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A NEW RR LYRAE STAR IN COMA BERENICES

Wing (1973) published a photoelectric sequence for the radio-source ON 231. We have found (Véron and Véron 1975) that star F of this sequence is variable; from the color of this object measured by Wing ( $B - V = 0.35$ ,  $U - B = .09$ ), the amplitude and rate of change, we have suggested that it is an RR Lyrae.

Between May 1972 and May 1976, we got a total number of 40 plates of this field on which star F could be measured; 9 with the one meter (f/7) Ritchey-Chrétien telescope of the Wise Observatory, located at Mitzpe-Ramon, Israel and 31 with the franco-belgian (60/210) Schmidt telescope of the Haute-Provence Observatory. The r.m.s. uncertainty for the first set of plates is  $\sigma = 0.007$  mag., for the second, it is  $\sigma = 0.12$ . We have analysed these data using the autocorrelation method developed by Lafler and Kinman (1965); we obtained, by this way, a period  $P = 0.64527$  day. The light curve is shown in Figure 1, its shape confirms that this star is indeed an RR Lyrae.

The position of the star is:

$$\alpha = 12^{\text{h}}19^{\text{m}}08^{\text{s}}.8 \quad \delta = + 28^{\circ}31'48'' \text{ (1950.0)}$$

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References:

- Lafler, J., Kinman, T.D. 1965, *Astrophys. J. Suppl.* 2, 199.  
Véron, P. and Véron, M.P. 1975, *Astron. Astrophys.* 39, 281.  
Wing, R.F. 1973, *Astron. J.* 78, 684.

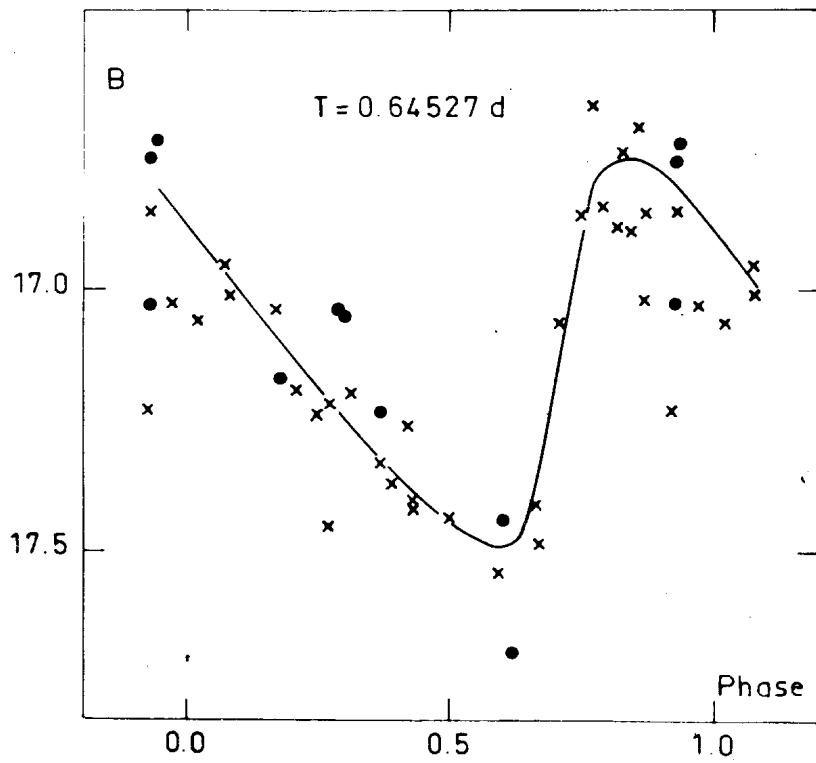


Figure 1.