

COMMISSION 27 OF THE I. A. U.
 INFORMATION BULLETIN ON VARIABLE STARS
 Number 2319

Konkoly Observatory
 Budapest
 21 April 1983
 HU ISSN 0374 - 0676

OBSERVATIONS OF FOUR VARIABLE STARS IN BINARY SYSTEMS

A photoelectric program was begun in 1968 at the Flagstaff Station to obtain composite UB_v observations of selected visual binaries. Four binaries known to contain variables were included in the program. Reported here are individual observations of those systems. Differences between the variables and comparison stars were not obtained, rather, observations were transformed to the UB_v system each night.

Listed below are the stars with their ADS and BD numbers, coordinates for 1900.0, and information on the variable. Then follow the heliocentric Julian Day of the observation, the V magnitude, and the B-V, and U-B colors, respectively.

ADS 2046 A = BD -1°0377					02 ^h 36 ^m .1 -01°07'
84 Cet	Delta Scuti	type			
244 2726.7852	5.72	0.50	-0.01		
244 2786.6267	5.75	0.51	+0.01		
244 3104.7800	5.72	0.49	-0.04		
244 3134.6838	5.75	0.49	-0.03		
ADS 8148 AB = BD +11°2348					11 ^h 18 ^m .7 +11°05'
Iota Leo	Delta Scuti	type			
244 3178.9187	3.92	0.41	0.06		
244 3225.8124	3.91	0.40	0.05		
244 3642.6724	3.97	0.40	0.03		
244 3982.7265	3.92	0.41	0.06		
ADS 11353 ABp = BD +0°3936					18 ^h 22 ^m .1 +00°08'
d Ser	Irregular	type			
244 0113.6854	5.20	0.51	0.25		
244 0116.6817	5.24	0.50	0.25		
244 0147.5976	5.29	0.49	0.24		
244 0309.9932	5.17	0.50	0.23		
244 2565.8910	5.18	0.48	0.21		

ADS 16483 A = BD +27°4480				22 ^h 58 ^m 9 +27°32'
Beta Peg	Irregular type			
244 0113.8493	2.50	1.66	1.87	
244 0116.8084	2.47	1.68	1.91	
244 0146.8024	2.48	1.71	2.01	
244 0147.7905	2.44	1.71	1.92	
244 0170.7032	2.47	1.69	1.99	

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