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## ON THE PERIOD OF BW VULPECULAE

BW Vul was observed at the Wroclaw Observatory for the World-wide Observing Campaign on BW Vulpeculae organized in 1982 by M.S. Snowden and C. Sterken. The observations were carried out with a 60-cm Cassegrain reflector and a photoelectric photometer equipped with an EMI 6256S photomultiplier tube and a Strömgren  $\underline{b}$  filter. The weather conditions were relatively poor. Our data are, however, sufficiently accurate and numerous to derive a mean epoch of maximum light.

Taking the period of BW Vul as equal to  $P_0 = 0.20103$ , and assuming an initial epoch  $T_0 = 2428000.5$ , a mean light-curve was derived. It is shown in Figure 1. The points are the individual observations and the solid line, drawn by hand, represents the mean curve.

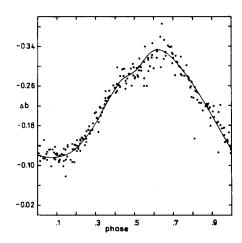


Figure 1

The mean b light-curve of BW Vul.  $\Delta b$  is the magnitude difference  $^{17}BW$  Vul  $_{1}$  minus a mean of HD 198820 and HD 198527"

The following epoch of maximum of BW Vul was derived from the above-mentioned light-curve:

Hel. JD (max. light) = 2445228.482 + 0.002

The (0-C) residuals obtained from this epoch of maximum and from the quadratic ephemerides of Valtier (1976) and Margrave (1979) are 0.036 and 0.014, respectively. On the other hand, the linear ephemeris of Tunca (1978) yields (0-C) = 0.005. This results indicates that Tunca's two linear ephemerides fit the observations better than the quadratic ephemeris of either Valtier or Margrave. Our observations provide, therefore, another argument in favour of a discontinuous increase of the period of BW Vul.

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