

COMMISSION 27 OF THE I. A. U.
INFORMATION BULLETIN ON VARIABLE STARS

Number 1003

Konkoly Observatory
Budapest
1975 May 28

IMPROVED PERIOD OF THE Ap VARIABLE HR 5153

HR 5153 (=HD 119 213) is a Sr-Cr-Eu peculiar star of spectral type A1p which has been found photometrically variable in B and U lights by E.W. Burke and J.T. Howard (Ap.J. 178, 491, 1972). They derived the period of light variation $P = 1.706 \pm 0.001$ days. The star was recently observed at Shemakha Observatory and also at Mauna Kea Observatory. The observations at Shemakha were made in ten colours during the summer 1974 (W. Schöneich et al., private communication). Hawaiian measurements (S.C. Wolff, N.D. Morrison: P.A.S.P., in press, 1975) were done in ubvy system during the spring 1973. From their data Schöneich et al. found the period $P = 2.433$ days, while Wolff and Morrison obtained $P = 2.451 \pm 0.010$ days.

I have reexamined all sets of available photometric data. It turns out that the period suggested by Burke and Howard is definitely spurious. By combining the three sets of observations and accepting Wolff's and Morrison's basic epoch (maximum light in v colour) I have found the improved period:

$$JD_{\text{hel}}(v_{\text{max}}) = 2\ 441\ 450.74 + 2.45002 E \\ \pm 18$$

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