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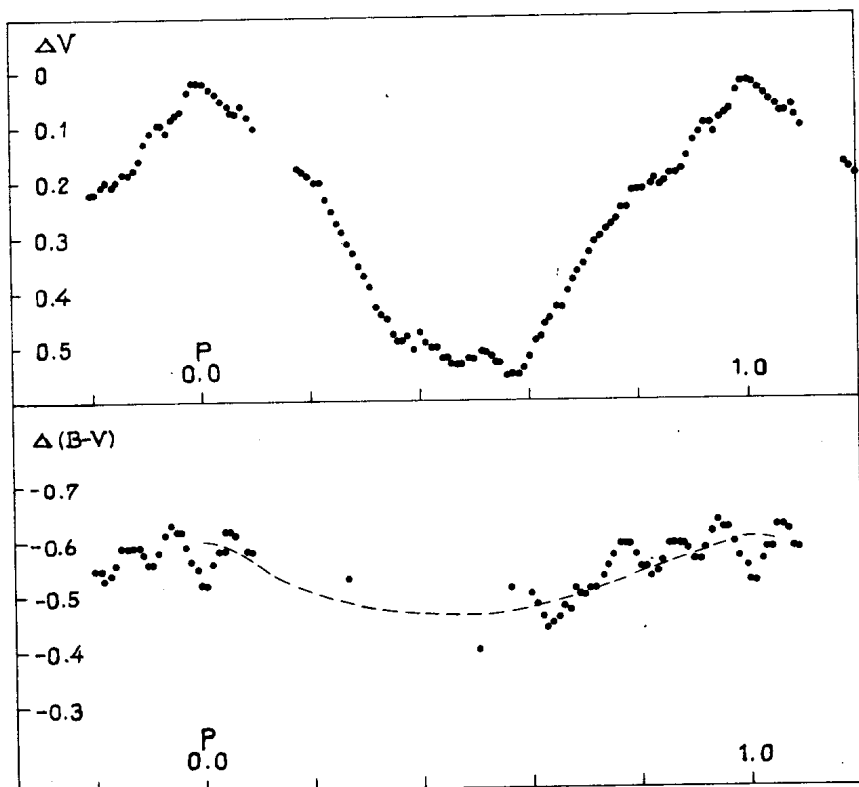
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PERIOD AND LIGHT CURVE OF THE RRc STAR VZ VIRGINIS

The variability of this star was detected in 1927 by Belyavsky, but no further investigations have followed.

In a search for blue objects in high galactic latitudes Bond and Tifft (1974) found the spectral type of VZ Vir to be B8 hb (horizontal branch).

Since February 1983 I have observed VZ Vir photoelectrically in B and V with the 60 cm reflector II of Sonneberg Observatory. The conditions for



these observations were never very good because of the low declination of this object. The mean error in one night was about 0.05 to 0.1 mag.

In 1983 a preliminary period of VZ Vir was derived (Luthardt, 1983). By using the observations of 1984 the elements could be improved. A calibration in magnitude of the comparison star has not been made yet.

Elements of VZ Vir: Max. = J.D.hel. 244 5388.651 + 0.^d3396113 × E

Amplitude: $A_V = 0.55$ mag

Range of B-V: $\Delta(B-V) = 0.20$ mag ± 0.05 mag

These elements and the form of the light curve - nearly symmetrical, a small hump on the ascending branch - let us expect an RRC star. For constructing the light curve given in the Figure moving averages are used.

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References:

- Bond, H.E., and Tifft, W.G., 1974: Publ. Astron. Soc. Pacific, 86, 981.
Luthardt, R., 1983: Mitt. Veränderl. Sterne, 10, Heft 2, p.29.