MOA catalogue of eclipsing binary stars in the Small Magellanic Cloud

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Table 3. The 35 new systems identified in the MOA catalogue of eclipsing binary stars in the SMC.

Designation and coordinates (J2000) Name MOA J	Extra digit§	$\mathrm{B_M}$ R_M (max.)	**Period** (days)	**Primary Epoch** HJD −2450680	**Remarks**
00 43 10.8	3	15.96	7.903	1.959	
−73 23 39	*.7*	*15.60*	±0.003	±0.006	
00 44 06.9	2	17.42	2.43682	0.914	
−72 43 32	*.8*	*17.96*	±0.00003	±0.001	
00 46 13.2	2	15.94	3.712	1.86	Cepheid?
−72 57 55	*.4*	*16.00*	±0.001	±0.01	
00 46 34.0	4	16.18	3.7015	1.30	Cepheid?
−73 06 00	*.3*	*16.10*	±0.0002	±0.02	
00 47 29.5	9	14.42	1.12508	0.41	
−73 25 01	*.9*	*15.10*	±0.00005	±0.01	
00 48 45.3	9	16.82	0.91365	0.819	
−72 38 29	*.3*	*17.54*	±0.00004	±0.006	
00 49 13.2	1	16.26	0.98910	0.968	
−72 58 23	*.3*	*16.81*	±0.00005	±0.008	
00 49 20.2	5	16.70	1.05780	0.211	
−73 00 01	*.5*	*16.93*	±0.00002	±0.004	
00 50 10.4	3	15.72	2.0739	0.38	
−72 37 36	*.3*	*16.38*	±0.0002	±0.02	
00 50 18.4	0	14.12	1.8399	1.084	
−72 38 55	*.2*	*14.78*	±0.0002	±0.006	
00 51 24.5	3	14.87	0.56565	0.03	
−72 40 14	*.6*	*15.50*	±0.00008	±0.01	
00 51 57.8	5	16.47	1.5422	1.190	
−73 24 58	*.0*	*16.99*	±0.0002	±0.004	
00 52 34.6	3	16.62	3.373	0.422	possibly eccentric
−73 33 05	*.0*	*17.02*	±0.001	±0.007	
00 52 53.3	3	15.67	1.53890	0.764	
−72 09 50	*.4*	*16.35*	±0.00003	±0.006	
00 53 00.1	6	14.22	0.72149	0.23	
−73 11 23	*.1*	*14.99*	±0.00002	±0.01	
00 53 34.4	9	15.02	0.80633	0.75	
−72 42 31	*.6*	*15.71*	±0.00002	±0.01	
00 53 55.9	1	16.09	2.2199	1.202	
−72 04 58	*.9*	*16.76*	±0.0002	±0.005	
00 54 17.1	7	15.46	1.1007	1.07	
−72 37 10	*.7*	*15.78*	±0.0001	±0.02	
00 55 52.0	0	15.24	1.2704	0.839	
−72 02 29	*.3*	*15.99*	±0.0002	±0.009	
00 56 11.6	1	13.72	4.482	1.770	eccentric
−72 18 24	*.2*	*14.52*	±0.002	±0.004	

§IAU-approved designations are formed from coordinates truncated to the level at which there is no ambiguity between sources. The extra digit column provides additional significant figures (e.g. for spacecraft pointing). For example, the system MOA J004310.8−732339 has J2000 coordinates $00^{\mathrm{h}}43^{\mathrm{m}}10\overset{\mathrm{s}}{.}83$, $-73^{\circ}23'39\overset{''}{.}7$

Table 3 (continued).

Designation and coordinates (J2000) Name MOA J	Extra digit	$\mathrm{B_M}$ $\boldsymbol{R_M}$ (max.)	**Period** (days)	**Primary Epoch** HJD −2450680	**Remarks**
00 56 15.6	1	15.94	1.3182	0.407	
−72 13 24	*.8*	*16.55*	±0.0001	±0.008	
00 56 23.5	9	14.02	2.3195	1.936	
−72 21 23	*.7*	*14.78*	±0.0001	±0.003	
00 56 24.2	1	14.74	1.6202	1.580	
−72 01 44	*.9*	*15.50*	±0.0002	±0.003	
00 57 03.0	3	16.08	1.5837	1.042	
−72 22 46	*.3*	*16.70*	±0.0001	±0.004	
00 58 21.3	7	15.52	3.111	1.873	probably eccentric
−72 01 07	*.2*	*16.25*	±0.002	±0.005	
00 58 22.3	5	16.25	1.05184	0.626	
−72 40 09	*.0*	*16.68*	±0.00002	±0.004	
00 58 24.4	0	14.89	1.47120	0.938	
−72 05 32	*.5*	*15.60*	±0.00003	±0.003	
00 59 11.4	3	17.24	1.29380	0.380	
−72 01 47	*.6*	*17.92*	±0.00003	±0.003	
00 59 30.2	7	15.32	3.3070	2.768	
−72 02 53	*.1*	*15.98*	±0.0005	±0.008	
00 59 36.1	5	13.60	1.9496	0.47	
−72 15 57	*.3*	*14.32*	±0.0003	±0.01	
01 00 42.4	7	14.56	1.5953	0.589	
−72 24 57	*.1*	*14.91*	±0.0002	±0.009	
01 00 50.8	6	16.14	1.4868	1.398	
−72 20 17	*.8*	*16.67*	±0.0001	±0.005	
01 01 36.8	5	15.42	1.6766	0.755	
−72 04 15	*.0*	*15.87*	±0.0003	±0.009	
01 01 40.0	9	14.84	5.275	0.446	
−72 03 44	*.2*	*15.43*	±0.002	±0.003	
01 03 22.6	9	14.43	3.477	3.167	
−72 03 22	*.0*	*15.15*	±0.001	±0.004	