

**PHOTOELECTRIC OBSERVATIONS AND
NEW CLASSIFICATION OF V651 Her**

V651 Her is listed in GCVS-IV as a possible classical Cepheid. Our photoelectric $UBV(RI)_c$ observations, carried out with 0.6 m reflectors of CTIO, Las Campanas and Mt. Maidanak observatories from June 1994 to March 1995, showed that this classification was wrong: V651 Her is an eclipsing variable with the elements:

$$MinJD_{hel} = 2449827.9 + 3.1745 \times E.$$

The observations are given in Table 1 and represented graphically in Figure 1. The accuracy of the individual data is near 0.01 mag in all filters.

The research described in this publication was made possible in part by grants No. NDD000 and No. NDD300 from the International Science Foundation and Russian Government as well as by grant No. 95-02-05276 from the Russian Foundation of Basic Research to LNB and OVV, and by funds awarded through the Natural Sciences and Engineering Research Council of Canada (NSERC) to DGT.

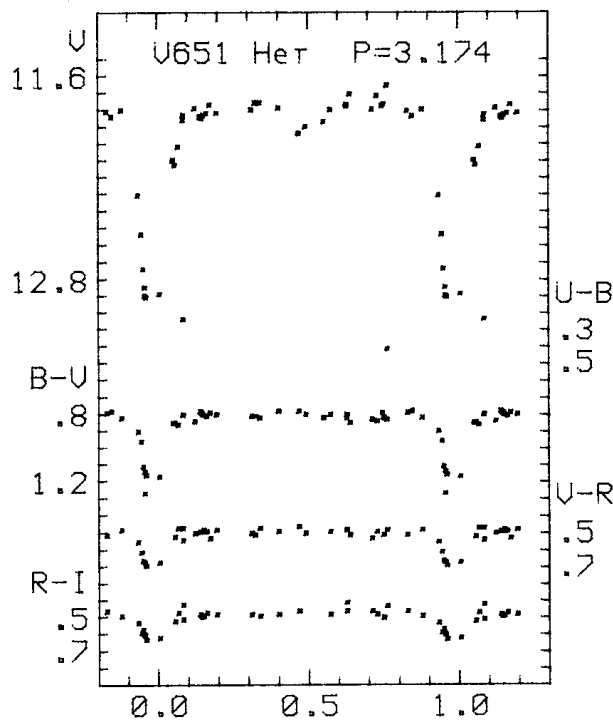


Figure 1

Table 1

JD hel 2400000+	V	$U - B$	$B - V$	$(V - R)_c$	$(R - I)_c$
49521.7227	11.852	—	0.807	—	—
49522.6649	11.816	—	0.773	—	—
49528.7389	11.640	0.403	0.821	0.466	0.422
49529.7215	12.004	—	0.854	0.456	0.470
49534.6817	11.760	—	0.813	0.475	0.408
49543.6814	11.920	—	0.775	0.453	0.456
49545.6498	11.809	0.229	0.791	0.532	0.417
49563.6060	11.757	—	0.776	—	—
49564.5920	12.080	—	0.844	—	—
49622.1201	11.752	—	0.779	0.521	—
49623.1128	11.880	—	0.788	0.490	—
49625.1259	11.767	—	0.834	0.489	—
49632.1203	11.744	—	0.802	0.505	—
49633.1169	11.685	—	0.840	0.500	—
49634.1239	12.885	—	1.265	—	—
49804.8890	11.751	—	0.813	0.497	0.498
49805.8603	12.108	—	0.840	0.513	0.517
49808.8747	12.875	—	1.160	0.657	0.611
49809.8447	11.780	—	0.795	0.491	0.474
49810.8472	11.751	—	0.794	0.475	0.459
49811.8272	12.290	—	0.892	0.544	0.528
49813.8459	11.784	—	0.788	0.483	0.473
49814.8220	11.776	—	0.807	0.469	0.484
49815.8204	11.799	—	0.793	0.474	0.471
49817.8449	11.787	—	0.779	0.500	0.453
49818.8252	11.821	—	0.774	0.478	0.477
49818.8460	11.829	—	0.780	0.481	0.481
49818.8625	11.810	—	0.791	0.470	0.484
49818.8916	11.796	—	0.798	0.483	0.461
49821.8329	11.839	—	0.785	0.463	0.507
49822.8256	11.768	—	0.775	0.479	0.480
49823.8170	11.780	—	0.818	0.517	0.457
49823.8645	11.696	—	0.827	0.477	0.475
49825.8017	11.737	—	0.815	0.461	0.483
49827.7240	12.518	—	0.951	0.600	0.581
49827.7450	12.716	—	1.103	0.647	0.570
49827.7622	12.828	—	1.130	0.664	0.596
49827.7782	12.891	—	1.152	0.677	0.629

L.N. BERDNIKOV
O.V. VOZIAKOVA
Sternberg Astronomical Institute
13, Universitetskij prosp.
Moscow 119899, Russia

D.G. TURNER
St. Mary's University
923 Robie st.
Halifax, NS B3H 3C3, Canada