In den Ausdrücken für $\frac{x_1'}{r_1^3}, \frac{y_1'}{r_1^3}, \frac{z_1'}{r_1^3}$ treten daher noch die Glieder auf

$$\begin{aligned} (r_1) \cos(v_1 + \Pi) \cdot \frac{1}{2} \sum_{i=-\infty}^{+\infty} Y^{(i)} \cos i M_1 &= \frac{1}{2} \sum_{i=-\infty}^{+\infty} L_i \cos(i M + \Pi) \\ (r_1) \sin(v_1 + \Pi) \cdot \frac{1}{2} \sum_{i=-\infty}^{+\infty} Y^{(i)} \cos i M_1 &= \frac{1}{2} \sum_{i=-\infty}^{+\infty} L_i \sin(i M_1 + \Pi) \\ \frac{1}{2} z_1 \sum_{i=-\infty}^{+\infty} Y^{(i)} \cos i M_1 \end{aligned}$$

wobei

$$L_i = \frac{1}{2} a_1 \sum_{k=-\infty}^{+\infty} Y^{(k-i)} g^{(k)}$$

Schliesslich wird es noch nöthig, auf die Variabilität der Y' und $Z_{\lambda}^{(\sigma)}$ Rücksicht zu nehmen, und den Einfluss der Störungen γ, γ_1 der Radienvectoren zu berücksichtigen, was jedoch keinen wesentlichen Schwierigkeiten unterliegt.

Wien 1885 Juni 19.

N. Herz.

Observations of (1) Ceres and (2) Pallas at the Opposition of 1885.

The accompanying positions of (1) Ceres and (2) Pallas have been obtained by means of the filar-micrometer on the $4\frac{1}{2}$ inch equatorial. The differential measures are corrected for refraction and the places of the planets for parallax. Proper motion has been applied to star 7 only.

1885	Winds.M.T.	Δ RA.	Δ NPD.	Cp.	RA. app.	NPD. app.	Red. ad l. app.	*
(1) Ceres.								
March 14	10 ^h 27 ^m 16 ^s	+3 ^m 57 ^s 9.1	— 2' 35".3	12	13 ^h 28 ^m 13 ^s 55	82° 11' 15".3	+1 ^s 77	+10".5 1
15	10 12 46.	+3 21.85	— 8 0.9	10	13 27 37.50	82 5 49.7	+1.78	+10.5 1
17	9 47 46	+1 42.57	— 4 38.5	10	13 26 21.12	81 55 1.5	+1.81	+10.5 2
17	9 47 46	+1 35.63	— 0 19.8	10	13 26 21.20	81 55 0.5	+1.81	+10.5 3
18	11 28 50	+0 52.27	— 6 5.0	10	13 25 37.95	81 49 15.5	+1.82	+10.5 3
April 1	9 30 23	— 0 57.48	+ 1 5.7	7	13 14 42.76	80 42 58.9	+1.98	+10.4 4
(2) Pallas.								
Febr. 10	12 40 34	+0 24.95	+ 9 42.1	10	12 17 41.05	96 49 34.5	+1.55	+ 7.7 5
20	9 50 36	— 0 16.80	— 5 31.8	13	12 15 41.46	93 39 28.6	+1.72	+ 9.9 6
March 13	9 28 57	— 1 34.03	+ 8 34.4	10	12 4 14.78	85 27 10.8	+1.92	+12.8 7
17	10 49 59	+1 25.39	— 12 0.0	10	12 1 24.84	83 48 23.8	+1.94	+13.1 8
18	10 33 39	— 1 29.32	+ 4 58.1	10	12 0 42.48	83 24 41.4	+1.94	+13.0 9

Adopted mean Places of the Comparison Stars.

*	RA. 1885.0	NPD. 1885.0	Authority
1	13 ^h 24 ^m 14 ^s 11	82° 13' 36".0	Yarn. 5570; Glasg. 3393
2	13 24 37.00	81 59 26.3	Yarn. 5571; Glasg. 3395
3	13 24 44.02	81 55 6.6	Glasg 3396
4	13 15 38.48	80 41 39.3	Glasg. 3358
5	12 17 14.74	96 39 41.8	Lam ₃ 1371; Yarn. 5163; Brux. Cat. 1874.1074. (Lam. NPD. rejected)
6	12 15 56.88	93 44 47.0	Lam ₃ 1365; Glasg. 3152. (The NPD. differ by 4".7)
7	12 5 47.17	85 18 19.6	Greenw. Cat. 1840.621; Yarn. 5086; Schj. 4401-2; Glasg. 3117; 9 year 1117; Brux. Cat. 1875.346 and 1876.725-6
8	11 59 57.66	84 0 6.4	Schj. 4364; Glasg. 3099
9	12 2 10.02	83 19 26.0	Glasg. 3103

Observatory Windsor N. S. Wales 1885 April 29.

John Tebbutt.