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HD 65227: A NEW SHORT PERIOD CEPHEID OF
 VERY SMALL AMPLITUDE

The spectral type of HD 65227 is given as F8 II by Stephenson and Sanduleak (1971, LSS 878). In a program of intermediate band and H β photometry of known supergiants

Table I
 Observations of HD 65227

244	Ph.	V	b-y	M ₁	C ₁	β
4304.651	0 ^P 000	8 ^m .59	0 ^m .459	0 ^m .168	1 ^m .048	2 ^m .674
4620.712	0.033	8.60	0.460	0.176	1.057	2.672
4625.684	0.056	8.60	0.467	0.172	1.055	2.671
4936.822	0.076	8.64	0.457	0.182	1.049	2.662
4363.488	0.106	8.61	0.470	0.125	1.031	2.663
5019.667	0.123	8.63	0.484	0.162	1.045	2.656
4601.771	0.136	8.63	0.473	0.176	1.027	2.659
4344.542	0.208	8.67	0.485	0.178	1.015	2.659
4621.684	0.233	8.67	0.495	0.178	1.012	2.655
4932.818	0.252	8.69	0.492	0.177	1.006	2.660
4626.655	0.256	8.69	0.498	0.182	1.003	2.661
4670.648	0.308	8.74	0.501	0.187	0.981	2.649
4602.739	0.335	8.73	0.504	0.182	0.963	2.648
4622.693	0.440	8.78	0.522	0.196	0.928	2.649
4933.822	0.459	8.78	0.526	0.186	0.934	2.647
4627.651	0.461	8.82	0.531	0.198	0.933	2.645
4671.565	0.497	8.82	0.527	0.196	0.910	2.646
4365.592	0.519	8.83	0.526	0.208	0.888	2.629
4623.700	0.648	8.79	0.516	0.201	0.901	2.643
4934.818	0.664	8.79	0.526	0.197	0.915	2.648
4672.565	0.703	8.80	0.527	0.188	0.916	2.636
4361.542	0.706	8.79	0.532	0.175	0.903	2.638
4366.503	0.727	8.79	0.523	0.177	0.934	2.647
4935.829	0.872	8.72	0.490	0.174	0.996	2.658
4629.707	0.884	8.66	0.486	0.167	1.009	2.667
4673.537	0.902	8.64	0.471	0.172	1.023	2.676

this star was found to vary with the small visual amplitude of 0.2 mag. The observations are listed in Table I, where the phases are from the elements $\text{Max.} = \text{JD } 2444304.651 + 4^{\text{d}}.8600$. The light and color curves are shown in Figure 1.

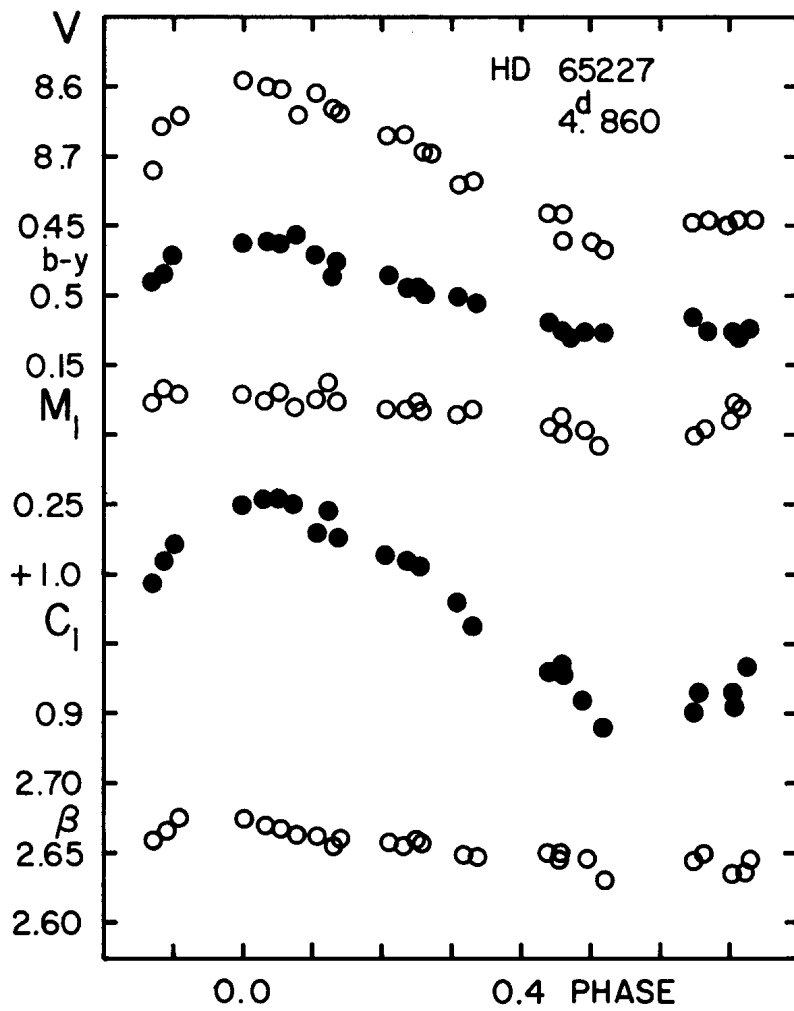


Figure 1

The star will be discussed in more detail elsewhere in connection with other short period cepheids.

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Reference:

Stephenson, C.B. and Sanduleak, N. 1971, Pub. Warner and Swasey Obs. Vol. 1, No.1.

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