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PHOTOELECTRIC OBSERVATIONS OF 44 TAU

Three-colour photoelectric observations of the star 44 Tau (δ Scuti type) were accomplished during November - December 1973 on the 40 cm telescope of the Byurakan observatory. Because of rather poor weather conditions we could not effectuate more than six observational series. 42 Tau was taken as comparison star.

The results of our observations are presented in the Table. The Δv , Δb , and Δu values (var.-comp.) are the corresponding differences (44-42) of the instrumental v,b,u magnitudes of 44 Tau and 42 Tau. The system of ubv magnitudes is close to the international UBv system. The mean error of the presented data is of the order of $\pm 0^m.005 - \pm 0^m.007$.

In Figure 1 the Δb values are plotted against JD hel. The obtained curves seem to indicate the existence of a period of about three hours (Desikachary, Astr.Astroph.27,No.3.,1973). A more detailed analysis of the light variation of this star has not been made because of the relatively small number of data. Further observations of the star 44 Tau are planned.

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Date	JD hel	Δv	Δb	Δu
1973	24420..	+	+	+
XI-17	04.35352	.15	.12	.30
	.36533	.17	.15	.37
	.37019	.17	.16	.30
	.38130	.18	.19	.33
	.38685	.20	.19	.37
	.39797	.22	.23	.41
	.40283	.22	.22	.43
	.41394	.26	.27	.43
	.41949	.22	.23	.39
	.43199	.22	.22	.39
	.43755	.19	.19	.32
	.44866	.17	.17	.34
	.45422	.16	.14	.28
	.46602	.15	.13	.28
	.47227	.16	.12	.29
	.48338	.17	.14	.31
	.48894	.16	.13	.28
	.50074	.17	.15	.28
XI-20	07.24735	.19	.21	.41
	.25638	.18	.18	.33
	.25916	.19	.20	.33
	.26610	.19	.19	.35
	.28416	.19	.20	.35
	.29110	.19	.19	.34
	.29318	.22	.20	.43
	.30013	.20	.20	.36
	.30291	.20	.21	.37
	.31055	.20	.21	.37
	.31332	.20	.20	.36
	.32027	.21	.21	.36
	.32305	.21	.21	.38
	.32930	.20	.20	.36
	.33138	.20	.21	.36
	.33832	.21	.21	.36
	.34041	.21	.19	.36
	.34666	.20	.19	.35
	.34874	.21	.20	.35
	.35568	.21	.19	.35
	.35777	.18	.17	.32
	.36402	.17	.16	.32
	.36680	.18	.16	.31
	.37374	.16	.15	.30
	.37582	.17	.15	.31
	.38346	.16	.14	.31
	.38624	.16	.14	.30
	.39318	.17	.14	.30
	.39666	.16	.14	.30
	.40430	.16	.15	.30
	.40638	.18	.16	.31
	.41541	.19	.18	.32
	.41818	.20	.19	.35
	.42443	.20	.20	.35
	.42652	.22	.20	.37
	.43346	.22	.22	.39

Date	JD hel	Δv	Δb	Δu
1973	24420..	+	+	+
XI-20	07.43624	.21	.21	.35
	.44318	.22	.23	.38
	.44596	.23	.23	.37
	.45291	.22	.24	.37
	.45568	.23	.24	.38
	.46263	.22	.23	.36
	.46541	.21	.21	.35
	.47235	.20	.20	.35
	.47513	.20	.20	.32
	.48277	.19	.18	.32
	.48485	.19	.17	.32
	.49180	.17	.17	.32
	.49457	.17	.15	.30
	.50152	.16	.14	.30
XI-26	13.23703	.17	.18	.37
	.24398	.17	.18	.34
	.24606	.22	.22	.37
	.25231	.20	.21	.38
	.25509	.21	.21	.40
	.26203	.20	.21	.38
	.26412	.20	.22	.37
	.27106	.21	.23	.38
	.27384	.21	.21	.38
	.28009	.22	.22	.38
	.28217	.23	.23	.39
	.28912	.23	.22	.37
	.29120	.21	.22	.39
	.29884	.21	.22	.37
	.30092	.19	.20	.36
	.30787	.19	.19	.55
	.31065	.21	.20	.36
	.31899	.20	.18	.33
	.32176	.15	.17	.31
	.32870	.15	.15	.31
	.33217	.17	.15	.32
	.33912	.16	.15	.31
	.34259	.14	.14	.29
	.35231	.16	.14	.29
	.35578	.15	.14	.31
	.36412	.15	.15	.29
	.36690	.15	.17	.31
	.37384	.16	.17	.32
	.37731	.21	.20	.38
	.38426	.21	.20	.38
	.38703	.20	.20	.37
	.39398	.22	.22	.37
	.39745	.22	.23	.37
	.40509	.23	.24	.37
	.40856	.22	.23	.37
	.41690	.25	.26	.40
	.42017	.22	.24	.38
	.42802	.24	.24	.38
	.43078	.23	.23	.38
	.43773	.20	.23	.36

Date	JD hel	Δv	Δb	Δu
1973	24420..	+	+	+
XI-26	13.44120	.21	.19	.34
	.44884	.19	.17	.33
	.45231	.18	.16	.27
	.45926	.16	.13	.27
	.46203	.16	.14	.28
	.46828	.15	.13	.30
	.47037	.14	.11	.26
	.47731	.14	.13	.27
	.48009	.15	.12	.28
	.48773	.17	.15	.30
	.49120	.16	.15	.30
	.49815	.18	.17	.34
XI-27	14.25648	.18	.24	.41
	.26412	.18	.24	.43
	.26620	.18	.20	.39
	.27315	.20	.21	.39
	.27662	.21	.23	.38
	.28356	.21	.21	.35
	.28634	.20	.22	.38
	.29328	.18	.20	.36
	.29606	.19	.20	.33
	.30301	.18	.18	.32
	.30578	.20	.18	.30
	.31203	.16	.14	.29
	.31481	.15	.16	.31
	.32176	.15	.15	.29
	.32384	.16	.15	.31
	.33078	.18	.16	.30
	.33356	.16	.16	.32
	.34051	.17	.17	.31
	.34259	.18	.16	.31
	.34953	.19	.17	.31
	.35162	.19	.17	.31
	.35995	.19	.18	.33
	.36203	.19	.19	.31
	.36898	.18	.18	.33
	.37176	.18	.18	.33
	.37870	.19	.20	.35
	.38078	.17	.17	.31
	.38773	.20	.21	.34
	.39051	.18	.18	.35
	.39745	.19	.19	.35
	.40023	.23	.21	.35
	.40717	.21	.21	.34
	.40995	.21	.20	.36
	.41690	.21	.19	.36
	.41967	.23	.22	.38
	.42731	.22	.22	.37
	.42940	.22	.21	.36
	.43634	.23	.33	.37
	.43912	.21	.21	.36
	.44606	.22	.22	.39
	.44884	.22	.22	.37
	.45578	.22	.22	.38

Date	JD hel	Δv	Δb	Δu
1973	24420..	+	+	+
XI-27	14.45856	.22	.21	.36
	.46551	.20	.20	.36
	.46759	.19	.18	.33
	.47592	.18	.17	.33
XI-28	15.23773	.17	.20	.32
	.24467	.20	.19	.33
	.24676	.18	.16	.34
	.25370	.21	.21	.34
	.25578	.22	.23	.37
	.26273	.20	.21	.34
	.26551	.19	.21	.35
	.27245	.22	.23	.37
	.27523	.21	.23	.37
	.28148	.20	.22	.37
	.28426	.22	.22	.37
	.29120	.23	.22	.37
	.29606	.24	.25	.39
	.30231	.23	.25	.37
	.30509	.21	.23	.34
	.31273	.19	.21	.37
	.31481	.19	.20	.37
	.32106	.20	.21	.37
	.32384	.21	.21	.36
	.33148	.20	.19	.32
	.33356	.17	.17	.32
	.33912	.16	.16	.32
	.34259	.19	.17	.41
	.34815	.15	.14	.29
	.35023	.16	.16	.29
	.35717	.15	.13	.27
	.35926	.17	.14	.30
	.36481	.16	.14	.31
	.36690	.17	.15	.32
	.37245	.16	.15	.30
	.37453	.18	.16	.31
	.38078	.18	.16	.32
	.38287	.18	.17	.32
	.38842	.19	.19	.34
	.39051	.18	.18	.37
	.39606	.19	.19	.34
	.39884	.20	.20	.35
	.40509	.20	.20	.30
	.40717	.20	.20	.34
	.41342	.20	.21	.35
	.41551	.19	.21	.35
	.42176	.20	.22	.35
	.42384	.20	.21	.37
	.43009	.21	.22	.39
	.43217	.21	.20	.35
	.43842	.33	.22	.37
	.44120	.22	.21	.36
	.44745	.19	.19	.36
	.45023	.18	.15	.34
	.45717	.19	.19	.38

Date	JD hel	Δv	Δb	Δu	Date	JD hel	Δv	Δb	Δu
1973	24420..	+	+	+	1973	24420..	+	+	+
XI-28	15.45926	.19	.19	.34	XII-21	38.31453	.20	.20	
	.46828	.19	.20	.36		.32286	.20	.21	
XII-21	38.25203	.15	.14			.32633	.21	.22	
	.26314	.14	.12			.33675	.24	.25	
	.26592	.14	.13			.34092	.21	.21	
	.27425	.15	.15			.35064	.21	.22	
	.27703	.15	.13			.35480	.20	.21	
	.28744	.20	.19			.36381	.19	.19	
	.29161	.16	.16			.36730	.19	.18	
	.29994	.20	.21			.37980	.20	.20	
	.30272	.18	.18			.38467	.18	.18	
	.31105	.21	.22						

