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INFORMATION BULLETIN ON VARIABLE STARS

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REMARKS ON 6 VARIABLE STARS

EP And

Elements for this star have been announced by Locher, K. (BBSAG Bull. 25) and the authors of the GCVS-Supplement 1976. Sky-Patrol plates of the Hartha and Sonneberg Observatories have been used to check the period in the years 1928-1976.

Improved elements

a) for the interval from J.D. 2425500-2437600:

$$\text{Min. (hel.)} = \text{J.D. } 2427483.258 + 0.^{\text{d}}4041081 \cdot \text{E} \quad (\text{EW})$$

b) for the interval from J.D. 2437600-2443000:

$$\text{Min. (hel.)} = \text{J.D. } 2440152.449 + 0.^{\text{d}}4041070 \cdot \text{E} \quad (\text{EW})$$

V 466 Cyg

In SAC 50 (1979) corrected elements for this Algol-type binary were given to satisfy two minima of Diethelm, R. (Orion 120 and 126)

Twenty newly observed Min. I and II from 1954-1979 confirm the elements of the GCVS. A period change since 1935 is not probable.

EG Sgr

Although this star has been often observed we have no clearness about its true period, moreover, following the GCVS the period should be variable.

Photographic investigations of Sonneberg Sky-Patrol plates from 1929-1979 and an analysis of the former published minima having

lead to the acceptance of the long value ( $4^d.97$ ). There are no symptoms for a period change in the last 50 years. A new revision of 64 minima found from 1903-1980 yields the following somewhat improved elements:

$$\text{Min. (hel.)} = \text{J.D. } 2441830.517 + 4^d.9723590 \cdot E \quad (\text{EA})$$

A final decision whether the period is  $4^d.97$  or  $2^d.49$  is still outstanding.

#### CSV 5844

Lukatskaya, F.J. discovered this star (=BD + 63<sup>O</sup>17) and announced it as a possible eclipsing binary (Astron. Circ. 216.13, 1960). Investigations of this star on 344 plates were carried out. The photometric behaviour is characterised by a normal light of  $10^m.7$  ph. irregular appearing minima (depth about  $0^m.5$  mag., duration 6-8 days). Therefore CSV 5844 seems to be a member of the BO-Cep group (Isb).

#### SAO 077615

In I.B.V.S. No. 1556 Harris, A.W. has given two possible values of the period of this bright W UMa type star. A revision of 232 Hartha Sky-Patrol plates (1958-1977) yields 13 new minima I and II, representable by a period near Harris' second variant. Moreover, an abrupt period increase of 1.5 sec. in 1971 was detected. Elements available from J.D. 2436540-2441300:

$$\text{Min. (hel.)} = \text{J.D. } 2436637.340 + 0^d.3464380 \cdot E \quad (\text{EW})$$

and from J.D. 2441300-2443200:

$$\text{Min. (hel.)} = \text{J.D. } 2441329.510 + 0^d.3464551 \cdot E \quad (\text{EW})$$

( $8^m.9-9^m.3/9^m.3$  ph.)

#### Huruhata's object in CMi

Huruhata announced a new bright Algol-type variable in I.B.V.S. No. 1574.

From investigations of 200 plates he derived first elements which could be confirmed on principle by further minima found on 394 Sonneberg Sky-Patrol plates from 1942-1979.

The improved elements are:

$$\begin{aligned} \text{Min. (hel.)} &= \text{J.D. } 2444169.571 + 1^{\text{d}}.1806866 \cdot E && \text{(EA)} \\ & (10^{\text{m}}.85 - 11^{\text{m}}.60 \text{ ph., no secondary minimum} \\ & D = 0^{\text{P}}.18) \end{aligned}$$

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