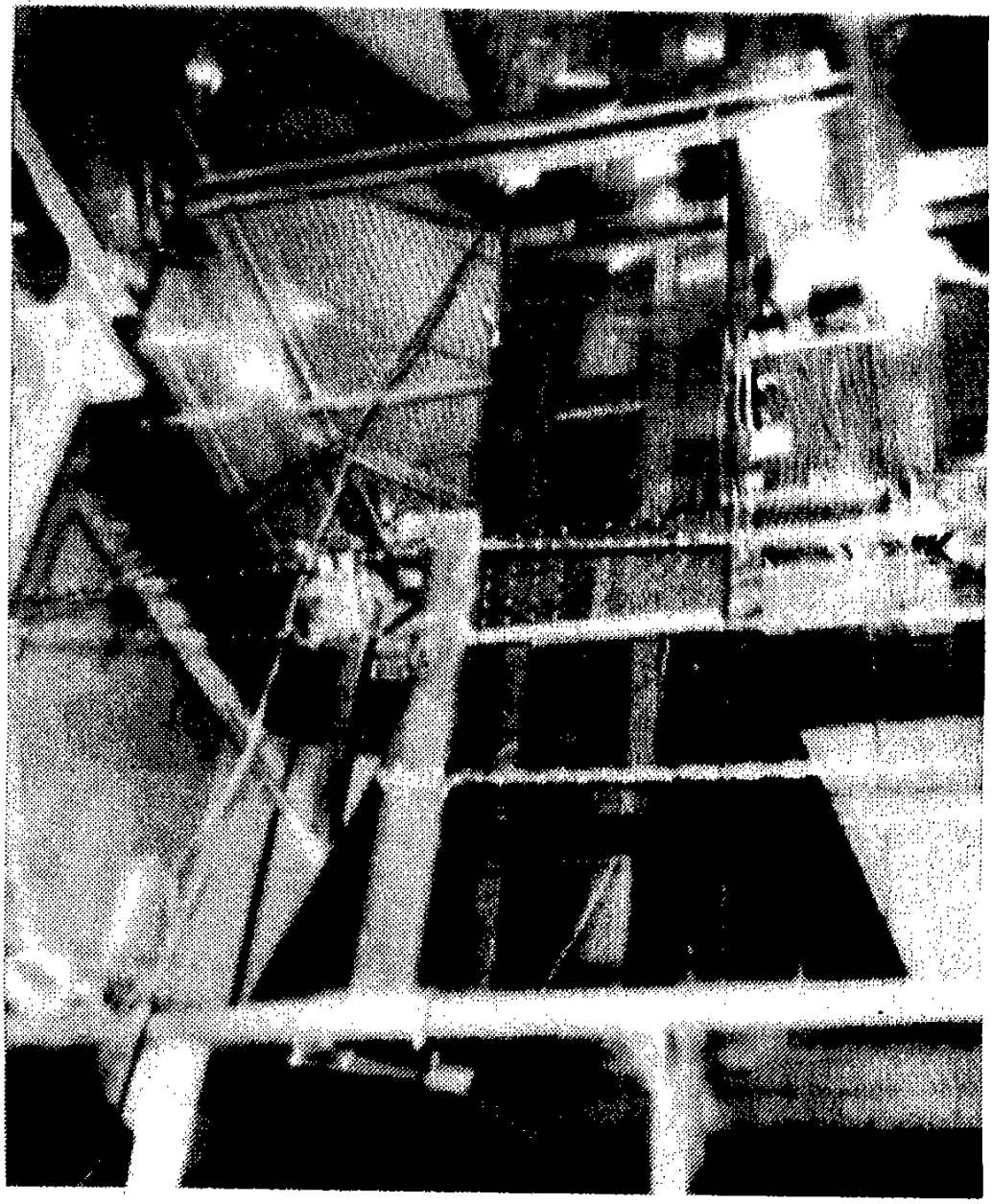
JLC test chamber 全体図

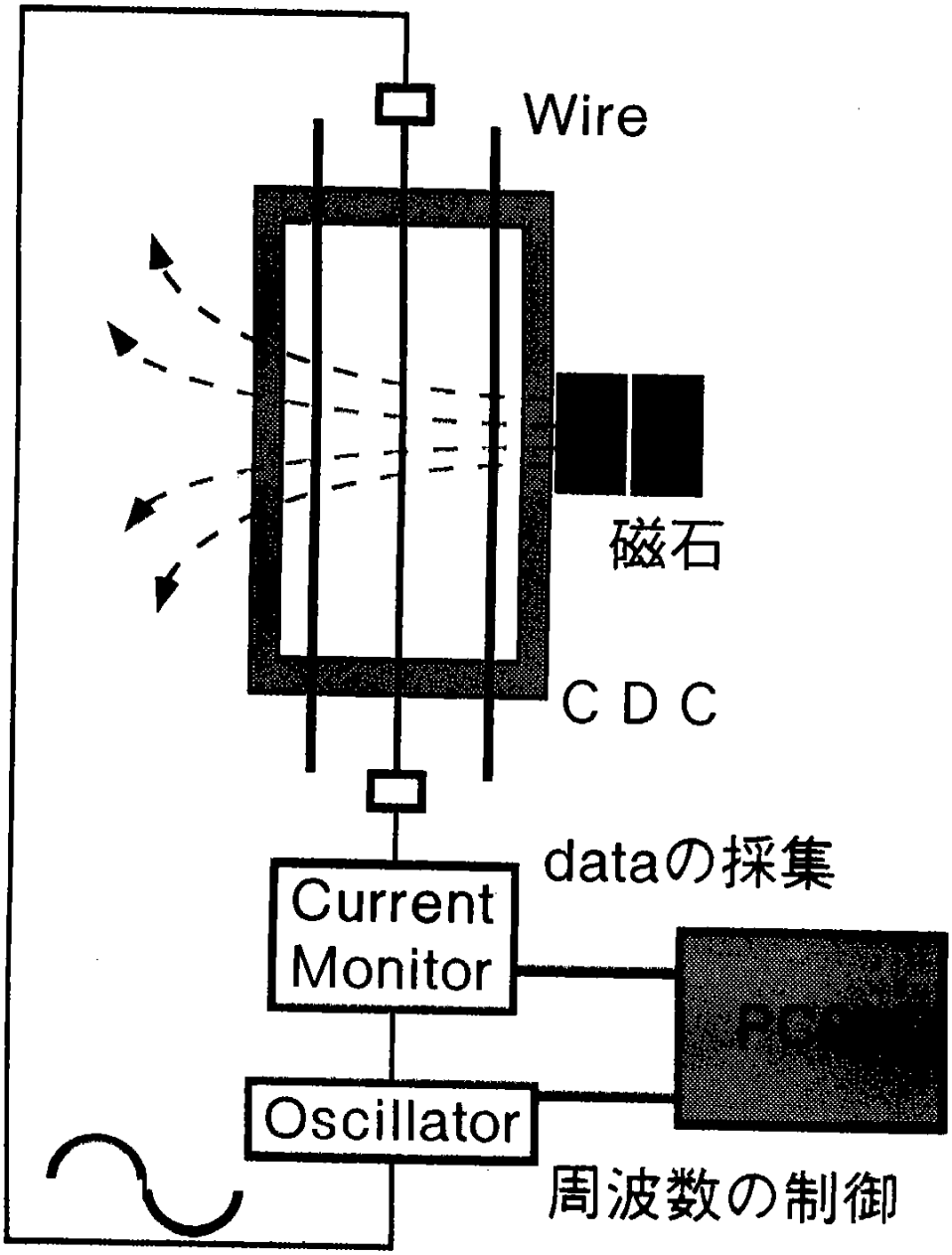
460cm



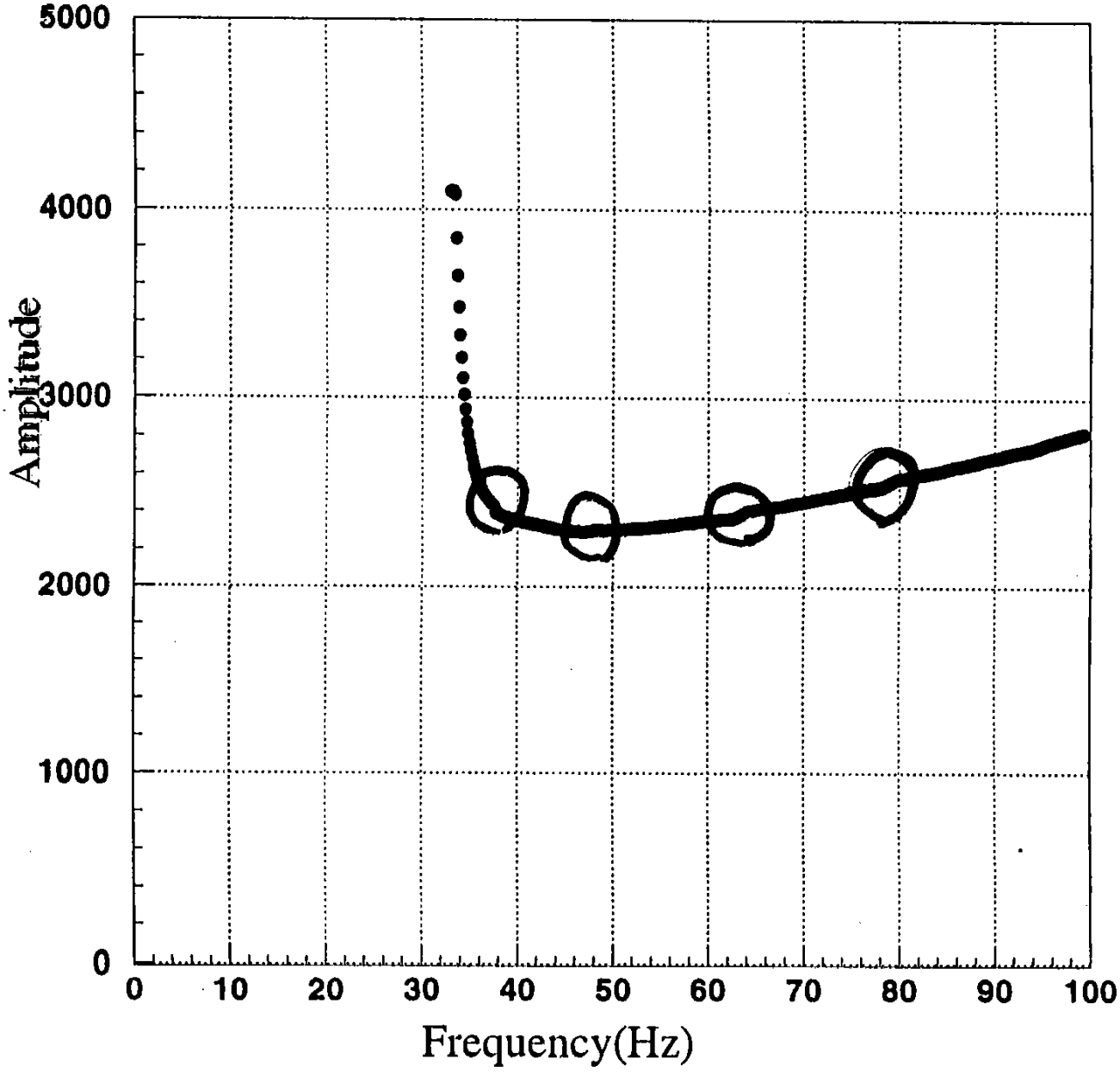
Wire径 sense 30μm

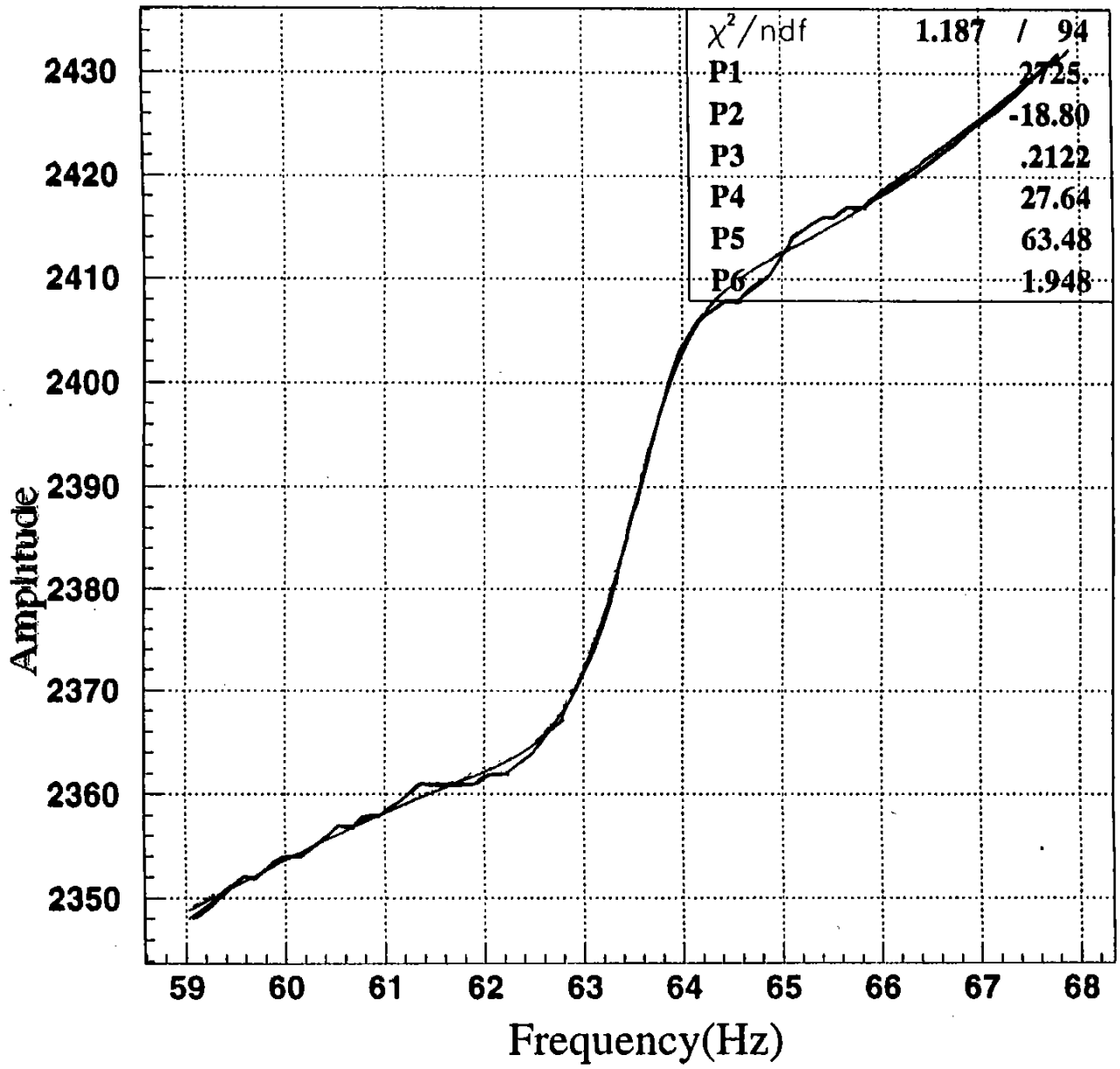
field 120μm

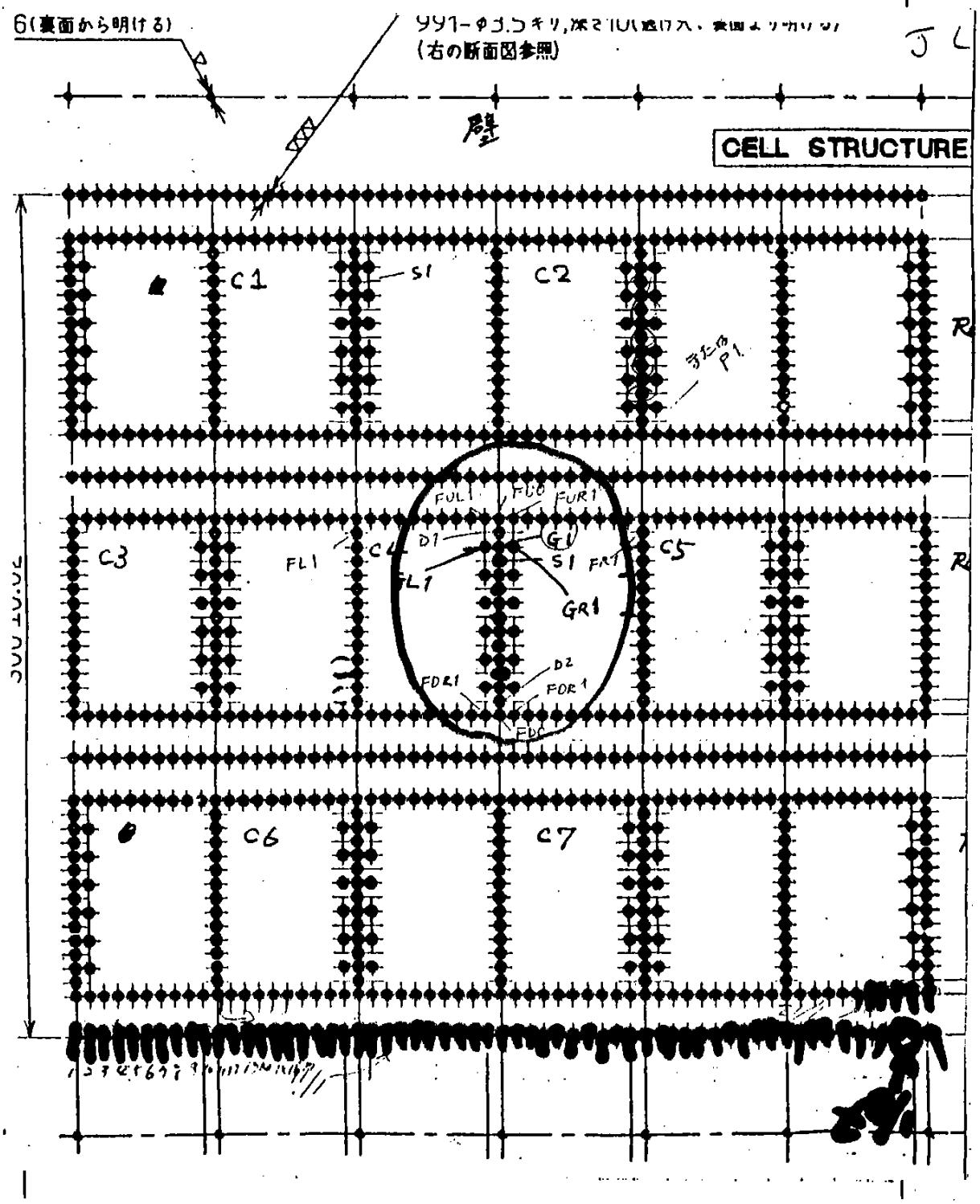
Wire tension 測定概念図



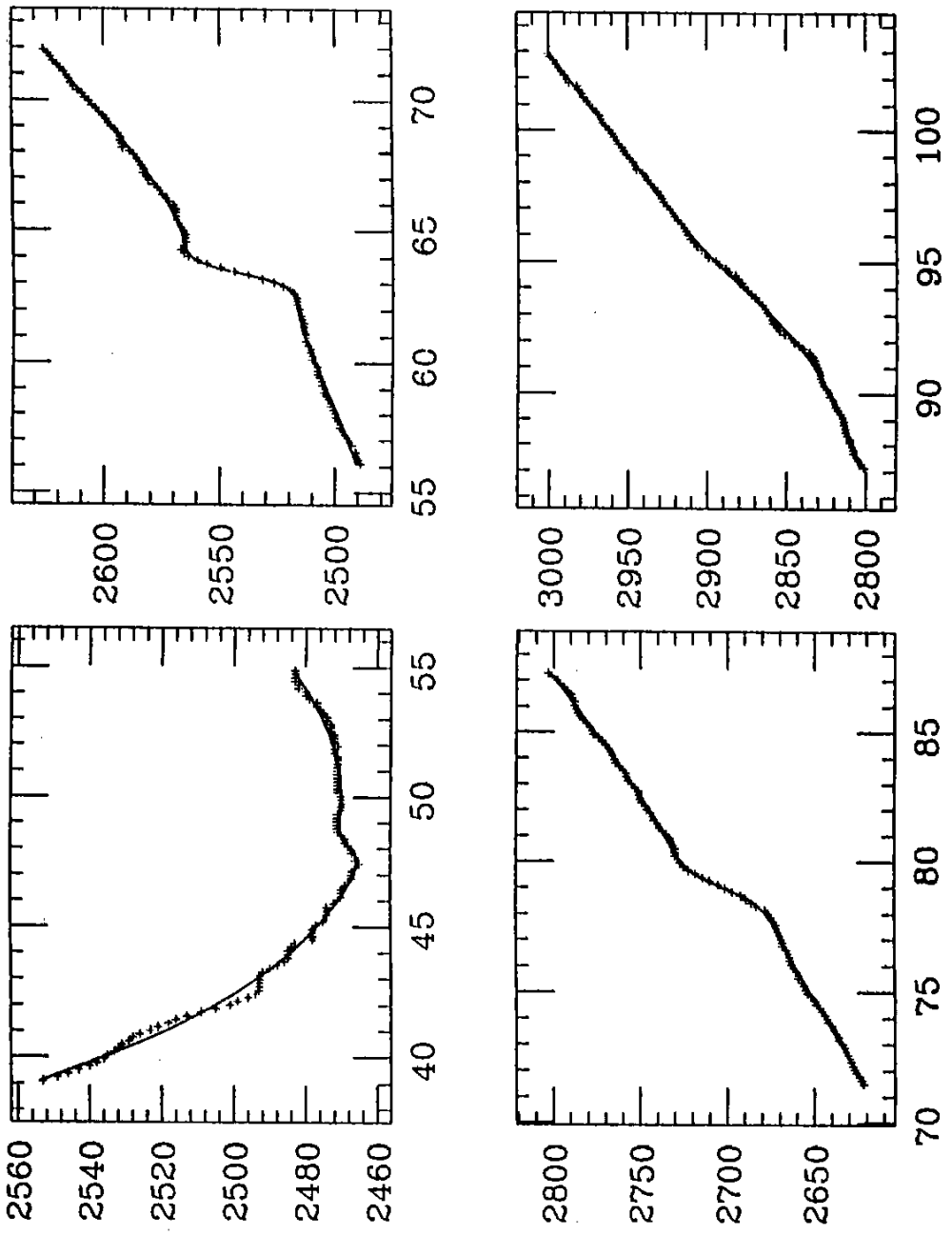
共振点の間隔を測ることによって
tension を求める。


5000
4000
3000
2000
1000
0
Amplitude
0
10
20
30
40
50
60
70
80
90
100
Frequency(Hz)

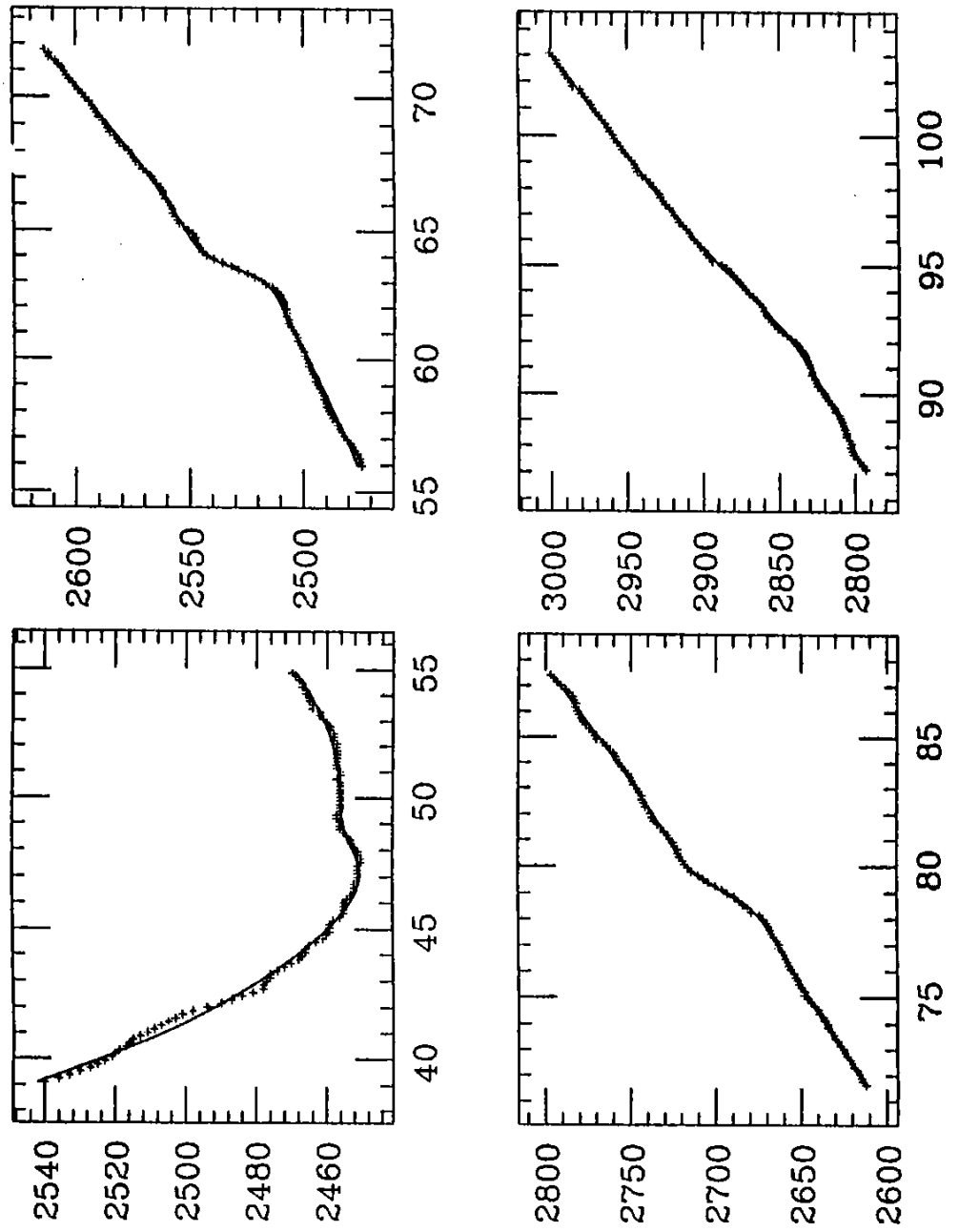

χ²/ndf 1.187 / 94
P1 2725.
P2 -18.80
P3 .2122
P4 27.64
P5 63.48
P6 1.948
Amplitude
2430
2420
2410
2400
2390
2380
2370
2360
2350
59
60
61
62
63
64
65
66
67
68
Frequency(Hz)

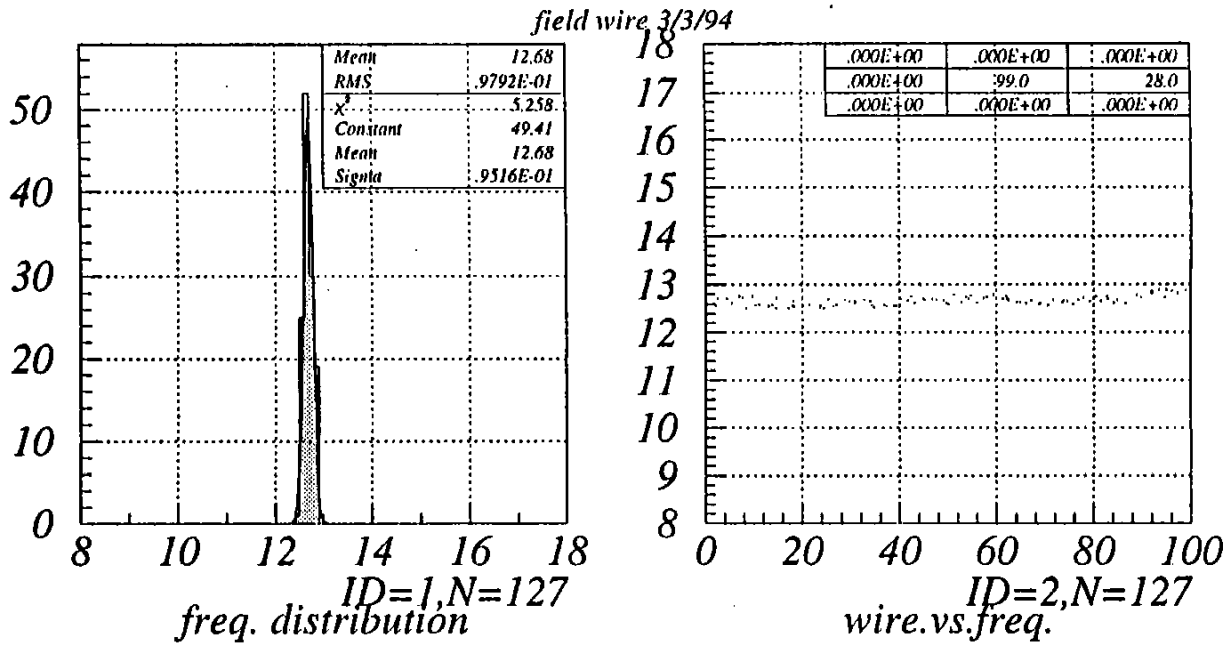

6(裏面から明ける)
(右の断面図参照)
壁
CELL STRUCTURE
C1
S1
C2
C3
FL1
C4
D1
G1
S1
FR1
C5
GR1
FDL1
FDO
FDR1
D2
FDR1
FDO
C6
C7

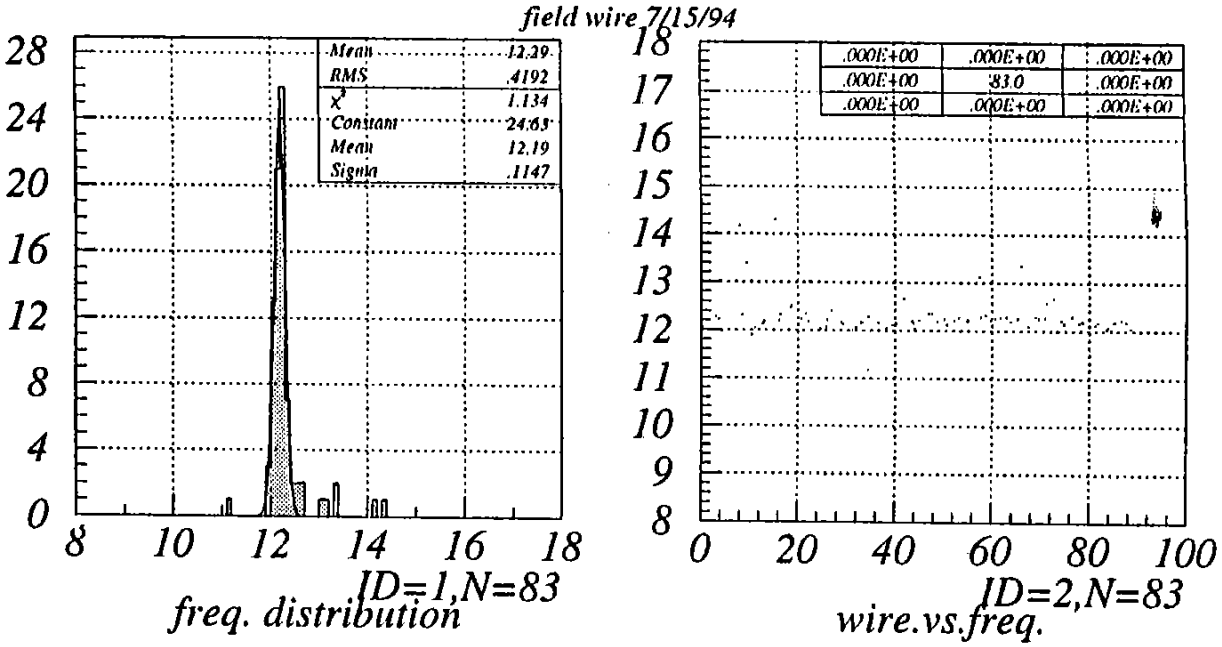
C4S01


2600
2550
2500
55
60
65
70
3000
2950
2900
2850
2800
90
95
100
2560
2540
2520
2500
2480
2460
40
45
50
55
2800
2750
2700
2650
70
75
80
85

C4S03


2600
2550
2500
55
60
65
70
3000
2950
2900
2850
2800
90
95
100
2540
2520
2500
2480
2460
40
45
50
55
2800
2750
2700
2650
2600
75
80
85

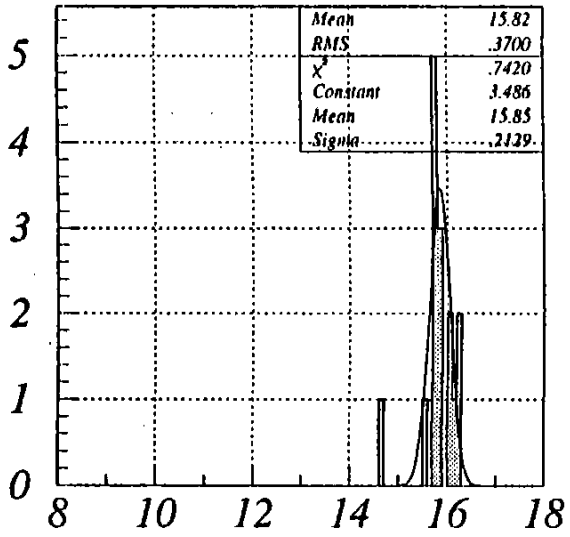

field wire 3/3/94
Mean 12.68
RMS .9792E-01
χ² 5.258.
Constant 49.41
Mean 12.68
Sigma .9516E-01
ID=1,N=127
freq. distribution
.000E+00 .000E+00 .000E+00
.000E+00 99.0 28.0
.000E+00 .000E+00 .000E+00
ID=2,N=127
wire.vs.freq.



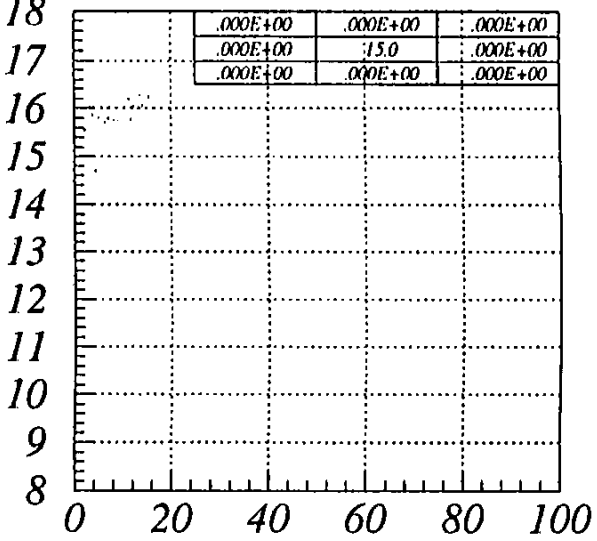
freq.

12.68 → 12.19 4% 変化

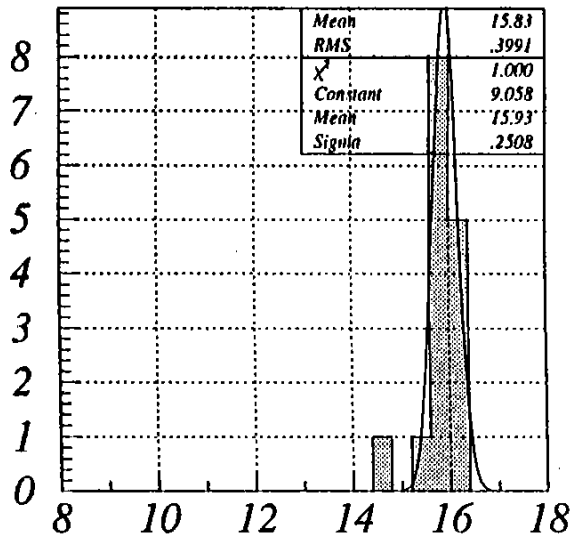
sense wire 3/3/94



freq. distribution

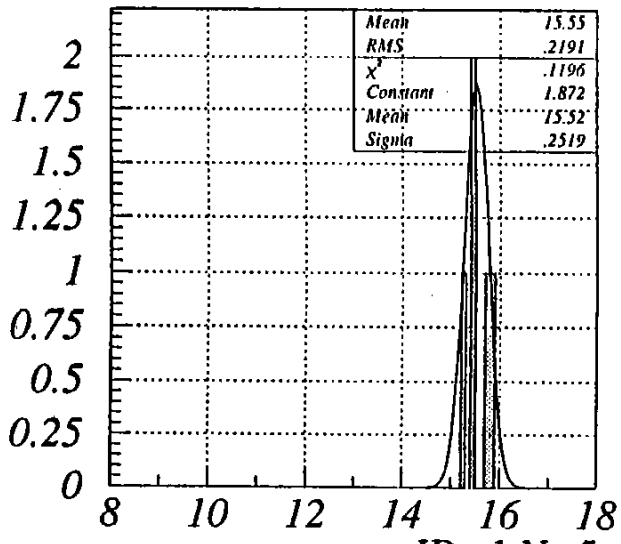


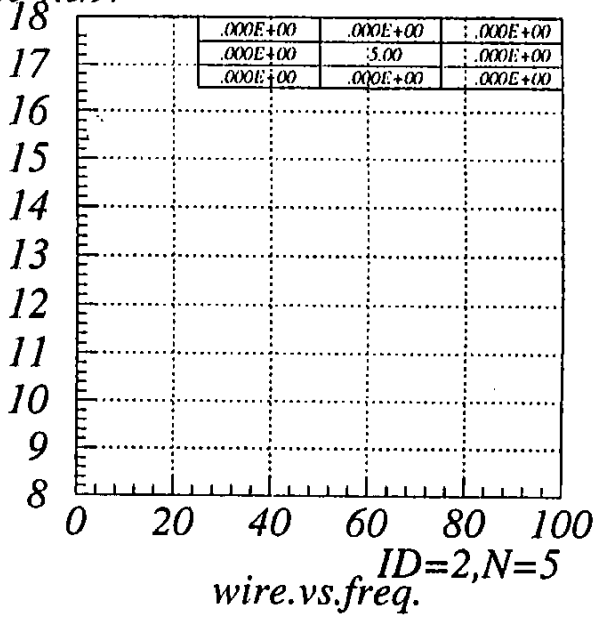
wire.vs.freq.

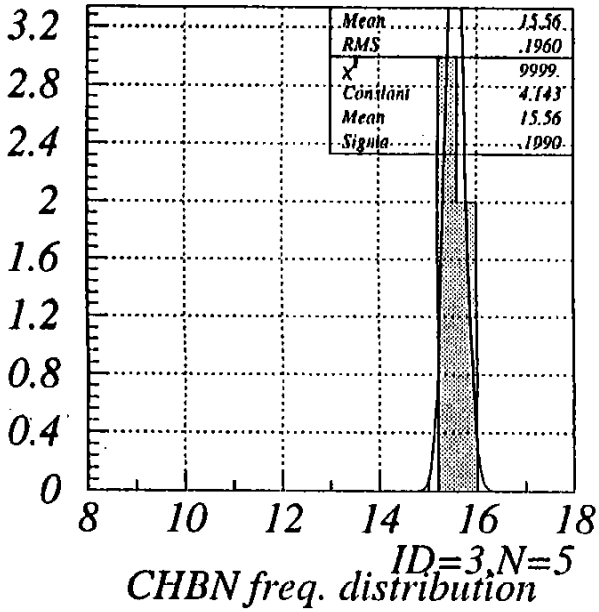


CHBN freq. distribution

sense wire 7/15/94



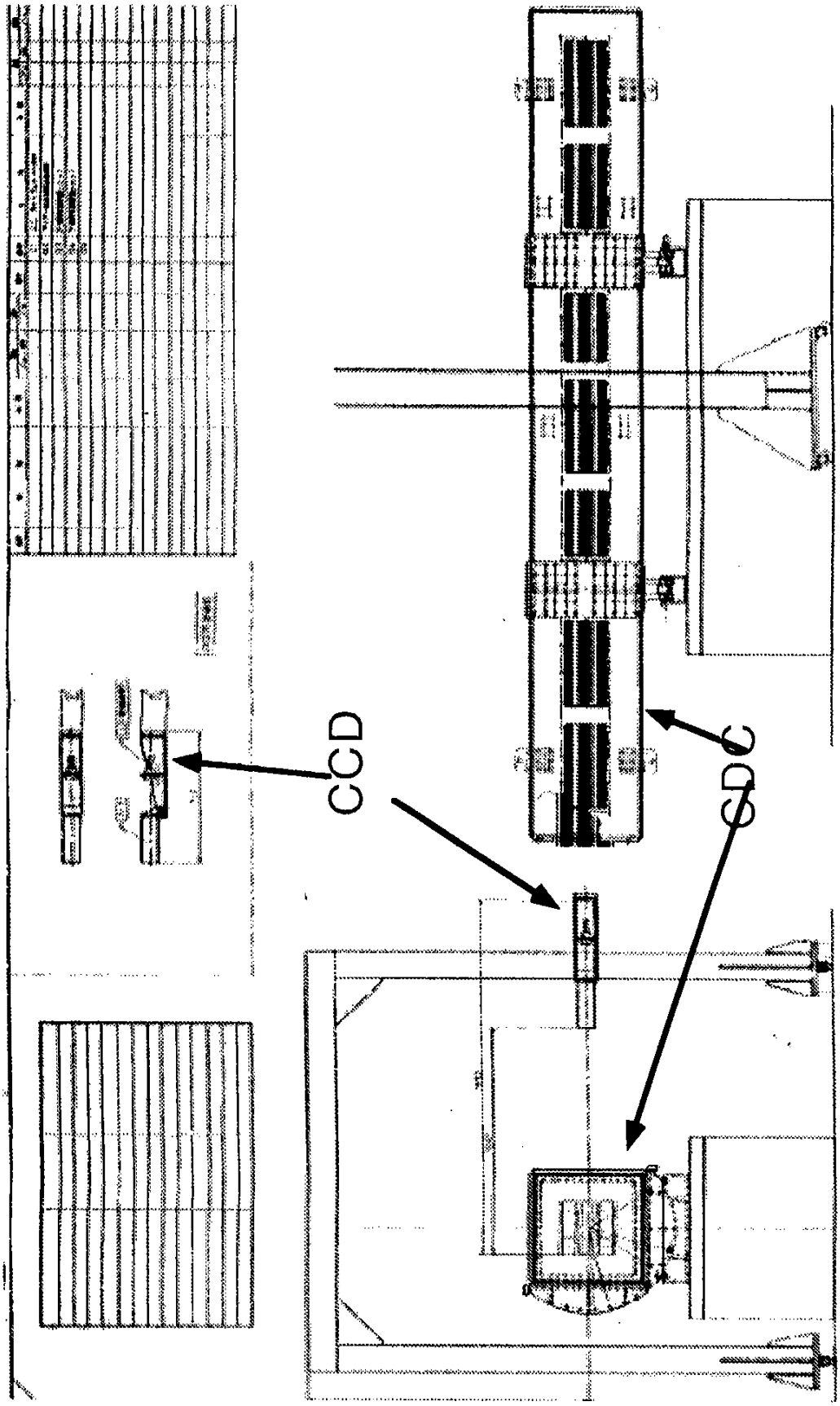




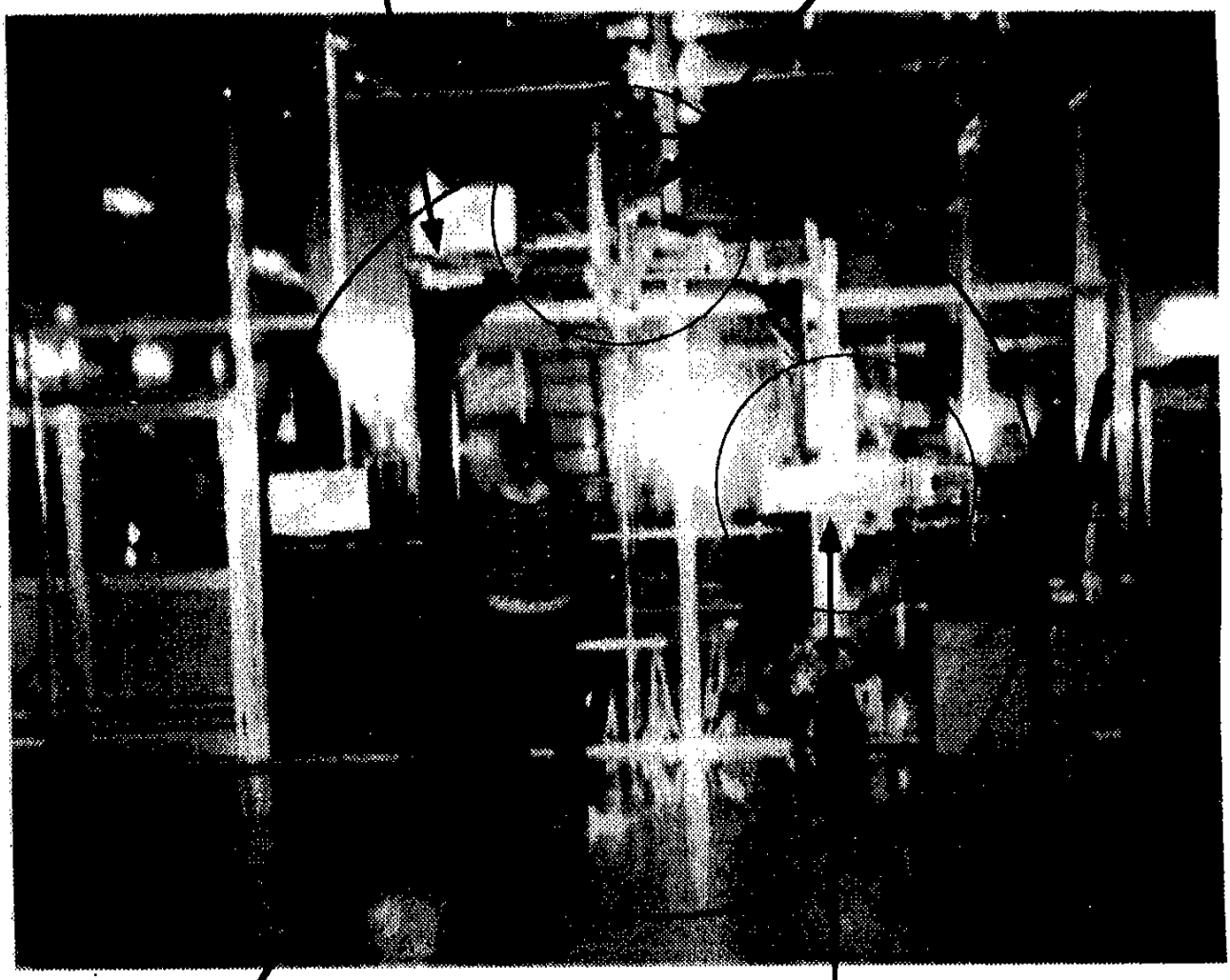
15.93 → 15.56

±0.3 ±0.2

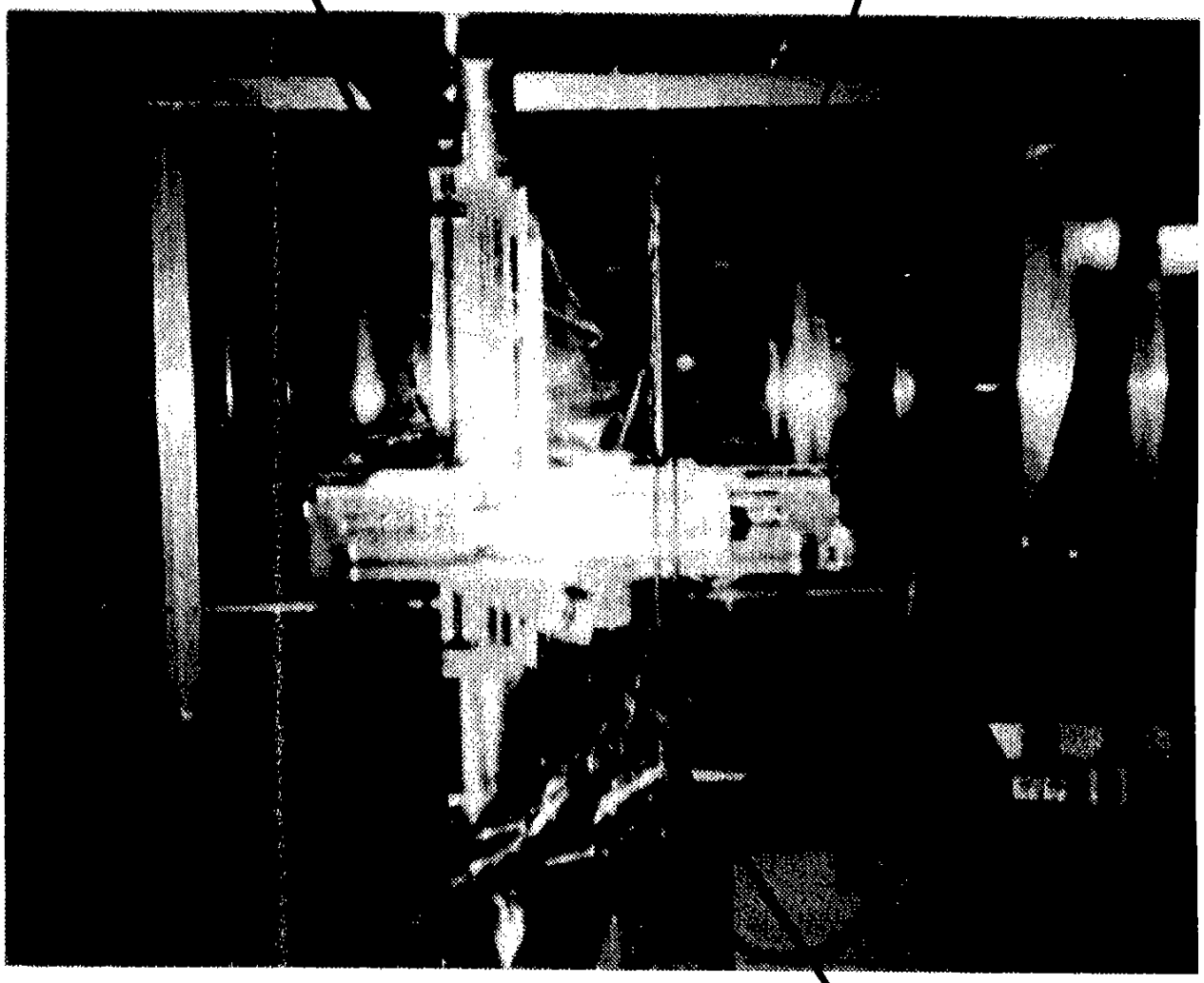
2% 変化.

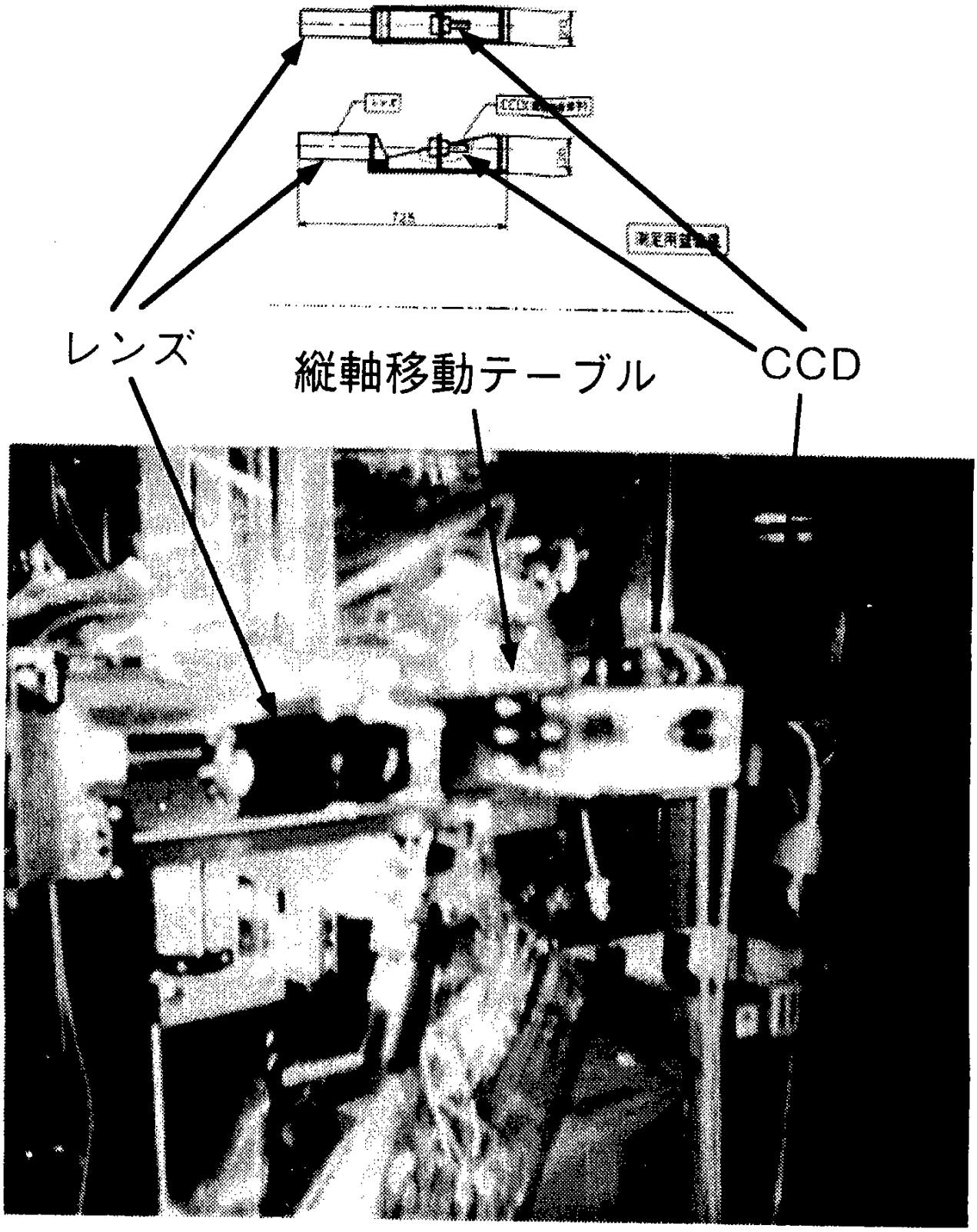

CCD
CDC

ワイヤー位置測定装置全体図

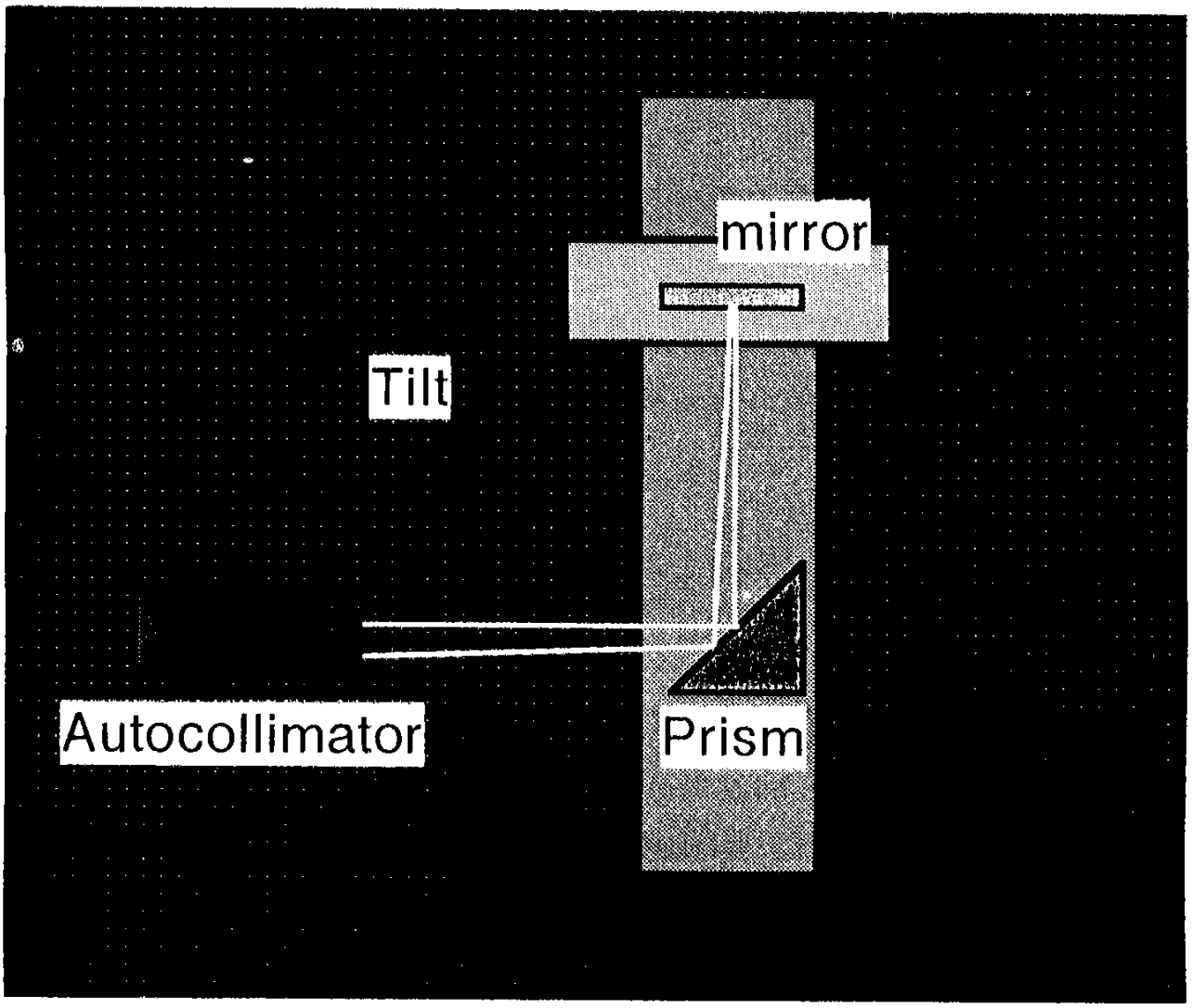


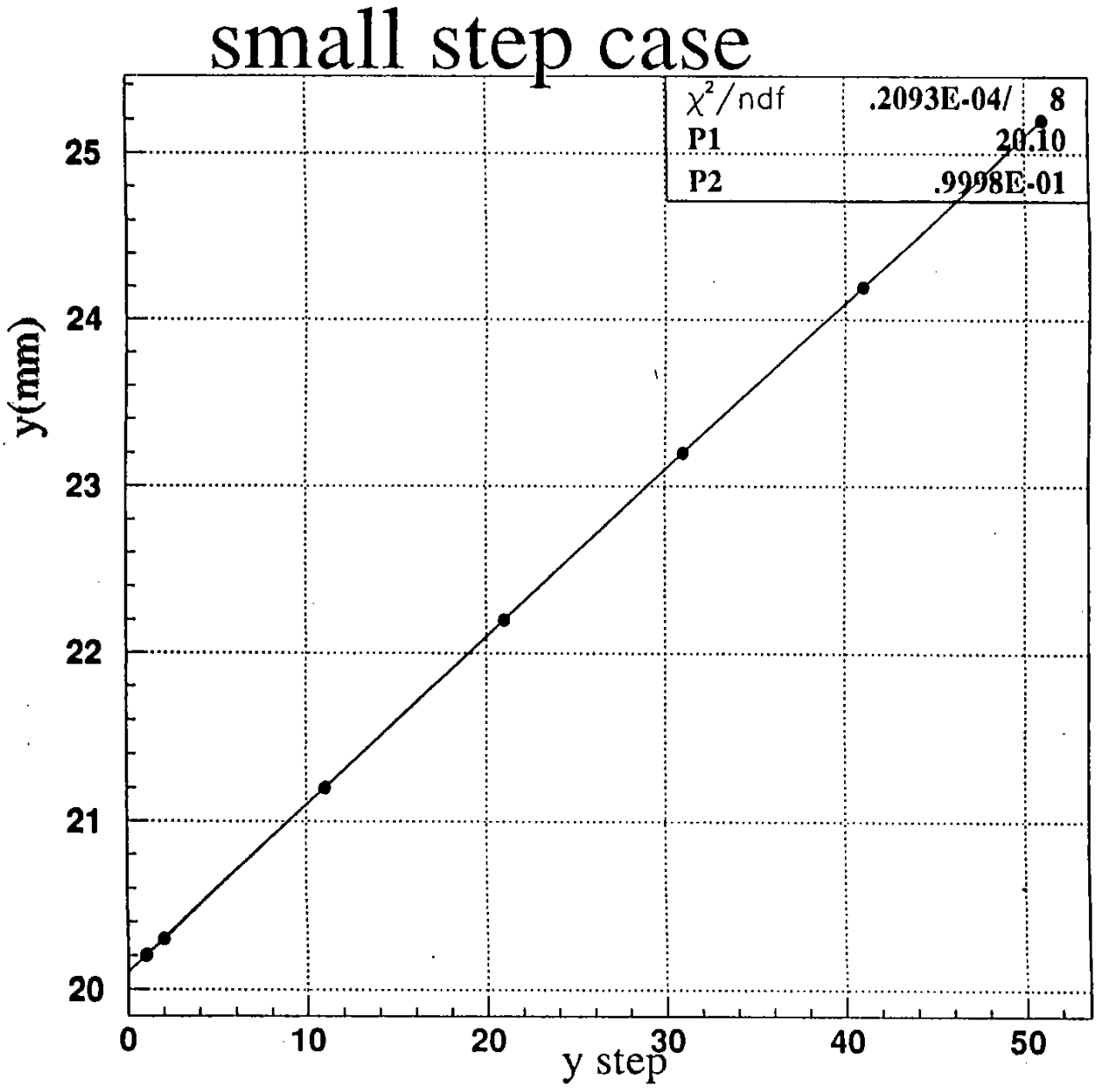
垂直位置読み出し用

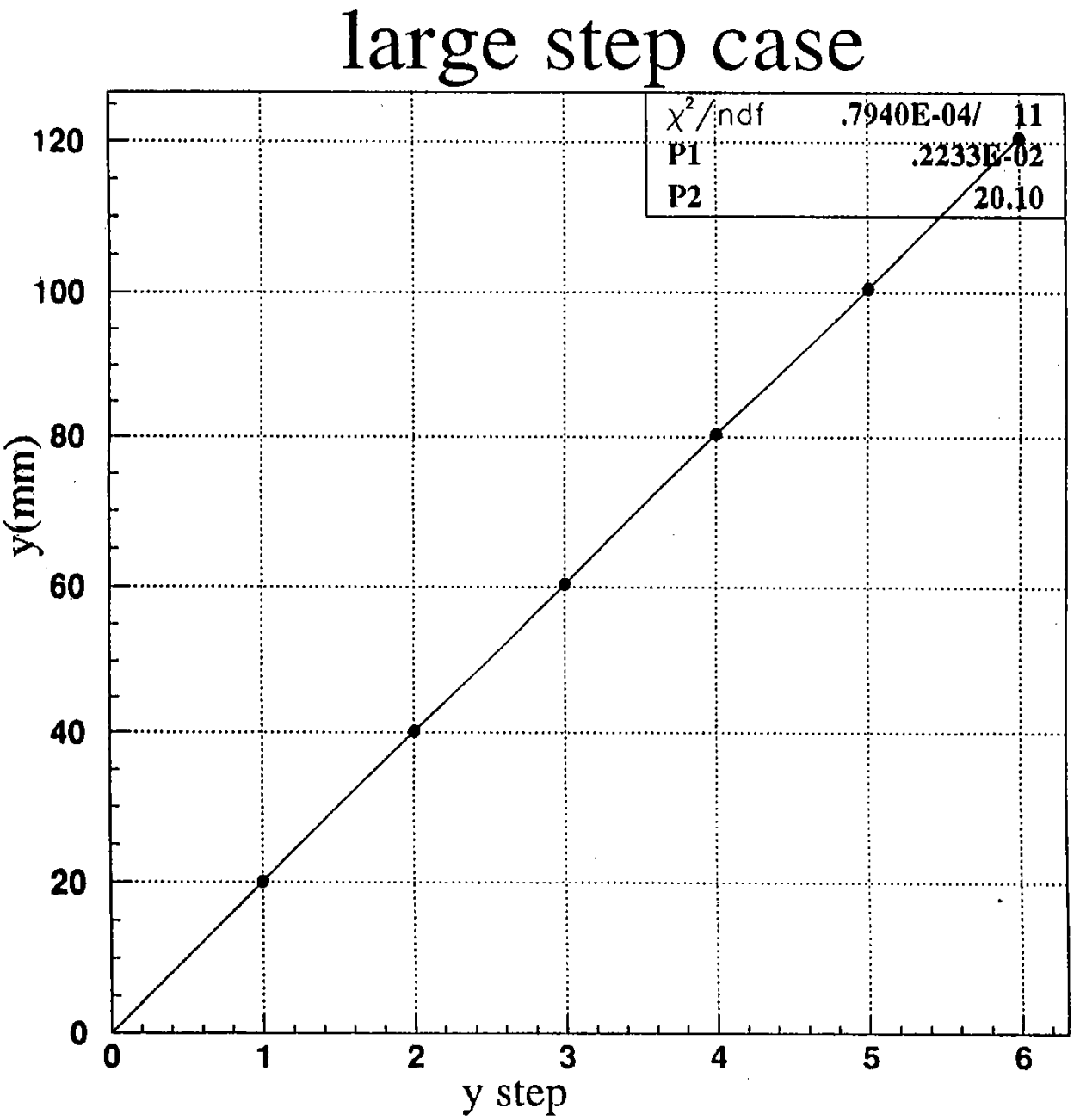



レンズ
縦軸移動テーブル
CCD

Position Monitor Test (Tilt Angle)




small step case
χ²/ndf .2093E-04/ 8
P1 20.10
P2 .9998E-01
y(mm)
25
24
23
22
21
20
0
10
20
30
40
50
y step


large step case
χ²/ndf .7940E-04/ 11
P1 .2233E-02
P2 20.10
120
100
80
60
40
20
0
y(mm)
0
1
2
3
4
5
6
y step