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MINIMA OF ECLIPSING VARIABLES

Visual observations of the eclipsing binaries U Cep, RZ Cas, ST Per, UX UMa, X Tri, Z Dra, U Sge and RW Tri were carried out in July-October 1968. For the determination of moments of minima and studying variations of their periods UX UMa and RW Tri were observed with the 19-inch reflector, U Cep and RZ Cas with a binocular and the rest of the stars with the 8-inch refractor. All the observations were made at the astronomical station "Majaki" of Odessa observatory with kind permission of Prof. V.P. Tsessewich.

Star	J.D.hel.	E	O-C	n	n ₁	n ₂	W	Observer
U Cep	2440....							
	086.4957	12519	+0.3900 ¹⁾	26	16	10	2	Surkova
	096.4620	12919	+0.3852	29	15	14	2	"
	111.4211	12925	+0.3864	37	24	13	2	"
	116.4211	12927	+0.3841	20	10	10	2	"
	121.3883	12929	+0.3820	26	12	14	2	"
151.3052	12941	+0.3841	23	11	12	2	"	
RZ Cas	084.3022	19016	-0.0312 ²⁾	25	13	12	2	Surkova
	.3049		-0.0285	20	9	11	1	Skatova
	085.4978	19017	-0.0309	12	5	7	1	Surkova
	.4965	19017	-0.0322	15	5	10	1	Skatova
	097.4458	19027	-0.0354	16	5	11	1	Surkova
	121.3564	19047	-0.0298	15	8	7	1	"
	139.2878	19062	-0.0272	15	10	5	2	"
151.2418	19072	-0.0257	14	5	9	2	"	
ST Per	087.4986	3987	-0.058 ³⁾	19	9	10	1	Surkova
	095.4412	3990	-0.060	35	21	14	2	"
UX UMa	112.2689	64936	-0.0059 ⁴⁾	13	2	11	1	Surkova
	114.2556	64946	-0.0059	9	2	4	1	"
	123.2822	64992	-0.0062	6	4	2	1	"
	151.2105	65134	-0.0052	14	8	6	2	"
	152.1952	65139	-0.0049	18	9	9	2	"
153.1773	65144	-0.0051	16	2	14	2	"	
U Sge	081.4414	6789	+0.0080 ⁵⁾	28	13	9	2	Skatova
	098.3438	6794	+0.0073	29	11	18	2	"
	125.3876	6802	+0.0061	27	13	14	2	"
	135.5318	6805	+0.0085	22	10	12	2	"

Star	J.D.hel.	E	O-C	n	n ₁	n ₂	W	Observer
X Tri	2440....							
	084.5833	11599	+0.0366 ⁶⁾	22	13	9	1	Skatova
	085.5552	11600	+0.0363	29	13	7	1	"
	086.5282	11301	+0.0348	24	12	12	1	"
	121.5041	11637	+0.0343	25	13	12	1	"
	123.4457	11639	+0.0358	14	10	4	1	"
RW Tri	094.4713	20260	+0.0018 ⁷⁾	17	9	8	0,5	Skatova
	108.3849	20320	+0.0024	16	9	7	1	"
	116.5003	20355	+0.0019	16	8	8	1	"
	117.4277	20376	+0.0017	15	6	9	0,5	"
	121.3699	20359	+0.0019	18	9	9	1	"
	123.4565	20385	+0.0016	16	9	7	1	"
	151.2829	20505	+0.0020	19	11	8	1	"
Z Dra	088.965	5024	+0.0226 ⁸⁾	17	9	8	1	Skatova
	111.5781	5041	+0.0278	22	12	10	1	"
	114.2881	5043	+0.0230	19	9	10	1	"
	118.3607	5046	+0.0232	24	12	12	1	"
	126.5032	5052	+0.0211	22	12	10	1	"
	149.5804	5069	+0.0219	25	14	11	1	"

n = total number of estimates of brightness; n₁ = number of estimates in ascending branch; n₂ = number of estimates in descending branch; W = weight of observation.

O-C calculated from the elements:

1. Min hel. JD = 2407890.2957 + 2^d4929005 . E
2. Min hel. JD = 2417355.4233 + 1^d1952519 . E
3. Min hel. JD = 2429528.5897 + 2^d6483488 . E
4. Min hel. JD = 2427341.2221 + 0^d196671379 . E
5. Min hel. JD = 2417130.4151 + 3^d3806184 . E
6. Min hel. JD = 2428815.7484 + 0^d9715382 . E
7. Min hel. JD = 2435396.5142 + 0^d231883283 . E
8. Min hel. JD = 2433268.7074 + 1^d3574376 . E

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