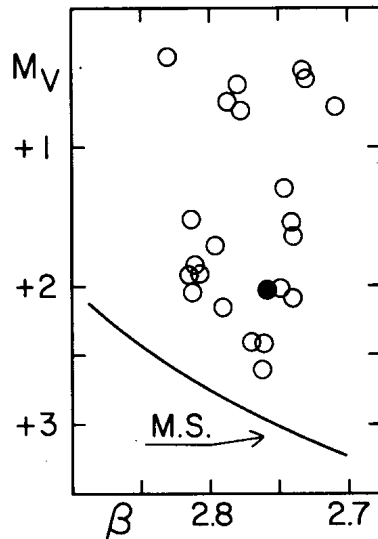


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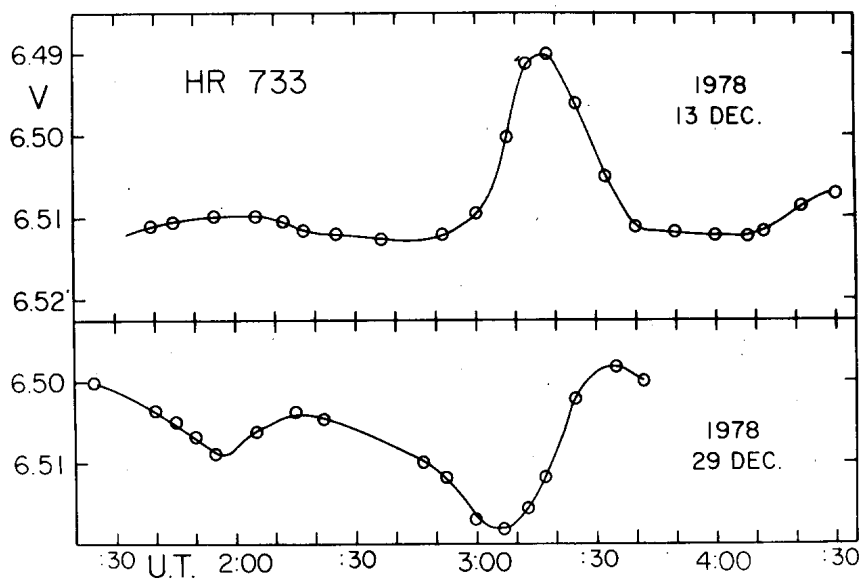
Konkoly Observatory  
Budapest  
1979 February 2

HR 733: A NEW USPC IN THE HYADES GROUP

The known ultrashortperiod cepheids (USPC) in the Hyades group have been discussed elsewhere (Eggen 1979). The distribution of luminosities shown in Figure 1 by open circles is taken from that discussion. The filled



circle represents HR 733, a Hyades group member with  $(U, V, W) = (+38, -17, -11)$  km/sec, based on a proper motion from all available meridian positions and on the FK4 system with precessional corrections of  $(\mu_\alpha, \mu_\delta) = (+0.087, +0.033)$  arcsec, a radial velocity from two accordant Mount Wilson plates of +25 km/sec, and a modulus of 4.45 mag. The star was monitored for



light variation on 13 and 29 December 1978 with the 0.6 m reflector on Cerro Tololo using HR 730 as a comparison star. The resulting light curves are shown in Figure 2. The light variation ranges from 0.003 to 0.02 mag. with a period near 0.05 days. The two open circles nearest the new variable in Figure 1 represent  $\delta$  Sct, with a period of 0.19 days and light amplitude of 0.1 to 0.2 mag. and BQ Cnc, with a period near 0.07 days and light amplitude near 0.01 mag.

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Reference:

Eggen, O.J. 1979 Ap. J. (in press).

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