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THE MAXIMUM TIMES AND THE LIGHT ELEMENTS OF 28 ANDROMEDAE

In the course of the intermediate and narrow band photometry of some Delta Scuti type variables, 28 And was observed at Ege University Observatory with the 48 cm Cassegrain reflector, equipped with an unrefrigerated EMI 9781 A photomultiplier. The star was observed on four nights, from December 28, 1979 to February 10, 1980 and nine times of maxima were obtained.

The times of maxima are given in the following table.

Table
 The maximum times of 28 And

JD Hel.	O-C(I)	O-C(II)	E	Filter
2444 236.2530	0. ^d 0015	-0. ^d 0029	0	u
.2520	0.0005	-0.0039	0	v
.2515	0.0000	-0.0044	0	b
.2545	0.0030	-0.0014	0	y
250.2595	0.0010	+0.0007	203	u
.2655	0.0070	+0.0067	203	v
.2630	0.0045	+0.0042	203	b
.2660	0.0075	+0.0042	203	y
280.2590	-0.0145	-0.0060	638	b

For the determination of preliminary elements JD Hel.2444 236.2515 was taken as a reference time and a period of 0.^d069 given by Breger (1969) was adopted. The O-C(I) residuals were computed with the above given elements. The least squares solution has been applied to these O-C(I) values and cycle numbers (E), and new light elements were derived as follows:

$$\text{Max.} = \text{JD Hel.} 2444\ 236.2559 + 0.\overset{\text{d}}{0689797} . \text{E}$$

$\begin{array}{ccc} & +22 & +91 \\ & \underline{\hspace{1em}} & \underline{\hspace{1em}} \end{array}$

Also the O-C(II) residuals were computed according to the new light elements.

The light curves and the results of the intermediate and narrow band photometry of this star will be published elsewhere.

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

Reference:

Breger, M.: 1969, Astron.J. 74, 166.