File Edit Window

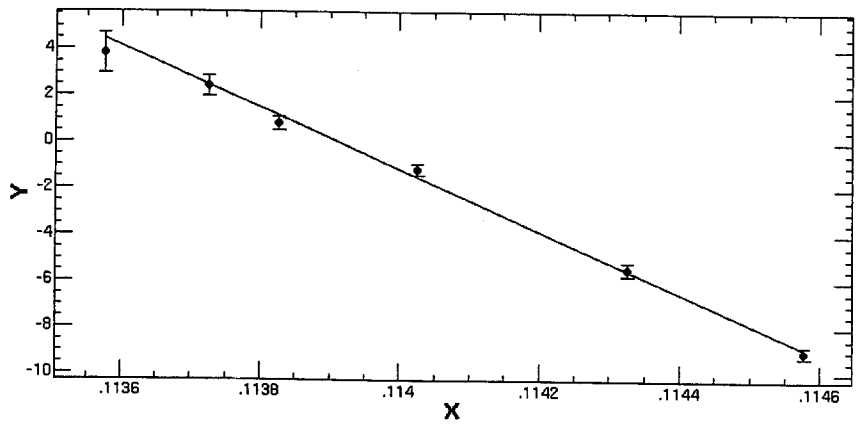
09/12/2005 19:30:29 Help

hiSquare = 4.57261 Goodness = .33402

= -13375. +/- 398.879

b = 1523.58 +/- 45.5378

ECS_ON



unction = (b+(a x))

Y:
SP_61_F1
の位置

X:
SS_1のBM
Augle.

File Edit Window

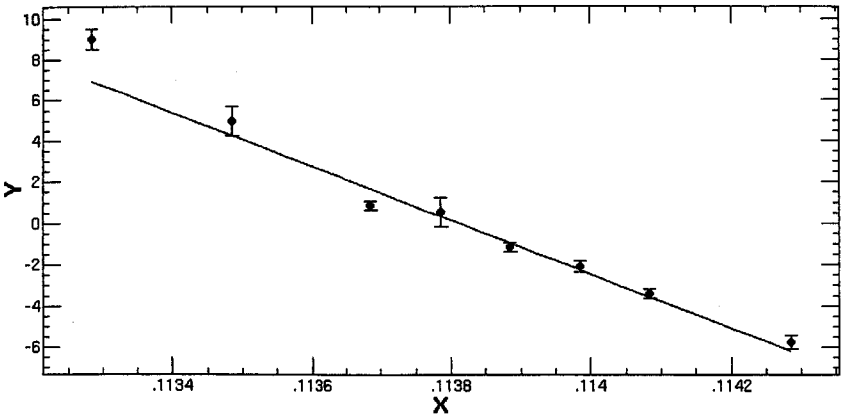
09/12/2005 20:02:01 Help

hiSquare = 34.5079 Goodness = 5.37E-6

= -13125. +/- 451.803

b = 1493.86 +/- 51.4629

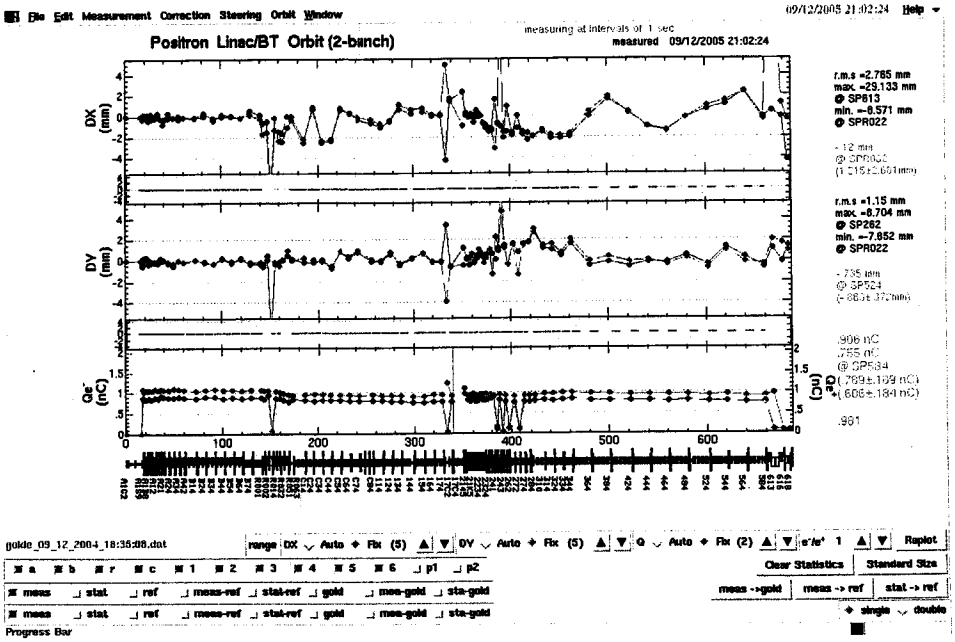
ECS_Off



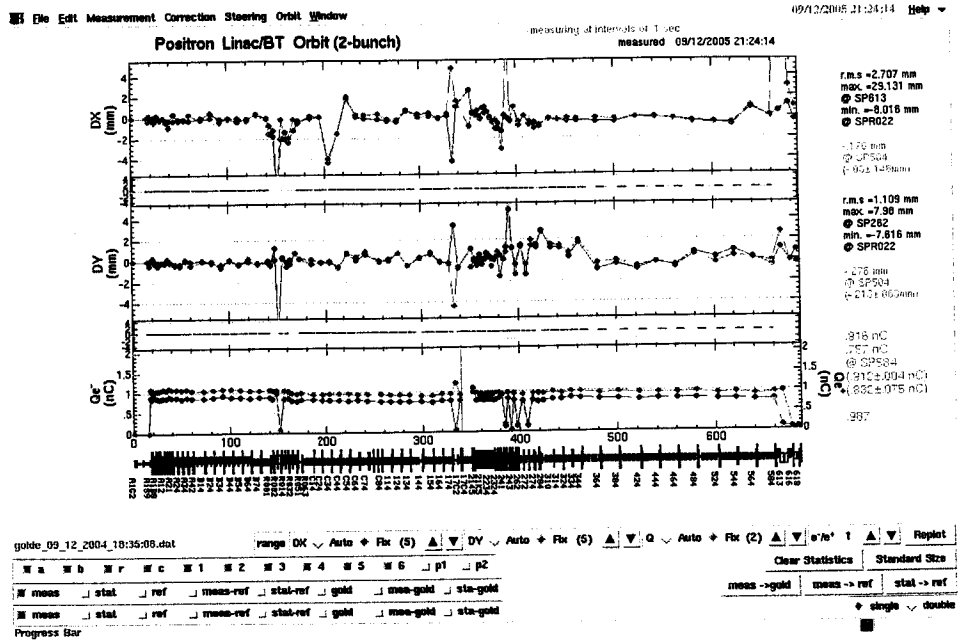
unction = (b+(a x))

13.395 と 13.125 で 誤差の範囲で一致。

(ただし 計算では 20程度になるはずなのは なぞのまま)

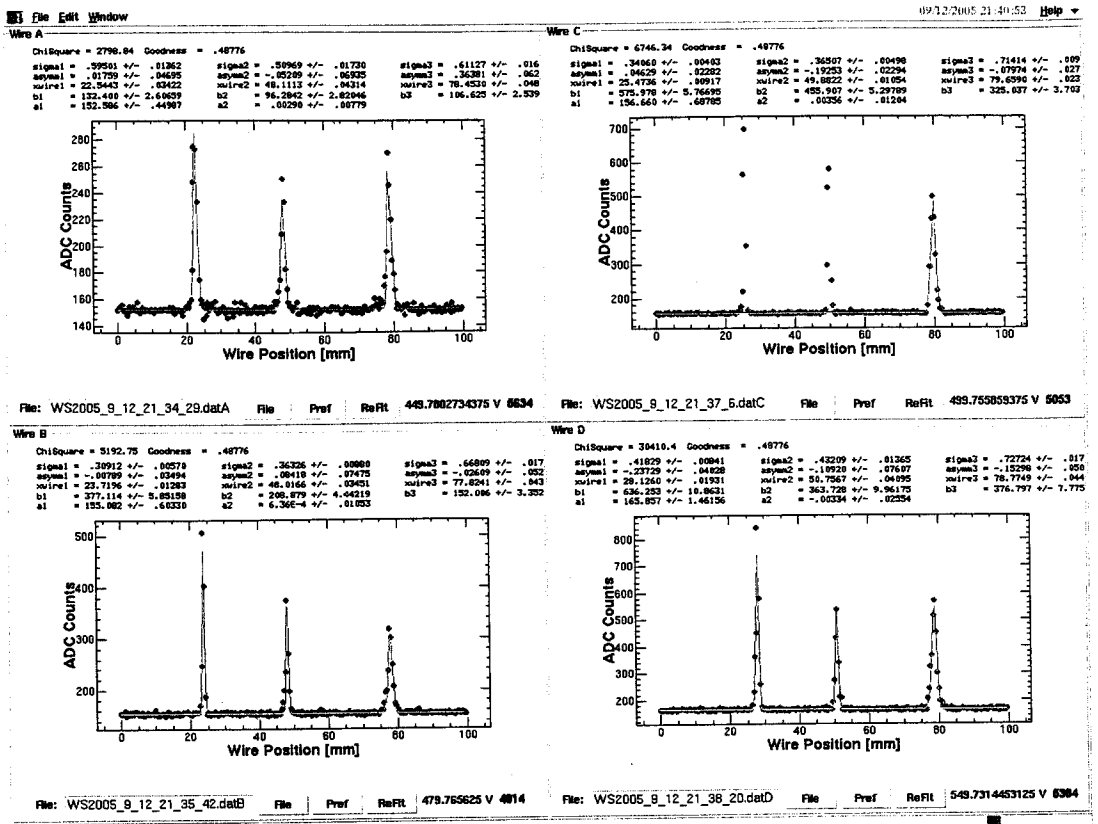

File Edit Measurement Correction Steering Orbit Window
09/12/2005 21:02:24 Help
Positron Linac/BT Orbit (2-bunch)
measuring at intervals of 1 sec
measured 09/12/2005 21:02:24
DX (mm)
DY (mm)
Qe⁻ (nC)
Qe⁺ (nC)
r.m.s =2.785 mm
max. =29.133 mm
@ SP813
min. =-6.571 mm
@ SPR022
r.m.s =1.15 mm
max. =6.704 mm
@ SP282
min. =-7.852 mm
@ SPR022
.906 nC
.755 nC
@ SP584
(.769±.109 nC)
(.606±.184 nC)
.981
golde_09_12_2004_18:35:08.dat
range DX Auto Fix (5) DY Auto Fix (5) Q Auto Fix (2) e'/e' 1 Replot
Clear Statistics Standard Size
meas ->gold meas -> ref stat -> ref
single double
meas stat ref meas-ref stat-ref gold meas-gold sta-gold
Progress Bar

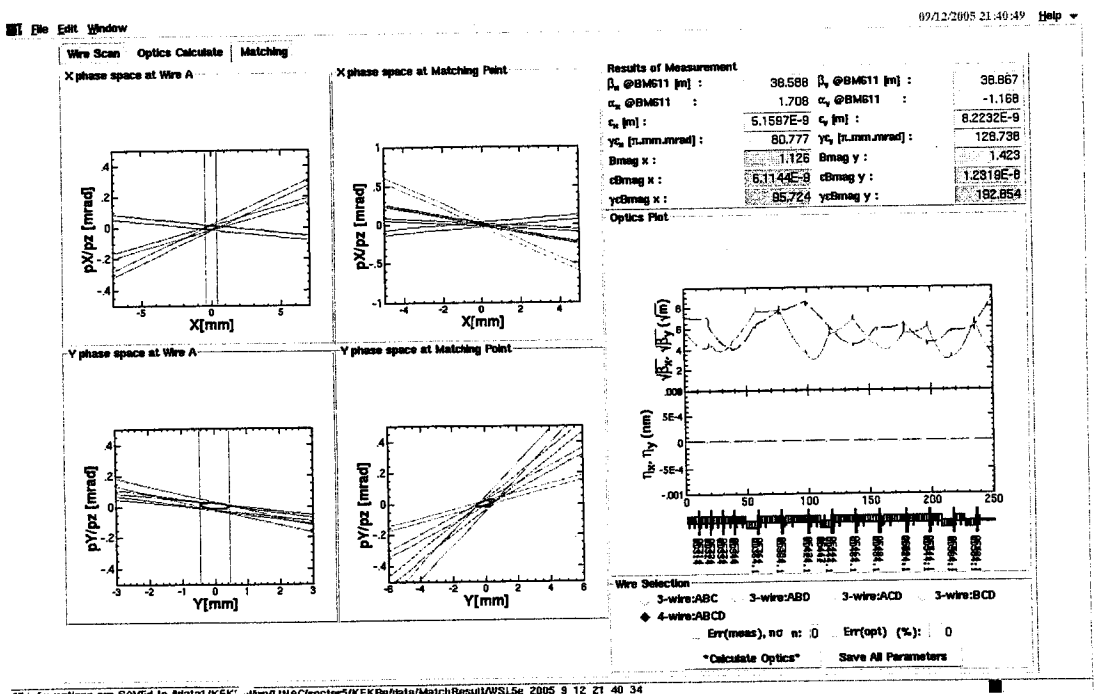
軌道補正前个發生.


File Edit Measurement Correction Steering Orbit Window
09/12/2005 21:24:14 Help
Positron Linac/BT Orbit (2-bunch)
measuring at intervals of 1 sec
measured 09/12/2005 21:24:14
DX (mm)
DY (mm)
Qe⁻ (nC)
Qe⁺ (nC)
r.m.s =2.707 mm
max. =29.131 mm
@ SP813
min. =-8.016 mm
@ SPR022
r.m.s =1.109 mm
max. =7.98 mm
@ SP282
min. =-7.816 mm
@ SPR022
.918 nC
.757 nC
@ SP584
(.911±.004 nC)
(.838±.075 nC)
.987
golde_09_12_2004_18:35:08.dat
range DX Auto Fix (5) DY Auto Fix (5) Q Auto Fix (2) e'/e' 1 Replot
Clear Statistics Standard Size
meas ->gold meas -> ref stat -> ref
single double
meas stat ref meas-ref stat-ref gold meas-gold sta-gold
Progress Bar

e⁻

~~5e7月 W.S. 1st bunch のみ.~~



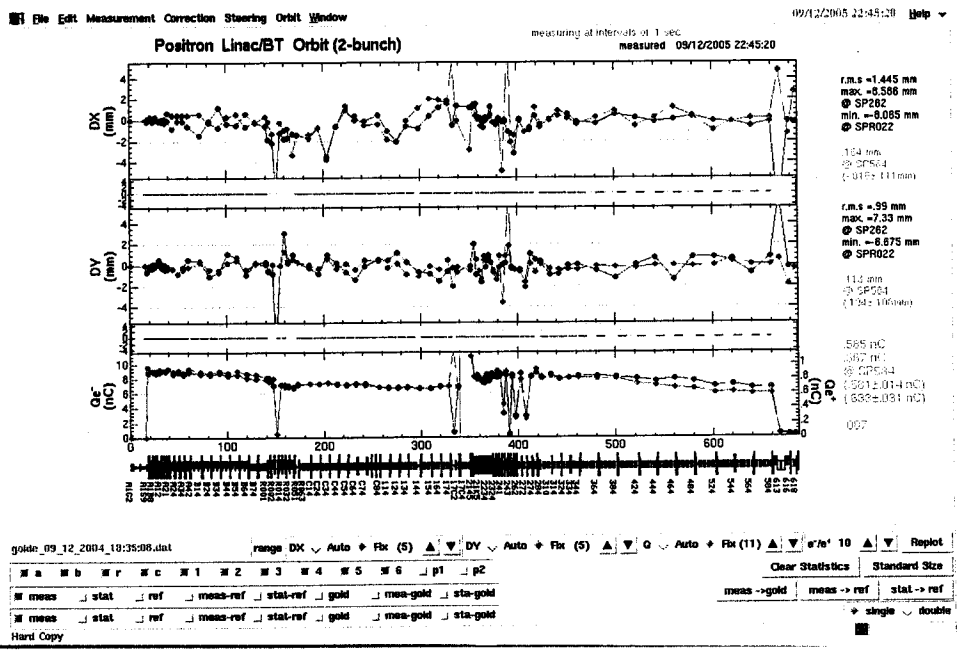


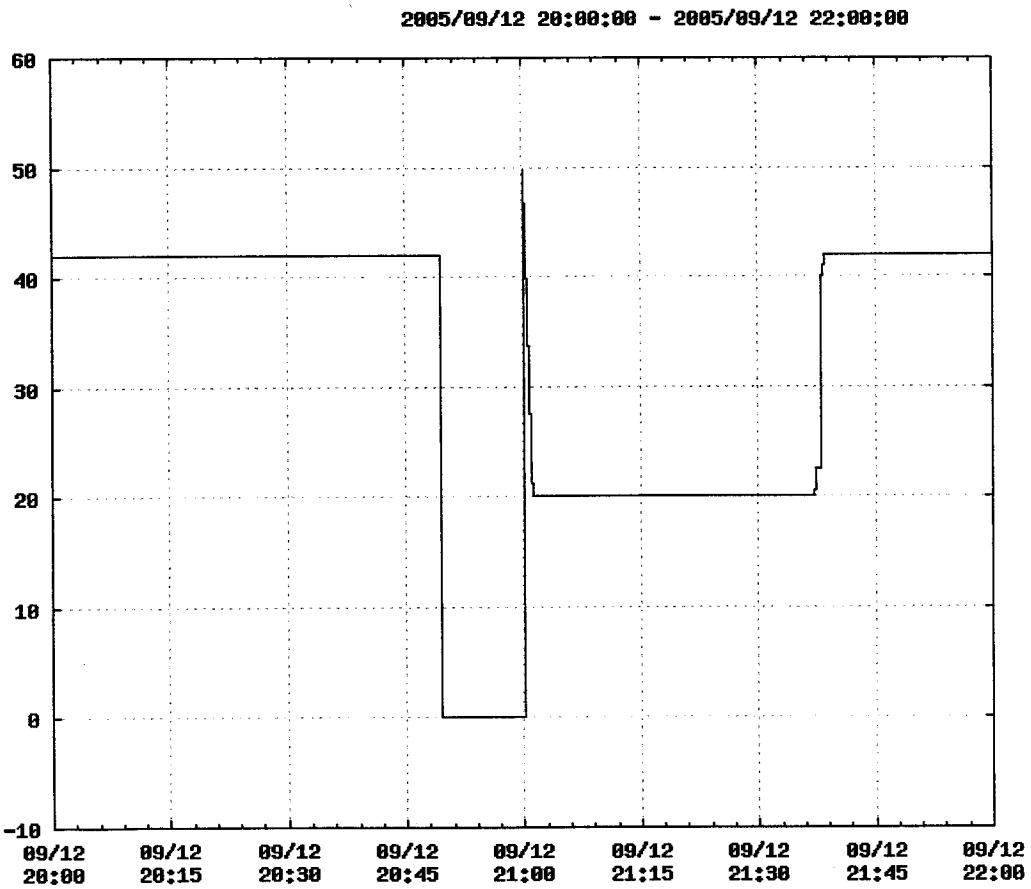
β_x @BM611 [m] :	38.588	β_y @BM611 [m] :	38.867
α_x @BM611 :	1.708	α_y @BM611 :	-1.168
ε_x [m] :	5.1587E-9	ε_y [m] :	8.2232E-9
$\gamma\varepsilon_x$ [π.mm.mrad] :	80.777	$\gamma\varepsilon_y$ [π.mm.mrad] :	128.738
Bmag x :	1.126	Bmag y :	1.423
εBmag x :	6.1144E-9	εBmag y :	1.2319E-8
γεBmag x :	95.724	γεBmag y :	192.854

こゝに問題なし.

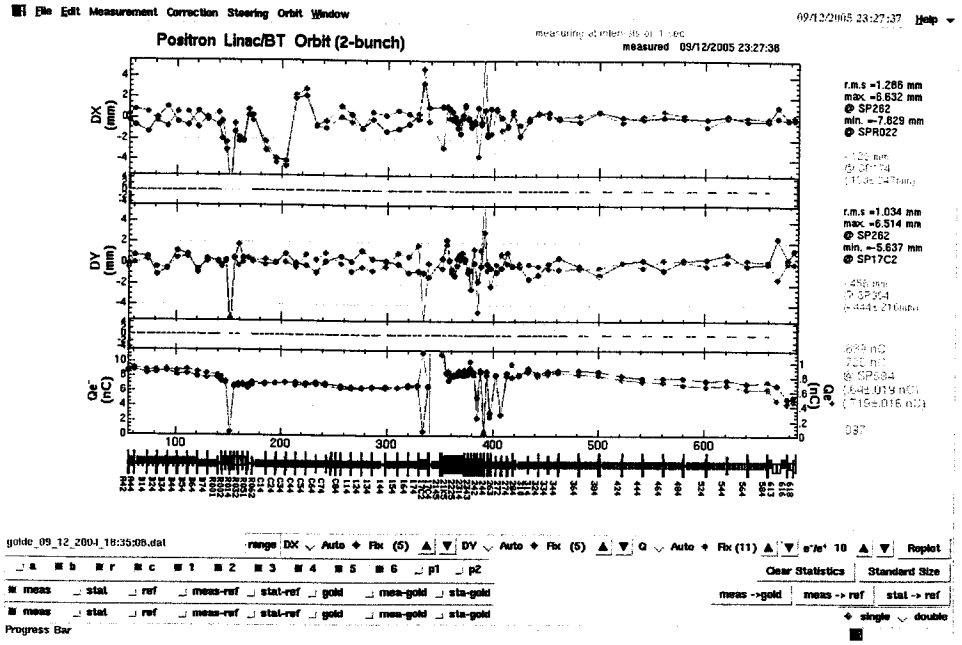
22:40 1sec CAMAC 上位の タイミングサーバー 再起動

et 2bunch ↔ 1bunch の切替 OK.

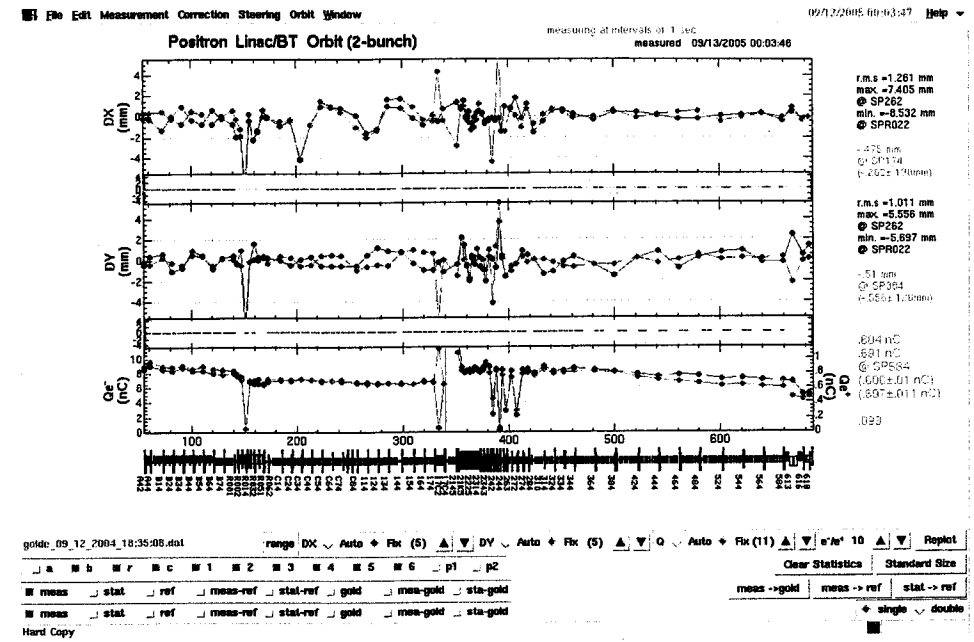




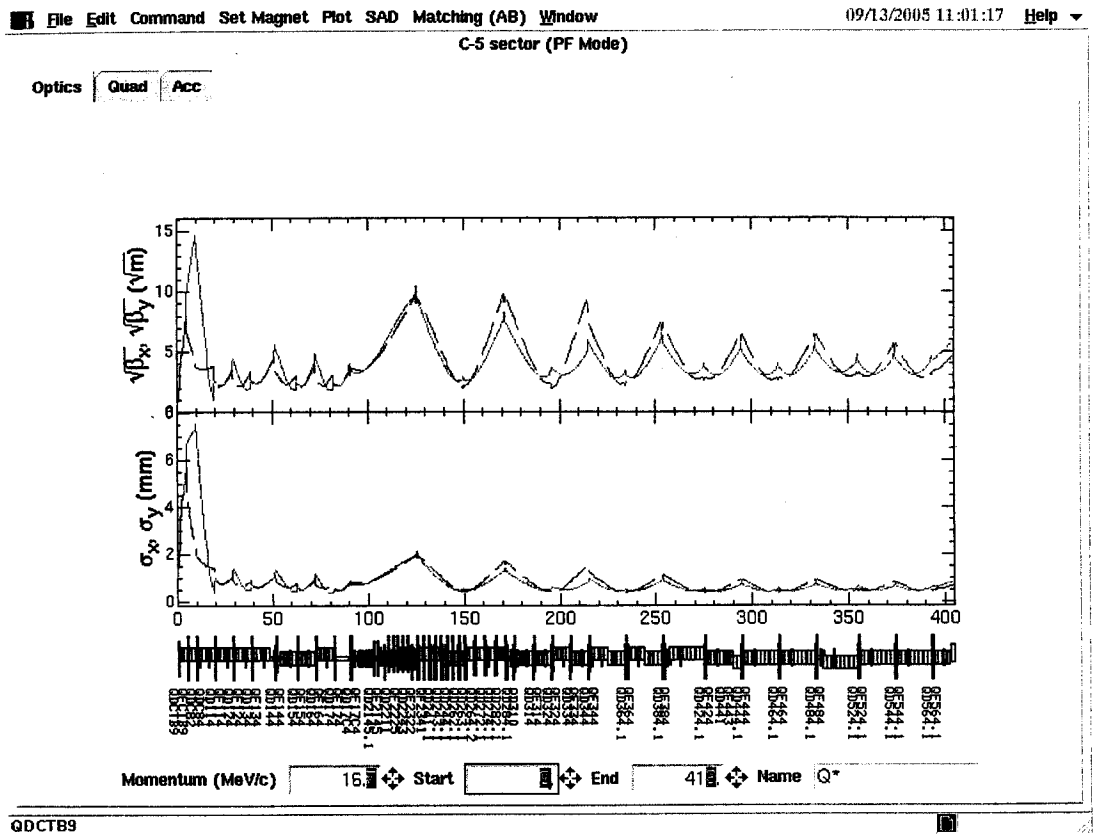
コマンドを
投げた跡はない


File Edit Measurement Correction Steering Orbit Window
Help
Positron Linac/BT Orbit (2-bunch)
measuring at intervals of 1 sec
measured 09/12/2005 23:27:36
DX (mm)
r.m.s =1.286 mm
max. =6.632 mm
@ SP262
min. =-7.829 mm
@ SPR022
DY (mm)
r.m.s =1.034 mm
max. =6.514 mm
@ SP262
min. =-5.637 mm
@ SP17C2
Qe- (nC)
@ SP584
golde_09_12_2004_18:35:08.dat
range DX Auto Fix (5) DY Auto Fix (5) Q Auto Fix (11) e-/e+ 10 Replot
Clear Statistics Standard Size
meas ->gold meas -> ref stat -> ref
single double
Progress Bar

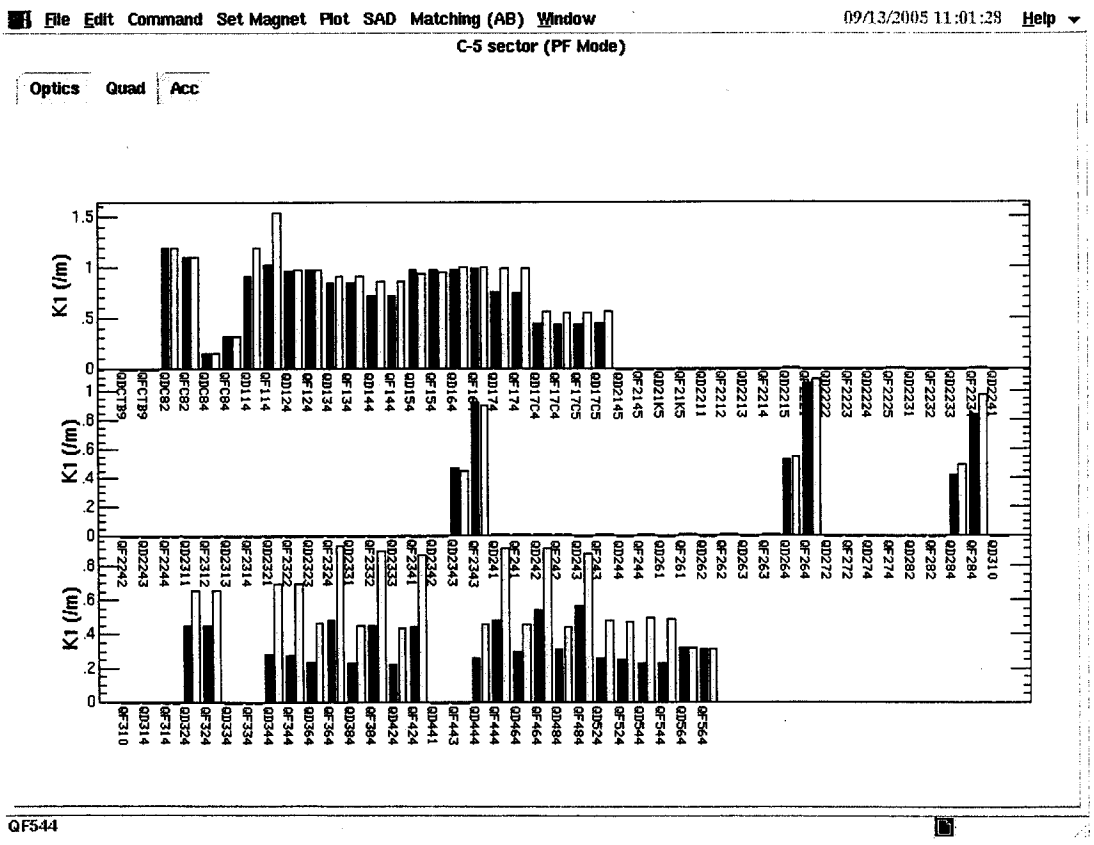
STC調整後


File Edit Measurement Correction Steering Orbit Window
Help
Positron Linac/BT Orbit (2-bunch)
measuring at intervals of 1 sec
measured 09/13/2005 00:03:46
DX (mm)
r.m.s =1.261 mm
max. =7.405 mm
@ SP262
min. =-8.532 mm
@ SPR022
DY (mm)
r.m.s =1.011 mm
max. =5.556 mm
@ SP262
min. =-5.697 mm
@ SPR022
Qe- (nC)
@ SP584
golde_09_12_2004_18:35:08.dat
range DX Auto Fix (5) DY Auto Fix (5) Q Auto Fix (11) e-/e+ 10 Replot
Clear Statistics Standard Size
meas ->gold meas -> ref stat -> ref
single double
Hard Copy

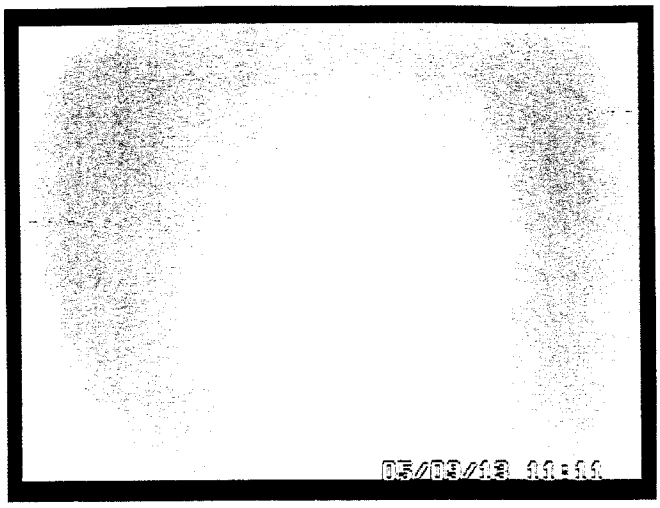
2005. 9. 13 (火) 大西, 小川, 須田



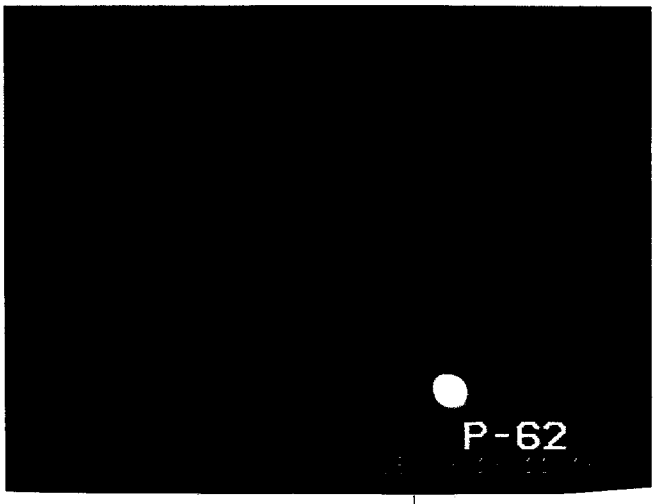
5セル — 90° phase advance

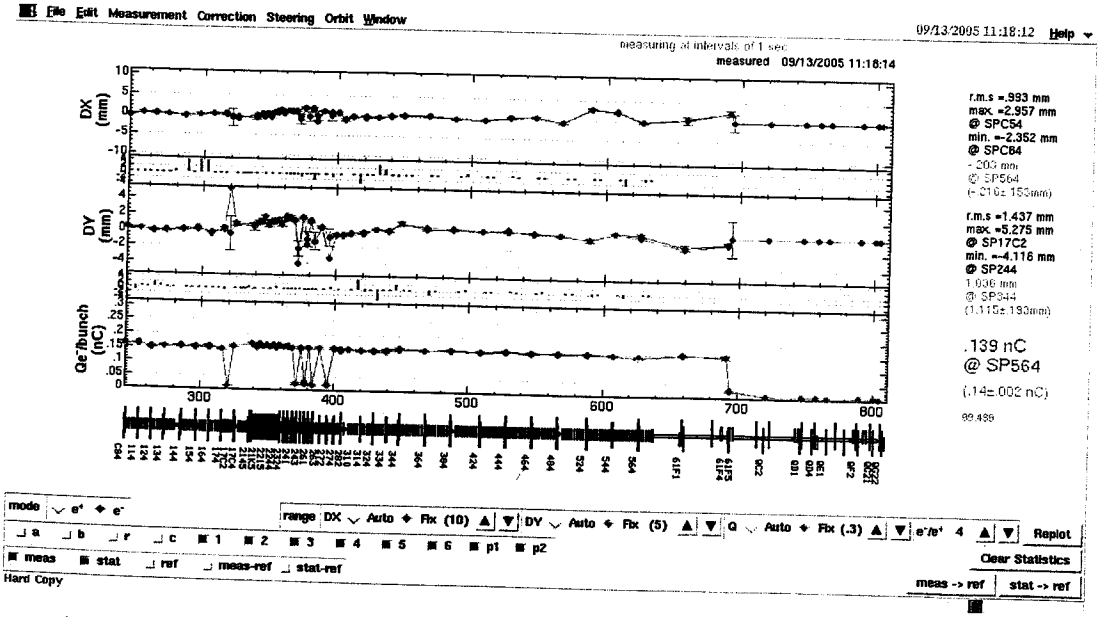


SC-61_P4



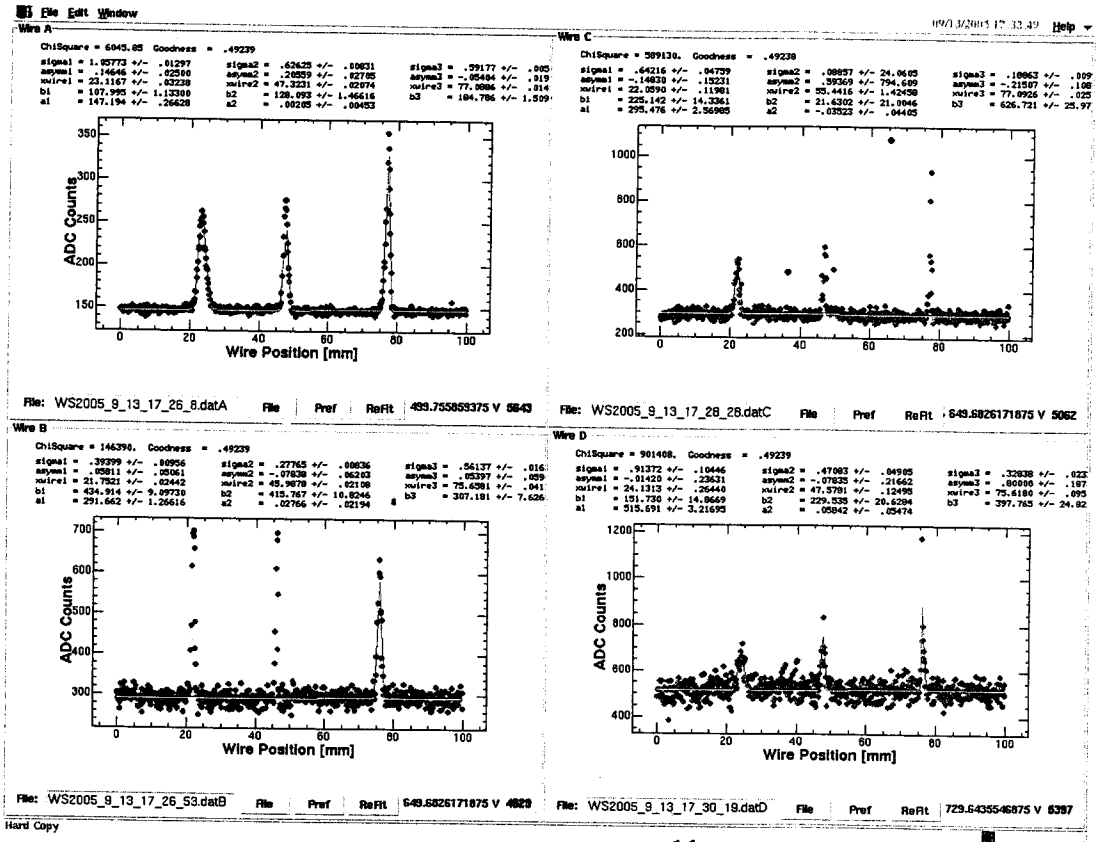
FL_CT-Φ 221 → 245°
SB-1~4 +1°





201

11:31 QD_C8_2, QF_C8_2 極性変わり、再 check.



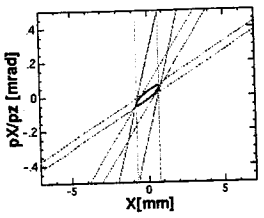
一07ヶ - 9ヵ 90 cell

09/13/2005 17:34:11 Help

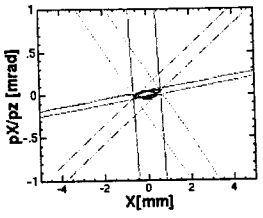
File Edit Window

Wire Scan | Optics Calculate | Matching

X phase space at Wire A



X phase space at Matching Point

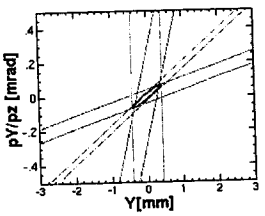


Results of Measurement

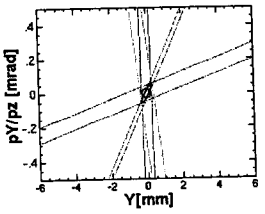
β_x @AC574+1 [m] :	20.688	β_y @AC574+1 [m] :	13.146
α_x @AC574+1 :	-1.191	α_y @AC574+1 :	-2.367
ε_x [m] :	1.7869E-8	ε_y [m] :	6.5721E-9
$\gamma\varepsilon_x$ [π.mm.mrad] :	87.420	$\gamma\varepsilon_y$ [π.mm.mrad] :	32.152
Bmag x :	1.650	Bmag y :	3.109
εBmag x :	2.8487E-8	εBmag y :	2.0434E-8
γεBmag x :	144.259	γεBmag y :	99.966

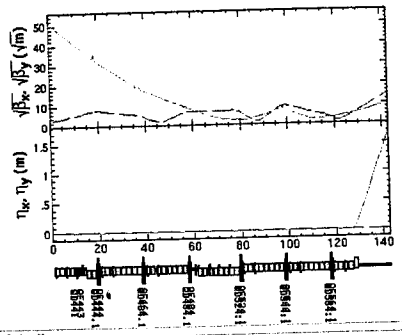
Optics Plot

Y phase space at Wire A



Y phase space at Matching Point





Wire Selection

3-wire:ABC 3-wire:ABD 3-wire:ACD 3-wire:BCD

4-wire:ABCD

Err(meas), nσ n: 0 Err(opt) (%): 0

"Calculate Optics" Save All Parameters

Q-Mag values were SET and saved to file and sad.

5セル-ロナ 90° cell

09/13/2005 17:33:38 Help

File Edit Window

Wire Scan | Optics Calculate | Matching

Matching Residual = 2.247628241336E-28

Matching Calculation

Matching Condition

Calc Matching

Recover Calculation

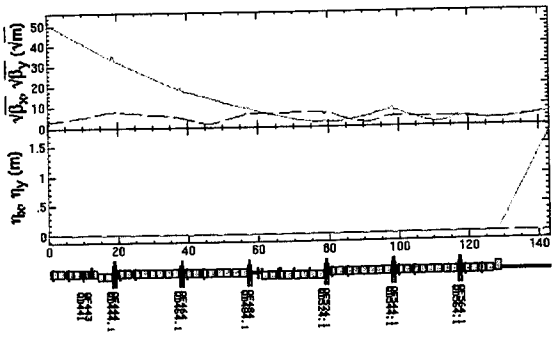
Reset Calculation

Q-mag Set

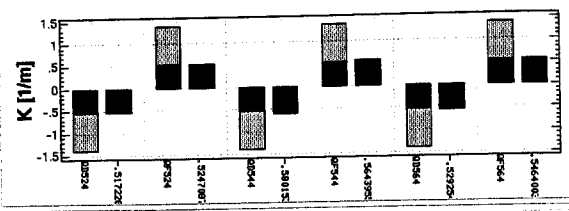
Q-mag Read&Write

Read Q-Mag from File

Save Q-Mag to File

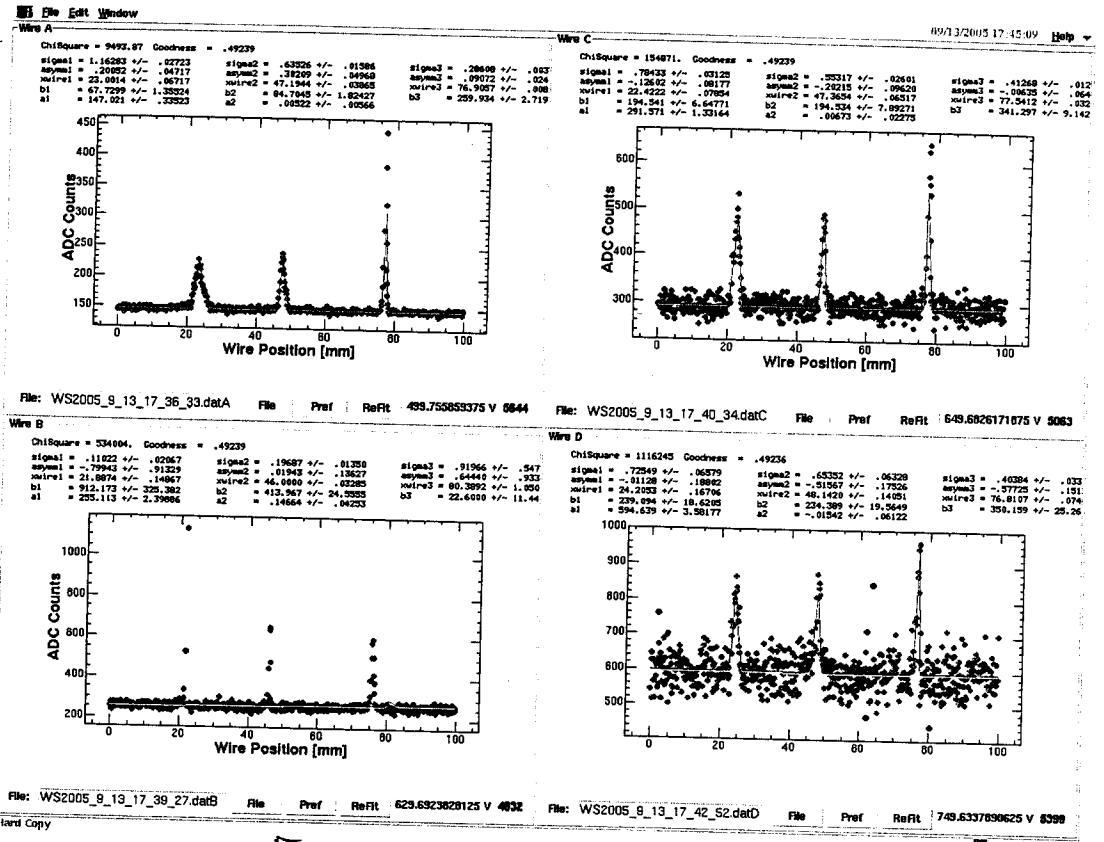


Strength of Free Qmag (QX*)

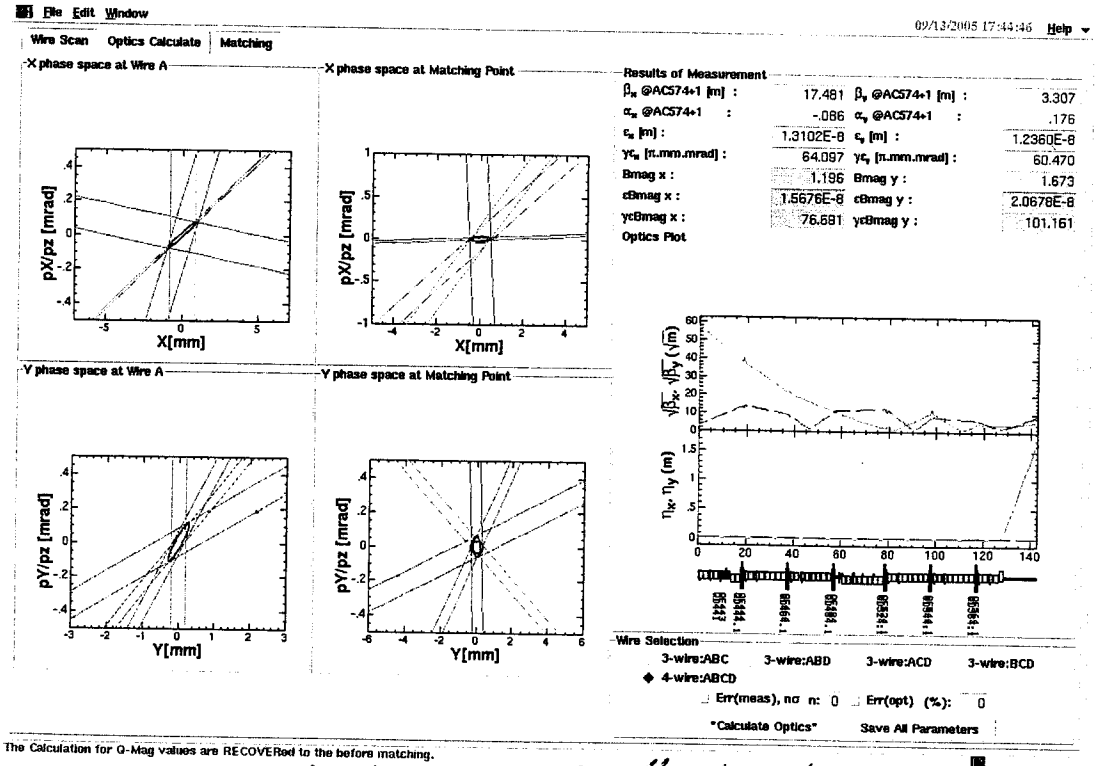


Q-Mag values were SET and saved to file and sad.

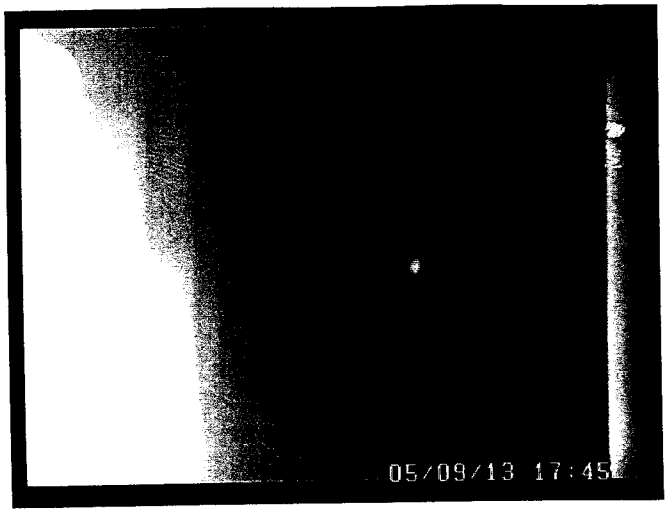
5セル-ロナ 90° cell



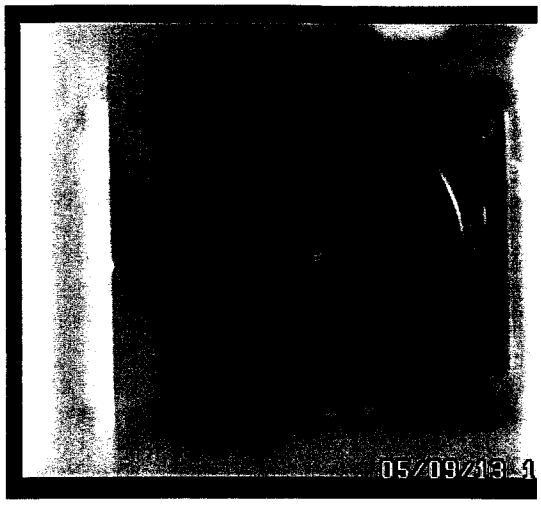
5つ分-のみ 90°cell Match後



5セット-のみ 90°cell Match後



SC_61_F2 (25Hz)



SC-61-F1 (25Hz)

SC-61-F4 (25Hz)

2005
9/13
18:07

* PF matching 及び 以下に magnet を save.

data 36. main PF を Operation (5 sec 90 deg. after

205

2005.9.13(火) 準夜 吉田.

1

18:29 KEKB e− ワイヤースキャナー → 2 bunch のプロファイルは
データ取れず.
Sector B, C

19:37 KEKB e+ ワイヤースキャナー

5 Section. 取れず.

(・19:52, 19:56 〃
・20:15 ベルトスコイルの Oven Voltage 勾配で. 中止

21:38 PF

22:30 ~ 軌道補正用データ収集
PF および ~~KEK~~ KEKB e−

12:30 PF 微調整 (飯田)

PF ECS 1 → Off 確認

ECS 2346 → Off のみ

(日立ラクルによる測量を反映した)

PF_V3.8.7_om.sad を load

BS_61_F1 (BPのバックレン) を 0.

BK Δθ = −0.7 mrad θ = 0.114068 rad

BP Δθ = −0.4 mrad θ = −0.113950

差 = 1.18×10⁻⁴

13:18 BK = BP にして. set

ECS → ON PF mode に.

PF_V3.8.8_om.sad を load (θ(BK) = θ(BP))

BM_58_1 (BK)

BS_61_F1 (BPのバックレン)) を調整して. 軌道調整.

以後. これを Last σ にする.