640	s	GCVS 85	Ir 1)
WW Gem	50859.3343	.0004	QU	+0.0274		GCVS 85	Ir 3)
	51177.4541	.0004	QU	+0.0298		GCVS 85	V 3)
YY Gem	50896.3199	.0001	HSR	-0.0090		GCVS 85	3)
	51163.4047	.0003	QU	-0.0089		GCVS 85	Ic 3)
	51165.4400	.0003	QU	-0.0093	s	GCVS 85	Ic 3)
EY Gem	51176.4544	.0005	AG	-0.1879		GCVS 85	1)
GX Gem	50824.5567	.0003	FR	-0.2961	s	GCVS 85	4)
UX Her	50720.3377	.0080	MZ	+0.0271		GCVS 85	5)
HS Her	50688.4034	.0005	AG	-0.0112		GCVS 85	BV 2)
V728 Her	50948.4841	.0004	AG	+0.0142	s	BAVM 51	1)
V829 Her	50585.4816	.0009	AG				BV 2)
	50571.3716	.0011	MS				1)
	50851.5382	.0006	MS				1)
	50859.5637	.0008	MS				1)
	50885.5546	.0012	MS				1)
50896.4479	.0011	MS				1)	
V878 Her	50573.4298	.0009	AG				BV 2)
AV Hya	51165.6373	.0004	KI	-0.0506		GCVS 85	Ir 1)
EU Hya	50862.4728	.0004	KI	-0.0142		GCVS 85	1)
VY Lac	50000.504:	.002	AG	-0.141	s	GCVS 85	BV 2)
CN Lac	50659.4623	.0011	MS	+0.0897	s	GCVS 85	1)
	50666.4702	.0011	MS	+0.0865	s	GCVS 85	1)
FL Lac	50594.4080	.0011	MS	-0.0617		GCVS 85	1)
	50605.4822	.0011	MS	-0.0607		GCVS 85	1)
IM Lac	51036.4130	.0004	AG	-0.1504	s	GCVS 85	1)
	51081.4401	.0007	AG	-0.1497		GCVS 85	1)
V364 Lac	49995.3088	.0020	AG	+0.1122	s	BAV unp.	BV 2)
UV Leo	50851.3979	.0002	MS	+0.0182	s	GCVS 85	1)
UX Leo	50896.4469	.0003	KI	+0.0154		BAVM 68	1)
XY Leo	50916.3738	.0004	KI	-0.0014		GCVS 85	1)
XZ Leo	51163.5287	.0004	QU	+0.0245		GCVS 85	V 3)

Table 1 (cont.)

Variable	Min JD 24...	$\pm$	Obs	$O - C$		Fil	Rem
AL Leo	50849.4099	.0055	MS	+0.0055		BAVM 53	1)
AP Leo	50926.3561	.0003	KI	-0.0301		GCVS 85	1)
RT LMi	50898.3730	.0004	MS	-0.0022		GCVS 85	1)
SW Lyn	51177.3359	.0007	DIE	+0.0289		GCVS 85	6)
	51197.3050	.0004	DIE	+0.0321		GCVS 85	6)
UZ Lyr	50952.4199	.0014	HSR	-0.0088		GCVS 85	Ir 3)
QU Lyr	51037.4224	.0005	AG	-0.0022		GCVS 85	1)
V404 Lyr	50593.4582	.0011	MS	-0.0696		GCVS 85	1)
	50894.6115	.0007	MS	-0.0660		GCVS 85	1)
BO Mon	51155.5941	.0002	KI	-0.0816		GCVS 85	Ir 1)
V442 Mon	50753.6478	.0011	MS	+0.0308		GCVS 85	1)
V453 Mon	50508.3216	.0011	MS	-0.1435	s	GCVS 87	1)
	50743.6388	.0011	MS	-0.1325		GCVS 87	1)
	50799.5922	.0005	MS	-0.1717	s	GCVS 87	1)
	50824.3763	.0004	MS	-0.1205	s	GCVS 87	1)
	50825.3996	.0003	MS	-0.1277		GCVS 87	1)
	50839.4500	.0002	MS	-0.1613	s	GCVS 87	1)
	50855.2917	.0002	MS	-0.1212	s	GCVS 87	1)
	51165.4676	.0001	MS	-0.1372		GCVS 87	1)
V514 Mon	50863.328:	.002	KI	-0.058	s	GCVS 85	1)
	51138.6780	.0009	MS	-0.0502	s	GCVS 85	1)
	51139.5115	.0005	MS	-0.0527		GCVS 85	1)
	51178.5267	.0008	KI	-0.0536		GCVS 85	Ir 1)
V527 Mon	50855.4057	.0012	MS	-0.0182		GCVS 85	1)
V528 Mon	51199.4747	.0004	MS				1)
V530 Mon	50841.4280	.0064	MS	+0.1085		GCVS 85	1)
	50848.5118	.0008	KI	+0.0977	s	GCVS 85	1)
V532 Mon	50749.6404	.0011	MS	+0.0773		GCVS 85	1)
V634 Mon	50845.397:	.001	MS	+0.067		GCVS 85	1)

**Remarks:**

AG: Agerer, F., Tiefenbach

FR: Frank, P., Velden

MS: Moschner, W., Lennestadt

ATB: Achterberg, Dr. H., Norderstedt

HSR: Husar, Dr. D., Hamburg

MZ: Maintz, G., Bonn

DIE: Dietrich, M., Radebeul

KI: Kleikamp, W., Marl

QU: Quester, W., Esslingen

: = uncertain;

s = secondary minimum

1) = photometer CCD 375  $\times$  242 uncoated, filter: V/Ir

2) = photometer EMI 9781A, filter: V = GG495, 1 mm; B = BG12, 1 mm + GG385, 2 mm

3) = photometer ST-7, filter: V or Ir = KG/2

4) = photometer OES-LcCCD11, without filter

5) = photometer LC14, without filter

6) = photometer pictor 1616XT

BAVM 51 = BAV Mitteilungen No. 51 = IBVS No. 3234

BAVM 53 = BAV Mitteilungen No. 53 = IBVS No. 3401

BAVM 55 = BAV Mitteilungen No. 55 = IBVS No. 3554

BAVM 63 = BAV Mitteilungen No. 63 = IBVS No. 3811

BAVM 65 = BAV Mitteilungen No. 65 = IBVS No. 3859

BAVM 71 = BAV Mitteilungen No. 71 = IBVS No. 4131

BAVM 73 = BAV Mitteilungen No. 73 = IBVS No. 4133

BAVM 88 = BAV Mitteilungen No. 88 = IBVS No. 4386

BAVM 89 = BAV Mitteilungen No. 96 = IBVS No. 4381

BAVM 97 = BAV Mitteilungen No. 97 = IBVS No. 4481

BAVM *nn* = BAV Mitteilungen No. *nn*

BAVR 1) = BAV Rundbrief 32, 122

BAVR 2) = BAV Rundbrief 33, 152

BAVR 3) = BAV Rundbrief 39, 19

BAV unp. = BAV unpublished

GCVS *nn* = General Catalogue of Variable Stars, 4th ed. 19*nn*SAC *xx* = Rocznik Astronomiczny No. *xx*, Krakow (SAC)

[From IBVS 4912]

**Corrections to IBVS No. 4711**

RT	And	instead of	51179.3440	QU	correct is	51178.3440
V477	Cyg		50699.4784	AG		50693.4784