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ON THE VARIABLE STAR IN FIELD OF M 2

The brightness of the variable star ($x = +315''$, $y = +208''$) discovered by R. Margoni and R. Stagni in field of the globular cluster M 2 = NGC 7089 (IBVS 239, 1967 December 9) was estimated on 61 Moscow plates (J.D. 2437 087-277). The star belongs to the RRab-type with the following elements:

$$\text{Max} = \text{J.D. hel. } 2437138.233 + 0.^{\text{d}}7121 . \text{ E}$$

The photographic magnitudes in system of V.I. Kulikov (VS 13, 400, 1961) are $15.^{\text{m}}7$ at max. and $16.^{\text{m}}2$ at min., respectively; $M - m = 0.^{\text{m}}22$.

Moscow,
Sternberg Astronomical
Institute
January 31, 1968

B. KUKARKIN

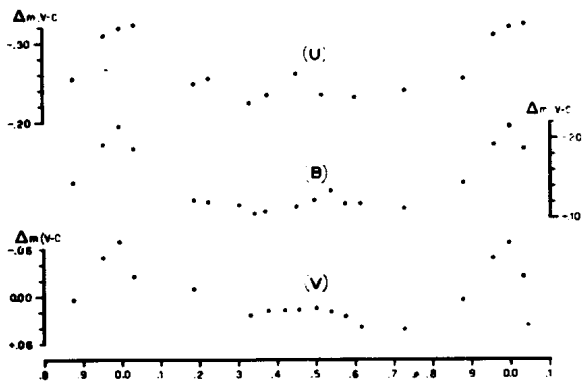
NEW VARIABLE STAR IN LACERTA

During photoelectric observations of AR Lac, the variability of the star BD+46 3572 (=HD 209813, $7.^{\text{m}}52$ pg., KO) was detected. This star was not reported in "Catalogue of Stars Suspected of Variability" (Moscow 1951), neither in more recent catalogues of variable stars.

Systematic observations in three colours (U, B, V), using BD 45 3741 (=HD 208728, $8.^{\text{m}}02$ pg., KO) as comparison star, gave the following preliminary elements:

$$\text{Max hel.} = \text{JD } 2439766.5 + 25.^{\text{d}}98 . \text{ E}$$

Amplitude of variation about $0.^{\text{m}}1$ for all colours.



According to spectral type, period, amplitude of variations and light curve (s. Figure), the variable is probably a Cepheid.

Osservatorio Astrofisico
di Catania
January 30, 1968

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