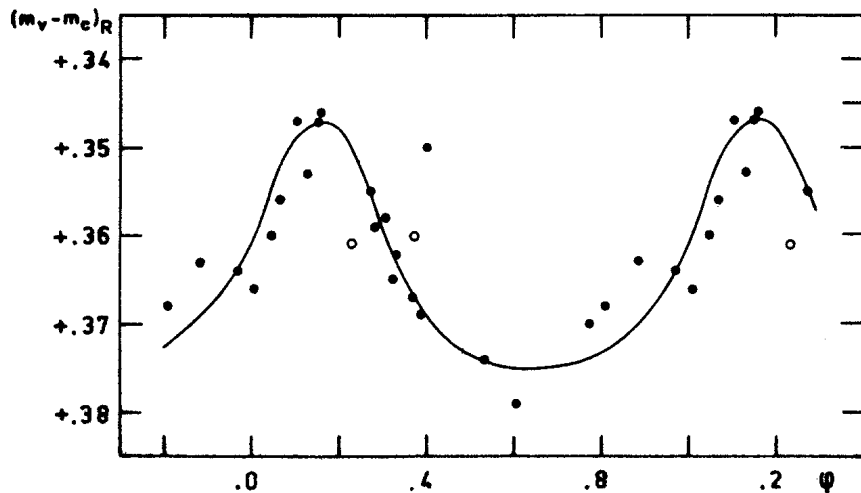


COMMISSION 27 OF THE I. A. U.
INFORMATION BULLETIN ON VARIABLE STARS
NUMBER 76.

Konkoly Observatory
Budapest
23 December 1964

LIGHT VARIATIONS OF THE
MAGNETIC-VARIABLE STAR HD 10783

HD 10783 (= BD + 7^o275), spectrum A2p, is one of the magnetic variable stars mentioned in the catalogue of Babcock (Ap.J.Supp. no 3, 1957). Steinitz (1964, Leiden thesis) derived for the magnetic variations a period of 4^d.134. The dispersion in the magnetic measures is however still rather large. During 23 nights in 1964 this star has been observed photoelectrically at the Leiden Observatory with the 45-cm Zunderman reflector. A red filter (effective wavelength 5960 Å) has been used. The comparison star was BD + 8^o258 (= HD 10262), of spectral type F2. The normal points in the figure are means of about ten individual observations, corrected for differential extinction. The values of the differential extinction between variable and comparison seldom exceeded 10^{-3} .



From our measures we derived a better and more accurate period of $4^d.1565$ for the photoelectric as well as for the magnetic variations. The phases have been computed with the formula:

$$\text{phase} = (\text{JD} - 2430000) \times 240587.$$

The observations will be published in the B. A. N.

A. M. VAN GENDEREN
Leiden Observatory