31

{QR / QF} IN C4/C5 off.

21:38 [redacted] (Simple correlation Plotで、Scanする。)

BY_IN_C4: [redacted]
-1.479 → -0.937

BY_IN_C5: -0.718 → 元。

22:00 AR休憩。

22:33 {QR / QF} IN C4/C5 をONで Scan。
Simple correlation Plotで Scan
- BY_IN_4: -0.937 →
- BY_IN_C5: -0.718

中止

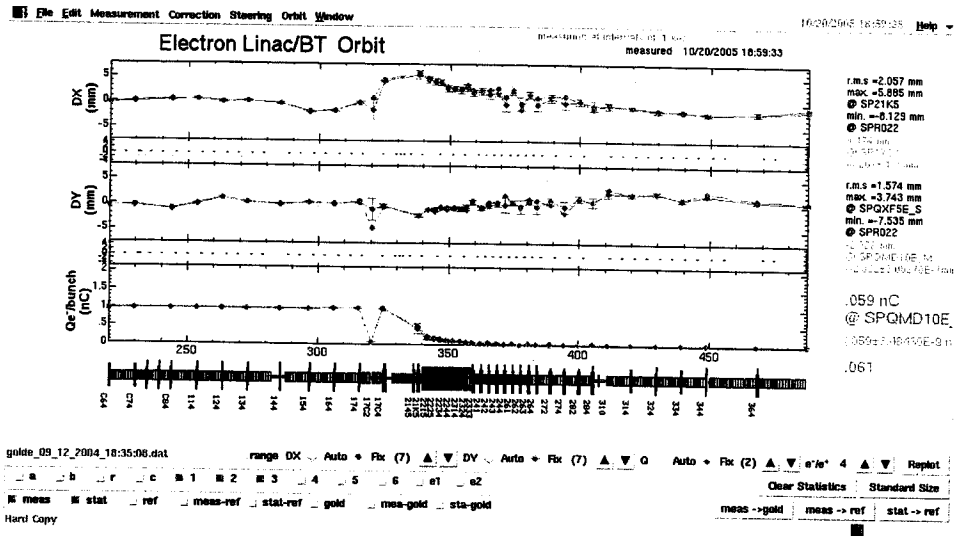
(SP23_43を見ながら、振ってみる)

{QR / QF} IN_C4/C5 [redacted] ON。

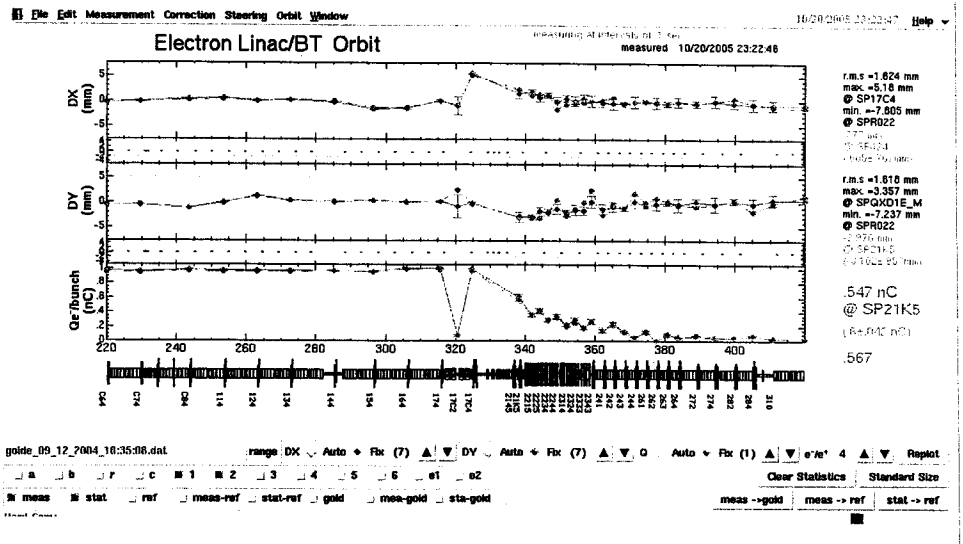
SX_21-1 -2.665 → (元)
SX_21-2 -4.499 → (元)
BX_21-45 -2.736 → (元)

• これらを動かしても、(-5 → +5) 全く変化なし。

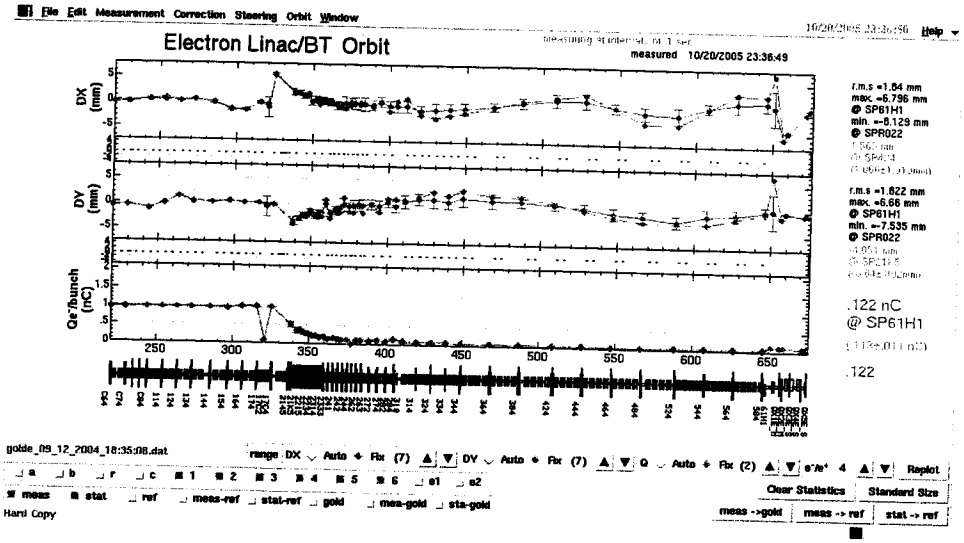
(e- mode target in)



(調整後)

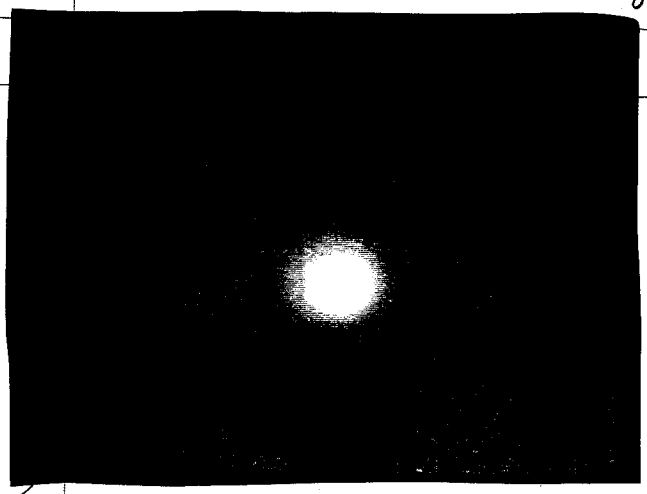


(調整後. endまでの図)

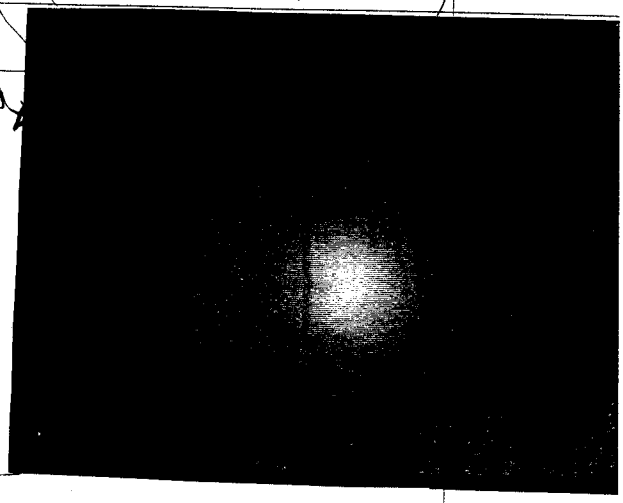


SC_21_45

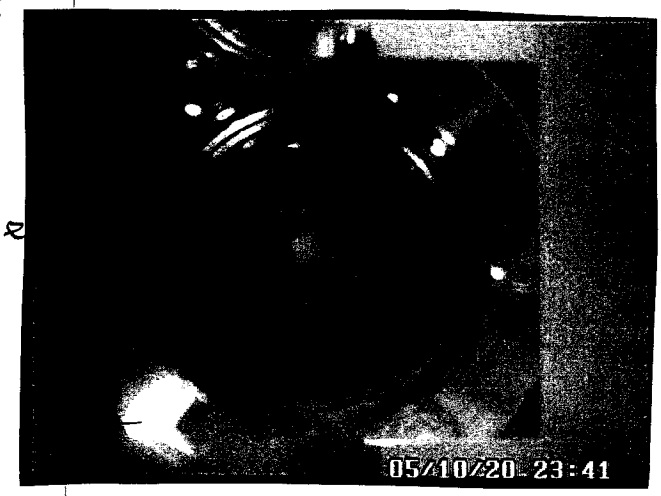
(ここから target in 時)



(target out 時)



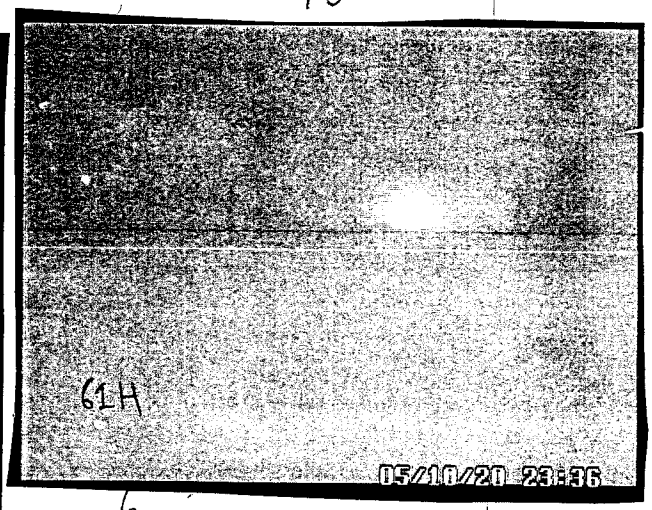
SC_21_45 の Target 抜け方



32-2

43-2

57-2

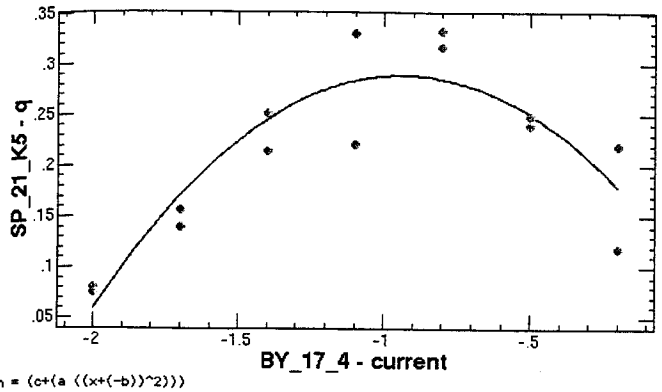


611-1

File Edit Window 10/20/2005 21:57:04

.01761 Goodness = .44326

0357 +/- .03430 b = -.93713 +/- .05166 c = .28869 +/- .01592

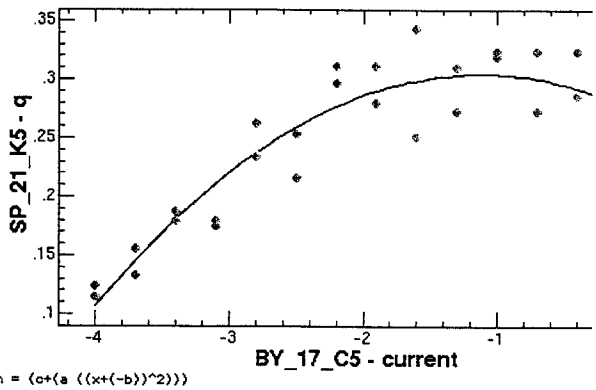


ction = (c+(a ((x+(-b))^2)))

File Edit Window 10/20/2005 2

ChiSquare = .01681 Goodness = .46237

a = -.02386 +/- .00378 b = -1.1183 +/- .17010 c = .30443

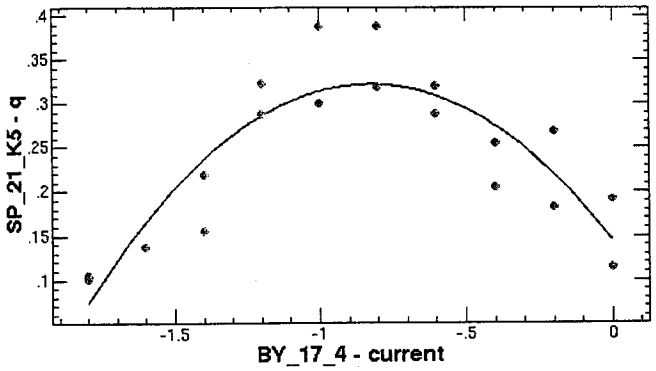


Function = (c+(a ((x+(-b))^2)))

Edit Window 10/20/2005 22:06:03 Help

e = .03423 Goodness = .45437

6340 +/- .03452 b = -.82634 +/- .03453 c = .32270 +/- .01510

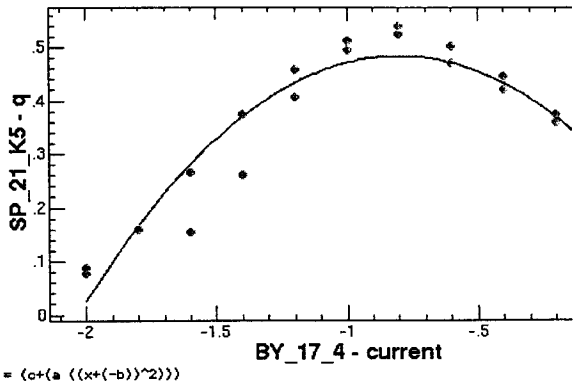


ion = (c+(a ((x+(-b))^2)))

File Edit Window 10/26/2005

ChiSquare = .04532 Goodness = .45684

a = -.31925 +/- .02948 b = -.80084 +/- .03167 c = .4840

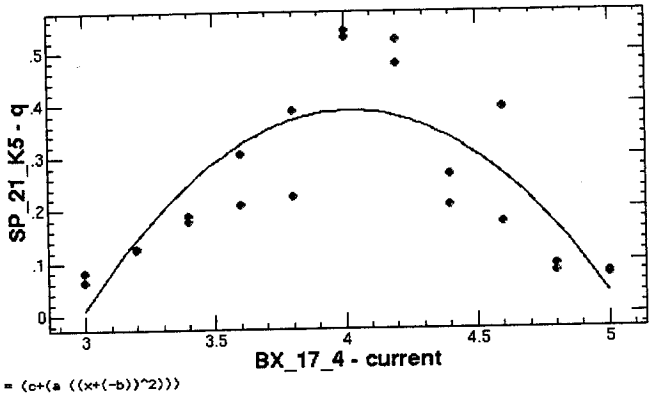


Function = (c+(a ((x+(-b))^2)))

Edit Window 10/20/2005 22:41:10 Help

= .18801 Goodness = .45684

57 +/- .06003 b = 4.01876 +/- .04609 c = .38709 +/- .03203

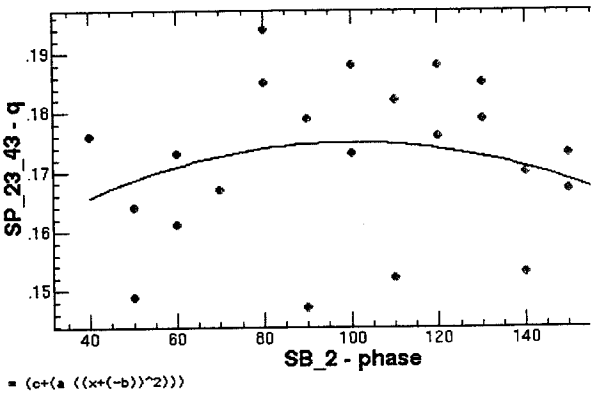


ction = (c+(a ((x+(-b))^2)))

File Edit Window 10/20/2005 23

ChiSquare = .00357 Goodness = .46077

a = -2.6E-6 +/- 1.97E-6 b = 100.007 +/- 12.6873 c = .17495

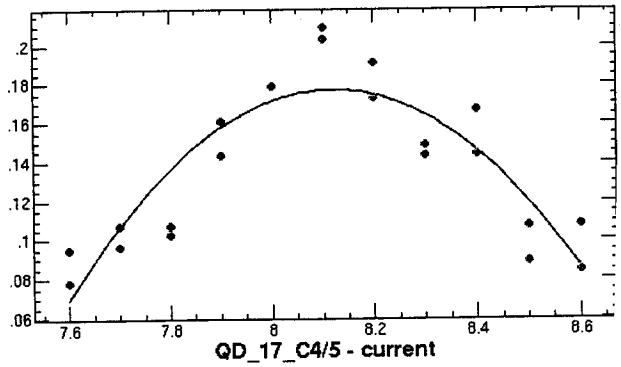


Function = (c+(a ((x+(-b))^2)))

35

it Window 10/20/2005 23:30:11

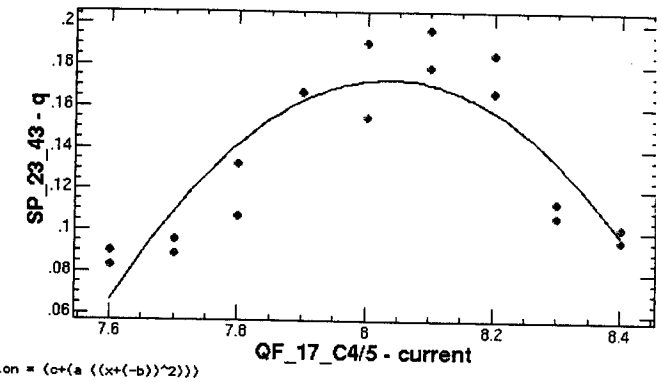
.00795 Goodness = .45684
+/- .04939 b = 8.12023 +/- .01747 c = .17705 +/- .00(



(c+(a ((x+(-b))^2)))

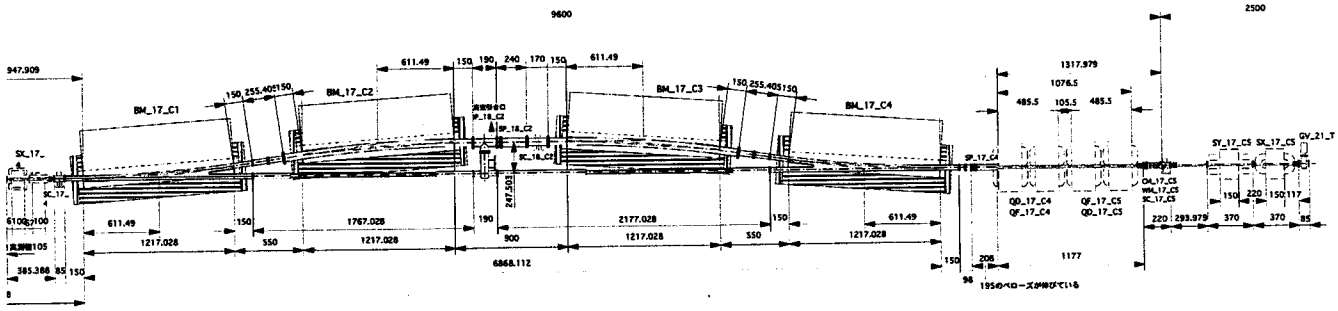
File Edit Window 10/20/2005 23:33:44

ChiSquare = .00615 Goodness = .45142
a = -.56753 +/- .08159 b = 8.03495 +/- .01704 c = .17320 +/- .0

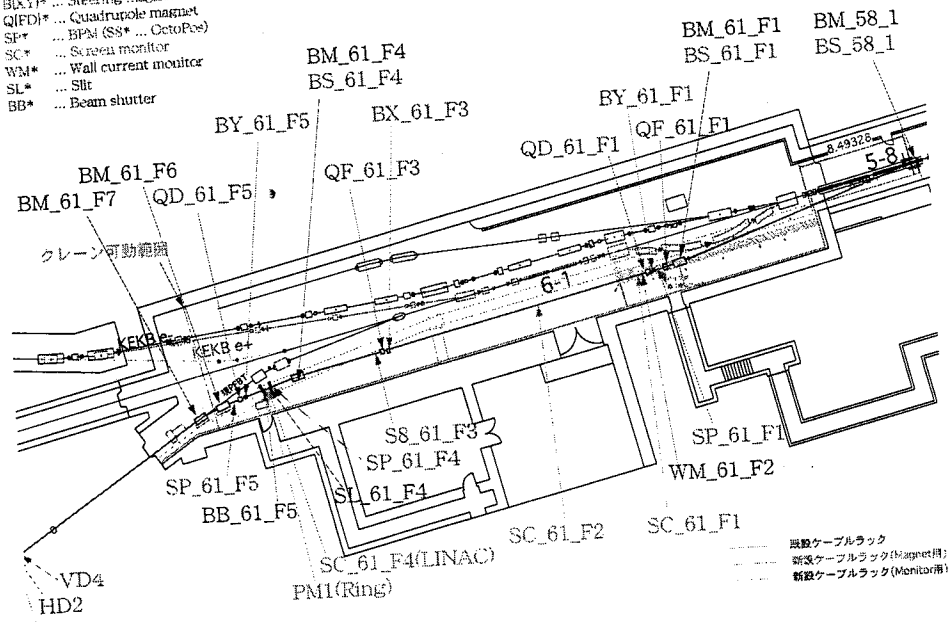


Function = (c+(a ((x+(-b))^2)))

:52 §2 J.



BM* ... Bending magnet (BS*...Backleg)
BXYI* ... Steering magnet
QIFDI* ... Quadrupole magnet
SP* ... BPM (SS* ... OctoPos)
SC* ... Screen monitor
WM* ... Wall current monitor
SL* ... Slit
BB* ... Beam shutter

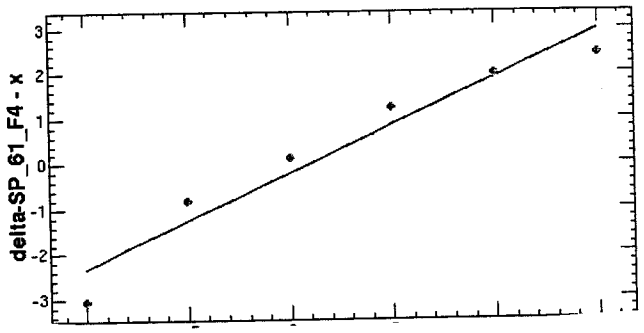


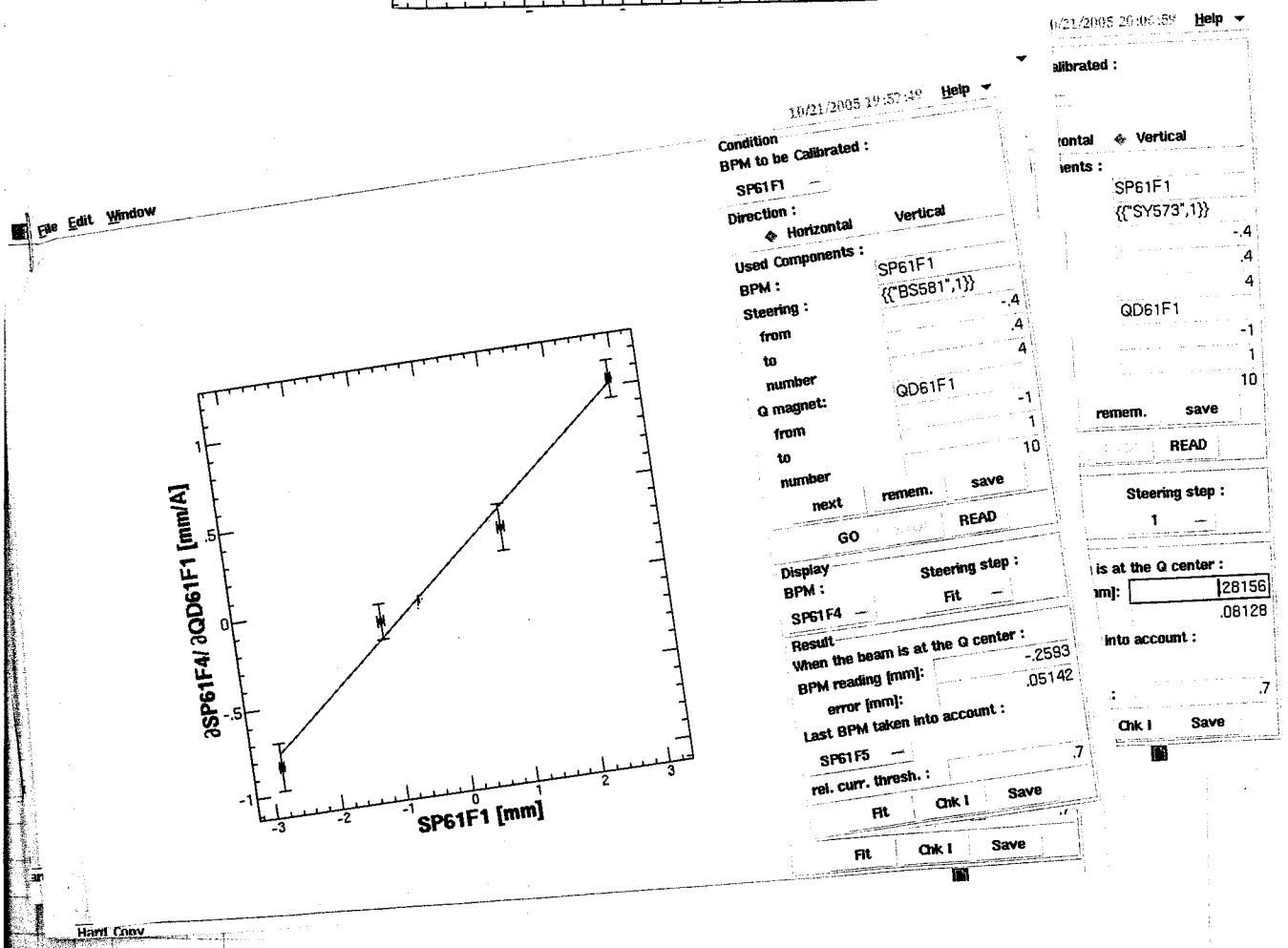
Oct. 21. 2005 Quad BPM
Manual.

File Edit Window 10/21/2005 18:25:30 Help

File Edit Window 10/21/2005 18:26:08 Help
File Edit Window 10/21/2005 18:32:48 Help
File Edit Window 10/21/2005 18:37:07 Help
File Edit Window 10/21/2005 18:41:03 Help
File Edit Window 10/21/2005 18:48:01 Help
File Edit Window 10/21/2005 18:52:36 Help
File Edit Window 10/21/2005 19:00:32 Help

ChiSquare = 1.30665 Goodness = .40601
a = 2.11331 +/- .27325 b = .10274 +/- .11095





2005.10.24(月) PF入射study
三橋 小林 上川 佐波．高橋

位相
PB 25.8° → 4.3°
B 281.9° → 296.0°
CT 227.0 → 元値
SB_C 97.6° → 100.5°
} 最適値

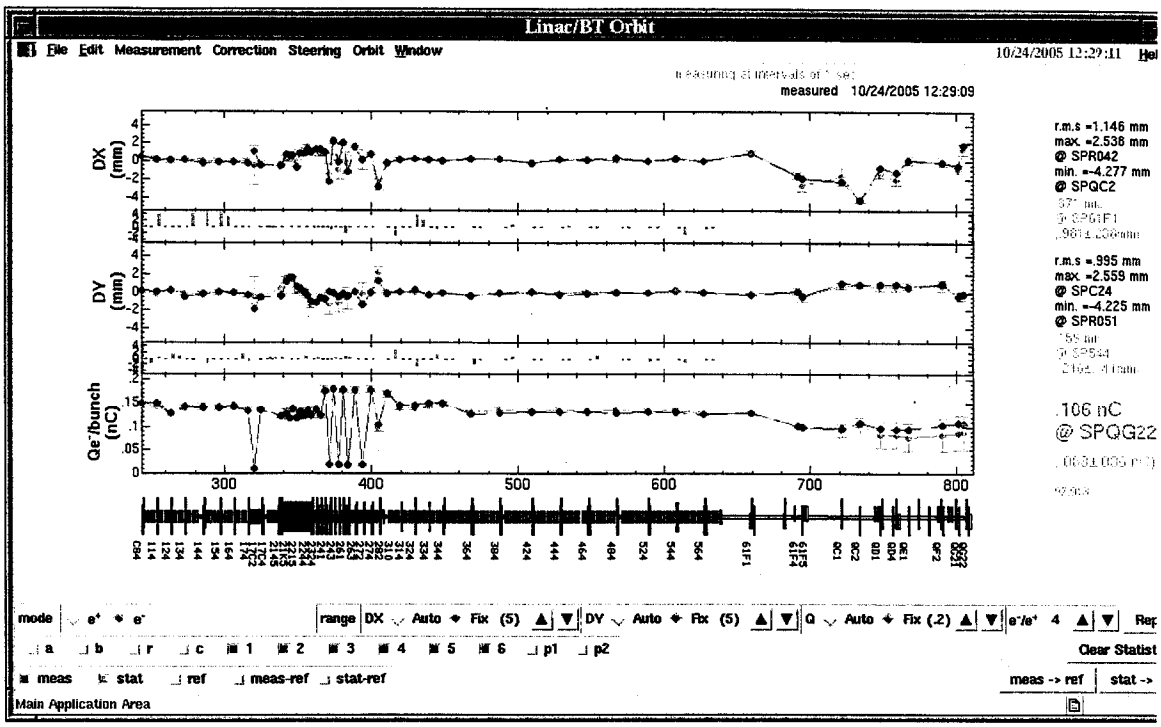
Gun bias 219.4V → 265.7V
電荷量 0.15 → 0.10 nC @ PF BT end

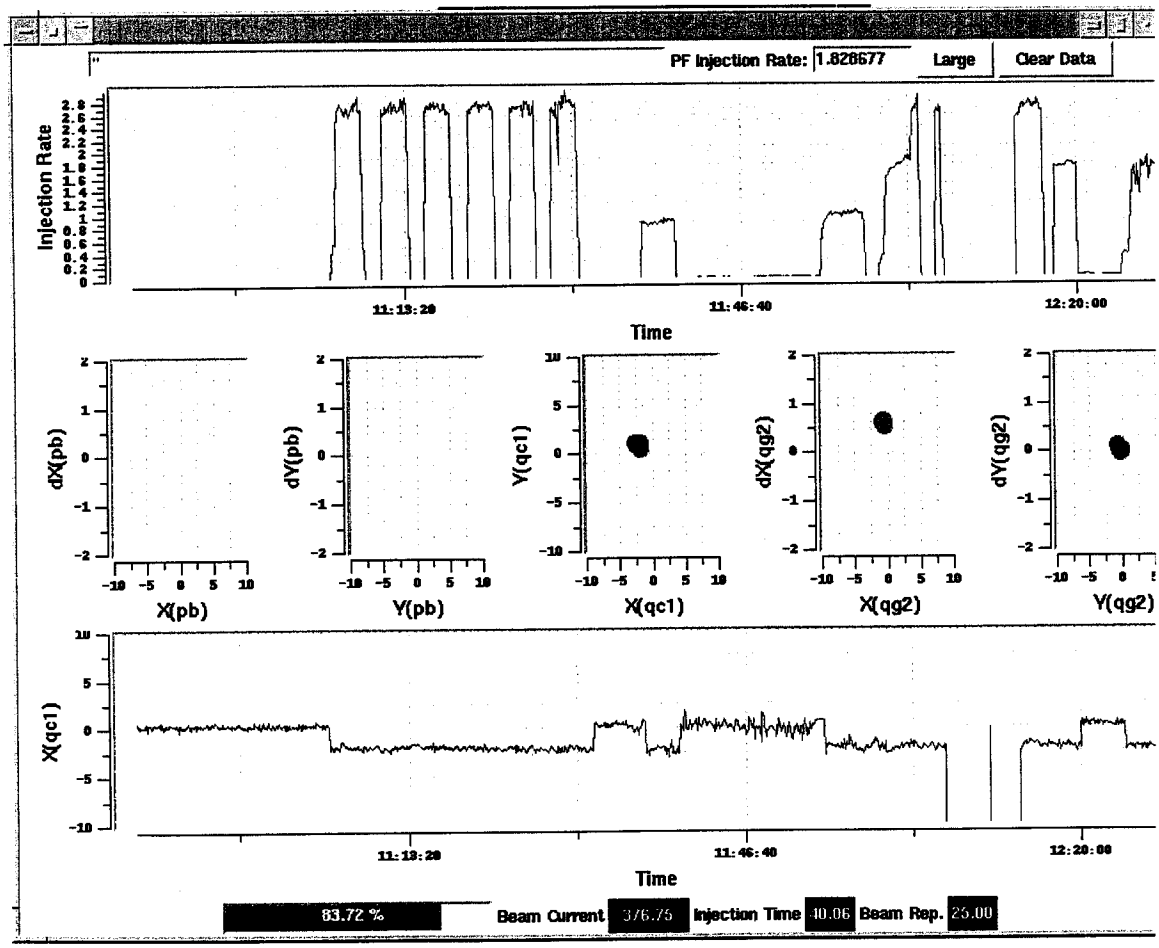
0.05, 0.1, 0.15 nC (現状) の三つの charge を比較すると

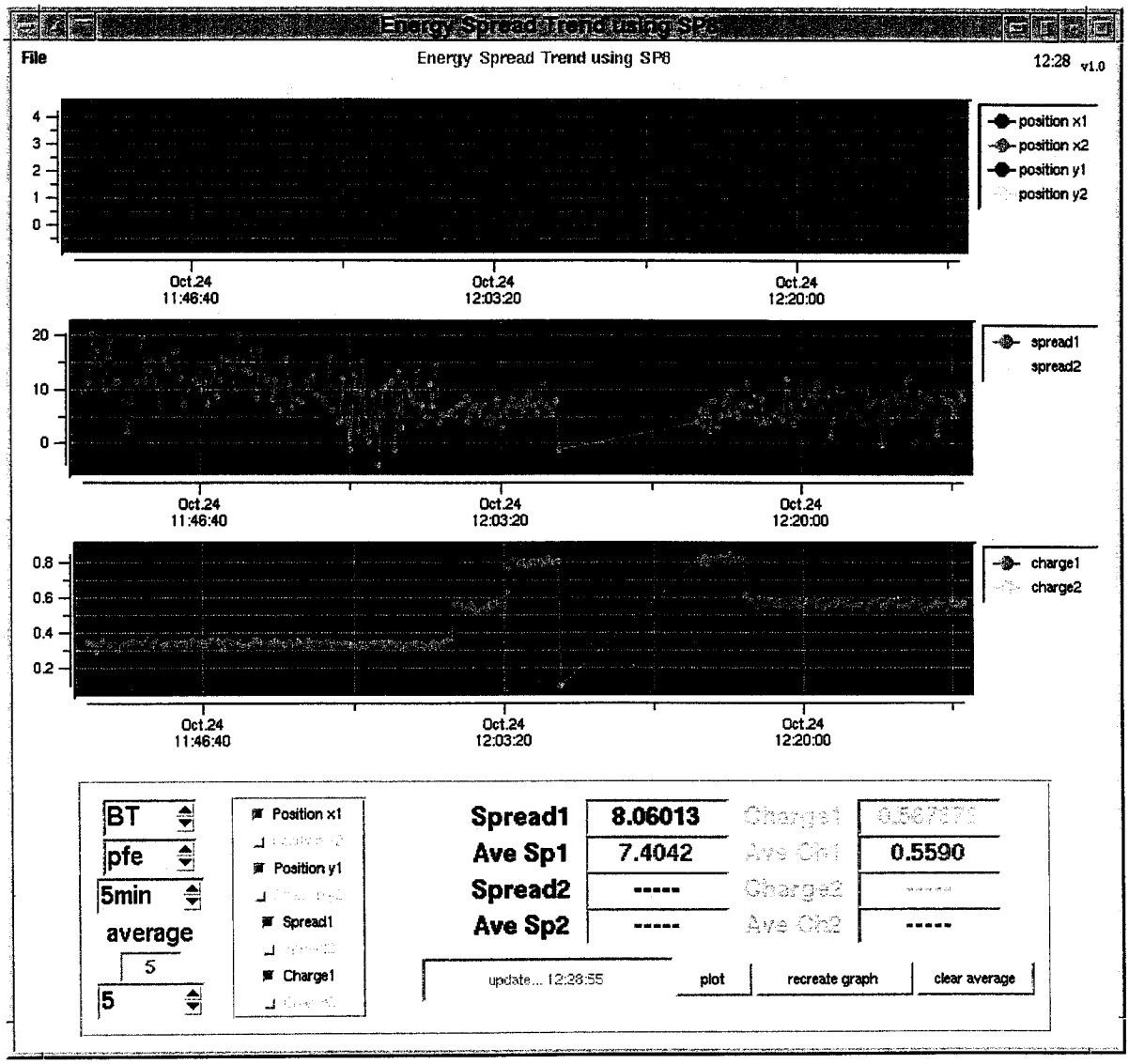
	radiation
0.15 nC	~750 ?
0.1	~350
0.05	~130

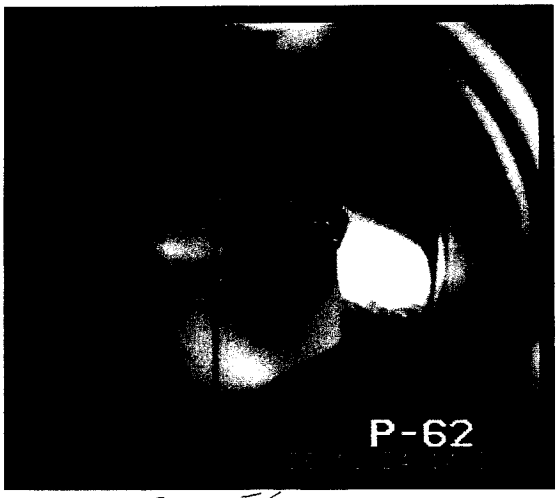
0.15 nC と 0.1 nC の間が linear ではないので この間で tail? が増えるらしい?

⇒ 当面 0.1 nC @ BT-end で運転する

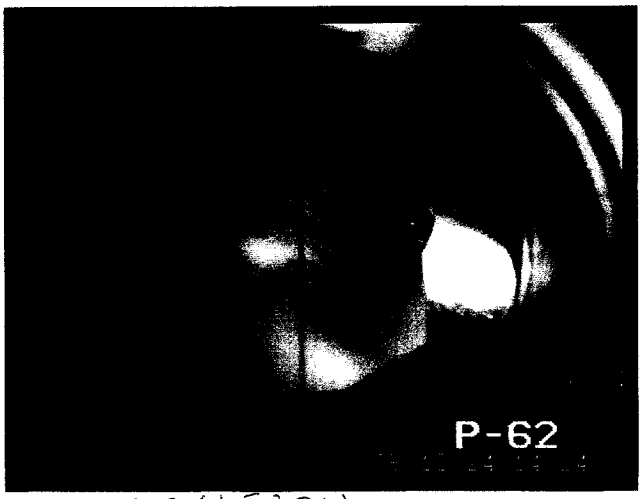

Linac/BT Orbit
File Edit Measurement Correction Steering Orbit Window
10/24/2005 12:29:11
measured 10/24/2005 12:29:09
DX (mm)
DY (mm)
Qe-/bunch (nC)
r.m.s =1.146 mm
max. =2.538 mm
@ SPR042
min. =-4.277 mm
@ SPQC2
r.m.s =.995 mm
max. =2.559 mm
@ SPC24
min. =-4.225 mm
@ SPR051
.106 nC
@ SPQG22
mode
range
DX Auto Fix (5)
DY Auto Fix (5)
Q Auto Fix (.2)
e-/e+ 4
Clear Statist
meas stat ref meas-ref stat-ref
meas -> ref
stat ->
Main Application Area


PF Injection Rate: 1.828677
Large
Clear Data
Injection Rate
11:13:20
11:46:40
12:20:00
Time
dX(pb)
dY(pb)
Y(qc1)
dX(qg2)
dY(qg2)
X(pb)
Y(pb)
X(qc1)
X(qg2)
Y(qg2)
X(qc1)
Time
83.72 %
Beam Current 376.75
Injection Time 40.06
Beam Rep. 25.00





QF-61-F3 OFF



QF-61-F3ON

2005. 10. 24 Beam Study

L1 S8 : PFBT: 1 : XAVE

① QF_61_F1 = 13.291 A . QD_61_F1 = 14.128 A

	Energy knob	SP_61_F1	S8_61_F3	SP_61_F4
15:02	2.4660	1.20 (0.5 ~ 1.2)	1.497 (1.48 ~ 1.49)	−0.87 (−0.4 ~ −1.5)
~~15:~~	~~2.4716~~ 56			
15:08	2.4640	−0.015 (−0.24 ~ −0.15)	1.4785	−0.6 (−0.8 ~ −0.2)
15:10	2.4704	2.6 (2.6 ~ 2.9)	1.23 (1.03 ~ 1.26)	−1.2 (−1.4 ~ −1.0)
15:13	2.4756	6.7 (6.7 ~ 7.0)	0.59 (0.54 ~ 0.71)	−2.5 (−2.7 ~ −2.1)
15:15	2.4640	0 ~ 0.2	1.1 (1.0 ~ 1.2)	−0.9 (−0.7 ~ −1.0)
15:17	2.4576	−6.0 (−6.2 ~ −5.8)	1.8 (1.7 ~ 2.0)	0.8 (0.6 ~ 1.0)
15:20	2.4614	−3.1 (−3.0 ~ −3.2)	1.4 (1.4 ~ 1.6)	−0.1 (−0.1 ~ 0.2)
15:23	2.4640	−0.7	1.4	−0.5 (−0.7 ~ −0.3)

D@61_F1 = 2.1656m

D@61_F4 = −0.47644m