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SIX VARIABLE STARS DISCOVERED IN BINARY SYSTEMS

A photoelectric program was begun in 1968 at the Flagstaff Station to obtain UB_v observations of selected visual binaries. This program has led to the discovery that the A component of ADS 1693 = GZ And was a W Ursae Majoris system (Walker, 1973). Reported here are individual magnitudes and colors that indicate variability for six of those systems.

The average dispersion in V for the 302 program stars is 0.009 magnitudes, whereas the scatter for each of the six stars listed below is much greater, on the order of 0.1 magnitude in V. All these systems were suspected of having light variation prior to these observations.

Listed below are the stars with their ADS and BD numbers, or the discoverer code number, coordinates for 1900.0, the heliocentric Julian Day of the observation, the V magnitude, and the B-V and U-B colors, respectively.

ADS 11632 B = BD + 59° 1915			18 ^h 41 ^m .8	+59°27'
244 0104.6968	9.69	1.58	1.05	
244 0113.6992	9.67	1.57	1.09	
244 0147.6106	9.80	1.55	1.10	
ADS 14233 ABp = BD + 11° 4368			20 ^h 40 ^m .2	+11°57'
244 0104.7309	6.69	0.16	0.09	
244 0113.7305	6.79	0.19	0.09	
244 0116.7130	6.69	0.19	0.08	
244 0146.7617	6.72	0.18	0.05	
244 0147.6803	6.70	0.18	-	
244 0170.6680	6.66	0.19	0.07	
244 0193.5986	6.69	0.19	0.09	
244 0195.6027	6.71	0.17	0.08	
244 3057.6965	6.65	0.22	0.07	
244 3071.6600	6.69	0.22	-	
244 3407.7024	6.70	0.20	0.09	
244 3407.7274	6.70	0.20	0.08	
244 3794.6495	6.73	0.19	0.09	
244 4044.9291	6.71	0.18	0.08	
244 4161.6278	6.73	0.18	0.07	
244 4174.6100	6.67	0.17	0.07	

ADS 14894 AB = BD + 2°4346		21 ^h 16 ^m .3 +02°28'	
244 0104.7552	7.40	1.07	0.97
244 0113.7375	7.50	1.07	0.97
244 0116.7297	7.38	1.08	0.96
244 0146.7679	7.42	1.07	0.96
244 0147.7088	7.39	1.07	0.96
244 0170.6810	7.36	1.05	0.98
244 0193.6052	7.44	1.07	0.98
244 0195.6099	7.46	1.07	0.99
244 2715.6237	7.42	1.09	0.92
244 2718.5790	7.41	1.09	0.99
244 2719.6025	7.42	1.05	-
244 3057.7021	7.38	1.07	0.93
244 3071.6760	7.39	1.11	-
244 3419.6662	7.40	1.07	0.94
244 3760.7474	7.40	1.04	0.88
244 3778.7048	7.42	1.08	0.97
244 3794.6669	7.38	1.11	0.99
244 3795.6446	7.41	1.08	0.94
244 4161.6431	7.39	1.11	0.96
244 4174.6253	7.42	1.09	0.95
Kui 110 AB = BD + 61°2233		21 ^h 57 ^m .6 +62°01'	
244 2696.6865	6.66	0.03	-0.81
244 2715.6349	6.71	0.07	-0.76
244 2718.6030	6.65	0.08	-0.80
244 2719.6141	6.65	0.06	-0.79
244 3057.7086	6.61	0.09	-0.81
244 3104.6129	6.68	0.04	-0.82
244 3419.7024	6.71	0.03	-0.80
244 3777.7114	6.66	0.04	-0.77
244 4161.6990	6.67	0.04	-0.84
244 4174.6704	6.67	0.05	-0.82
244 4174.6968	6.66	0.04	-0.82
ADS 15679 A = BD + 44°4059		22 ^h 05 ^m .2 +44°21'	
244 2696.6923	6.75	-0.03	-0.27
244 2715.6403	6.77	-0.01	-0.29
244 2718.6082	6.74	-0.02	-0.28
244 2719.6227	6.71	-0.04	-0.28
244 3057.7132	6.70	+0.03	-0.27
244 3104.6176	6.81	-0.05	-0.27
244 3419.7070	6.77	-0.03	-0.29
244 3777.7182	6.78	-0.03	-0.24
244 4161.6998	6.79	-0.06	-0.30
244 4174.6751	6.75	-0.03	-0.26
244 4174.7022	6.74	-0.02	-0.26
244 4189.6529	6.76	-0.02	-0.26

ADS 15794	AB = BD + 43°4165		22 ^h 11 ^m 6	+43°24'
244	2715.6473	7.57	0.02	-0.41
244	2718.6152	7.55	0.03	-0.44
244	2719.6298	7.53	0.02	-0.43
244	3057.7196	7.48	0.06	-0.42
244	3104.6239	7.56	0.00	-0.43
244	3419.7147	7.52	0.00	-0.45
244	3777.7266	7.56	0.01	-0.40
244	4161.7478	7.54	-0.02	-0.47
244	4174.6828	7.55	0.02	-0.43
244	4174.7092	7.54	0.02	-0.42

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Reference:

Walker, R.L. 1973, I.B.V.S., No. 855.