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 INFORMATION BULLETIN ON VARIABLE STARS
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THREE NEWLY DISCOVERED VARIABLE Ap STARS

UBV photometric study of a number of Ap stars indicates that three show variations. They were observed during a thirty day period in June and July of 1976 at Kitt Peak National Observatory using the number three 41-cm telescope, and at Lowell Observatory with the 54-cm telescope. Each Ap star was observed with two comparison stars for which a constant brightness ratio was required to establish variation of the Ap star.

Period cannot be established firmly for them because the length of observing period was less than, or close to, the period of variation of the stars.

Star	ΔV	ΔB	ΔU	Estimated Period
HD 89069	-	0 ^m .015	0 ^m .04	18 ^d
HD 191980	0 ^m .036	0 ^m .038	0 ^m .047	21 ^d
HD 199180	0 ^m .039	0 ^m .038	0 ^m .045	26 ^d

Figure 1 shows ΔU for the difference BD +79°328 - HD 89069, assuming a period of 18 days. The observing period was too short for an accurate determination of the period of HD 89069, if the period is as long as it appears to be. Figure 2 shows ΔV for the difference HD 192425 - HD 191980 versus phase for an assumed period of 21 days for HD 191980. That period is a rough estimate. Figure 3 shows ΔV for the difference HD 199480 - HD 199180 with a period of 26 days for HD 199180. That period is nothing but a guess, but the variation is obvious.

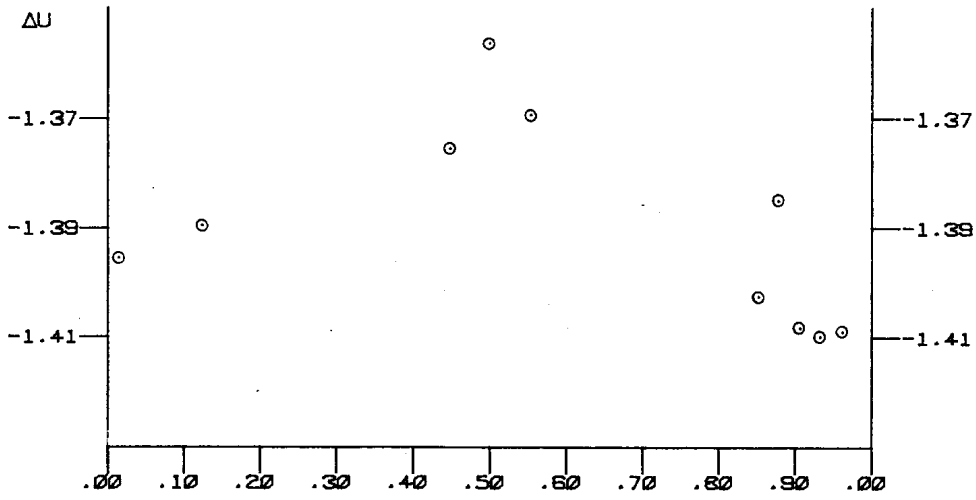
Observations of these stars is continuing.

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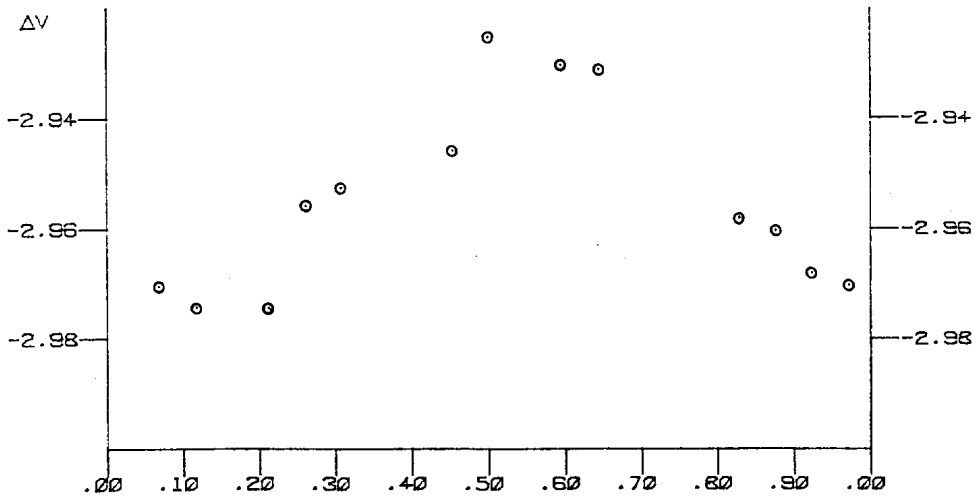
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BD +79 328 - HD 89069 (1976)



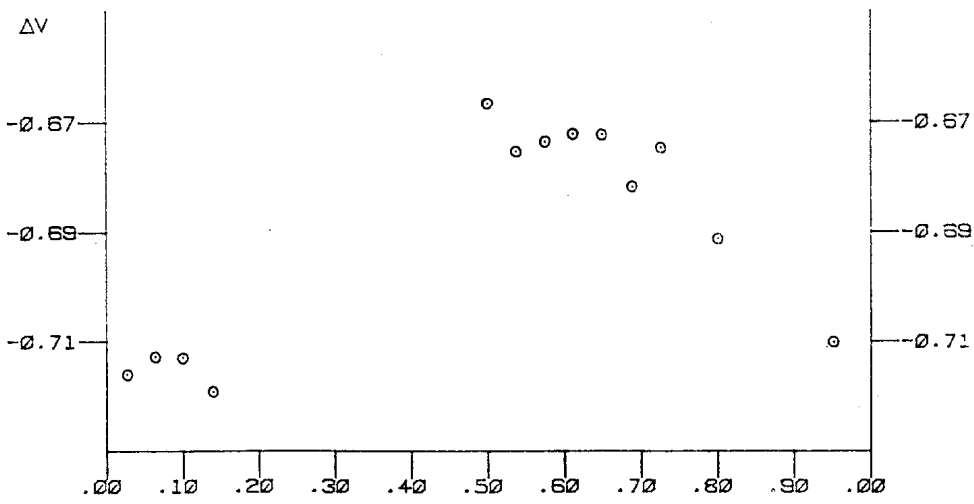
PHASE
FIG 1

HD 192425 - HD 191980 1976



PHASE
FIG 2

HD 199480 - HD 199180 1976



PHASE
FIG 3