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LIGHT AND RADIAL VELOCITY VARIATIONS OF HR 6127

The chemically peculiar star HR 6127 (A2p,  $m_V=5.74$ ) was observed at the Skalnáté Pleso Observatory with the 60 cm photometric telescope in 18 nights during the period December 1981 - July 1982. The photoelectric observations were made in an intermediate-band filter centered to 526 nm with a 19 nm halfwidth. BD +54<sup>o</sup>1809 (A3,  $m_V=7.8$ ) served as a comparison star. The number of observations per night varied from 10 to 140. The standard error of observations was 0.001 mag (0.002 mag in two nights). The amplitude of the light variations is 0.017 mag. An interval of 0.5 - 175 days was searched for the period of variability by a program written according to Morbey (1978). The best fitting yields to the following ephemeris:

$$\text{JD min} = 2\,444\,985.6031 + 2.144202 \times E$$

The light curve is represented in Figure 1. Dots are nightly means. The  $3\sigma$  value is marked at the left side of Figure 1.

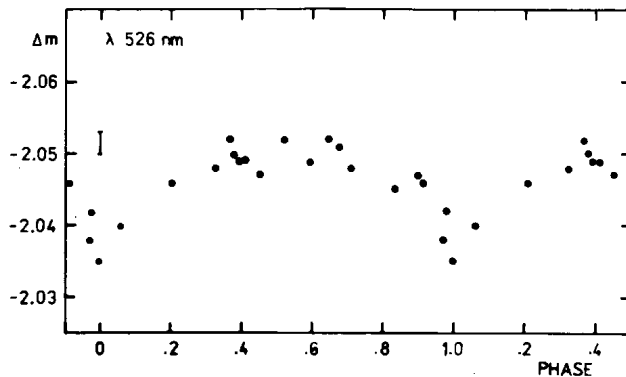


Figure 1

The radial velocities of the Ca II K line in the spectrum of HR 6127 were measured by a TV electronic comparator of the Astronomical Institute of Slovak Academy of Sciences. The radial velocities were measured on 23 spectrograms taken at the Coudé spectrograph of the 2 m telescope of Ondrejov Observatory with the dispersion 0.85 nm/mm. The amplitude of 5.6 km/s was found. In the radial velocities data set the following ephemeris was found

$$\text{JD min} = 2\,444\,370.412 + 2.144039 \times E$$

The radial velocities of the CaII K line plotted versus photometric period (Figure 2) formed a curve with the minimum shifted to phase 0.1 of the light curve period.

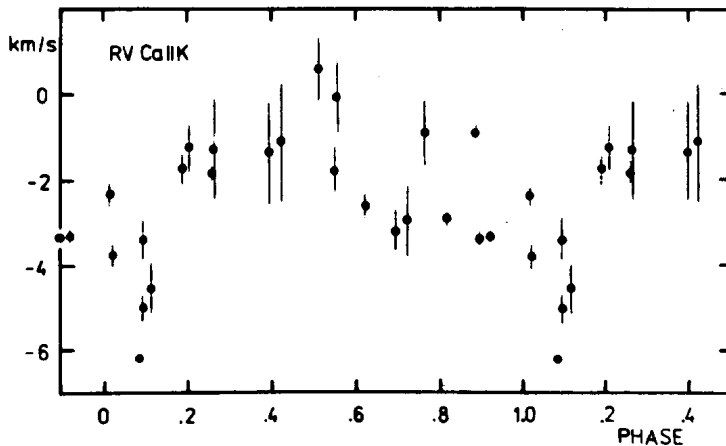


Figure 2

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Reference:

Morbey, C.L.: 1978, Publ. Dominion Astrophys. Obs. Victoria, 15, 105