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RR LYRAE VARIABLES IN M 92

New observation of M 92 were made at the Main Astronomical Observatory of the Academy of Sciences of the Ukrainian SSR during 1964 - 1965. The procedure of letermining magnitudes was described in (1). On the basis of the examination of all the 311 plates available the elements of variables No. 1, 2, 3, 4, 5 and 8 were revised and those for No. 7, 9, 10 and 11 were deduced. Data for variables in M 92 are given in the following table where

	-= 3	P P	and	} =	m _{1/2P} -	1/2 (14+	m.)
Var	Max JD hel 243	Perio d	M	m	3	ŧ	Remarks
1	7403.659	0.7027144	14 ^m 40	15 * 86	0.185	0 ^m 42	· 1
	8170.327	.7028410					
2	7427.366	.6438833	•48	.76	.155	•44	2
3	.120	.6374495	•33	•80	.165	.65	
4	.210	•6289248	• 34	.62	.140	.48	
5	•664	•u197 34 6	.40	•77	.150	.63	3
	871.394	.6196854					
7	•517	•5149114	•45	.70	.200	.07	4
8	427.185	.6732563	•54	.70	.110	.46	5
9.	871.181	.6083514	•53	•77	.100	.46	
10	427.191	.3772912	•76	.64	.370	•06	6
11	.096	• 308 4614	15.08	.63	. 350	•05	7

Remarks

- 1. A change of the period occurred at about J.D. 2438170.
- 2,5,7. Blashko effect. M is the mean of maximum and minimum amplitudes.
- 3. A change of the period occurred at about J.D. 2437871.
- 4. The brightness values M=14^m.01 and m=14^m.52 were observed. This star seems to be an ordinary cluster variable blended by a star of 14.88 mag.
- 6. Two small changes of the period were found at about J.D. 2438170 and 2438230.

Reference

(1)Inf. Bull. Var. Stars Comm.27 I.A.U. 43, 1964

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E.S. KHEYLO

Main Astronomical Observatory

of the Academy of Sciences of the

Ukrainian SSR