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UZ OCTANTIS

The variability of UZ Oct (BV 421 = CoD -85°47 = CPD -85°55) was announced by Strohmeier (IBVS 51, 1964), who also gave the first photographic light elements (IBVS 54, 1964); Köhler and Schöffel (IBVS 91, 1965) proved the star to be a \dot{W} UMa system instead of an RRC type variable as previously believed; also they published times of minimum light and the corresponding light elements. In this note we present times of minimum derived from 431 photoelectric UBV observations made at the Bosque Alegre station of Córdoba Observatory with the 1.54 m reflecting telescope. Individual minima are listed in Table I together with the older photographic ones; they were used to determine the following least square linear ephemeris:

$$\text{Min. I} = \text{JD hel. } 2440223.1560 + 1^d1493709 \cdot E \\ \pm .0084 \quad \pm .0000053$$

Weights (W) in Table I were given according to the quality and number of the observations for each color; weight unity was assigned to the photographic observations.

Using only the photoelectric minima we found:

$$\text{Min. I} = \text{JD hel. } 2442064.44803 + 1^d1493549 \cdot E \\ \pm .00022 \quad \pm .0000055$$

the primed values in Table I correspond to these elements.

The observations of the system will be completed in the next observing season; the 431 complete UBV observations at present cover well the primary minimum (~ 12 observations per normal point), however, secondary minimum and the maxima are not so well covered. The following depths were found in relation to the comparison star (CoD -85°49)

$$\text{Primary minimum: } \Delta V = +0^m.065, \Delta B = +0^m.110, \Delta U = +0^m.295$$

$$\text{Secondary minimum: } \Delta V = +0^m.005, \Delta B = +0^m.035, \Delta U = +0^m.225$$

and the light at maxima: $\Delta V = -0^m.460, \Delta B = -0^m.445, \Delta U = -0^m.250$

Secondary minimum shows constant light during an interval of about 90 minutes indicating it to be an occultation, while primary minimum shows the effects of a slightly curved transit.

Times of minimum								
Color	JD hel. 2400000+	E	W	(O - C)	E'	W'	(O - C)'	
Pg	38316.323	-1659.0	1	-0.027				
	38374.356	-1608.5	1	-0.037				
	38374.401	-1608.5	1	+0.008				
	38408.324	-1579.0	1	+0.025				
	38427.279	-1562.5	1	+0.015				
	38435.314	-1555.5	1	+0.004				
	38439.312	-1552.0	1	-0.020				
	38439.356	-1552.0	1	+0.024				
	38440.449	-1551.0	1	+0.033				
	38443.353	-1548.5	1	-0.002				
	38443.398*	-1548.5	1	+0.043				
	V	42005.8333	+1551.0	2	+0.0031	-51.0	1	+0.0024
	B	42005.8326	+1551.0	2	+0.0024	-51.0	1	+0.0017
	U	42005.8326	+1551.0	2	+0.0024	-51.0	1	+0.0017
V	42011.5775	+1556.0	2	+0.0004	-46.0	1	-0.0002	
B	42011.5779	+1556.0	2	+0.0008	-46.0	1	+0.0002	
U	42011.5777	+1556.0	2	+0.0006	-46.0	1	0.0000	
V	42012.7270	+1557.0	3	+0.0005	-45.0	2	-0.0001	
B	42012.7269	+1557.0	3	+0.0004	-45.0	2	-0.0002	
U	42012.7262	+1557.0	3	-0.0003	-45.0	2	-0.0009	
V	42066.7461	+1604.0	3	-0.0008	+ 2.0	2	-0.0006	
B	42066.7462	+1604.0	3	-0.0007	+ 2.0	2	-0.0005	
U	42066.7469	+1604.0	3	0.0000	+ 2.0	2	+0.0002	
V	42067.8942	+1605.0	2	-0.0021	+ 3.0	1	-0.0019	
B	42067.8942	+1605.0	2	-0.0021	+ 3.0	1	-0.0019	
U	42067.8942	+1605.0	2	-0.0021	+ 3.0	1	-0.0019	
V	42123.6396	+1653.5	3	-0.0012	+51.5	2	-0.0002	
B	42123.6412	+1653.5	3	+0.0004	+51.5	2	+0.0014	
U	42123.6407	+1653.5	3	-0.0001	+51.5	2	+0.0009	

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M.E. CASTORE DE SISTERO
 R.F. SISTERO
 Observatorio de Córdoba
 Laprida 854
 Córdoba, Argentina.