

BBSAG Bulletin 76

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1985 May 14

109th List of Minima of Eclipsing Binaries

The following tables list 10 photoelectric (now underlined, unlike previous issues) and 166 visual minima obtained mainly during 1985 February to April by the observers

RBr Rafael Brüsweiler, Rüti, Switzerland
RD Roger Diethelm, Rodersdorf, Switzerland
RG Robert Germann, Wald, Switzerland
MKo Michael Kohl, Uster, Switzerland
KL Kurt Locher, Grüt, Switzerland
PLo Patrick Louis, Namur, Belgium
GM George Mavrofridis, Nikea, Greece
APs Anton Paschke, Rüti, Switzerland
HP Hermann Peter, Otelfingen, Switzerland
PWi Patrick Wils, Niel, Belgium

To achieve more conformity with IAU Commission 27 recommendations, the columns have somewhat been modified as follows:

- 1 current number
- 2 1950 right ascension hours and minutes
- 3 1950 declination degrees and tenths
- 4 star name
- 5 p for a primary, s for a secondary minimum
- 6 observed heliocentric Julian date of the minimum, minus 2400000
- 7 observed minus computed date of the minimum,
 - if without asterisk, referred to GCVS elements, and according to the actual situation of a partially issued new catalogue,
 - for stars in ANDROMEDA through CRUX alphabetically, the GCVS 1985 (page 2 of this Bulletin)
 - for stars in CYGNUS through VULPECULA alphabetically, the GCVS 1969, disregarding all later intermediate GCVS issues (pages 3 to 5 of this Bulletin)
 - if with asterisk, deviating from the above rule, because of either
 - lack of period in the catalogue
 - erroneous period in the catalogue
 - catalogue period so inaccurate that the residual would amount to more than one period
- 8 number of observations used, systematically weighted only in the case of the observer APs
- 9 observer, abbreviated as above

Reductions were made mainly using the tracing paper method.

1	2	3	4	5	6	7	8	9
22256	0059+378 WZ And	P	46090.412	-006	14	APS		
22257	0154+419 XZ And	P	46148.332	+004	13	HP		
22258	1958+086 V760 Aq1	P	46173.630	-006	9	KL		
22259	0508+421 SX Aur	P	46118.3503	+0001	7	RD		
22260		S	46121.3746	-0008	8	RD		
22261	0506+395 JT Aur	P	46052.443	-008	9	APS		
22262	0629+325 WU Aur	P	46007.484	+020	15	PLO		
22263	0515+337 AR Aur	P	46113.341	-048	7	PW1		
22264	0502+412 BF Aur	P	46117.395	+004	11	APS		
22265		S	46121.352	+003	10	APS		
22266		S	46159.347	+001	17	APS		
22267	0615+497 HL Aur	P	46119.293	+002	8	HP		
22268		P	46114.313	+002	9	PW1		
22269		P	46170.338	+002	5	HP		
22270	0512+464 IM Aur	P	46118.3664	-0337	7	RD		
22271	1403+302 TU Boo	P	46140.664	-011	6	KL		
22272		P	46175.392	+018	6	RG		
22273		S	46181.378	+005	7	RG		
22274	1418+473 UW BOO	P	46174.399	+011	18	APS		
22275		P	46175.401	+009	10	HP		
22276		P	46175.409	+016	12	APS		
22277		P	46176.418	+021	13	APS		
22278		P	46180.421	+004	9	HP		
22279		P	46180.436	+020	13	APS		
22280	0631+823 SV Cam	P	46117.461	+010	14	APS		
22281		P	46145.340	+015	12	APS		
22282	1137+805 AL Cam	P	46121.314	-019	7	MKO		
22283	0837+200 RY Cnc	P	46148.346	+023	6	KL		
22284	0836+320 RZ Cnc	P	46167.20	-29	6	KL		
22285	0910+306 WW Cnc	P	46119.451	-249	12	HP		
22286	0844+330 WX Cnc	P	46171.416	-010	11	HP		
22327	1205-129 W Crv	P	46163.260	+005	6	KL		
22328		P	46166.361	+001	10	KL		
22329		P	46173.347	+002	7	HP		
22330		P	46180.333	+004	7	HP		
22331	1227-234 Z Crv	P	46154.480	-003	5	KL		
22332	1122-164 V Crv	P	46101.669	-007	9	KL		

a Elements according to BBSAG Bulletin 65, p.6
 b Elements according to BBSAG Bulletin 63, p.5

1	2	3	4	5	6	7	8	9
22333	2021+431	UW	Cyg	p	46181.524	+0.036	6	KL
22334	2027+390	V	456 Cyg	s	46158.575	+0.021	7	KL
22335	1940+315	V	947 Cyg <u>neu</u>	p	46154.597	-0.017	6	KL
22336	2041+383	V	1788 Cyg		46179.5	.0 *	5	KL * elements according to BBSAG Bulletin 68 page 6
22337	1143+725	Z	Dra	p	46092.470	+0.026	7	GM
22338				p	46145.409	+0.026	6	KL
22339	1822+589	RZ	Dra	p	46174.485	-0.020	11	APs
22340	1638+608	WW	Dra	s	46175.376:	-0.097:	8	RG
22341	1238+666	AX	Dra <u>neu</u>	p	46115.339	-0.038	8	PWi
22342	1633+572	CM	Dra	p	46148.617	-0.714 *	7	KL * elements according to PASP 87 page 168 (1975)
22343	1922+698	NSV	11987 Dra	p	46148.667	-0.369 *	4	KL * elements according to BBSAG Bulletin 72 page 4
22344				p	46180.550	-0.414 *	6	KL
22345	0352-151	RU	Eri	p	46046.326	+0.022	15	APs
22346				p	46101.321	+0.016	13	APs
22347	0322-012	WX	Eri	p	46120.310	+0.010	8	HP
22348	0410-109	YY	Eri	p	46116.312	-0.016	17	APs
22349	0625+206	SX	Gem	p	46121.359	-0.046	25	APs
22350	0733+170	TX	Gem	p	46157.337	-0.006	10	KL
22351				p	46171.350	+0.007	10	HP
22352	0731+320	YY	Gem	p	46121.377	+0.007	7	RD
22353	0648+214	AF	Gem	p	46078.451	-0.020	7	GM
22354				p	46093.368	-0.025	7	GM
22355				p	46119.481	-0.025	10	HP
22356	0749+273	GW	Gem	p	46121.323	-0.025	9	PWi
22357				p	46148.358	-0.027	15	HP
22358				p	46171.439	-0.027	8	HP
22359				p	46173.419	-0.025	8	HP
22360	1712+308	TU	Her	p	46176.578	-0.052	6	KL
22361	1806+458	DQ	Her	p	46173.524	+0.002	6	KL
22362	1755+329	ES	Her	p	46176.601	-0.144	6	KL
22363	0812+007	WY	Hya	p	46116.458	+0.022	9	HP
22364	0934+265	Y	Leo	p	46092.342	+0.148	7	GM
22365				p	46119.319	+0.148	10	RG
22366	0945+132	UU	Leo	p	46168.468	-0.020	10	HP
22367	1036+145	UV	Leo	s	46115.514	-0.007	15	APs
22368				p	46116.413	-0.008	12	APs
22369	1038+138	UZ	Leo	s	46121.438	-0.097	8	RD
22370	1000+173	XZ	Leo	p	46174.464	+0.037	16	APs

1	2	3	4	5	6	7	8	9
22372				p	46176.402	+.024	10	RBr
22373				p	46176.411	+.033	24	APs
22374	1143+251	BL	Leo	p	46148.349	-.011	5	KL
22375	0557-202	RS	Lep	p	46092.325	-.005	6	GM
22376	0852+467	RY	Lyn	p	46090.330	+.036 *	6	GM
22377				p	46120.472	+.041 *	10	HP
								*elements according to JAAVSO 1977 page 49
22378	0804+419	SW	Lyn	p	<u>46121.4187</u>	<u>+.0141</u>	8	RD
22379	0810+574	SX	Lyn	p	46153.351	-.429	11	HP
22380	1916+329	BV	Lyr <i>neu</i>	p	46175.477	+.022	7	KL
22381	1918+289	PY	Lyr	s	46140.644	+.068	5	KL
22382	1848+333	β	Lyr	p	46118.52	+.22	6	RG
22383	0652-075	RU	Mon	*s	<u>46118.316</u>	<u>+.156</u>	6	RD
								*displaced
22384	0631+089	RW	Mon	p	46167.271	-.004	7	KL
22385	0757-033	BO	Mon	p	46153.377	+.192	10	HP
22386	0700+003	HM	Mon	p	46134.358	+.097	5	KL
22387	1732+073	RV	Oph	p	46101.675	-.006	7	KL
22388	1728+106	V 449	Oph	p	46140.635	+.057	6	KL
22389	1757+135	V 508	Oph	p	46158.639	+.012	6	KL
22390	0458-037	EQ	Ori	p	46121.312	-.110	6	MKo
22391	0505-028	FL	Ori	p	46090.385	+.095	8	GM
22392	0553-094	V 640	Ori	p	46140.300	-.016	6	KL
22393	0320+464	RT	Per	p	46092.436	-.079	5	GM
22394				p	46110.279	-.074	7	HP
22395				p	46121.318	-.077	8	MKo
22396	0257+390	ST	Per	p	46120.402	-.035	9	HP
22397	0406+464	XZ	Per	p	46119.392	+.020	8	HP
22398				p	46172.365	+.017	10	HP
22399	0404+333	AG	Per	p	<u>46118.305:</u>	<u>-.035:</u>	7	RD
22400	0256+437	IU	Per	p	46091.380	+.083	8	GM
22401				p	46115.370	+.077	36	APs
22402				p	46121.380	+.088	7	MKo
22403	0157+530	KW	Per	p	46116.335	+.054	9	HP
22404	0850-273	RZ	Pyx	s	46163.358	+.211	9	KL
22405				s	46165.321	+.205	6	KL
22406				p	46166.313	+.212	8	KL
22407				s	46167.298	+.213	8	KL
22408	1555+224	AU	Ser	s	46101.703	-.005 *	6	KL
								*elements according to the GCVS 1974
22409	1534+190	LX	Ser	p	46154.606	+.037 *	7	KL
22410				p	46175.518	+.036 *	8	KL
								*elements according to IAUC 3466
22411	0401+280	RW	Tau	p	46113.375	-.097	10	PWi
22412	0549+281	SV	Tau	p	<u>46116.366</u>	<u>-.040</u>	7	RD
				p	46116.379	-.027	14	HP

22414	0549+163	AM Tau	p	46091.423	-.195	6	GM	
22415	0345+222	EQ Tau	p	46119.333	-.004 *	8	RG	*elements according to the GCVS 1976
22416	0538+260	GQ Tau	p	46128.309	-.024	7	RG	
22417	0129+301	V Tri	p	46119.308	+.019	8	HP	
22418	0158+276	X Tri	p	46101.283	-.050	12	RG	
22419	1207+563	TY UMa	p	46119.322	+.007 *	9	RG	*elements according to IEVS 1949
22420	1335+522	UX UMa	p	46140.639	+.001	5	KL	
22421	0935+562	VV UMa	p	46116.419	+.152	9	HP	
22422			p	46171.404	+.148	9	HP	
22423	0906+547	XY UMa	p	46121.300	-.009	7	MKo	
22424			p	46175.430	-.005	9	HP	
22425	0928+497	XZ UMa	p	46047.416	-.071	7	MKo	
22426			p	46168.431	-.065	9	HP	
22427	1108+467	BM UMa	s	46173.400	+.014 *	6	KL	*elements according to the GCVS 1976
22428	1504+869	RZ UMi	s	46144.606	-.018 *	6	KL	*elements according to Π3 II 4 page 169 (1982)
22429	1313-172	UW Vir	p	46172.477	+.413	17	HP	
22430	1356-014	BH Vir	p	46175.433	+.008	6	HP	
22431	1932+205	NO Vul	p	46180.548	-.013	5	KL	*elements according to the GCVS 1976

BD + 37⁰ 2641 Bootis

A Large Amplitude E A Binary

This star has very recently been found to show eclipses by Peniche, González and Peña, who registered a beginning descending branch at least 0^m.5 deep in the V band (IEVS 2690).

My visual survey has yielded a descending branch 1^m.6 deep that took place roughly at JD 2446189.6 .

K. Locher