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ON THE LIGHT VARIABILITY OF THE MAGNETIC STAR HD 192678

The star HD 192678 was investigated by Babcock (1958) and according to him it shows a strong magnetic field of positive polarity.

Stepien (1968) made photoelectric observations of this star in U, B, V system and found light variability with a period of  $18^d$  and amplitudes in V, B-V and U-B of 0.015, 0.010 and 0.015 mag., respectively.

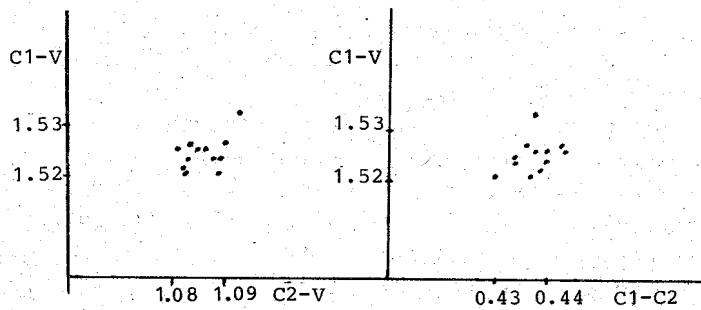
Wolff and Morrison (1973) made photoelectric observations of HD 192678 in the u,v,b,y-system and found no light variability in the years 1963, 1970 and 1971.

In order to re-examine the case of HD 192678 we decided to include this star in the observational programme of magnetic stars. During the summer of 1976 we obtained 12 photoelectric "B" observations with the 35 cm Cassegrain telescope of the Academy of Sciences of GDR, situated in the Schemacha Astrophysical Observatory, USSR. Reduction of observations was made by standard procedure. The results are listed in Table 1. The two comparison stars used are: C1 = HD 192200 and C2 = 192849. Figure 1 displays the C1 - Var, plotted against C2 - Var, and C1 - Var versus C1 - C2. The maximum difference in "B" is only about 0.010 mag. (according to Stepien, (1968), the amplitude in "B" should be 0.025 mag.) and the error is about the same. Therefore we find no real light variation in HD 192678.

I would like to thank Dr.W. Schöneich (Central Astrophysical Institut of Acad. of Sciences of GDR) for giving me the possibility of obtaining these observations.

Table 1

JD	C1-Var (mag.)	C2-Var (mag.)	C1-C2 (mag.)
2442000+			
955.4719	1.523	1.083	0.440
956.4979	1.521	1.082	0.439
959.4619	1.523	1.088	0.434
960.4352	1.526	1.090	0.436
965.5036	1.520	1.082	0.437
970.4244	1.526	1.083	0.443
974.4411	1.532	1.093	0.438
981.4454	1.525	1.081	0.444
983.4688	1.520	1.089	0.430
989.4205	1.525	1.085	0.440
991.4347	1.523	1.089	0.434
998.4139	1.525	1.086	0.438



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 Stepien, K., 1968, *Astrophys.J.* 154, 945  
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