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A New Variable Star in Phoenix¹

In an observational program of the star SX Phe, SAO 231769 was used as comparison star and SAO 231800 (HD 223480) as check star. The observing run was carried out during October and November 1988 with the 50 cm Danish telescope in the European Southern Observatory (La Silla, Chile) by using the simultaneous $uvby\beta$ Strömgen photometer attached to this telescope. SX Phe and SAO 231769 was observed during six nights, but SAO 231800 only three ones, on the nights of October 30/31 and November 1/2 and 3/4, logging a total of 15 hours approximately. The observations showed that while SAO 231769 kept a constant brightness, SAO 231800 presented a slight photometric variability. This last star is not present in any of the variable stars catalogues, hence it has to be considered as a new variable star.

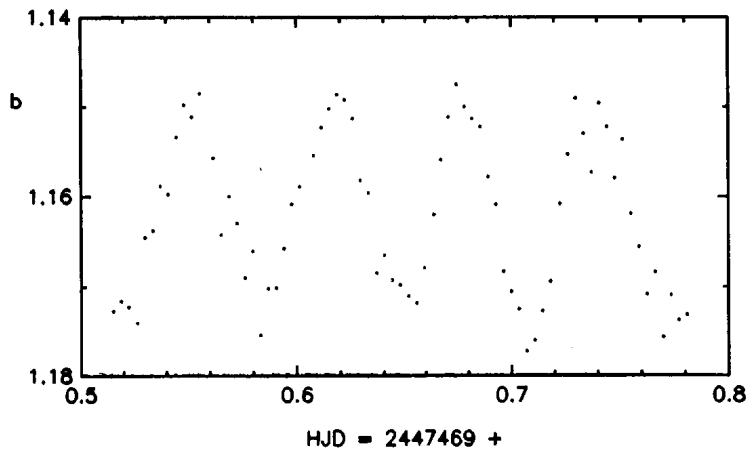


Figure 1

¹Based on observations collected at European Southern Observatory, La Silla, Chile

Figure 1 shows the light curve in the b filter in the night 3/4 of November. The magnitudes are differences SAO 231800 - SAO 231769 in the standard system. From figure it can be seen that the period is about 0.063 days and the amplitude of the variation of luminosity is 0.^m02 approximately, and on the other hand, the spectral type of this star is F0. Hence, due to the characteristics shown, we might conclude that this star is probably a δ Scuti type variable.

A more detailed study of this star will be published later.

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