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HO TELESCOPII: LIGHT ELEMENTS

The variability of HO Tel was discovered by Strohmeier, Knigge and Ott (1965). They published three times of minimum and gave the first light elements. Spoelstra and van Houten (1972) derived from five-colour photometry four times of minimum and have found that the period is about twice that obtained by Strohmeier et al. Spoelstra and van Houten's light elements are based on minima covering 287.5 cycles. In this note we present four times of minimum light determined from 271 UBV observations obtained at the Bosque Alegre Station of Cordoba Observatory with the 1.54 m telescope. The photoelectric minima are now extended to a range of 2464.5 cycles. Our observations confirm the period as derived by Spoelstra and van Houten. In Table I are listed all

Table I

Min.	Hel.J.D. 2400000+	E	(O-C)	(O-C)'	References
I	38560.513	-2514.0	+0.021		1
II	38585.476	-2498.5	-0.019		1
I	38636.312	-2467.0	+0.004		1
II	38982.31713	-2252.5	-0.0016	0.0000	2
I	38986.34941	-2250.0	-0.0021	-0.0004	2
II	38990.38201	-2247.5	-0.0022	-0.0006	2
II	39024.25845	-2226.5	-0.0010	+0.0006	2
II	42274.6591	- 211.5	-0.0042	-0.0043	3
I	42275.4759	- 211.0	+0.0060	+0.0060	3
II	42574.7020	- 25.5	+0.0014	+0.0012	3
I	42957.8107	+ 212.0	-0.0020	-0.0024	3

References: 1. Strohmeier et al.(1965); 2. Spoelstra and van Houten (1972); 3. Present note.

known minima. A least squares solution gives the following linear light elements:

$$\text{Min.I} = \text{Hel.J.D. } 2442615.8348 + 1.6131037 \cdot E, \\ \pm 0.0051 \pm 0.000027$$

for all minima, while from photoelectric observations only we

found

Min.I= Hel.J.D. 2442615.8350+1.6131045·E,  
±.0016 ±.0000010

which has smaller m.e.'s and residuals (O-C)' as compared with (O-C) from the elements including the first three photographic minima.

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