## NEW VARIABLE STAR IN THE ORION CONSTELLATION

I. S. Brjukhanov<sup>1</sup>, V. P. Goranskij<sup>2</sup>

<sup>1</sup> Amateur Group of Variable Stars Observers, Minsk, Belaruss

<sup>2</sup> Sternberg State Astronomical Institute

Universitetskij Prospect 13, Moscow 119899 Russia

ABSTRACT. New variable star with  $\alpha = 05^h57^m22^s$ ,  $\delta = +20^\circ15.5'$  (1950) was discovered with elements JD Max=2436999.28 + 0.2343973·E, range 15.6-16.2<sup>m</sup> (pg) and asymmetry M-m=0.26.

Key words: Stars: Pulsating

Variability of the star in Orion was discovered by I.S.B. when measuring 43 negatives of the 40-cm Crimean astrograph with a blink-comparator of the Sternberg State Institute. Co-ordinates were determined by linking to that of reference stars published by H.Vehrenberg (Atlas Stellarum). The brightness of the comparison stars was determined: c (0.0st, 15.54m), d (14.5st, 15.83m), e (26.0st, 16.08m).

Period search from  $0.1^d$  to  $5000^d$  by V.P.G. has shown that the star is variable with parameters listed in the Abstract, and may belong to a SX Phe subtype (or RRc or  $\delta$  Sct). Finding chart is shown at Fig.1, the phase light curve - at Fig. 2. Analysis of the Palomar Atlas images shows that the star is white or yellow. The outstanding points at Fig. 2 were checked and justified. Possibly the significant Blazhko effect is present.

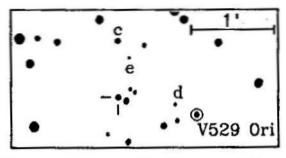


Figure 1: Finding chart for the new variable.

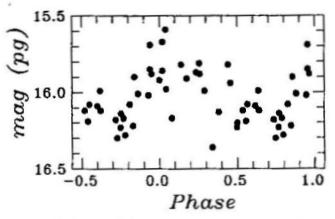


Figure 2: Phase light curve corresponding to  $P = 0.2343973^d$