

## THE NEW RR LYRAE STAR NSV 00461 IN ANDROMEDA

NSV 00461 (Wr 97, CSV 100100) was found to be variable by Weber (1962). He pointed out that this object could be a Cepheid with a photographic magnitude variation from 12<sup>m</sup>.9 to 14<sup>m</sup>.0. The position given for this object in the NSV catalogue (Kholopov, 1982) is erroneous (Vidal-Sainz et al., 1996). In the original finding chart by Weber, the suspected variable can be unambiguously identified with GSC 3276.1206, a star of 13.0 photovisual magnitude located about one degree to the North of the position given by Kholopov.

In order to confirm the variability of NSV 00461, the star was observed for 9 nights in the V band from 17 August to 13 September 1996. As comparison stars, GSC 3277.1096 was used, and GSC 3276.1106, GSC 3276.1187, and GSC 3277.0873 served as check stars. Observations were carried out from Monegrillo Observatory (Spain), using a CCD camera and a 0.4-m telescope.

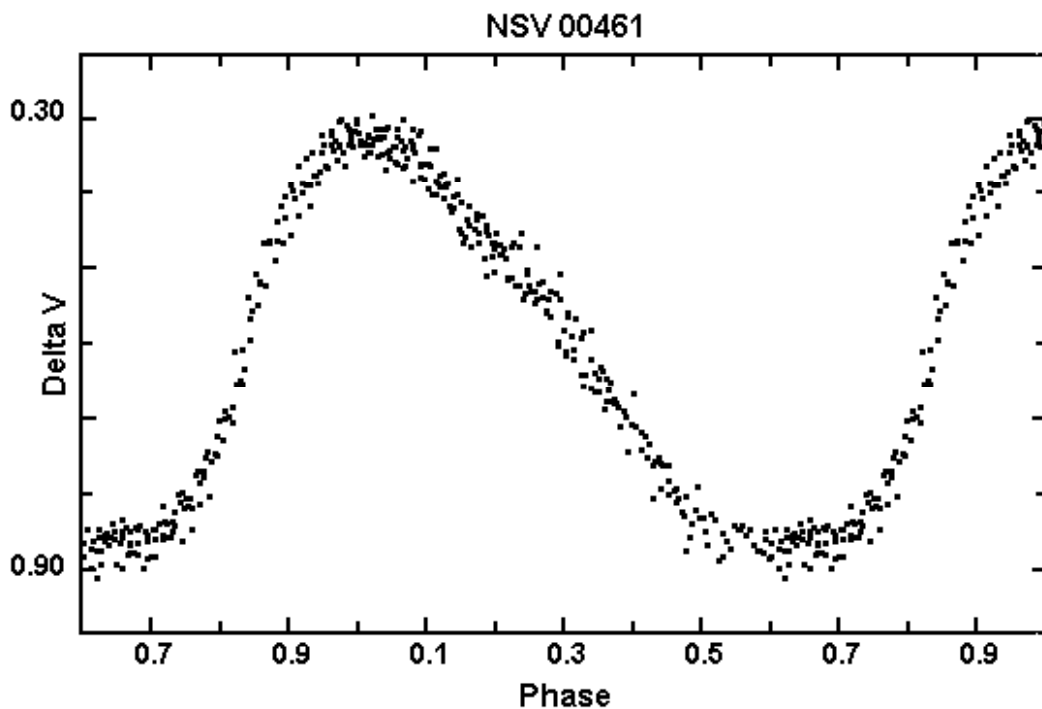


Figure 1

The gathered data showed that NSV 00461 is not a Cepheid but an RR Lyrae star with a period close to 9 hours. The phase curve (Figure 1) indicates that the amplitude of the variation is  $0^m55$ , and the asymmetry factor  $((M-m)/P)$  is  $0.31 \pm 0.02$ . The following ephemeris has been derived:

$$\begin{aligned} \text{Max.} = & \text{HJD } 2450330.475 + 0^d37350 \times E \\ & \pm 0.003 \pm 0.00006 \end{aligned}$$

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#### References:

- Kholopov, P.N., editor, 1982, New Catalogue of Suspected Variable Stars, Moscow  
 Vidal-Sainz, J., Gomez-Forrellad, J.M., Garcia-Melendo, E., 1996, *IBVS*, No. 4324  
 Weber, R., 1962, *IBVS*, No. 6