

OBSERVATION EQUATIONS FOR σ GEMINORUM. $\omega = 270^\circ$.

	Weight	x	y	z	u	$-n$
1	2.0	1.000	- .980	- .391	+ .201	- .02 = 0
2	1.5	1.000	- .761	- .987	+ .648	- 1.61
3	1.5	1.000	- .133	- .782	+ .901	+ 1.49
4	1.5	1.000	- .106	- .211	+ .994	+ 4.67
5	1.0	1.000	+ .127	+ .252	+ .992	- 2.18
6	2.0	1.000	+ .606	+ .961	+ .795	- 2.11
7	1.5	1.000	+ .850	+ .896	+ .527	- 3.27
8	1.5	1.000	+ .997	+ .163	+ .082	+ .25
9	2.5	1.000	+ .965	- .504	- .261	+ .41
10	2.0	1.000	+ .843	- .907	- .538	+ .49
11	1.5	1.000	+ .602	- .961	- .799	- 1.85
12	1.5	1.000	+ .335	- .631	- .912	+ 1.28
13	1.0	1.000	- .099	+ .196	- .995	- .65
14	1.5	1.000	- .433	+ .781	- .901	+ .25
15	1.5	1.000	- .612	+ .985	- .767	+ .07
16	2.5	1.000	- .941	+ .626	- .332	+ .30

whence the normal equations,

$$26.500x + 1.633y - 1.041z - .955u - 2.450 = 0$$

$$14.004y - 1.864z - .519u - 6.492 = 0$$

$$13.570z + .467u - 9.007 = 0$$

$$12.486u - 1.145 = 0$$

The solution of these gave as corrections,

$$\delta\gamma = + .09 \text{ km.}$$

$$\delta K = + .56 \text{ km.}$$

$$\delta e = + .022$$

$$\delta\omega = + 0^\circ.17$$

and a value of Σpvv for the normal places of 70.5.