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REMARKS ON FOUR VARIABLE STARS

CSV 5885

CSV 5885 = Wr 67 has been suspected to be a Cepheid (Weber, R., 1958, J.O. 41.4). Variability could be confirmed and first elements could be determined from 123 Sky-patrol-plates (1959-1976):

$$\text{Max.} = \text{J.D. } 24\ 41598.277 + 1^{\text{d}}.9881921.E \quad (\text{C})$$
$$(11^{\text{m}}.30 - 11^{\text{m}}.90 \text{ ph.}, M - m = 0^{\text{p}}.35)$$

CSV 8736

No observations of this star (BV 120) have been published except the discovery (Geyer, E., 1955, Kl. Veröff. Remeis-Sternw. Bamberg No. 11). Eleven maxima were found on Hartha Sky-patrol-plates (1973-1978) and first elements are:

$$\text{Max. (hel.)} = \text{J.D. } 24\ 41921.348 + 0^{\text{d}}.2463557.E \quad (\text{RRc})$$
$$(11^{\text{m}}.21 - 11^{\text{m}}.49 \text{ ph.})$$

CSV 8883

This star (BV 326) has not been observed since its discovery by Strohmeier, W. and Knigge, R. (Veröff. d. Remeis-Sternw. Bamberg Band V.5) in 1960. Elements could be derived from 193 Hartha Sky-patrol-plates (1959-1976) and an abrupt period change in 1965 October, was detected.

The elements are:

a. for the interval from J.D. 24 36637-24 39029: (EW)

$$\text{Min. (hel.)} = \text{J.D. } 24\ 37016.435 + 0^{\text{d}}.4900267.E$$

b. for the interval from J.D. 24 39052-24 43016:

$$\text{Min. (hel.)} = \text{J.D. } 24\ 43015.413 + 0^{\text{d}}.4900322.E$$

$$(10^{\text{m}}.50 - 10^{\text{m}}.98 / 10^{\text{m}}.98 \text{ ph.})$$

CSV 101915

CSV 101915 = 711.1933 was discovered by Morgenroth, O. (1933, Astron. Nachr. Bd. 251,17) who also gave times of minima. A revision of 327 Sky-patrol-plates yields 3 new minima:

Minimum J.D.	Epoch	O-C	Observer
2400000 +			
27275.0	- 40	+ 0.3 ^d	Morgenroth
38235.5	0	+ 0.0	Berthold
372.2	+ 0.5	- 0.3	
39057.3	+ 3	- 0.3	

Used preliminary elements:

$$\text{Min.} = \text{J.D. } 24\ 38235.5 + 274.02.E \quad (\text{EA})$$

$$(11.64-12.75/12.75 \text{ ph, } D \approx 5^d)$$

Period probably must be halved.

Further particulars will be published in "Mitteilungen der Bruno-H.-Bürgel-Sternwarte Hartha" Heft 18.

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