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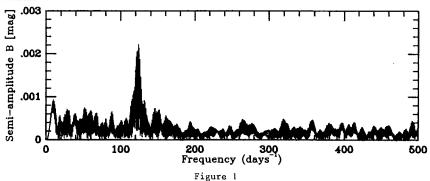
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An independent confirmation of rapid oscillations in the cool Ap star HD 12932

The V=10.3 Ap star HD 12932 is classified as Ap SrEuCr by Houk and Smith-Moore (1988), making it a good candidate for rapid oscillations. Weiss and Schneider 1990 (private communication and I.B.V.S., submitted) have just discovered it to be a rapidly oscillating Ap (roAp) star; in this bulletin, I report an independent confirmation of the detection of rapid oscillations.

Photometry was obtained on three nights in Oct. 1990 with the Lowell 1.1-m John S. Hall telescope and the 0.8-m reflector in Johnson B. A total of over 7 hours of photometry was obtained over a time-span of 7 days. A periodicity analysis of the data was undertaken utilizing Kurtz' (1985) faster algorithm of the Deeming (1975) DFT technique. The figure shows a peak in the amplitude spectrum near 124 c/d (ν =1.44 mHz), corresponding to a period of about 11.6 minutes. A least-squares cosine fit to the data yields a best fit to the period 11.605 \pm 0.003 minutes, with a semi-amplitude of 2.27 millimagnitudes.

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References

Deeming, T.J., 1975. Astrophys. Space Sci., 36, 137.

Houk, N., Smith-Moore, M., 1988. Michigan Spectral Catalogue,

Vol. 4, Department of Astronomy, University of Michigan, Ann Arbor.

Kurtz, D.W., 1985. Mon. Not. R. astr. Soc., 213, 773.

^{*} The discovery note has been published by Schneider and Weiss in the No. 3520 issue of the I.B.V.S. (Editors).