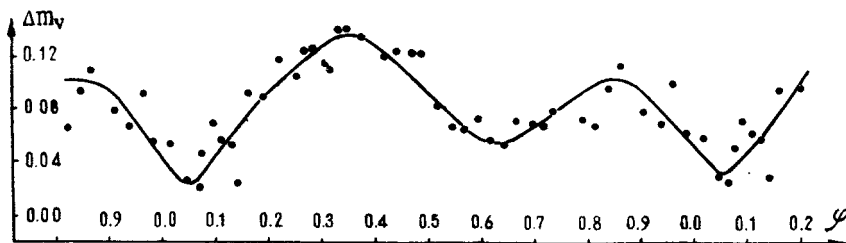


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PERIODICITY OF THE LIGHT VARIATION OF P CYGNI

P Cyg has been regularly observed at Abastumani from 1951 photoelectrically, in B and V up to 1960 and in UBV from 1963 onwards. A periodic variation has been revealed, the period being $0^d.500656$. The light variation seems to be of the W U Ma type, with amplitudes $0^m.10$ and $0^m.08$ for the primary and secondary minima, respectively. The secondary minimum is shifted relative to the median point between two successive main minima. The heights of maxima are not equal, the differences reach to about $0^m.03$. The light curve suffers variations from one cycle to the other, the periodic variations of eclipse character being disturbed by irregular variations. Probably this unstability of the light curve is responsible for the significant dispersion in the U magnitudes. The mean light curve in V, related to the period for 1951-1960, is shown in the Figure



The phases are calculated according to the following elements:

$$\text{Min.} = \text{J. D. } 243\,6048.321 + 0^d.500656 \text{ E.}$$

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