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**PHOTOELECTRIC MINIMA OF SELECTED ECLIPSING BINARIES  
AND MAXIMA OF PULSATING STARS**

(BAV MITTEILUNGEN NO. 128)

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In this 41st compilation of BAV results, photoelectric observations obtained in the years 1999 and 2000 are presented on 118 variable stars giving 163 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
OO Aql	50363.371	.002	MZ	+0.004	s	GCVS 85	6)
	50714.324	.002	MZ	+0.007		GCVS 85	6)
	50718.375	.002	MZ	+0.003		GCVS 85	6)
ZZ Aur	51262.3749	.0002	RAT RCR	+0.0125		GCVS 85	1)
AP Aur	51249.3922	.0001	RAT RCR	+0.0137	s	BAVM 67	1)
CG Aur	51256.3563	.0009	RAT RCR	+0.0080		GCVS 85	1)
HU Aur	51250.3727	.0003	RAT RCR	-0.0196		GCVS 85	1)
V404 Aur	51189.2731	.0008	MS				1)
TU Boo	51298.3696	.0006	HSR	+0.0752	s	GCVS 85	4)
TY Boo	51278.3840	.0012	MS	-0.0061	s	BAVM 68	1)
TZ Boo	51249.5757	.0003	AG	+0.0478	s	BAVM 68	BV 2)
VW Boo	51314.3832	.0004	KI	-0.0293	s	BAVR 2)	-Ir 1)
i Boo	51298.343 :	.003	AG	-0.064		GCVS 85	BV 2)
AK Cam	51197.4949	.0014	HSR	+0.0044		BAVM 69	4)
WW Cnc	51209.2896	.0009	HSR	-0.0474		BAVR 1)	4)
AD Cnc	51202.3969	.0005	RAT RCR				1)
FF Cnc	51278.3852	.0004	FR	-0.0715		BAVM 65	5)
	51278.3869	.0007	AG	-0.0699		BAVM 65	BV 2)
BI CVn	51250.4335	.0004	AG	+0.0762	s	GCVS 85	BV 2)
BO CVn	51271.363	.004	AG				BV 2)
	51295.4252	.0004	AG				BV 2)
AM CMi	51253.3921	.0013	KI	+0.1316		GCVS 85	-Ir 1)
WW Cep	51270.4395	.0005	AG	+0.0002	s	BAVM 71	1)
EF Cep	51269.3475	.0005	AG	-0.0482		GCVS 85	1)
EM Cep	51303.5652	.0050	HSR	-0.0821		GCVS 85	4)
GI Cep	51194.3465	.0003	AG				1)
SS Com	51271.3553	.0004	RAT RCR	+0.0516	s	BAVR 3)	1)
	51298.3957	.0004	KI	+0.0530		BAVR 3)	-Ir 1)

Table 1: (cont.)

Variable	Min JD 24. . .	$\pm$	Obs	$O - C$		Fil	Rem
CC Com	51266.4692	.0003	KI	-0.0102	s	GCVS 85	-Ir 1)
	51270.3317	.0002	RAT RCR	-0.0098		GCVS 85	1)
TW CrB	51273.4705	.0005	HSR				4)
V488 Cyg	51166.2226	.0002	FR	+0.1032	s	GCVS 85	5)
V726 Cyg	50594.4756	.0020	FR				5)
	50597.4632	.0020	FR				5)
	50599.4512	.0020	FR				5)
	50600.4481	.0020	FR				5)
V963 Cyg	51270.5765	.0004	MS	+0.0016		GCVS 85	1)
V1023 Cyg	50728.4028	.0020	FR				5)
ET Del	50720.3239	.0005	KI				1)
Z Dra	51268.3364	.0006	HSR	-0.1202		GCVS 85	4)
AR Dra	51253.3535	.0001	RAT RCR				1)
AU Dra	51287.3806	.0006	RAT RCR				1)
AX Dra	51177.6711	.0007	HSR	-0.0038		BAVR 1)	4)
BX Dra	51256.4227	.0004	AG	-0.0496	s	GCVS 85	1)
	51270.6090	.0011	HSR	+0.1069	s	GCVS 85	4)
UX Eri	51208.2748	.0004	KI	+0.0983		GCVS 85	-Ir 1)
FG Gem	51250.3034	.0005	KI	-0.0195		GCVS 85	-Ir 1)
V450 Her	51245.506	.007	HSR	+0.160	s	GCVS 85	4)
V829 Her	51294.4410	.0015	AG				BV 2)
V857 Her	51253.6416	.0011	MS				1)
	51270.4594	.0003	MS				1)
	51301.4194	.0034	MS				1)
EU Hya	51266.3619	.0006	KI	-0.0153		GCVS 85	-Ir 1)
FG Hya	51222.4387	.0005	KI	-0.0527	s	GCVS 85	-Ir 1)
SW Lac	50741.346	.002	MZ	-0.048		GCVS 85	6)
TW Lac	50585.5654	.0020	FR	+0.1172		GCVS 85	5)
	51308.4990	.0003	FR	+0.1455		GCVS 85	5)
UZ Leo	51262.3983	.0008	KI	+0.1126	s	GCVS 85	-Ir 1)
XY Leo	51256.4456	.0007	AG	+0.0065		GCVS 85	BV 2)
	51267.3830	.0004	KI	+0.0061	s	GCVS 85	-Ir 1)
XZ Leo	51222.5464	.0004	KI	+0.0262		GCVS 85	-Ir 1)
	51256.4434	.0005	AG	+0.0256	s	GCVS 85	BV 2)
AL Leo	51256.4103	.0006	AG	+0.0081	s	BAVM 53	BV 2)
FL Lyr	51266.5174	.0009	HSR	-0.0018		GCVS 85	4)
V404 Lyr	51299.5501	.0007	MS	-0.0714		GCVS 85	1)
V406 Lyr	51271.5636	.0005	MS	-0.0151		BAVM 72	1)
TV Mon	51197.2898	.0099	HSR	+0.0051		GCVS 85	4)
V453 Mon	51252.3399	.0002	MS	+0.1699		GCVS 87	1)
V913 Oph	51308.6063	.0006	RAT RCR				1)
ET Ori	50750.5646	.0005	KI	+0.0034		GCVS 85	1)
VW Peg	50708.5608	.0020	FR	+0.1333		GCVS 87	5)
	50756.4278		ATB	+0.0037		GCVS 87	1)
RV Per	51178.2660	.0012	HSR	-0.0052		GCVS 87	4)
IK Per	51249.3580	.0012	AG	-0.0899		GCVS 87	BV 2)
IZ Per	50540.579	.0020	KRW ZAU	+0.024		GCVS 87	4)
CC Ser	51262.4794	.0007	AG	-0.0682		GCVS 87	BV 2)
RW Tau	51177.436	.002	ADS BHM	-0.138		GCVS 87	4)
CU Tau	51185.3227	.0003	RAT RCR	+0.0417		GCVS 87	1)
X Tri	51149.3496	.0004	HSR	-0.0346		GCVS 87	4)
TX UMa	50141.4462	.0020	KRW	+0.1218		GCVS 87	4)
	50190.4596	.0020	KRW ZAU	+0.1234		GCVS 87	4)
	50193.5244	.0020	KRW ZAU	+0.1249		GCVS 87	4)
	50239.4733	.0020	KRW	+0.1252		GCVS 87	4)
UX UMa	51273.3666	.0007	HSR	+0.0015		GCVS 87	4)
UY UMa	51209.5455	.0047	HSR	+0.0623	s	GCVS 87	4)
	51236.4310	.0003	AG	+0.0627		GCVS 87	1)
	51236.6203	.0003	AG	+0.0640	s	GCVS 87	1)

Table 1: (cont.)

Variable	Min JD 24. . .	$\pm$	Obs	$O - C$		Fil	Rem
ZZ UMa	51255.3560	.0002	RAT RCR	-0.0025	GCVS 87		1)
	51278.3452	.0002	RAT RCR	-0.0059	GCVS 87		1)
AA UMa	51209.4335	.0011	HSR	+0.0135	GCVS 87		4)
AG Vir	51301.4318	.0008	AG	+0.0092	s GCVS 87	BV	2)
AH Vir	51301.3588	.0017	AG	-0.0927	s GCVS 87	BV	2)
AW Vir	51267.5188	.0005	KI	+0.0136	GCVS 87	-Ir	1)
	51288.3963	.0001	RAT RCR	+0.0053	GCVS 87		1)
AZ Vir	51262.4965	.0005	KI	-0.0154	GCVS 87	-Ir	1)
HW Vir	50925.3928	.0020	BRN STK				4)
	50947.4530	.0020	BRN STK				4)
	50950.4876	.0020	BRN STK				4)
	50953.4055	.0020	BRN STK				4)
	51302.3966	.0002	KI				1)
	51302.4548	.0004	KI				1)
Z Vul	50744.3374	.0007	MZ	-0.0107	GCVS 87		6)
AX Vul	50727.4255	.0020	FR	-0.0213	GCVS 87		5)

Table 2: Pulsating stars

Variable	Max JD 24. . .	$\pm$	Obs	$O - C$		Fil	Rem
RV Ari	51197.2529	.0004	KI	+0.0084	GCVS 85	-Ir	1)
	51222.3868	.0010	ATB	-0.0023	GCVS 85		1)
	51494.6111	.0021	ATB	+0.0081	GCVS 85		1)
TZ Aur	51156.5072	.0003	HSR	+0.0072	GCVS 85		4)
BH Aur	51158.2870	.0014	HSR				4)
RS Boo	51296.4242	.0015	ATB	+0.0229	BAVR 4)		1)
ST Boo	51295.4870	.0060	ATB				1)
TW Boo	51262.4308	.0010	QU	-0.0279	GCVS 85	V	4)
UU Boo	51251.5420	.0015	QU	+0.1129	GCVS 85	V	4)
UY Boo	51197.7229	.0050	HSR	+0.1536	SAC 68		4)
	51295.3498	.0030	HSR	+0.1495	SAC 68		4)
	51302.5016	.0024	HSR	+0.1418	SAC 68		4)
	51302.5020	.0060	ATB	+0.1421	SAC 68		1)
	51306.4111	.0030	HSR	+0.1461	SAC 68		4)
YZ Boo	51293.3993	.0021	ATB	-0.0011	GCVS 85		1)
CG Boo	51271.4341	.0019	MS				1)
CM Boo	51295.3750	.0004	QU	-0.0195	BAVM 75		4)
CS Boo	51253.5379	.0008	MS	-0.0058	IBVS 2855		1)
DD Boo	51299.3926	.0015	MS				1)
DG Boo	51295.4149	.0016	MS				1)
TT Cnc	51266.3889	.0055	ATB	+0.0697	GCVS 85		1)
VZ Cnc	51269.3546	.0008	KI	-0.0047	GCVS 85	-Ir	1)
AQ Cnc	51149.5950	.0007	HSR	-0.0572	GCVS 85		4)
	51165.5025	.0014	HSR	-0.0567	GCVS 85		4)
	51271.3630	.0011	KI	-0.0605	GCVS 85	-Ir	1)
RU CVn	51250.4577	.0025	HSR				4)
UZ CVn	51245.410 :	.007	HSR				4)
VW CVn	51271.3930	.0020	AG	+0.0809	BAVM 74		1)
X CMi	51199.350	.007	PS	+0.012	BAVR 6)		3)
RV CMi	51236.514	.007	PS	-0.236	GCVS 85		3)
AA CMi	51234.3569	.0011	KI	+0.0311	GCVS 85	-Ir	1)
AD CMi	51268.3696	.0004	MS	+0.0013	GCVS 85		1)
RR Cet	51469.4925	.0006	KI	+0.0009	GCVS 85	-Ir	1)
S Com	51279.473	.004	PS	+0.011	SAC 60		3)
SZ CrB	51252.4928	.0018	MS	-0.1797	GCVS 85		1)
XX Cyg	50674.4279	.0020	KRW ZAU	-0.0015	GCVS 85		4)
	50677.3965	.0020	KRW ZAU	+0.0000	GCVS 85		4)
	50677.5315	.0020	KRW ZAU	+0.0001	GCVS 85		4)
	51305.4641	.0007	HSR	+0.0007	GCVS 85		4)

Table 2: (cont.)

Variable	Max JD 24. . .	$\pm$	Obs	$O - C$		Fil	Rem
DD Dra	51273.6228	.0031	HSR	+0.0470	BAVM 49		4)
RR Gem	51165.3897	.0013	HSR	+0.1752	GCVS 85		4)
SZ Gem	50521.397	.002	MAR	-0.033	GCVS 85		2)
	51250.5464	.0017	ATB	-0.0372	GCVS 85		1)
VX Her	51298.3984	.0017	ATB	-0.0196	BAVR 5)		1)
	51349.3944	.0005	KI	-0.0245	BAVR 5)	-Ir	1)
LS Her	51326.4136	.0015	KI	-0.0368	GCVS 85	-Ir	1)
DG Hya	51270.3561	.0009	KI			-Ir	1)
RR Leo	51234.4838	.0006	KI	+0.0318	GCVS 85	-Ir	1)
	51272.4863	.0020	ATB	+0.0332	GCVS 85		1)
	51278.369	.005	PS	+0.034	GCVS 85		3)
ST Leo	51255.4286	.0010	QU	-0.0150	GCVS 85	V	4)
	51288.4104	.0014	ATB	-0.0141	GCVS 85		1)
	51300.3594	.0008	KI	-0.0147	GCVS 85	-Ir	1)
SW Leo	51202.660	.005	PS	+0.002	GCVS 85		3)
SZ Leo	51199.676	.010	PS	-0.229	GCVS 85		3)
AA Leo	51156.6410	.0023	HSR	-0.0555	GCVS 85		4)
Y LMi	51250.3280	.0020	HSR	+0.0184	GCVS 85		4)
TV Lyn	51158.3996	.0028	HSR	+0.0167	GCVS 85		4)
Y Lyr	51250.5405	.0022	HSR				4)
RZ Lyr	51245.6767	.0013	HSR	-0.0202	GCVS 85		4)

**Remarks:**

ADS: Andreas, F., Crimmitschau    AG : Agerer, F., Tiefenbach    ATB: Achterberg, Dr. H., Norderstedt  
 BHM: Böhme, H., Crimmitschau    BRN: Brauner, B., Herford    FR: Frank, P., Velden  
 HSR: Husar, Dr. D., Hamburg    KI: Kleikamp, W., Marl    KRW: Krawietz, A., Kurort Hartha  
 MAR: Martignoni, M., Magnano    MS: Moschner, W., Lennestadt    MZ: Maintz, G., Bonn  
 PS : Paschke, A. Rüti    QU: Quester, W., Esslingen    RAT: Rätz, M. Herges-Hallenberg  
 RCR: Rätz, Ch., Herges-Hallenberg    STK: Strunk, J., Leopoldshöhe    ZAU: Zaunick, H., Radebeul

: = uncertain

s = secondary minimum

1) = photometer CCD 375 × 242 uncoated, filter V/-Ir

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

3) = photometer Cryocam 80A, without filter

4) = photometer ST-7, filter: V or -Ir

5) = photometer OES-LcCCD11, without filter

6) = photometer LC14, without filter

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

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

BAVM 67 = BAV Mitteilungen No. 67 = IBVS No. 3942

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

BAVM 72 = BAV Mitteilungen No. 72 = IBVS No. 4132

BAVM 74 = BAV Mitteilungen No. 74 = IBVS No. 4134

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

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 36,157 ff

BAVR 5) = BAV Rundbrief 39, 9 ff

BAVR 6) = BAV Rundbrief 44,162 f

GCVS *nn* = General Catalogue of Variable Stars, 4th ed. 19*nn*IBVS *nnnn* = Information Bulletin on Variable Stars No. *nnnn*SAC *nn* = Rocznik Astronomiczny Nr. *nn*, Krakow (SAC)**Corrections to IBVS No. 4711**

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

**Correction to IBVS No. 4712**

UY	UMa	instead of	50944.4471	AG	correct is	50944.4531
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**Correction to IBVS No. 4912 [From IBVS No. 5017]**

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UY	CVn	51245.410	HSR	must be deleted
DD	Dra	51273.6228	HSR	must be deleted
SY	Gem	51250.5464	ATB	must be deleted

**ERRATUM FOR IBVS 4912 FROM IBVS 5296**

IBVS No.4912:	UZ	Cvn	51245.410	HSR	must be deleted
	SZ	Gem	51250.5464	ATB	must be deleted