

Beobachtungen von Kleinen Planeten

am Kreuzstabmikrometer des 20 cm-Oppenheim-Refraktors der Frankfurter Universitätssternwarte.
 Von *K. Boda* und *K. Schütte*.

| 1922 | M.Z.Frankf. | $\Delta\alpha$ | $\Delta\delta$ | Vgl. Bb. | α app. | $\log p\Delta$ | δ app. | $\log p\Delta$ | Red. ad l. app. | * |
|---------------|-----------------------------------|------------------------------------|------------------------|----------|--|--------------------|----------------------------|----------------|---------------------------------------|----|
| 3 Juno. | | | | | | | | | | |
| Nov. 27 | 13 ^h 19 ^m 1 | -0 ^m 31 ^s 76 | + 6' 38 ^s 8 | 16 S | 3 ^h 8 ^m 29 ^s 56 | 8.378 | - 5° 18' 37 ^s 5 | 0.851 | +3 ^s 81 + 7 ^s 5 | 1 |
| 8 Flora. | | | | | | | | | | |
| Nov. 15 | 10 16.3 | +1 56.72 | + 1 46.2 | 17 S | 2 21 32.01 | 8.662 _n | + 2 15 49.7 | 0.813 | +3.83 +13.4 | 2 |
| 24 | 9 6.5 | +0 15.00 | + 5 11.2 | 17 S | 2 15 44.78 | 8.968 _n | + 2 33 7.6 | 0.811 | +3.83 +13.0 | 3 |
| Dez. 14 | 8 7.9 | -0 4.55 | - 9 6.6 | 16 S | 2 10 53.58 | 8.721 _n | + 4 21 31.5 | 0.797 | +3.78 +12.4 | 4 |
| 19 | 8 43.1 | +0 45.35 | - 2 5.7 | 18 S | 2 12 3.04 | 8.560 | + 5 0 58.7 | 0.792 | +3.76 +12.4 | 5 |
| 18 Melpomene. | | | | | | | | | | |
| Okt. 13* | 12 17.5 | -0 0.1 | + 8 52 | 5 B | 0 34 39.6 | 9.064 | -12 27 2 | 0.888 | +3.42 +20.2 | 6 |
| 14 | 11 34.8 | -0 31.32 | + 0 42.4 | 12 S | 0 34 8.33 | 8.717 | -12 35 11.9 | 0.891 | +3.42 +20.0 | 6 |
| 15* | 9 22.7 | -0 59.3 | - 6 30 | 5 S | 0 33 40.3 | 9.200 _n | -12 42 25 | 0.896 | +3.43 +20.0 | 6 |
| 26 | 10 16.7 | +0 18.99 | + 0 0.9 | 21 S | 0 29 14.73 | 8.007 | -13 40 51.4 | 0.895 | +3.37 +21.0 | 7 |
| 40 Harmonia. | | | | | | | | | | |
| Okt. 14 | 9 15.6 | -0 45.00 | + 2 35.2 | 23 B | 0 37 13.45 | 9.246 _n | - 4 20 44.9 | 0.850 | +3.50 +20.8 | 8 |
| 16 | 9 6.8 | +0 14.02 | - 3 31.5 | 15 S | 0 35 28.37 | 9.242 _n | - 4 28 27.3 | 0.851 | +3.50 +20.9 | 9 |
| 17 | 12 39.1 | -0 43.91 | + 3 37.6 | 17 S | 0 34 29.04 | 9.231 | - 4 32 17.7 | 0.851 | +3.50 +20.8 | 10 |
| 25 | 10 44.7 | -0 0.19 | + 1 50.1 | 21 S | 0 28 25.19 | 8.708 | - 4 52 2.5 | 0.856 | +3.48 +20.5 | 11 |
| 26 | 9 12.7 | -0 37.40 | + 0 27.5 | 20 S | 0 27 47.97 | 8.976 _n | - 4 53 25.2 | 0.855 | +3.47 +20.4 | 11 |
| 101 Helena. | | | | | | | | | | |
| Okt. 17 | 10 23.3 | +0 5.35 | + 0 28.9 | 28 B | 23 15 52.07 | 8.911 | + 1 53 34.4 | 0.815 | +3.37 +24.5 | 12 |
| 198 Ampella. | | | | | | | | | | |
| Okt. 16* | 10 52.9 | +0 41.3 | - 2 50 | 2 B | 0 27 9.6 | 7.880 | +22 18 13 | 0.610 | +3.93 +23.3 | 13 |
| 17 | 8 44.8 | +0 6.31 | -11 41.6 | 12 B | 0 26 34.56 | 9.307 _n | +22 9 21.0 | 0.641 | +3.93 +23.4 | 13 |
| 22 | 10 17.9 | +0 28.58 | -15 50.5 | 13 S | 0 23 43.21 | 7.849 _n | +21 17 42.6 | 0.623 | +3.89 +24.1 | 14 |
| 23* | 8 37.4 | -1 30.3 | - 0 29 | 5 S | 0 23 13.6 | 9.232 _n | +21 8 4 | 0.646 | +3.88 +24.1 | 15 |
| 25 | 8 29.5 | -0 50.64 | - 3 1.9 | 17 S | 0 22 20.03 | 9.231 _n | +20 46 57.5 | 0.650 | +3.88 +24.0 | 16 |

Mittlere Örter der Vergleichsterne.

| * | α 1922.0 | δ 1922.0 | Autorität | * | α 1922.0 | δ 1922.0 | Autorität |
|---|--|----------------------------|------------|----|---|----------------------------|------------|
| 1 | 3 ^h 8 ^m 57 ^s 51 | - 5° 25' 23 ^s 8 | Strb 772 | 9 | 0 ^h 35 ^m 10 ^s 85 | - 4° 25' 16 ^s 7 | Strb 131 |
| 2 | 2 19 31.46 | + 2 13 50.1 | Alb 667 | 10 | 0 35 9.45 | - 4 36 16.1 | » 130 |
| 3 | 2 15 25.95 | + 2 27 43.4 | » 655 | 11 | 0 28 21.90 | - 4 54 13.1 | » 112 |
| 4 | 2 10 54.35 | + 4 30 25.7 | » 630 | 12 | 23 15 43.35 | + 1 52 41.0 | Alb 8048 |
| 5 | 2 11 13.93 | + 5 2 52.0 | » 632 | 13 | 0 26 24.32 | +22 20 39.2 | Berl B 134 |
| 6 | 0 34 36.23 | -12 36 14.3 | Cbr M. 118 | 14 | 0 23 10.74 | +21 33 9.0 | » 115 |
| 7 | 0 28 52.37 | -13 41 13.3 | » 106 | 15 | 0 24 40.00 | +21 8 9.0 | » 123 |
| 8 | 0 37 55.45 | - 4 23 40.9 | Strb 148 | 16 | 0 23 6.79 | +20 49 35.4 | » 113 |

Die Beobachtungen sind wegen Refraktion korrigiert; die mit einem * bezeichneten Örter sind weniger genau, da die Messung wegen Wolken oder Störung beim Chronographen unvollständig ist.

Frankfurt a. M., Universitätssternwarte, 1923 März 6.

K. Boda, K. Schütte,

Beobachtungen von Kleinen Planeten

am 6-zöll. Refraktor (Heliometer) der Königsberger Sternwarte. Kreuzstabmikrometer; Vergr. 96-fach; Aug und Ohr.

| Datum | M. Z. Kgb. | $\Delta\alpha$ | $\Delta\delta$ | Vgl. | α app. | $\log p\Delta$ | δ app. | $\log p\Delta$ | Red. ad l. app. | * |
|--------------------|---|------------------------------------|-----------------------|------|---|--------------------|---------------------------|----------------|---------------------------------------|---|
| 1922 18 Melpomene. | | | | | | | | | | |
| Sept. 27 | 11 ^h 20 ^m 26 ^s | -3 ^m 23 ^s 10 | -9' 56 ^s 1 | 4,4 | 0 ^h 44 ^m 21 ^s 14 | 8.952 _n | - 9° 24' 9 ^s 0 | 0.895 | +3 ^s 37 +20 ^s 9 | 1 |
| 28 | 11 54 36 | -0 19.69 | +7 45.3 | 4,4 | 0 43 43.39 | 8.522 | - 9 38 35.6 | 0.898 | +3.38 +21.0 | 2 |
| 1922 40 Harmonia. | | | | | | | | | | |
| Okt. 10 | 11 51 42 | -0 59.62 | +2 53.6 | 4,4 | 0 40 49.18 | 8.583 | - 4 3 44.4 | 0.874 | +3.50 +20.8 | 3 |
| 10 | 11 51 42 | -3 19.72 | +4 11.0 | 4,4 | 0 40 49.22 | 8.583 | - 4 3 43.0 | 0.874 | +3.50 +20.7 | 4 |
| 19 | 11 51 58 | -2 20.04 | -2 30.1 | 4,4 | 0 33 2.91 | 9.006 | - 4 38 25.6 | 0.876 | +3.50 +20.6 | 5 |
| 19 | 12 20 53 | -2 21.17 | -2 35.0 | 4,4 | 0 33 1.78 | 9.006 | - 4 38 30.5 | 0.876 | +3.50 +20.6 | 5 |