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UBVR OBSERVATIONS OF THE DOUBLE-MODE
 CEPHEID TU Cas

Recently one of us (Berdnikov, 1992) has decomposed available photoelectric observations of all double-mode Cepheids into two oscillations. It was pointed out as well that the number of the existing observations is not sufficient for certain investigation of light curve variations of the majority of these stars. Therefore we continue to carry out the observations of the all accessible double-mode Cepheids.

Photoelectric observations of double-mode Cepheid TU Cas were carried out in summer-autumn 1993. The 60-cm reflector of the Mt. Maidanak observatory of the Tashkent Astronomical Institute was used and 99 UBVR measurements (Table 1) were obtained.

Table 1

JD hel 2440000+	V	U-B	B-V	V-R	JD hel 2440000+	V	U-B	B-V	V-R
9199.4587	7.824	.354	.668	.580	9211.4567	7.641	-	.517	.492
9201.4275	7.681	.326	.559	.528	9212.3348	7.698	-	.585	.533
9202.3738	7.970	-	.692	.610	9212.4531	7.742	-	.601	.545
9202.4582	7.982	.391	.695	.601	9218.3364	7.326	-	.431	.408
9203.3170	7.294	.297	.396	.397	9219.2904	8.003	-	.722	.628
9203.4053	7.407	.329	.460	.443	9219.3935	8.032	-	.737	.622
9203.4635	7.470	.327	.479	.464	9219.4960	8.069	-	.743	.635
9204.3068	8.029	.430	.731	.625	9220.2852	7.353	-	.410	.411
9204.3917	8.050	.418	.734	.635	9220.4262	7.521	-	.501	.476
9204.4688	8.059	-	.739	.627	9221.3362	7.982	-	.707	.615
9205.3160	7.492	.305	.473	.460	9221.4357	7.999	-	.707	.619
9205.3994	7.560	.330	.506	.490	9221.4958	8.009	-	.704	.620
9205.4651	7.610	.313	.542	.504	9222.2874	7.627	-	.531	.482
9206.3392	7.915	-	.676	.595	9222.4131	7.608	-	.508	.494
9208.4036	7.934	-	.673	.605	9222.4993	7.587	-	.501	.494
9208.4685	7.941	-	.690	.600	9224.2996	7.789	-	.581	.529
9207.3247	7.659	-	.531	.494	9224.4228	7.178	-	.353	.361
9207.4061	7.540	.303	.479	.475	9225.2659	7.876	.383	.687	.591
9207.4692	7.459	-	.450	.445	9225.4146	7.948	-	.719	.610
9209.3728	7.195	-	.361	.352	9225.4976	7.984	-	.719	.620
9210.3410	7.933	.396	.698	.608	9226.2677	7.767	-	.558	.532
9210.4273	7.955	-	.710	.610	9226.4096	7.492	-	.444	.440
9211.3143	7.756	-	.574	.523	9226.4975	7.450	-	.446	.437

Table 1 (continued)

JD hel 2440000+	V	U-B	B-V	V-R	JD hel 2440000+	V	U-B	B-V	V-R
9227.2613	7.785	-	.626	.564	9236.2306	7.996	-	.726	.625
9227.4113	7.819	-	.635	.568	9236.4180	8.025	-	.727	.626
9227.5031	7.831	-	.644	.586	9236.5038	8.044	-	.737	.630
9228.2699	7.975	.400	.674	.607	9237.2246	7.515	-	.469	.452
9228.4252	7.951	-	.655	.586	9237.4086	7.574	-	.510	.482
9228.5009	7.918	-	.633	.577	9238.2822	7.823	-	.640	.567
9229.2607	7.556	.318	.512	.498	9238.4102	7.869	-	.646	.588
9229.4226	7.697	-	.583	.547	9239.2181	7.912	-	.645	.569
9229.5009	7.758	-	.625	.561	9239.4039	7.554	-	.483	.467
9230.2657	8.091	-	.730	.630	9239.5115	7.232	-	.374	.366
9230.4017	8.112	-	.729	.630	9240.2295	7.806	-	.643	.581
9230.4995	8.056	-	.692	.613	9240.3416	7.881	-	.689	.597
9231.2656	7.651	-	.589	.516	9240.5125	7.967	-	.721	.621
9231.4090	7.768	-	.632	.561	9241.2317	7.933	-	.647	.575
9231.4989	7.821	-	.653	.571	9241.3623	7.478	-	.450	.432
9232.2514	7.996	-	.696	.608	9241.5133	7.278	-	.379	.379
9232.4005	7.979	-	.681	.600	9242.3301	7.877	-	.668	.590
9232.4991	7.940	-	.661	.582	9242.4162	7.892	-	.687	.587
9233.2564	7.526	-	.484	.475	9243.2117	7.937	-	.656	.581
9233.4038	7.519	-	.488	.473	9243.3614	7.880	-	.631	.562
9234.2528	7.942	-	.692	.605	9244.2354	7.525	-	.516	.470
9234.4191	8.009	-	.710	.618	9244.3904	7.632	-	.559	.519
9234.4986	8.043	-	.702	.627	9244.5094	7.703	-	.606	.531
9235.2473	7.165	-	.352	.339	9245.2323	8.052	-	.730	.621
9235.4187	7.423	-	.466	.443	9245.3672	8.072	-	.729	.619
9235.5030	7.518	-	.508	.483	9298.1402	7.924	-	.695	.600
					9298.2965	8.095	-	.626	.710

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