

## 101 HERCULIS

(1900,  $\alpha = 18^h 01^m 56^s$ ,  $\delta = +20^\circ 01'$ , mag. 5.24, type A2)

The lines in this spectrum are excellent for measurement. No variation is indicated by the measures which follow.

| Plate | Date, G.M.T.    | Velocity | Lines | Weight |
|-------|-----------------|----------|-------|--------|
| 6976  | 1945, May 9 812 | 16.6     | 10    | 10     |
| 6990  | " 13 770        | 21.8     | 12    | 12     |
| 7024  | " 20 711        | 21.3     | 15    | 12     |
| 7075  | June 25 612     | 19.7     | 17    | 15     |

## MEASURES OF 101 HERCULIS

| $\lambda$       | 6976   |    | 6990   |    | 7024   |               | 7075   |               | Vel | Wt | Vel | Wt | Vel | Wt |
|-----------------|--------|----|--------|----|--------|---------------|--------|---------------|-----|----|-----|----|-----|----|
|                 | Vel    | Wt | Vel    | Wt | Vel    | Wt            | Vel    | Wt            |     |    |     |    |     |    |
| 4549.746        | -36.2  | 1  | -33.7  | 1  | -30.9  | 1             | -6.6   | 1             |     |    |     |    |     |    |
| 4534.139        |        |    |        |    |        |               | 28.4   | $\frac{1}{2}$ |     |    |     |    |     |    |
| 4484.164        | 29.8   | 1  | 40.2   | 1  | 34.4   | 1             | 46.9   | 1             |     |    |     |    |     |    |
| 4415.333        |        |    |        |    | 24.0   | 1             | 7.8    | $\frac{1}{2}$ |     |    |     |    |     |    |
| 4404.857        |        |    |        |    |        |               | 22.9   | 1             |     |    |     |    |     |    |
| 4395.147        |        |    |        |    |        |               | 10.4   | 1             |     |    |     |    |     |    |
| 4351.994        |        |    |        |    |        |               | 8.8    | $\frac{1}{2}$ |     |    |     |    |     |    |
| 4340.667        | 36.8   | 1  | 32.2   | 1  |        |               |        |               |     |    |     |    |     |    |
| 4325.707        | 57.0   | 1  | 52.7   | 1  | 38.7   | $\frac{1}{2}$ | 30.0   | 1             |     |    |     |    |     |    |
| 4307.980        |        |    |        |    | 46.7   | $\frac{1}{2}$ | 31.5   | 1             |     |    |     |    |     |    |
| 4290.070        |        |    |        |    | 41.0   | $\frac{1}{2}$ | 22.5   | 1             |     |    |     |    |     |    |
| 4271.645        |        |    |        |    | 31.3   | 1             | 24.4   | 1             |     |    |     |    |     |    |
| 4250.027        |        |    |        |    |        |               | 28.0   | 1             |     |    |     |    |     |    |
| 4235.6          |        |    |        |    | 25.7   | $\frac{1}{2}$ | 18.6   | 1             |     |    |     |    |     |    |
| 4233.424        | 28.3   | 1  | 21.7   | 1  | 32.0   | 1             | 19.0   | 1             |     |    |     |    |     |    |
| 4227.124        |        |    |        |    | 31.3   | $\frac{1}{2}$ |        |               |     |    |     |    |     |    |
| 4202.278        |        |    |        |    | 37.5   | $\frac{1}{2}$ |        |               |     |    |     |    |     |    |
| 4198.749        | 24.3   | 1  | 39.4   | 1  |        |               |        |               |     |    |     |    |     |    |
| 4143.839        | 26.0   | 1  | 32.8   | 1  | 24.6   | 1             | 7.0    | 1             |     |    |     |    |     |    |
| 4101.890        |        |    | 37.6   | 1  |        |               |        |               |     |    |     |    |     |    |
| 4077.862        | 35.9   | 1  | 33.0   | 1  |        |               |        |               |     |    |     |    |     |    |
| 4071.864        |        |    |        |    |        |               | 23.5   | 1             |     |    |     |    |     |    |
| 4063.706        |        |    | 30.5   | 1  | 19.3   | 1             |        |               |     |    |     |    |     |    |
| 4015.929        | 18.0   | 1  | 37.7   | 1  | 26.0   | 1             | -13.8  | 1             |     |    |     |    |     |    |
| 4005.492        | -18.6  | 1  | -29.2  | 1  | -26.6  | 1             |        |               |     |    |     |    |     |    |
| Weighted mean   | -34.09 |    | -35.34 |    | -29.94 |               | -18.97 |               |     |    |     |    |     |    |
| $V_{\alpha}$    | +14.82 |    | +13.73 |    | +8.85  |               | +0.60  |               |     |    |     |    |     |    |
| $V_{\lambda}$   | -0.04  |    | +0.40  |    | +0.41  |               | +0.14  |               |     |    |     |    |     |    |
| Curv.           | -0.28  |    | -0.28  |    | -0.28  |               | -0.28  |               |     |    |     |    |     |    |
| Radial Velocity | -16.6  |    | -21.8  |    | -21.3  |               | -19.7  |               |     |    |     |    |     |    |