From these there resulted the equations,

$$6 \cdot 100x + \cdot 904y - \cdot 122z - \cdot 357u + \cdot 385v - \cdot 710 = 0$$

$$2 \cdot 841y - \cdot 118z + \cdot 126u - \cdot 175v + 2 \cdot 165 = 0$$

$$2 \cdot 183z - \cdot 042u + \cdot 107v - 6 \cdot 769 = 0$$

$$3 \cdot 230u - 3 \cdot 220v - 1 \cdot 876 = 0$$

$$3 \cdot 220v + 1 \cdot 546 = 0$$

which gave the following small corrections to the preliminary values,

$$\delta \gamma = + 0.25 \text{ km.}$$

$$\delta K = -0.57 \text{ km.}$$

$$\delta e = + 0.026$$

$$\delta \omega = + 6^{\circ} \cdot 11$$

$$\delta T = + 0.036 \text{ day}$$

The value of Σpvv for the normal places was reduced from $39\cdot7$ to $16\cdot0$ and satisfactory agreement was obtained between equation and ephemeris residuals. The probable error of a plate obtained from the last two columns of the table of measures is $\pm 6\cdot9$ km. per second. The curve shown represents the final elements and the observations as grouped.

FINAL ELEMENTS

$$P = 2.25960 \text{ days}$$

$$e = .076$$

$$\omega = 126^{\circ} \cdot 11$$

$$\gamma = + 7 \cdot 37 \text{ km.}$$

$$K = 104 \cdot 43 \text{ km.}$$

$$T = \text{J. D. } 2,419,031 \cdot 632$$

$$a \sin i = 3,235,400 \text{ km.}$$

$$\frac{m_1^3 \sin^3 i}{(m+m_1)^2} = 0.26 \odot$$

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