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INFORMATION BULLETIN ON VARIABLE STARS

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**PHOTOELECTRIC MINIMA AND MAXIMA OF SELECTED  
ECLIPSING AND PULSATING VARIABLES**

(BAV Mitteilungen No. 90)

In this 30th compilation of BAV results, photoelectric observations obtained in the years 1995 and 1996 are presented on 92 variable stars giving 148 minima and maxima. All times of minima and maxima are heliocentric. The error of margins 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 and the public observatory of Nürnberg. 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...	+/-	Ph	Obs	O–C	GCVS	Rem
KP Aql	49931.4953		L	BK	–0.0144 s	GCVS 85	6)
OO Aql	49924.4856		L	BK	–0.0020 s	GCVS 85	6)
V337 Aql	49919.54	:	L	KI	+0.10	GCVS 85	3)
V343 Aql	49940.4011		L	KI	–0.0193	GCVS 85	3)
V688 Aql	49938.4609		L	KI	+0.0077	GCVS 85	3)
V1096 Aql	49899.4748	.0013	L	AG	+0.2151 s	GCVS 85	3)
	49924.4847	.0007	L	AG	+0.2187	GCVS 85	3)
	49929.4812	.0005	L	AG	+0.2139 s	GCVS 85	3)
V1353 Aql	49888.5172	.0010	LV	AG	+0.0319	GCVS 85	4)
	49888.5181	.0013	LB	AG	+0.0328	GCVS 85	4)
	49922.4734		L	KI	+0.0329	GCVS 85	3)
AR Aur	50043.3451		L	BUS	–0.0719 s	GCVS 85	2)
IM Aur	49735.4974	.0006	LV	AG	–0.0611	GCVS 85	4)
	49735.4995	.0005	LB	AG	–0.0590	GCVS 85	4)
	50123.4053	.0008	LB	AG	–0.0623	GCVS 85	4)
	50123.4065	.0007	LV	AG	–0.0611	GCVS 85	4)
KO Aur	49789.4544	.0003	L	AG	+0.0437	GCVS 85	3)
MN Aur	50013.3958		L	MS	–0.0532 s	GCVS 85	3)
	50080.3689		L	MS	+0.0059	GCVS 85	3)
XY Boo	49859.4101		L	KI	–0.0045	GCVS 85	3)
AC Boo	49793.5608	.0003	LV	AG	–0.0548 s	GCVS 85	4)
	49793.5609	.0002	LB	AG	–0.0547 s	GCVS 85	4)

Table 1 (cont.)

Variable	Min JD 24..	+/-	Ph	Obs	O-C	GCVS	Rem	
TU	Cam	49734.5241	.0016	LB	AG	+0.0502	GCVS 85	4)
AW	Cam	50147.4369	.0002	LB	AG	-0.0056	GCVS 85	4)
		50147.4370	.0002	LV	AG	-0.0055	GCVS 85	4)
BI	CVn	49761.4371	.0015	LB	AG	+0.0840 s	GCVS 85	4)
		49761.4375	.0013	LV	AG	+0.0844 s	GCVS 85	4)
		49761.6308	.0005	LV	AG	+0.0856	GCVS 85	4)
		49761.6313	.0011	LB	AG	+0.0861	GCVS 85	4)
		50152.3673	.0017	LV	AG	-0.0607 s	GCVS 85	4)
		50152.3678	.0013	LB	AG	-0.0602 s	GCVS 85	4)
		50152.5583	.0006	LB	AG	-0.0618	GCVS 85	4)
		50152.5589	.0007	LV	AG	-0.0612	GCVS 85	4)
BO	CVn	49763.4798	.0004	LV	AG			4)
		49763.4803	.0005	LB	AG			4)
BH	CMi	50138.3806	.0009	LV	AG			4)
		50138.3810	.0007	LB	AG			4)
GT	Cas	49938.5186		L	MS	+0.1550	GCVS 85	3)
OX	Cas	49647.5440	.0012	LB	AG	+0.0256 s	GCVS 85	4)
		49647.5468	.0017	LV	AG	+0.0284 s	GCVS 85	4)
V344	Cas	49660.2910		L	MS	-0.0845	GCVS 85	3)
AH	Cep	49644.3903	.0007	LB	AG	-0.0146 s	GCVS 85	4)
		49644.3908	.0006	LV	AG	-0.0141 s	GCVS 85	4)
CW	Cep	49952.4872	.0007	LB	AG	-0.0283	GCVS 85	4)
		49952.4884	.0005	LV	AG	-0.0271	GCVS 85	4)
		49978.4665	.0008	LV	AG	+0.0242 s	GCVS 85	4)
EF	Cep	49735.2891	.0002	L	AG	-0.1384	GCVS 85	3)
		49763.4757	.0005	L	AG	-0.1341 s	GCVS 85	3)
		50120.4702	.0004	L	AG	-0.1161 s	GCVS 85	3)
EM	Cep	49935.4816	.0024	LB	AG	-0.0664	GCVS 85	4)
		49935.4816	.0012	LV	AG	-0.0664	GCVS 85	4)
RW	CrB	49896.5076	.0004	LV	AG	-0.0157	GCVS 85	4)
		49896.5077	.0007	LB	AG	-0.0156	GCVS 85	4)
TX	Her	49932.5312		L	BK	+0.0050	GCVS 85	6)
AK	Her	49930.4590		L	BK	+0.0074 s	GCVS 85	6)
SW	Lac	49928.4976		L	BK	-0.0293 s	GCVS 85	6)
		49929.4567		L	BK	-0.0324 s	GCVS 85	6)
		50013.4845		L	FR	-0.0335 s	GCVS 85	3)
		50013.6449		L	FR	-0.0334	GCVS 85	3)
V364	Lac	50013.5782		L	FR	+0.0499	GCVS 85	3)
V501	Oph	49906.4484		L	KI	-0.0052	GCVS 85	3)
V506	Oph	49898.4931		L	KI	+0.0246	GCVS 85	3)
V508	Oph	49894.4721		L	KI	+0.0101	GCVS 85	3)
V839	Oph	49912.4721		L	KI	-0.0925	GCVS 85	3)
CP	Ori	49644.5388		L	MS	-0.0484	GCVS 85	3)
ER	Ori	50115.3638		L	KI	+0.0166 s	GCVS 85	3)
U	Peg	50034.2816		L	KI	-0.0631 s	GCVS 87	3)
BB	Peg	50001.3351		L	KI	+0.0060	GCVS 87	3)
		50026.2785		L	KI	+0.0057	GCVS 87	3)
BN	Peg	50003.3540		L	KI	+0.0059	GCVS 87	3)
BO	Peg	50014.2900		L	KI	-0.0149	GCVS 87	3)
DI	Peg	50008.3599		L	KI	-0.0097	GCVS 87	3)
GH	Peg	50005.3224		L	KI	+0.0053	GCVS 87	3)
HW	Vir	49496.397 :		L	HAS DEI			

Table 2. RR Lyrae/Delta Scuti type stars

Variable		Max JD 24..	+/-	Ph	Obs	O-C	GCVS	Rem	
BK	And	50047.2994		L	BK	+0.1038	GCVS 85	6)	
DK	And	50042.4988		L	BK	-0.1116	GCVS 85	6)	
SX	Aqr	50012.3249		L	KI	-0.0401	BAVM 75	3)	
CY	Aqr	50027.2749		L	KI	+0.0091	GCVS 85	3)	
		50027.3360		L	KI	+0.0092	GCVS 85	3)	
V341	Aql	49947.4950		L	BK	+0.0130	GCVS 85	6)	
V793	Aql	49951.422		L	KI	+0.184	GCVS 85	3)	
RV	Ari	50047.3975		L	BK	+0.0077	GCVS 85	6)	
		50047.4871		L	BK	+0.0041	GCVS 85	6)	
RW	Ari	50105.4089		L	BK	-0.0400	GCVS 85	6)	
AH	Cam	50112.4733		L	BK	+0.1782	GCVS 85	6)	
VW	CVn	49471.528	.005	L	AG	+0.000	BAVM 74	3)	
		49472.382	.005	L	AG	+0.004	BAVM 74	3)	
		49474.517	.005	L	AG	+0.014	BAVM 74	3)	
		49480.464	.002	L	AG	+0.012	BAVM 74	3)	
		49511.487	.005	L	AG	+0.011	BAVM 74	3)	
		49734.610	.001	L	AG	+0.021	BAVM 74	3)	
		49786.464	.002	L	AG	+0.027	BAVM 74	3)	
		50114.612	.002	L	AG	+0.092	BAVM 74	3)	
X	CMi	49689.7096		L	PS	-0.0237	GCVS 85	5)	
		49811.410		L	PS	-0.104	GCVS 85	5)	
AA	CMi	49722.4997		L	PS	+0.0235	GCVS 85	5)	
HY	Com	49799.4123		L	MS			3)	
SZ	CrB	49761.6831		L	MS	+0.2202	GCVS 85	3)	
		49771.5558		L	MS	+0.2233	GCVS 85	3)	
XZ	Cyg	49933.5209		L	BK	+0.0660	GCVS 85	6)	
DM	Cyg	49948.4596		L	BK	+0.0298	GCVS 85	6)	
DX	Del	49945.4877		L	KI			3)	
EG	Del	49941.39	:	L	KI	-0.07	GCVS 85	3)	
SW	Dra	48087.4154		LV	WU	GZI	+0.0352	GCVS 85	1)
		48513.5310		LV	WC		+0.0377	GCVS 85	1)
		48651.3896		LV	WU	MSL	+0.0362	GCVS 85	1)
		49130.4853		LV	WU	GZI	+0.0395	GCVS 85	1)
		49788.4544		LV	WU	TRB	+0.0398	GCVS 85	1)
VZ	Dra	49935.4350		L	BK	-0.0317	GCVS 85	6)	
		49944.4264		L	BK	-0.0291	GCVS 85	6)	
XZ	Dra	49934.4547		L	BK	-0.0219	GCVS 85	6)	
RT	Equ	50007.4311		L	PS	-0.1632	GCVS 85	5)	
BK	Eri	50079.252		L	KI			3)	
SZ	Gem	50096.4355		L	BK	-0.0307	GCVS 85	6)	
KV	Gem	50080.4327		L	BK	+0.0051	GCVS 85	6)	
VZ	Her	49938.4492		L	BK	+0.0395	GCVS 85	6)	
DL	Her	49895.466		L	KI	+0.021	GCVS 85	3)	
DY	Her	49890.4357		L	KI	-0.0148	GCVS 85	3)	
LS	Her	49868.4337		L	KI	-0.0044	GCVS 85	3)	
CZ	Lac	50052.3314		L	BK	+0.0276	GCVS 85	6)	
ST	Leo	49834.3805		L	KI	-0.0158	GCVS 85	3)	
AA	Leo	48674.5554		L	PS	-0.1147	GCVS 85	5)	
EH	Lib	49865.4371		L	KI	+0.0017	GCVS 85	3)	
RW	Lyn	50113.5302		L	BK	+0.0076	BAVM 75	6)	
TV	Lyn	50098.3384		L	BK	+0.0240	GCVS 85	6)	
RZ	Lyr	49939.4771		L	BK	+0.0043	GCVS 85	6)	

Table 2 (cont.)

Variable	Max JD 24..	+/-	Ph	Obs	O-C	GCVS	Rem
V567	Oph	49896.5428		L KI	+0.0514	GCVS 85	3)
VV	Peg	50013.3348		L KI	-0.0238	GCVS 87	3)
VZ	Peg	50081.2957		L BK	+0.1391	GCVS 87	6)
BF	Peg	50034.4465		L BK	+0.1763	GCVS 87	6)
BP	Peg	49677.3602		L PS	+0.0249	GCVS 87	5)
		50080.2642		L BK	+0.0284	GCVS 87	6)
DH	Peg	49941.4803		L BK	+0.0218	GCVS 87	6)
		50015.3242		L BK	+0.0232	GCVS 87	6)
		50016.3491		L KI	+0.0261	GCVS 87	3)
DY	Peg	50052.1988		L KI	-0.0004	GCVS 87	3)
		50052.2710		L KI	-0.0011	GCVS 87	3)
KN	Per	50113.3642		L BK	+0.1287	GCVS 87	6)
RU	Psc	50012.3535		L BK	+0.0180	GCVS 87	6)
		50015.493 :		L BK	+0.034	GCVS 87	6)
		50026.4219		L BK	+0.0326	GCVS 87	6)
RY	Psc	50027.4279		L BK	+0.2543	GCVS 87	6)
SS	Psc	50014.447 :		L BK	-0.051	GCVS 87	6)
		50016.4625		L BK	-0.0493	GCVS 87	6)
		50068.2877		L KI	-0.0268	GCVS 87	3)
		50114.3049		L BK	-0.0565	GCVS 87	6)
CW	Ser	49888.4551		L KI	+0.0222	GCVS 87	3)
BC	Vir	49844.387 :		L KI	-0.003	GCVS 87	3)

## Remarks :

AG	Agerer, F.	Zweikirchen	MS	Moschner, W.	LenneStadt
BK	Birkner, C.	Hagen	MSL	Meisel, S.	Nürnberg
BUS	Busch, H.	Hartha	MSR	Moschner, J.	LenneStadt
DEI	Deiningner, H.	Karlsruhe	PS	Paschke, A.	Rueti (CH)
FR	Frank, P.	Velden	TRB	Traub, J.	Nürnberg
GZI	Garzarolli, M.	HoechstAdt	WC	Wieck, M.	Nürnberg
HAS	Hase, F.	Karlsruhe	WU	Wunder, E.	Heidelberg
KI	Kleikamp, W.	Marl			

- : = uncertain  
 s = secondary minimum  
 L = photoelectric observation - without filter  
 LB = as above - filter: B  
 LV = as above - filter: V  
 1) = photometer 1P21 - filter: V = GG11 / B = BG3+GG13  
 2) = photometer Schnitzer  
 3) = photometer CCD 375x242 uncoated - without filter  
 4) = photometer EMI 9781A - filter: V = GG495,1mm / B = BG12,1mm+GG385,2mm  
 5) = photometer Cryocam 89A - without filter  
 6) = photometer ST-7 - without filter  
 GCVS nn = Gen. Cat. of Variable Stars, 4th ed., 1985/87  
 BAVM 74 = BAV Mitteilungen No. 74 = IBVS No. 4134  
 BAVM 75 = BAV Mitteilungen No. 75

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