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NEW VARIABLE STAR IN AQUARIUS

The reductions of photoelectric observations of BR Aqr showed that one of the two comparison stars is variable. The observations were done by Mr.J.V.Pel and Mr.F.Velthuyse in 1967 with the lightcollector of the Leiden station in South Africa. Dr.P.N.Kholopov confirmed that it is a new variable star.

The coordinates of the star are:

RA: $23^{\text{h}}36^{\text{m}}39^{\text{s}}$
D : $-09^{\circ} 26'1$ 1950.0

The star has been observed in the colours V, B, I and U of the Walraven system, using a comparison star with the following coordinates:

RA: $23^{\text{h}}36^{\text{m}}12^{\text{s}}$
D : $-09^{\circ} 31'8$ 1950.0

In the figure the brightness is given in log intensity. The phase was calculated according to the formula:

$$\text{phase} = 1.6313 \times (\text{J.D. Hel} - 2430.000)$$

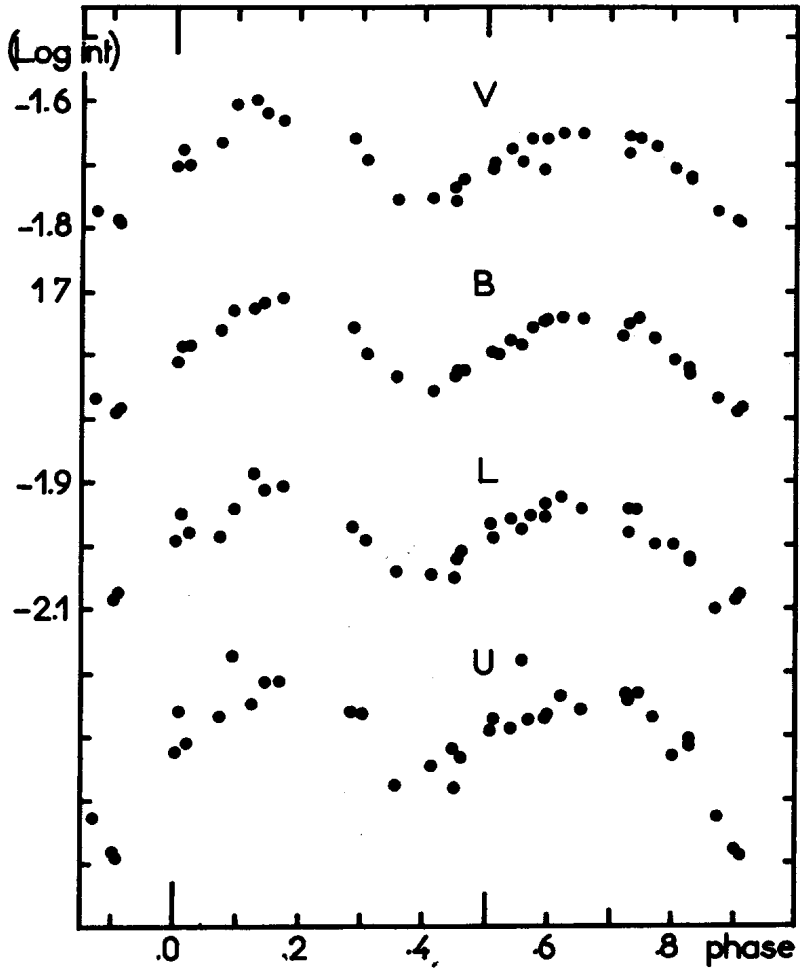
The preliminary elements are:

$$\text{Max} = \text{J.D. Hel } 2439\ 757.35 + 0^{\text{d}}.6130 \text{ E}$$

The light variation of the star is between

$$V_{\text{J}} = 10^{\text{m}}.87 \text{ and } V_{\text{J}} = 11^{\text{m}}.34.$$

According to period, amplitude and lightcurve, the star is probably an eclipsing binary of the W UMa-type.



Sterrewacht te Leiden, May 30, 1968

A.A. SCHOENMAKER