

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

Number 2028

Konkoly Observatory  
 Budapest  
 1981 October 19  
 HU ISSN 0374-0676

THE MAXIMUM TIMES AND NEW LIGHT ELEMENTS OF 44 TAURI

The Delta Scuti type variable 44 Tau has been observed at Ege University Observatory from December 21, 1979 to November 16, 1980. The observations were carried out with the 48 cm Cassegrain reflector equipped with an unrefrigerated EMI 9781 A photomultiplier. The intermediate band filters were used at the observations.

The maximum times obtained during the observations are given in the following table.

Table  
 The maximum times of 44 Tau

JD Hel.	O-C(I)	O-C(II)	E	Filter
2444 235.4116	-0.0083	+0.0043	-103	u
.4117	-0.0082	+0.0044	-103	v
.4124	-0.0075	+0.0051	-103	b
.4160	-0.0039	+0.0087	-103	y
236.4161	-0.0181	-0.0067	- 96	u
.4150	-0.0192	-0.0078	- 96	v
.4170	-0.0172	-0.0058	- 96	b
.4181	-0.0161	-0.0047	- 96	y
250.3450	+0.0004	-0.0042	0	u
.3440	-0.0006	-0.0052	0	v
.3454	+0.0008	-0.0038	0	b
.3438	-0.0008	-0.0054	0	y
252.3845	+0.0113	+0.0044	14	u
.3860	+0.0128	+0.0059	14	v
.3900	+0.0168	+0.0099	14	b
.3845	+0.0113	+0.0044	14	y
269.3504	+0.0239	-0.0026	131	b
.3520	+0.0255	-0.0010	131	y

For the determination of preliminary elements  
 JD Hel.2444 250.3446 was taken as a reference time and a period

of  $0^{\text{d}}.1449$  given by Wizinowich and Percy (1979) was adopted.

The O-C(I) residuals were computed with these elements. The least squares solution has been applied and the new light elements were derived as follows:

$$\text{Max.} = \text{JD Hel.} 2444\ 250.3492 + 0^{\text{d}}145067.E$$

$\quad \quad \quad \underline{+15} \quad \quad \quad \underline{+19}$

The O-C(II) residuals were computed using these new light elements.

The light curves and the variations of their amplitudes will soon be published elsewhere.

O. TÜMER, A.Y. ERTAN, S. EVREN, Z. TUNCA  
and C. IBANOGLU  
Ege University Observatory  
Bornova, Izmir-Turkey

Reference:

Wizinowich, P. and Percy, J.A.: 1979, Publ.A.S.P. 91,53.