EPHEMERIS OF THE OLBERS COMET.

BY FRANK MULLER.

In No. 2818 of the *Astronomische Nachrichten*, Dr. KRUEGER has given an ephemeris of OLBERS's comet, extending to March 10. On February 21, when the brightness relative to that at discovery was 0.25, the comet was pretty bright, strongly condensed, and easy to observe with the 26-inch equatorial. As the comet is favorably situated for observing, and its brightness is decreasing but slowly, I have thought it worth while to continue this ephemeris for the use of those in this country who have powerful telescopes. At its appearance in 1815 the comet was observed during 172 days; at this appearance it will probably be visible much longer. The unit for L is the brightness on Aug. 27.

After making some small corrections to GINZEL's elements, Dr. KRUEGER based his ephemeris on them. The correction to this ephemeris, January 25, was $+6^s$ in right-ascension and $+0'.3$ in declination; and as this correction does not appear to be changing appreciably, and the agreement is sufficiently close for finding, I have not thought it worth while to vary the elements.

I have reduced these elements, given in No. 2806 of the *Astronomische Nachrichten*, to the mean equinox of 1888.0; they are as follows:

$$T = 1887 \text{ Oct. } 8.4938 \text{ Berlin M.T.}$$
$$\left.\begin{aligned} \pi &= 149^\circ\ 48'\ 57'' \\ \Omega &= 84\ 28\ 30 \\ i &= 44\ 32\ 53 \end{aligned}\right\} 1888.0$$
$$\rho = 68\ 35\ 36$$
$$\log q = 0.078899$$

CONSTANTS FOR THE EQUATOR:

$$x = [9.854826]\ r \sin (v + 237^\circ\ 36'\ 41'')$$
$$y = [9.972377]\ r \sin (v + 168\ 39\ 50\ )$$
$$z = [9.891630]\ r \sin (v + 95\ 54\ 20\ )$$

EPHEMERIS FOR BERLIN MEAN MIDNIGHT.

1888	α	δ	log r	log Δ	L
	h m s	° ′			
Mar. 2	18 6 33	— 7 50.1	0.3716	0.3917	0.24
3	7 19	7 55.0			
4	8 4	7 59.8			
5	8 48	8 4.5			
6	9 30	8 9.3	0.3793	0.3895	
7	10 11	8 14.0			
8	10 50	8 18.7			
9	11 28	8 23.4			
10	12 4	8 28.2	0.3869	0.3871	0.23
11	12 40	8 32.9			
12	13 13	8 37.6			
13	18 13 45	— 8 42.3			
14	18 14 16	— 8 47.0	0.3943	0.3843	
15	14 45	8 51.8			
16	15 12	8 56.4			
17	15 39	9 1.1			
18	16 3	9 5.9	0.4016	0.3814	0.22
19	16 26	9 10.7			
20	16 48	9 15.5			
21	17 8	9 20.3			
22	17 26	9 25.1	0.4088	0.3783	
23	17 43	9 30.0			
24	17 59	9 34.9			
25	18 13	9 39.8			
26	18 25	9 44.8	0.4159	0.3750	0.21
27	18 36	9 49.8			
28	18 45	9 54.8			
29	18 52	9 59.9			
30	18 58	10 5.0	0.4227	0.3716	
31	19 2	10 10.1			
Apr. 1	19 5	10 15.3			
2	19 6	10 20.6			
3	19 5	10 25.9	0.4295	0.3682	0.21
4	19 2	10 31.2			
5	18 58	10 36.6			
6	18 53	10 42.1			
7	18 45	10 47.6	0.4362	0.3648	
8	18 36	10 53.2			
9	18 26	10 58.8			
10	18 13	11 4.6			
11	17 59	11 10.2	0.4427	0.3615	0.20
12	17 43	11 16.0			
13	17 25	11 21.9			
14	17 6	11 27.8			
15	16 45	11 33.8	0.4491	0.3584	
16	16 23	11 39.8			
17	16 58	11 45.9			
18	15 32	11 52.1			
19	15 5	11 58.4	0.4555	0.3555	0.20
20	14 36	12 4.7			
21	14 5	12 11.1			
22	13 32	12 17.5			
23	12 58	12 24.0	0.4617	0.3529	
24	12 22	12 30.6			
25	11 45	12 37.2			
26	11 6	12 43.9			
27	10 25	12 50.6	0.4678	0.3507	0.19
28	9 43	12 57.4			
29	8 59	13 4.3			
30	8 14	13 11.2			
May 1	7 27	13 18.2	0.4738	0.3490	
2	7 39	13 25.3			
3	7 50	13 32.4			
4	7 59	13 39.5			
5	18 4 6	—13 46.7	0.4797	0.3479	0.18

Leander McCormick Observatory, 1888 *February* 24.

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