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PHOTOELECTRIC B AND V OBSERVATIONS OF W UMa

Photoelectric observations of the short period eclipsing binary system W UMa, discovered by G. Muller and P. Kempf at Potsdam in 1903, were carried out during four nights between January 30 and March 4, 1987. A photometer equipped with an unrefrigerated EMI 9781B photomultiplier tube and standard B, V filters has been used, attached to the 32 cm f/16 Cassegrain telescope, located in Ljubljana, Yugoslavia. The star SAO 27340 (HD 83564) was used as a comparison star.

In the Figure 1, the light curves obtained in B and V colours, respectively, are presented. The phases were calculated according to the light elements:

$$\text{Min. I} = \text{J.D. Hel. } 2444986.3624 + 0.^{\text{d}}.33363808E$$

given by Hamzaoglu et. al. (1982).

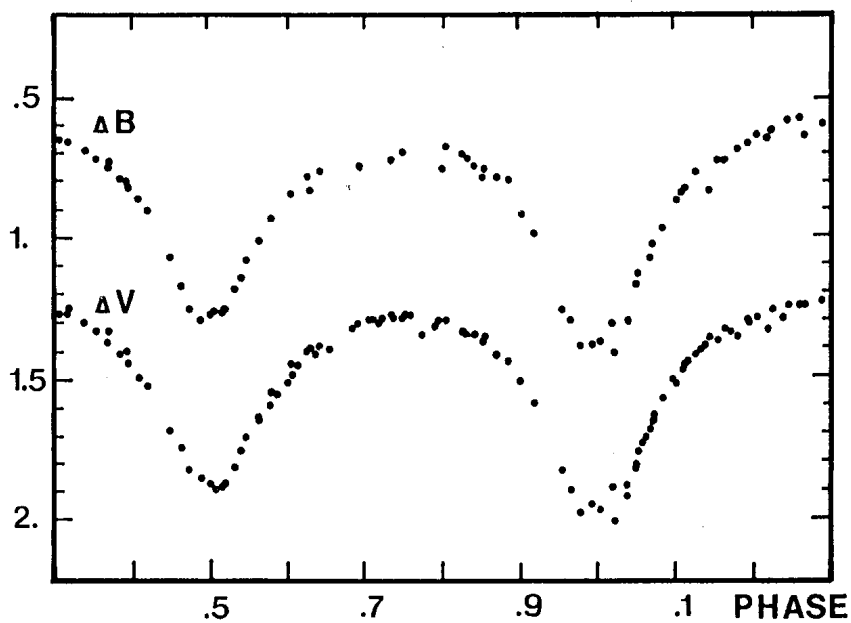


Figure 1

From this data times of minima have been calculated using the tracing paper method.

The minimum times are:

Min. I = JD (Hel) 2446826.3658

Min. II = JD (Hel) 2446826.5349

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Reference :

Hamzaoglu, M., Hamzaoglu, E., and Eker, T., 1982, I.B.V.S. No. 2151.