COMMISSION 27 OF THE I. A. U.
INFORMATION BULLETIN ON VARIABLE STARS
NUMBER 56

Konkoly Observatory
Budapest
24 June 1964

PREDISCOVERY MAGNITUDES OF THE SUPERNOVA IN U Ma

The brightness of the supernova found by M. Lovas at the mountain station of the Konkoly Observatory was measured on our sky patrol plates. These measurements cover the interval between the Soviet and Hungarian observations (Inf. Bull. No. 50).

J.D. 2438 439.50	1964	Febr.	13	[14^m.3 invisible
440.57			14	14.3 suspicious ?
446.57			20	13.2
457.36		March	2	12.85
463.47			8	13.3
465.52			10	13.1
502.50		Apr.	16	[14.3 invisible

The comparison sequence is the same as published in Inf. Bull. No. 50.

P. AHNERT
Sonneberg Observatory

THE ELEMENTS OF THE VARIABLE STAR 78.1933. Cnc

The star is No. 1389 in the CSSV(Moscow 1951) = SVS 540 Cnc. According to P. Koulikovsky (Per. Zv. 4. 295, 1934) the star is of Algol type varying between 12.6 and 14.5 m_{pg}. On the basis of 53 brightness estimates made by K. Kordylewski at the mountain station of the Konkoly Observatory by means of the 8" expedition telescope of the Cracow University Observatory the Algol type was not confirmed.

The observations show two quick rises of brightness. The brightness was equal to that of the comparison star A (Acta Astr. Suppl. 1950. 1.) at the moments:

$$\text{J.D. } 243\ 8418^{d}.4696 \pm {}^{d}.0033;$$
$$\text{J.D. } 243\ 8430^{d}.4151 \pm {}^{d}.0030.$$

Moreover, from 448 observations covering the period 1936-1950 (Kordylewski l.c.) and from 180 observations between 1955 and 1960 (made available to me by K. Kordylewski) I found that the star is an RR Lyrae variable of type a.

The elements are:

$$\text{Hel. Max.} = \text{J.D. } 243\ 8418^{d}.5002 + 0^{d}.5431583 . E$$
$$M - m = 0^{d}.0532$$
$$A_{vis} = 12^{m}.12 - 13^{m}.05$$

No Blashko effect has been found.

Cracow, 8 June 1964

J. M. KREINER
Astronomical Observatory of the
Jagellonian University