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VARIABILITY OF BD +40<sup>o</sup>4145 A MEMBER OF NGC 6910

UBV photometric standards in galactic cluster NGC 6910 were observed with the 60 cm reflector at Ostrowik Station of Warsaw University Observatory on February 16, 1982. The unrefrigerated one channel photometer with 27" diaphragm was used. Stars Nos. 1, 2, 3, 4, 5, 6, 8 (numeration according to Hoag et al., 1961) were investigated through V and B filters. It was found that the star No. 5 = BD +40<sup>o</sup>4145 has luminosity V = 8<sup>m</sup>.69 and colour B-V=0<sup>m</sup>.83 instead of the catalogue values V = 10<sup>m</sup>.05 and B-V = 0.19 (Hoag et al., 1961). Short time scale variations with the amplitude of about 0<sup>m</sup>.20 were observed in both filters.

Table I  
 BV observations of BD +40<sup>o</sup>4145

Date	JD Hel. 244+	V	B-V
Sep. 21, 1981	4869.2870	10 <sup>m</sup> .03	0 <sup>m</sup> .20
Feb. 16, 1982	5017.6545	8.41	1.05
	.6615	8.61	0.89
	.6656	8.59	0.72
	.6689	8.75	0.82
	.6733	9.05	0.65
	.6775	8.61:	0.88:
	.6823	8.79:	0.76:
Mar. 27, 1982	5056.6053	8.64	0.89
Apr. 14, 1982	5076.5236	8.73	0.81
May. 5, 1982	5095.4546	10.05	0.19
Jun. 4, 1982	5125.5031	10.07	0.23
Jun. 25, 1982	5146.3777	10.06	0.18
Jul. 7, 1982	5158.4071	9.97	0.27
Jul. 8, 1982	5159.4226	10.02	0.22

Untypical V and B-V values were also found on March 27, 1982 and April 14, 1982. However, on May 5, 1982 and later the star was in its normal state. We have also reexamined our observations from September 1981. All observations from September 1981 until July 1982 are listed in Table I. Mean errors are  $0^m.015$  and  $0^m.020$  in V and B-V, respectively. Instrumental quantities were transformed to BV system using standard methods. As far as we know BD +40<sup>o</sup>4145 has not been known as a variable star.

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Reference:

Hoag, A.A., Johnson, H.L., Iriarte, B., Mitchell, R.I., Hallam, K.L., Sharpless, S. 1961, Photometry of stars in galactic cluster fields, Publ. U.S. Nav. Obs., 17, Part VII, p. 454