stars is shown in Fig. 2. We have used the comparison GSC 1832.0923, GSC 1832.0809, GSC 1832.0849 and GSC 1832.1874.

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NEW EA–TYPE VARIABLE STAR IN THE FIELD OF NGC 2174 AND NGC 2175

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ABSTRACT. New Algol–type star is found with $\alpha = 06^h09^m16^s.9$, $\delta = +20°25'06''$ (2000.0), JD Min= 2449311.467 + 2.210345·E, range $13^m.9 - 15^m.3$, duration of eclipse $D = 0.07$.

Key words: Stars: eclipsing

The variability of the star in the field of NGC 2174 and NGC2175 was discovered by the author. The brightness was measured on 46 negatives of the Moscow (Sternberg Astronomical Institute) plate collection which were obtained in J.D. 2429362 - 2449359 and on 84 negatives of the Odessa plate collection (Astronomical Observatory, Odessa State University) in J.D. 2436252 - 2448919. The finding chart is shown in Fig. 1. The brightness of the comparison stars was determined by linking to the photometric standard SA 74 in the photometric system .

The data were analyzed by using the computer code by Yu.K.Kolpakov based on the method by Lafler and Kinman (1965). The star was found to be eclipsing with the parameters of the light curve (Fig. 2) listed in the Abstract. At the Palomar Atlas the star is not coloured, possibly its spectral class is A or F.

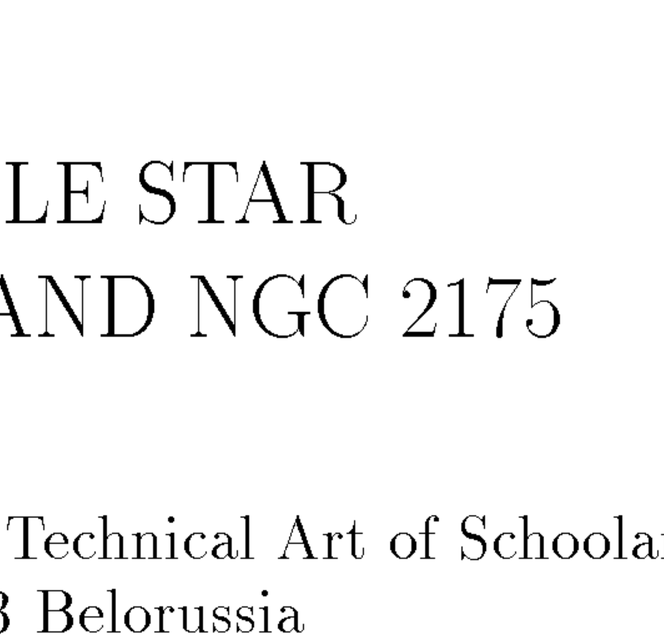

Figure 1. The finding chart for the new variable. The nearby star N1 = GSC 1322.0029, the brightness of the comparison stars = $13^m.91$, $b = 14^m.72$, $c = 15^m.43$.

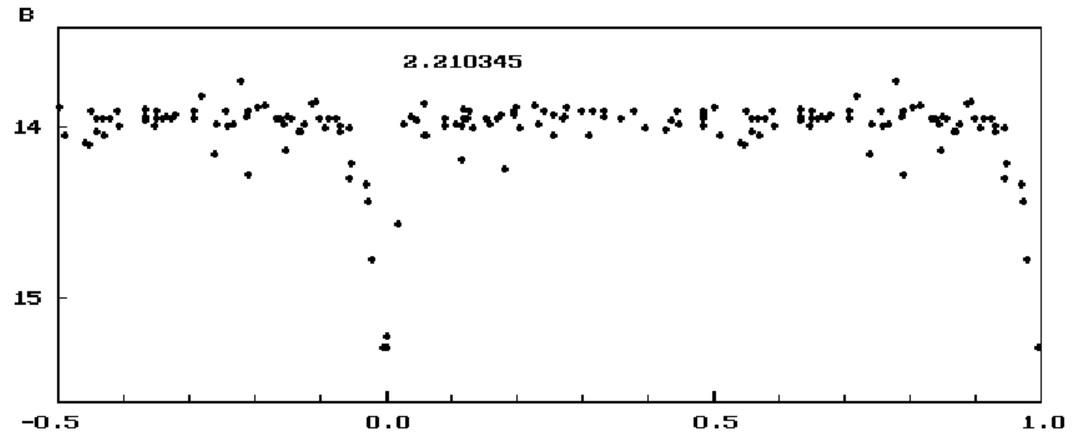

Figure 2. The phase curve.

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