BAV - Mitteilungen Nr.24

ELEMENTS FOR IQ PERSEI

The GCVS II (1970) gives no elements for this probable Algol-type variable, only the time for one minimum is published. Observations of BAV-members lead to the following elements:

$$\text{Min I} = \text{JD } 24\ 33546.5036 + 1\overset{d}{.}743\ 563\ 7 \cdot E.$$

The following minima were available for the calculations:

Time of Minimum (JD 24...)	Observer	n	O - C
33 243.13 :	(GCVS)	1	+0.006:
513.396:	K.Dorke	8	+0.020:
546.500	K.Domke	11	-0.003
900.449	A.Jahn	10	+0.003
41 040.332:	W.Bischof	8	-0.008:
230.389	W.Bischof	15	±0.000
244.338:	W.Bischof	15	+0.001:
249.567	W.Bischof	18	±0.000

n is the number of individual estimates used for timing the respective minimum, : means that the time of minimum is uncertain. Only the 4 accurate minima were used to calculate the above elements.

The type of variability is Algol. The visual observations did not lead to a secondary minimum of observable depth. The "D" of primary minimum is $0\overset{d}{.}2$, the 'd' may be $0\overset{h}{.}0$ to $1\overset{h}{.}0$. The visual amplitude is about $0\overset{m}{.}6-0\overset{m}{.}7$. A complete description of the observations with lightcurve shall be published in BAV-Rundbrief no. 3/1972.

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