

COMMISSION 27 OF THE I. A. U.
 INFORMATION BULLETIN ON VARIABLE STARS
 NUMBER 365

Konkoly Observatory
 Budapest
 1969 July 21

THE VARIABILITY OF HD 128661

HD 128661 = BD +36°2509 was reported by Jackisch (1968) to be probably an eclipsing variable with an eclipse duration of 4^h20^m.

Photoelectric observations in two wavelength regions were made on three nights with a 16-inch Gregorian f/35 reflector at the Tortugas Station of the New Mexico State University Observatory. An uncooled RCA 1P21 photomultiplier was used in conjunction with a DC amplifier and a Brown recorder. Standard B and V filters were used. The comparison and check stars were BD+36°2568 and BD+36°2505 respectively. No variation was noticed between the check and comparison

TABLE 1 OBSERVATIONS WITH THE V FILTER

J.D.hel	Δm	J.D.hel	Δm	J.D.hel	Δm	J.D.hel	Δm
2440361		.86177	-.150	.71656	-.212	.89819	+.085
.72181	-.151	.86385	-.150	.72593	-.118	.89541	+.102
.75305	-.149	.86559	-.174	.72636	-.122	.90860	+.049
.75583	-.157	.87739	-.181	.73079	-.142	.91069	+.050
.75722	-.148	.87913	-.168	.74121	-.201	.91346	+.054
.76659	-.163	.89996	-.137	.74294	-.199	.92562	+.081
.76698	-.178	.90170	-.160	.74468	-.169	.92805	+.055
.76937	-.149	.90343	-.175	.75475	-.141	.93950	+.057
.77666	-.168	.90552	-.151	.75648	-.140	.94124	+.011
.77840	-.149	.91628	-.159	.75857	-.172	.94263	-.002
.78014	-.129	.91836	-.136	.80930	-.124	.95270	-.072
.79055	-.151	.92010	-.114	.81138	-.143	.95409	-.123
.79298	-.141	2440362		.85860	-.081	2440383	
.79402	-.148	.68183	-.233	.85999	-.045	.70614	-.242
.80865	-.118	.68322	-.221	.86138	-.051	.70892	-.134
.81004	-.117	.68496	-.182	.87423	+.044	.71135	-.115
.81177	-.107	.69538	-.223	.87631	+.033	.72281	-.050
.81976	-.144	.69746	-.212	.87805	+.014	.72420	-.061
.82080	-.145	.70371	-.151	.89263	+.109	.73288	-.064
.84858	-.157	.71482	-.136			.73531	-.105
						.73739	-.175

TABLE 2 OBSERVATIONS WITH THE B FILTER

J.D.he1	Δm	J.D.he1	Δm	J.D.he1	Δm	J.D.he1	Δm
2440361		.86107	-.172	.71482	-.136	.89819	+.085
.72042	-.201	.86287	-.179	.71656	-.212	.89541	+.102
.75236	-.231	.86489	-.182	.72593	-.118	.90860	+.049
.75444	-.242	.87496	-.172	.72836	-.122	.91069	+.050
.76590	-.193	.87670	-.172	.73079	-.142	.91346	+.054
.76729	-.185	.87913	-.191	.74121	-.201	.92562	+.081
.76368	-.196	.89962	-.159	.74294	-.199	.92805	+.055
.77597	-.176	.90066	-.177	.74468	-.169	.93950	+.057
.77770	-.201	.90239	-.181	.75475	-.141	.94124	+.011
.77909	-.191	.90482	-.164	.75648	-.140	.94263	-.002
.79020	-.190	.91524	-.173	.75857	-.172	.95270	-.072
.79194	-.194	.91732	-.178	.80930	-.124	.95409	-.123
.79368	-.199	.91906	-.191	.81138	-.143		
.80726	-.194			.85860	-.081	2440383	
.80934	-.184	2440362		.85999	-.045	.70510	-.251
.81108	-.164	.68183	-.233	.86133	-.051	.70755	-.238
.81837	-.177	.68322	-.221	.87423	+.044	.71031	-.173
.82010	-.180	.68496	-.182	.87631	+.033	.72177	-.159
.82149	-.175	.69538	-.223	.87805	+.014	.72350	-.156
.84753	-.209	.69746	-.212	.89263	+.109	.73184	-.152
		.70371	-.151			.73427	-.156
						.73635	-.176

stars. An "eclipse" was observed on May 20-21, 1968 and the epoch of minimum determined by the tracing paper method was found to be:

$$t_{\min} = \text{JD (heliocentric) } 2440362.9070.$$

This "eclipse" is considerably narrower than that observed by Jackisch being only about three hours long, but the depths are in good agreement. Tables 1 and 2 contain the observations. Δm is the magnitude of the variable minus that of the comparison corrected for differential extinction. JD is the heliocentric time of the observation.

References

Jackisch, G., 1968, Comm. 27, IAU Inf. Bull., No. 314

ALLEN JOEL HARRIS

Department of Earth Sciences and Astronomy
 New Mexico State University
 Las Cruces, New Mexico 88001