

OBSERVATION EQUATIONS FOR σ GEMINORUM, $\omega = 360^\circ$.

Weight		x	y	z	u	$-u$
1	2.0	1.000	-.980	+.919	+.201	-.02=0
2	1.5	1.000	-.761	+.160	+.618	-1.64
3	1.5	1.000	-.434	-.623	+.901	+1.49
4	1.5	1.000	-.106	-.977	+.994	+4.67
5	1.0	1.000	+.127	-.968	+.992	-2.18
6	2.0	1.000	+.606	-.264	+.795	-2.13
7	1.5	1.000	+.850	+.443	+.527	-3.27
8	1.5	1.000	+.997	+.987	+.082	+.25
9	2.5	1.000	+.965	+.867	-.261	+.43
10	2.0	1.000	+.843	+.421	-.538	+.49
11	1.5	1.000	+.602	-.276	-.799	-1.85
12	1.5	1.000	+.335	-.776	-.942	+1.28
13	1.0	1.000	-.099	-.981	-.995	-.65
14	1.5	1.000	-.433	-.625	-.901	+.25
15	1.5	1.000	-.642	-.175	-.767	+.07
16	2.5	1.000	-.943	+.780	-.332	+.30

whence the normal equations,

$$26.500x + 1.633y + 1.528z - .955u - 2.450 = 0$$

$$14.004y + 1.171z - .519u - 6.492 = 0$$

$$12.936z - .900u - 5.638 = 0$$

$$12.486u - 1.145 = 0$$

The solution of these gave as corrections,

$$\delta\gamma = +.05 \text{ km.}$$

$$\delta K = +.43 \text{ km.}$$

$$\delta e = +.012$$

$$\delta\omega = +0^\circ.24$$

and a value of Σpr for the normal places of 73.8.