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SOME NEW POSSIBLE VARIABLE STARS II.

In the course of a photometric monitoring program of Be stars, it has been found that some of the comparison stars utilized for the differential BV photometry are themselves variable. A previous list of such stars has already been published (Halbedel, 1986). This collection adds to that group 24 more stars whose deviations from mean magnitude make them unsuitable for standards.

A comparison star was considered to be unusable for that purpose if its average residual from mean V magnitude was 0.020 magnitudes or greater. This is a reasonable and conservative criterion since those stars whose magnitudes were considered to be constant showed average residuals from the mean of 0.008 V magnitudes. As 58% of the program stars are being found to be non-variable, it was generally trivial to ascertain which of the two comparison stars used for each program Be star was variable in its own right. However, in several cases when the residuals from the mean of each comparison star both from each other and the program Be star were unacceptably large, it was impossible to determine which comparison was variable since the Be star may also be variable. Therefore, both comparison stars were changed for further observations and added to the following list, denoted by an asterisk.

No information can be obtained concerning possible periodicity due to the non-uniform time intervals between the observations. Spectral types in the following table are from the SAO CATALOG unless otherwise stated.

Table I

STAR	SP. TYPE	STAR	SP. TYPE
HD 12709	B4 IV (1)	HD 32894	A5
13593	A3	42860*	B8
29343*	A	43187*	A0
29376*	B3 V (1)	44768	A0 III (1)

STAR	SP. TYPE	STAR	SP. TYPE
HD 46682	A2	HD 218999	A0
49224*	A2	223043	A0
49294*	A2	224869	A
52124	B9	BD+53 3121	B8
203168	A2	+51 3362	B8
203715	A3	+47 3316	---
204710	B8 Ib (2)	+7 4201 *	A5
212000	B9	+7 4203 *	A2

(1) --- Kennedy, P.M. & Buscombe, W., MK SPECTRAL CLASSIFICATIONS
PUBLISHED SINCE JASCHEK'S LA PLATA CATALOGUE (Evanston, IL),
(1974).

(2) --- Buscombe, W., MK SPECTRAL CLASSIFICATIONS: THIRD GENERAL
CATALOGUE (Evanston, IL), (1977).

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Reference :

Halbedel, E.M., 1986, Inf. Bull. Var. Stars No. 2919