

COMMISSIONS 27 AND 42 OF THE IAU
 INFORMATION BULLETIN ON VARIABLE STARS
 Number 3885

Konkoly Observatory
 Budapest
 27 May 1993
 HU ISSN 0324 - 0676

NEW ELEMENTS OF THE SMALL AMPLITUDE CEPHEID V1726 Cyg

Variability of V1726 Cyg was discovered by Platais (1979), who determined the elements:

$$\text{Max JD hel} = 2442884.996 + 4^d 2388 \times E \quad (1)$$

Platais and Shugarov (1981) observed this star photoelectrically and improved the elements:

$$\text{Max JD hel} = 2444105.39 + 4^d 2359 \times E \quad (2)$$

Szabados (1991), having Berdnikov's (1986) photoelectric observations, derived new elements:

$$\text{Max JD hel} = 2444105.697 + 4^d 236978 \times E \quad (3)$$

Recently we have obtained new observations (Berdnikov, 1992a) of V1726 Cyg, and now the time-base of the available photometric observations is sufficient for improvement of the elements (3). With this aim all above-mentioned photoelectric observations have been analysed with Hertzsprung's method; Berdnikov's (1992a) light curve served as the standard curve, and computer version of this method (Berdnikov, 1992b) was used. Moments of normal maxima in filter V together with their errors are presented in Table 1; N is the number of utilised observations. On the base of this data, the following elements have been derived (using the least squares method with weights being inversely proportional to error squares):

$$\text{Max JD hel} = 2444105.214 + 4^d 2370487 \times E \quad (4)$$

$$\pm 0.001 \pm 0.0000006$$

Table 1

Max JD hel	Error	N	E	O-C	Reference
2444105.214	0.019	33	0	0.000	Platais and Shugarov (1981)
2444622.075	0.039	22	358	-0.002	Berdnikov (1986)
2448511.744	0.018	21	1040	0.000	Berdnikov (1992a)

The corresponding epochs E and O-C residuals in Table 1 are calculated with elements (4).

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