

Abstracts

NOTES ON THE VISUAL METEOR
OBSERVATIONS (part one) P. 24

A roughly outlined error analysis of the computational algorithm given in Meteor 1986/1 is presented. The author gives his comments about the probably main sources of errors of the output data of that method.

The basis of these conclusions are the results of a numerical study of the propagation of errors. Since the presented short considerations could not be generalized, the author shows the possibility of the generalization: setting up the complicated analytical expressions for the errors of the output data.

U DEL, EU DEL 1969-1986 P. 40

These stars are among the most closely observed binocular variables in Hungary. The "Pleione Variable Star Observing Network" has collected more than 6 thousand estimates during the interval 1969-1986. We present the Fourier-analysis of the light curves of these stars.

According to GCVS U Del is a SRb type variable with a 110-day period, the average brightness also varies with a period of 1100^d. In our light curve a 1150-day periodicity is dominant; there is no sign of the 110-day period. There is a weak presence of a 182-day period. We present the light curve and the Fourier spectrum of U Del on p. 43. A composite light curve for the period of 1150^d is given on p. 44. The shape of this variation is not sinusodial, the descending branch is steeper than the ascending branch ($M-m=0.60$).

The same analysis was realized for EU Del. Due to the small amplitude variations of this star and the error of visual observing the light curve shows considerable scatter. EU Del seems to be a semiregular variable with weak periodicity. The highest peaks of the Fourier spectrum of this light curve are listed on p. 42. (For light curve and power spectrum see p. 45.)

Landis (JAAVSO vol. 13, No. 1, p. 21, 1984) provides a photoelectric V light curve of EU Del for 1983. This light curve is given on p. 44. Crosses represent the photoelectric data, dots represent our ten-day averages. The coincidence with photoelectric measurements is fairly good, especially when large amount of data is available.

Tartalom

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