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NSV 786 IS NOT A CATAclySMIC VARIABLE

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Along with the well known cataclysmic variables (CVs), the catalog of Downes et al. (1997) provides a large sample of stars suspected to be CVs. Among them there are still several relatively bright stars without published spectra. One of them is Cep2 (NSV 786). The TYCHO catalogue provides $V_T = 10^m09$ and $B_T - V_T = 0^m53$ thus the star is probably not a CV. However, this has to be spectroscopically confirmed. On 22 January 2002 single spectra of NSV 786 and star #1 in Fig. 1 (which also has no spectral classification) around $H\alpha$ were obtained with the Coudé spectrograph of the 2-m telescope at Rozhen Observatory. The spectra showed neither $H\alpha$ emission nor broad absorption (the later is observed in some UX UMa novalikes). Therefore neither star is a CV. A comparison with the spectral atlas of Montes et al. (1999) shows that the spectrum of star #1 closely matches that of a K5 giant, while NSV 786 itself is a late F star, most probably F8. This spectral classification of NSV 786 is fairly well consistent with the $B_T - V_T$ color index provided by TYCHO.

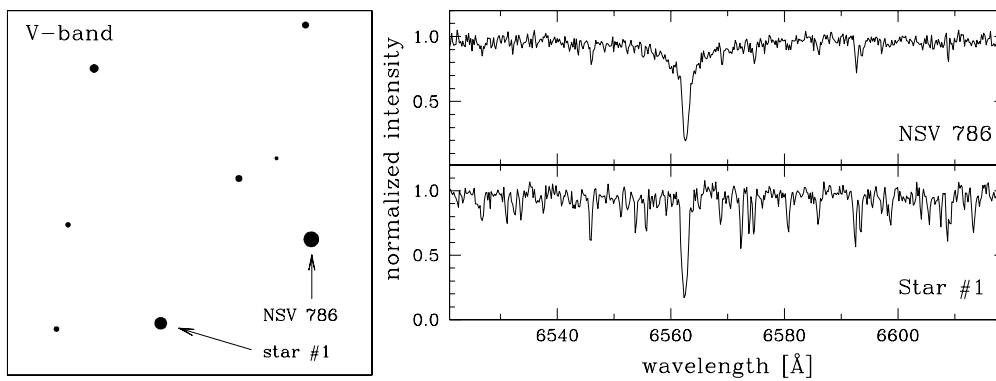


Figure 1. Finding chart and the spectra of NSV 786 and star #1 around $H\alpha$.

References:

- Downes, R., Webbink, R.F., Shara, M.M, 1997, *PASP*, 109, 345
Montes, D., Ramsey, L.W., Welty, A.D., 1999, *ApJS*, 123, 283