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HD 87072: A NEW, BRIGHT, VERY SMALL AMPLITUDE,  
 SHORT PERIOD CEPHEID

HD 87072 is classified F8 Ib/II by Houk and Cowley (1975) and was included in a program of intermediate band and H $\beta$  observations of F type supergiants. Single, one-per-night, observations over a two year span are listed in Table I. The

TABLE I. Intermediate Band and H $\beta$  Observations of HD 87072

JD 244	Phases	V	b-y	M <sub>1</sub>	C <sub>1</sub>	$\beta$
4693.701	0°267	8 <sup>m</sup> .35	0 <sup>m</sup> .480	0 <sup>m</sup> .238	0 <sup>m</sup> .784	2 <sup>m</sup> .642
4694.688	0.745	8.34	0.477	0.240	0.774	2.649
5032.701	0.550	8.44	0.501	0.248	0.735	2.637
5050.688	0.266	8.33	0.476	0.232	0.763	2.645
5051.968	0.756	8.37	0.486	0.242	0.776	2.647
5052.715	0.249	8.33	0.465	0.237	0.765	2.654
5057.677	0.653	8.40	0.485	0.250	0.743	2.647
5058.652	0.126	8.26	0.456	0.225	0.808	2.663
5068.604	0.949	8.21	0.443	0.211	0.817	2.674
5069.622	0.442	8.43	0.496	0.244	0.733	2.640
5070.625	0.928	8.22	0.443	0.215	0.832	2.675
5090.604	0.610	8.44	0.499	0.240	0.722	2.646
5119.503	0.615	8.41	0.496	0.236	0.751	2.643
5151.472	0.107	8.26	0.435	0.239	0.839	2.672
5152.476	0.594	8.44	0.501	0.246	0.751	2.643
5153.490	0.085	8.24	0.440	0.242	0.818	2.673
5370.847	0.419	8.40	0.505	0.236	0.744	2.642
5376.785	0.296	8.37	0.500	0.241	0.742	2.643
5377.781	0.779	8.34	0.482	0.229	0.763	2.648
5378.837	0.290	8.38	0.500	0.256	0.748	2.643
8282.833	0.227	8.31	0.474	0.226	0.802	2.654
8383.783	0.688	8.39	0.477	0.237	0.780	2.649
8384.750	0.156	8.30	0.457	0.236	0.820	2.671
8385.733	0.633	8.42	0.476	0.258	0.752	2.646
8386.594	0.050	8.22	0.439	0.224	0.835	...
8386.809	0.154	8.28	0.456	0.225	0.821	2.663

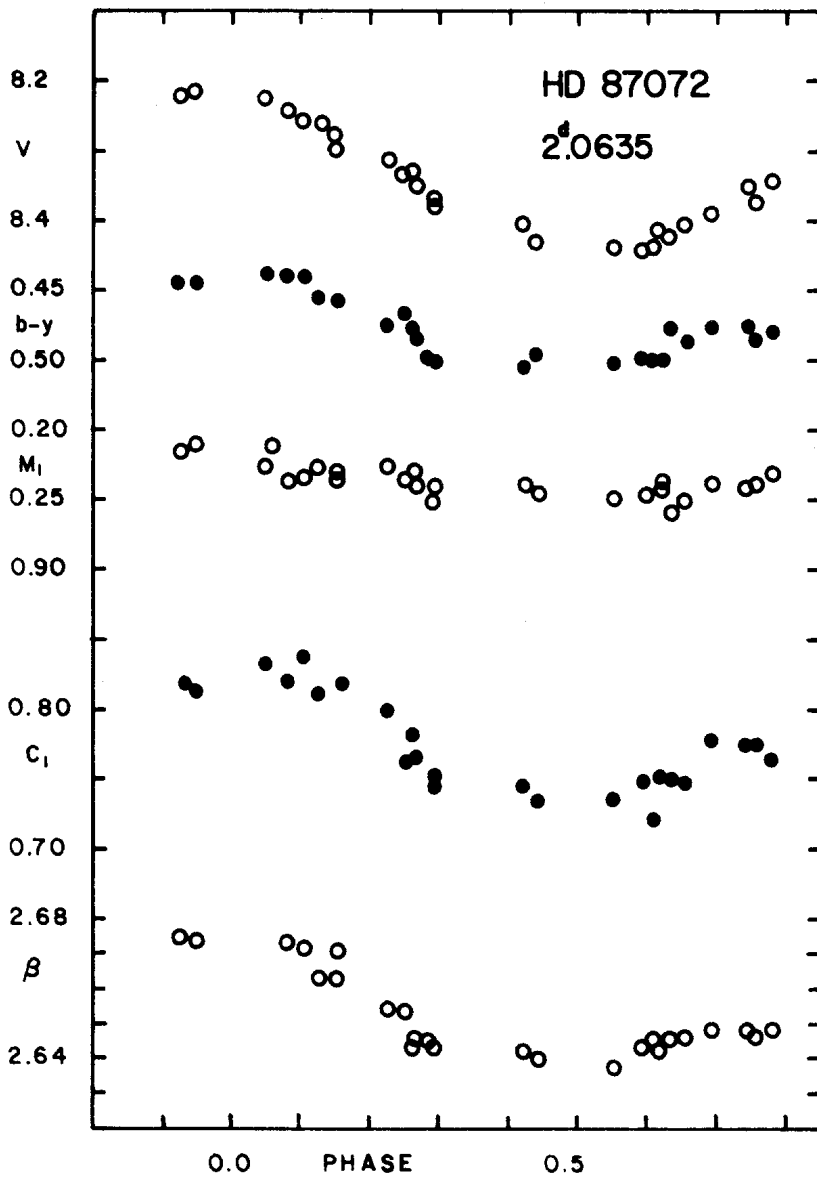


Figure 1

light elements,  $\text{Max} = \text{JD } 2445033.630 + 2^d.063515$  best satisfy these results and the resulting light and color curves are shown in Figure 1. An alternative period of  $0^d.6737$  doubles the dispersion of the individual observations.

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Reference:

Houk, N. and Cowley, A. 1975, Michigan Catalogue of HD Stars.  
Vol. I.