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A NEW VARIABLE STAR IN VIRGO

In an observational program of the δ Scuti star HD 114842, SAO 139186 was used as comparison star and SAO 139174 (BD - 1^o2777 = HD 114125) as check star. The observations showed that while SAO 139186 kept a nearly constant brightness, SAO 139174 presented an undoubted photometric variability on 18 March. This last star is not present in any of the variable star catalogues, hence it has to be considered as a new variable star. SAO 139174 was observed on two nights in March 1988 by using the simultaneous uvby β Strömberg photometer attached to the 75 cm reflector at the Sierra Nevada Observatory in Spain.

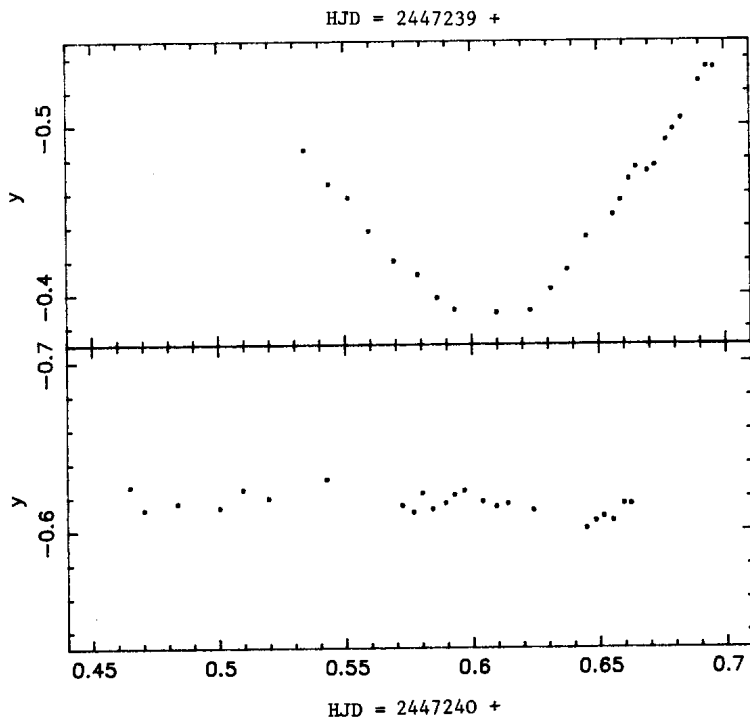


Figure 1

The Figure shows the light curves of 18 and 19 March in the y filter. The magnitudes are differences SAO 139174 - SAO 139186 in the instrumental system. Although the light curve is very incomplete, it suggests that we are dealing with an eclipsing binary system. The magnitude difference between out of eclipse level and the minimum brightness is $0^m.23$ in the y filter and the time of minimum is $JD = 2447239.6051 \pm 0.0010$.

More photometric observations are clearly needed on this new variable star.

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