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UBVR OBSERVATIONS OF THE DOUBLE-MODE  
 CEPHEID EW Sct

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 in the majority of these stars. Therefore we continue to carry out the observations of the all accessible double-mode Cepheids.

Table 1

JD hel 2440000+	V	U-B	B-V	V-R	JD hel 2440000+	V	U-B	B-V	V-R
9197.3698	7.948	-	1.730	1.601	9220.2711	8.266	-	1.854	1.692
9198.2252	7.881	1.404	1.697	1.576	9221.3253	7.820	-	1.689	1.543
9198.3195	7.892	1.375	1.704	1.578	9222.2742	7.752	-	1.647	1.541
9199.3265	7.926	1.368	1.737	1.600	9224.2848	8.126	-	1.833	1.654
9200.2336	7.935	1.389	1.722	1.592	9225.2462	8.088	1.438	1.792	1.636
9201.2402	7.956	1.430	1.742	1.612	9226.2482	7.991	1.402	1.744	1.607
9201.3581	7.948	1.360	1.751	1.609	9227.2403	8.000	1.400	1.762	1.607
9202.2454	8.071	1.460	1.795	1.650	9228.2499	7.885	1.383	1.684	1.575
9202.3606	8.098	-	1.817	1.656	9229.2403	7.808	1.376	1.687	1.562
9203.2287	8.201	1.545	1.824	1.669	9230.2433	7.902	-	1.748	1.599
9203.3499	8.199	1.483	1.843	1.673	9231.2446	8.149	-	1.853	1.664
9204.2258	7.885	1.359	1.684	1.560	9232.2318	8.253	-	1.847	1.684
9204.3484	7.852	1.349	1.662	1.568	9233.2339	7.812	-	1.653	1.544
9205.2293	7.672	1.337	1.610	1.522	9234.2333	7.725	-	1.628	1.540
9205.3585	7.704	1.276	1.625	1.541	9235.2271	7.975	-	1.804	1.613
9206.2559	7.894	-	1.751	1.597	9236.2112	8.172	-	1.873	1.669
9206.3683	7.947	-	1.755	1.620	9237.2034	8.152	-	1.826	1.655
9207.2359	8.194	-	1.823	1.690	9238.1957	7.928	-	1.730	1.598
9207.3527	8.186	-	1.889	1.682	9239.1998	7.913	-	1.707	1.588
9209.2200	7.942	1.391	1.706	1.592	9240.2122	7.925	-	1.721	1.592
9209.3607	7.910	-	1.650	1.566	9241.2145	7.930	-	1.720	1.602
9210.2900	7.812	1.355	1.665	1.552	9243.1931	8.117	-	1.825	1.658
9211.2675	7.964	-	1.757	1.612	9244.2177	8.188	-	1.827	1.658
9212.2708	8.040	-	1.777	1.636	9245.2152	7.779	-	1.638	1.545
9218.2849	7.923	1.386	1.726	1.607	9298.1021	7.744	-	1.631	1.530
9219.2760	8.177	-	1.858	1.685					

Photoelectric observations of double-mode Cepheid EW Sct were carried out in summer-autumn 1993. The 60-cm reflector of the Mt. Maidanak observatory of the Tashkent Astronomical Institute was used and 51 UBVR measurements (Table 1) were obtained.

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Reference:

Berdnikov L.N., 1992, *Pis'ma Astron. Zh.*, **18**, 654