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**CCD MINIMA OF SELECTED BINARY STARS IN 2001**

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<b>Observatory and telescope:</b>	
40-cm $f/5$ Newton telescope of the Paolo Pizzinato Private Astronomical Observatory (Bologna, Italy)	

<b>Detector:</b>	HiSis-23 CCD camera, thermoelectrically cooled, KAF-400 chip, unfiltered
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<b>Method of data reduction:</b>	
Reduction of the CCD frames was made with Astroart <sup>1</sup> package.	

<b>Method of minimum determination:</b>	
The minima times were computed with Kwee-van Woerden (1956) method using a separate software available on the World Wide Web.	

<b>Observed star(s):</b>							
Star name	GCVS type	Coordinates (J2000)		Comp. star	Ephemeris		Source
		RA	Dec		E 2400000+	P [day]	
AD And	EW	23 36 44	+48 40 19		43045.856	0.98619023	1
DD Aqr	EB	22 45 52	+01 02 54		28395.162	0.7210107	1
TW CrB	EB	16 06 51	+29 16 01		43295.3925	0.58887477	1
WZ Cyg	EB	20 53 06	+38 49 42		48073.4680	0.5844691	1
AE Cyg	EA	21 13 14	+30 44 25		44586.229	0.96918718	1
CG Cyg	RS	20 58 13	+35 10 28		45892.442	0.6311435	1
DK Cyg	EW	21 35 02	+34 35 44		49918.4467	0.47069290	1
V387 Cyg	EA	21 15 36	+37 30 02		50333.312	0.6405964	1
V456 Cyg	EA	20 28 50	+39 09 15		48768.457	0.8911966	1
TT Her	EB	16 54 23	+16 50 12		48839.4108	0.91207944	1
V839 Oph	EW	18 09 21	+09 09 06		49536.3915	0.40900516	1
BN Peg	EA	21 28 02	+05 00 13		50003.3540	0.713298	1
BX Peg	EW	21 38 53	+26 42 23		48174.5310	0.28041747	1
BU Vul	EA	20 46 18	+28 15 44		50681.434	0.56899379	1

<b>Source(s) of the ephemeris:</b>	
1. Rocznik Astronomiczny Obserwatorium Krakowskiego ephemerides (SAC 72, 2001).	

<sup>1</sup>Astroart is a copyright by MSB Software.

<b>Times of minima:</b>						
Star name	Time of min. HJD 2400000+	Error	Type	Filter	$O - C$ [day]	Rem.
AD And	52151.4062	0.0022	I	—	−0.0304	
DD Aqr	52173.4541	0.0011	I	—	−0.0087	
TW Crb	52147.3747	0.0002	I	—	0.0167	
WZ Cyg	52134.3673	0.0004	I	—	0.0046	
AE Cyg	52131.3486	0.0011	I	—	−0.0066	
CG Cyg	52129.3435	0.0005	I	—	−0.0622	
DK Cyg	52144.3613	0.0006	I	—	−0.0170	
V387 Cyg	52149.4076	0.0003	I	—	0.0012	
	52158.3775	0.0006	I	—	0.0026	
V456 Cyg	52135.3909	0.0002	I	—	−0.0101	
TT Her	52149.3434	0.0021	I	—	−0.0041	
V839 Oph	52143.3865	0.0012	I	—	−0.0067	
	52150.3345	0.0021	I	—	−0.0113	
BN Peg	52145.3848	0.0009	I	—	−0.0087	
BX Peg	52121.4212	0.0003	I	—	0.0104	
BU Vul	52124.4077	0.0003	I	—	0.0014	
	52136.3578	0.0009	I	—	0.0025	

### **Acknowledgements:**

We would like to thank Dr. Robert H. Nelson for his software EBmin to calculate predictions of the EB star minima.

### References:

Kwee, K. K., & van Woerden, H., 1956, *Bull. Astron. Inst. Neth.*, **12**, 327  
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