

COMMISSION 27 OF THE I. A. U.
INFORMATION BULLETIN ON VARIABLE STARS

Number 2977

Konkoly Observatory
Budapest
23 January 1987
HU ISSN 0374-0676

A NEWLY DETECTED RR LYRAE STAR

The star BD+40^o0060 = NSV 134 (Strohmeier, 1958; Nikulina, 1959) is supposed to be a rapid irregular variable in the New Catalogue of Suspected Variable Stars. A more detailed inspection of the object revealed that it consists of two stars of almost equal brightness, the angular distance between them being about 6 seconds of arc. Photoelectric UBV observations were carried out by the author during 24 nights from 1985 September 11 to 1986 December 5 with the Sonneberg 60 cm telescope II and the Píszkéstető 50 cm telescope (Hungary). Because of the small angular distance of the pair it was not possible to measure the stars separately. The magnitude difference in V to the comparison star BD+40^o0056 varies between 0.5 to 1.0 mag. One of the stars, probably the preceding one, has clearly turned out to be an RR Lyrae star of type "ab". The companion would then have to be a late G type star according to the classification by Götz and Wenzel (1962). The observations in V are best reproduced by the following elements:

$$JD_{hel}(\text{Max.}) = 244\,6764.241 + 0.470568 \cdot E.$$

$\quad\quad\quad \pm 1 \quad\quad\quad \pm 2$

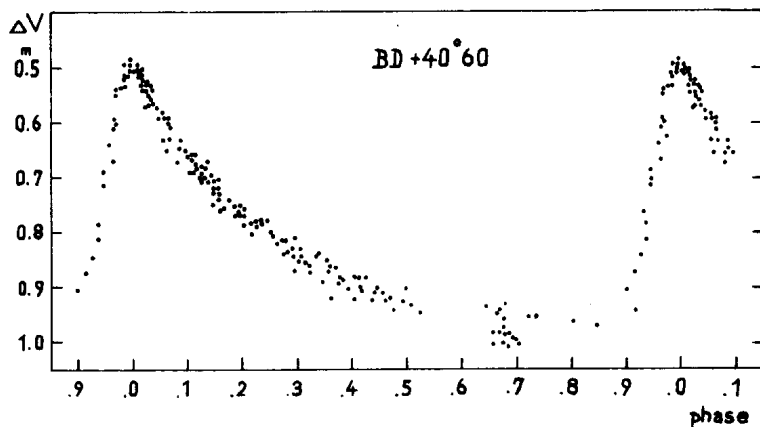


Figure 1

Whether or not the object is a physical pair is still unresolved.

S. RÖSSIGER

Zentralinstitut für Astrophysik
Sternwarte Sonneberg
Sonneberg
6400-DDR

References:

Götz, W., Wenzel, W., 1962, Mitt. Veränderl. Sterne, No. 628

Nikulina, T.G., 1959, Astron. Tsirk. No. 207, 14

Strohmeier, W., 1958, Kleine Veröff. Remeis-Sternw. Bamberg No. 21, 1