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ON THE RELATION  $\frac{\lg E_{\pi}}{\lg P}$  FOR STARS OF DIFFERENT  
TYPES OF VARIABILITY

As has already been shown (A.Circ.No.924, 1976) we have made an attempt of finding dependence in RR Lyrae-type stars between long-periodic fluctuations of O-C-( $\pi$ ) residuals and the period of light variation (P). Later on the work has been extended to a greater number of stars of RR Lyrae-type (80) as well as to the stars of other types of variability.

In the figure a very interesting relation between  $\lg E_{\pi}$  and  $\lg P$  (where  $E_{\pi}$  is the period  $\pi$  of a longperiodic fluctuation of O-C residuals expressed in E) is illustrated. For eclipsing stars P is the period and E is the number of minimum, respectively.

Notations used in the figure are as follows:

- o - stars of RR Lyrae-type
- - cepheids
- + - eclipsing stars
- $\Delta$  - Mira-type stars

In our work we have referred to the following data on investigation of variability in periods of variable stars:

- 1.) eclipsing stars - J.M. Kreiner, A.A., Vol.21, No.3, 1971
- 2.) cepheids P.P.Parenago, Per.Zvezdy 11, 4, 1956  
O.P.Vasilyanovskaya, G.E.Verlexova, Bull.In-ta astrofiziki, AN Tadzh.SSR No.54, 1970
- 3.) Mira-type stars - A.G.Nudzhenko, Per.Zvezdy 19, No.4, 1974

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