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Y CYGNI

For the star Y Cygni exhibiting apsidal rotation R.S. Dugan published in 1931 (Princ. Contr. No. 12) the following elements:

"Even" t_{min} = J.T.240 9534.3195 + $2^d.996\ 3331\ n + 0^d.1380 \sin 0^\circ.06266\ n - 0^d.0074 \sin 0^\circ.12532\ n$

"Odd" t_{min} = J.T.240 9635.8175 + $2^d.996\ 3331\ n - 0^d.1380 \sin 0^\circ.06266\ n - 0^d.0074 \sin 0^\circ.12532\ n$

According to these elements the minima shall reach their extreme positions in 1967, the even minima passing through a negative, the odd minima through a positive maximum.

The correction of these apparently rather accurate elements (s. A.N. 287, 186, 1963 = Mitt. Potsdam Nr. 106) will only be worth, after a great number of exact moments will be obtained for the even and likewise for the odd minima in the next years, from 1964 to about 1970.

Therefore I give in the Table below the moments of the minima for the time interval 1964 August 12 - December 18 calculated by using Dugan's elements. Only the first sinusoidal term was taken into account. The minima given here are those for n = 9704 to n = 9750. In this interval the period will increase from $2^d.996\ 277$ to $2^d.996\ 284$ for the even minima and diminish from $2^d.996\ 390$ to $2^d.996\ 382$ for the odd minima. Hereby, the odd minima will occur at the beginning of the interval mentioned $1^d.754$ and at the end of it $1^d.759$ later than the even ones. A similar table for 1965 will be given later. The even minima are not listed here since they occur in the afternoon hours.

J.D.M.A.T.G.		U.T.	
243 8000.000 +			
619.597	1964. Aug.	12^d	$2.^h3$
622.593		15	2.2
625.589		18	2.2
628.586		21	2.1
631.582		24	2.0
634.578		27	1.9
637.574		30	1.8
640.571	Sept.	2	1.7
643.567		5	1.6
646.563		8	1.5
649.560		11	1.4
652.556		14	1.3
655.552		17	1.2
658.548		20	1.2
661.545		23	1.1
664.541		26	1.0
667.537		29	0,9
670.534	Oct.	2	0.8
673.530		5	0.7
676.526		8	0.6
679.522		11	0.5
682.519		14	0.4
685.515		17	0.4
688.511		20	0.3
691.507		23	0.2
694.504		26	0.1
697.500		29	0.0
700.496		31	23.9
703.492	Nov.	3	23.8
706.489		6	23.7
709.485		9	23.6
712.481		12	23.6
715.478		15	23.5
718.474		18	23.4
721.470		21	23.3
724.467		24	23.2
727.463		27	23.1
730.459		30	23.0
733.455	Dec.	3	22.9
736.452		6	22.8
739.448		9	22.8
742.444		12	22.7
745.440		15	22.6
748.437		18	22.5

Astrophysikalisches Observatorium Potsdam, July 30, 1964.
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