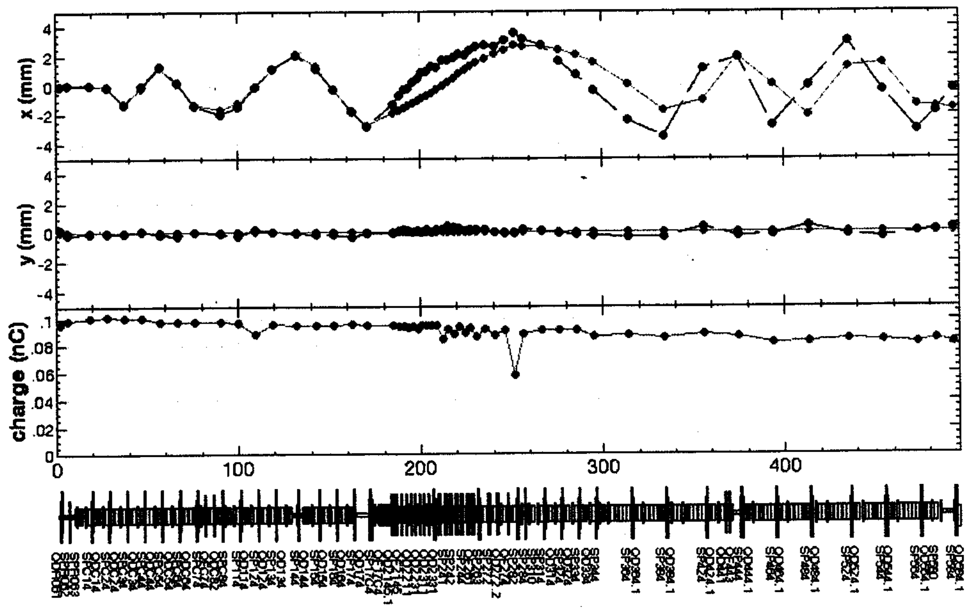
173

SX C31

Solenoid off↔on で軌道は変わらない。(P. 163)

File Edit Window 05/30/2008 15:50:45

Orbit | AF^-1 | ΔK1 | ΔB'



Read Optics
s1(m) 0
s2(m) 500
Set ref
Clear ref
Plot orbit
File sxc31_1.dat

Steering SX_C3_1
Read
I(A) 1
ΔI(A) -2
Set

Steering(X) SXC31
K0 1.5E-4
Set Clear
Steering(Y) SYC31
K0 7E-5
Set Clear

Select Q
QDC14
QFC14
QDC24
QFC24
QDC34
QFC34
QDC44
QFC44
QDC54
QFC54

K1 0
AF 1
Set ref
Set

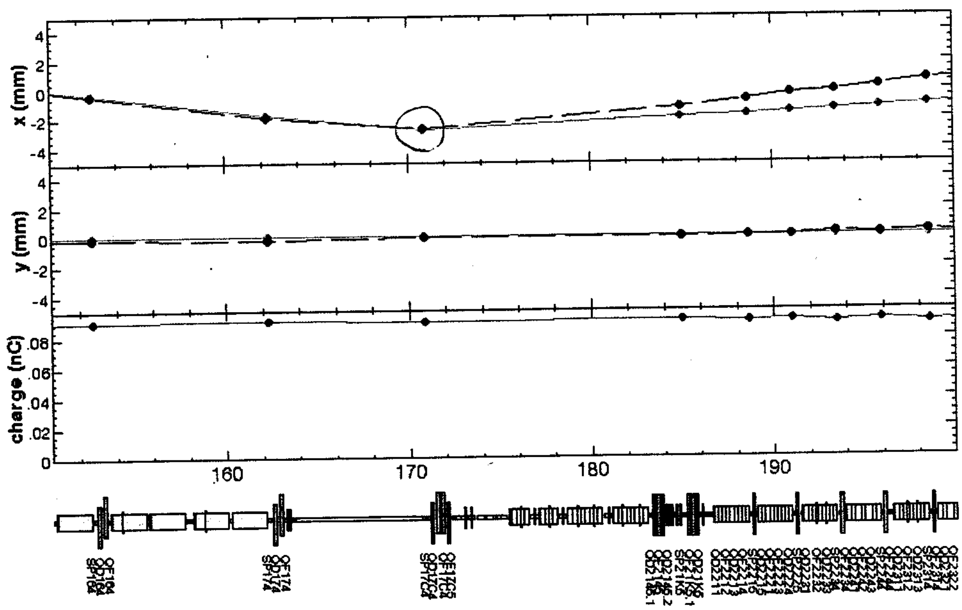
average
x y ◆ xy
Read SPDATA
Plot
Set ref

EPS
Show
Set
Clear

拡大図

File Edit Window 05/30/2008 15:55:15

Orbit | AF^-1 | ΔK1 | ΔB'



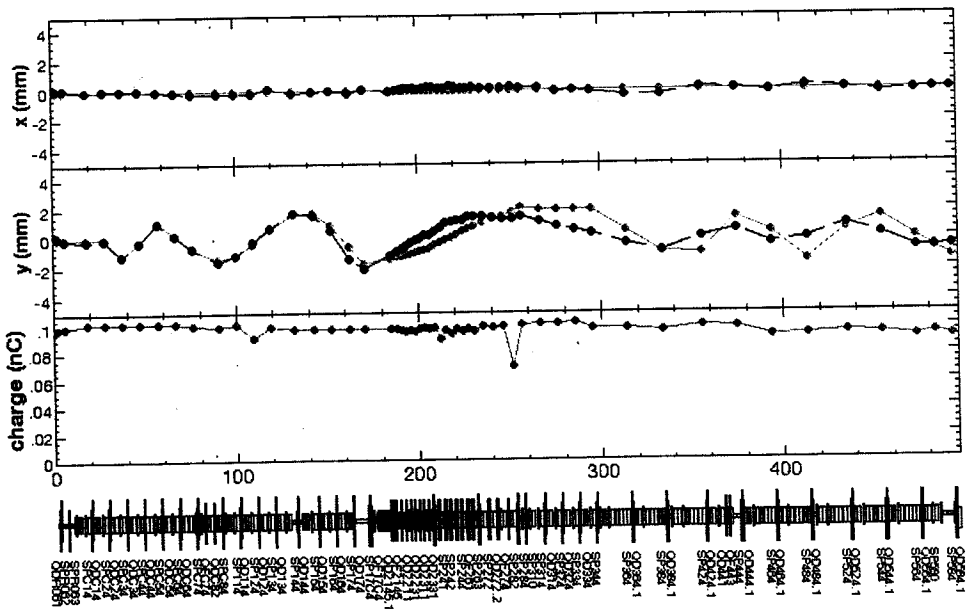
Q{F D} 17C{4 5} があやしい!

SYC31

P.164と比較して変わらない

File Edit Window

Orbit AF^-1 ΔK1 ΔB'



Read Optics
s1(m) 0
s2(m) 500
Set ref
Clear ref
Plot orbit
File syc31_1.dat

Steering SY_C3_1
Read
I(A) -1.999
ΔI(A) -1
Set

Steering(X) SXC31
K0 -1.1E-4
Set Clear

Steering(Y) SYC31
K0 1.4E-4
Set Clear

Select Q
QDC14
QFC14
QDC24
QFC24
QDC34
QFC34
QDC44
QFC44
QDC54
QFC54

K1 0
AF 1
Set ref
Set

average
x y xy
Read SPDATA
Plot
Set ref

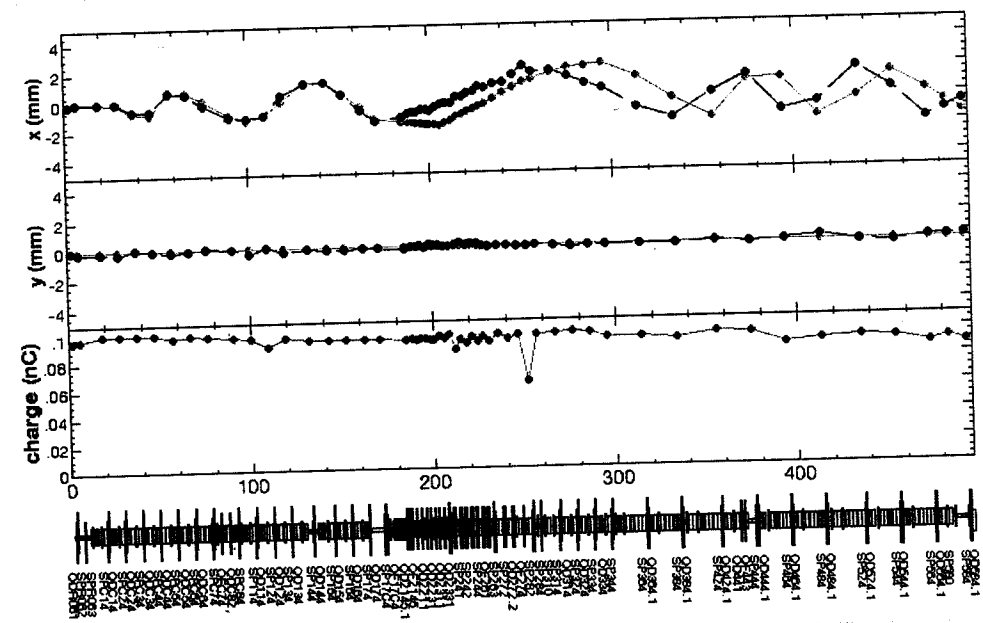
EPS
Show
Set
Clear

05/30/2008 16:08:52

SXC33

File Edit Window

Orbit AF^-1 ΔK1 ΔB'



Read Optics
s1(m) 0
s2(m) 500
Set ref
Clear ref
Plot orbit
File sxc33_1.dat

Steering SX_C3_3
Read
I(A) -1.999
ΔI(A) -1
Set

Steering(X) SXC33
K0 1.8E-4
Set Clear

Steering(Y) SYC33
K0 -1.4E-4
Set Clear

Select Q
QDC14
QFC14
QDC24
QFC24
QDC34
QFC34
QDC44
QFC44
QDC54
QFC54

K1 0
AF 1
Set ref
Set

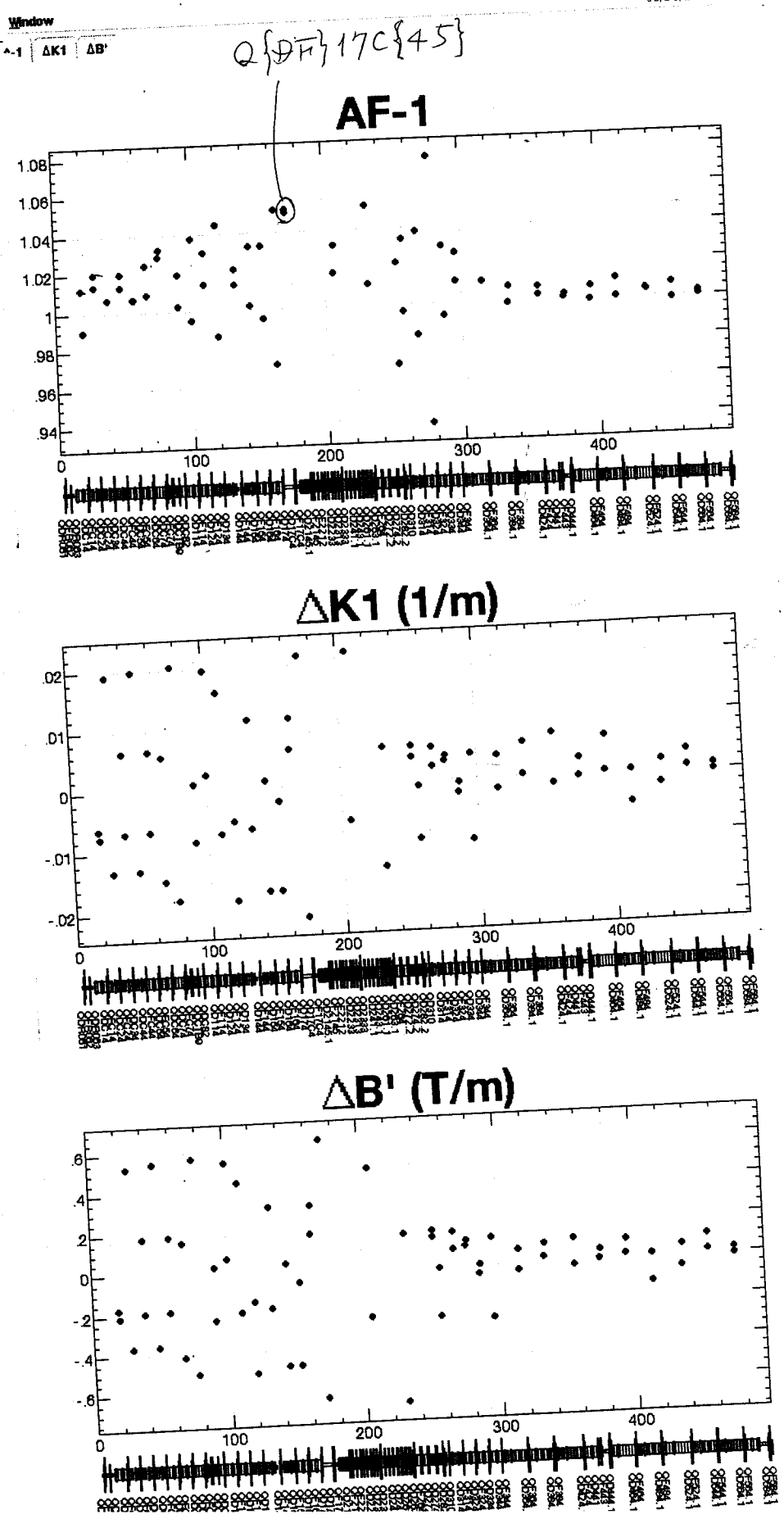
average
x y xy
Read SPDATA
Plot
Set ref

EPS
Show
Set
Clear

1.7Tで

測定した
fedge factor

EPS = 0.05



左見の Fudge Factor を Set.　Solenoid off のまま。

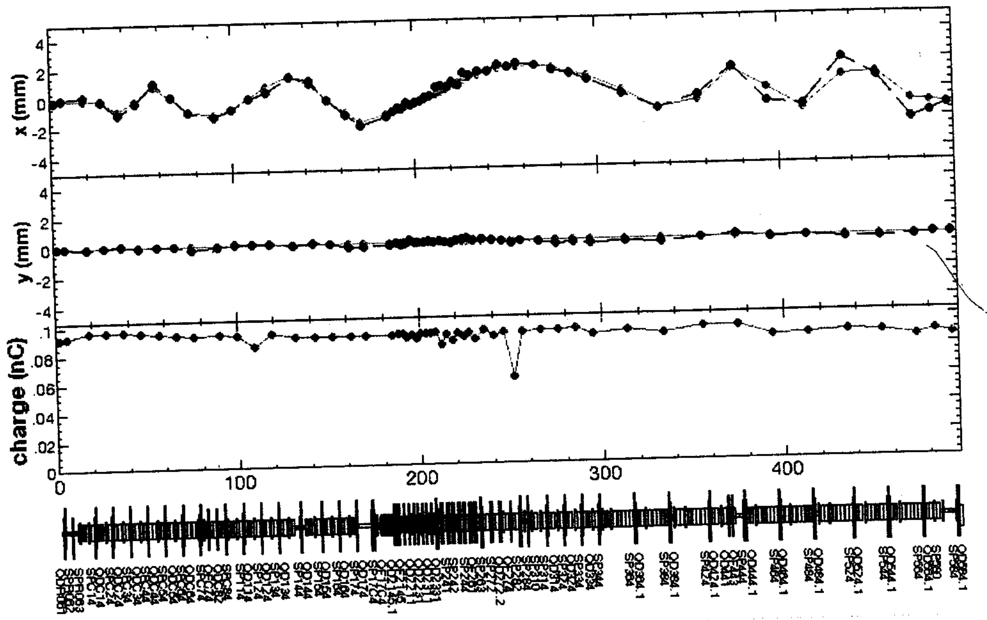
~~17:03~~ ~~6:50~~ 再測定。

05/30/2008 17:04:56

XC31
-1.5A
+1.5A

File　Edit　Window

Orbit　AF^-1　ΔK1　ΔB'



Read Optics
s1(m) 0
s2(m) 500
Set ref
Clear ref
Plot orbit
File sxc31_1f.dat

Steering SX_C3_1
Read
I(A) 1.5
ΔI(A) -1.5
Set

Steering(X) SXC31
K0 1E-4
Set　Clear
Steering(Y) SYC11
K0 7E-5
Set　Clear

Select Q
QDC14
QFC14
QDC24
QFC24
QDC34
QFC34
QDC44
QFC44
QDC54
QFC54

K1 0
AF 1
Set ref
Set

average
x　y　◆ xy
Read SPDATA
Plot
Set ref

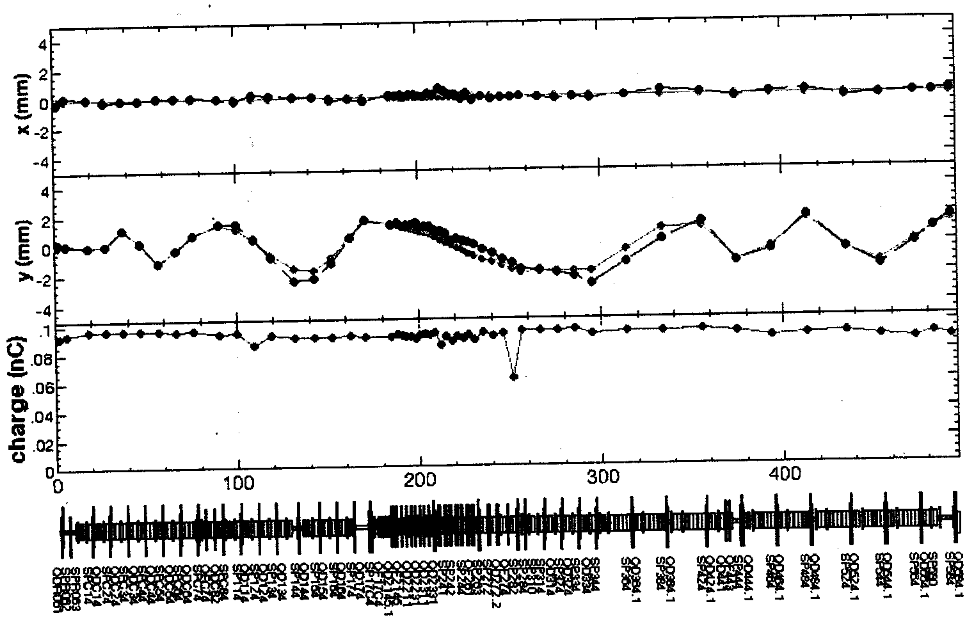
EPS
Cal
Show F
Set Fi
Clear F

05/30/2008 17:17:20

SYC31
-2A
+2A

File　Edit　Window

Orbit　AF^-1　ΔK1　ΔB'



Read Optics
s1(m) 0
s2(m) 500
Set ref
Clear ref
Plot orbit
File syc31_2f.dat

Steering SY_C3_1
Read
I(A) 2
ΔI(A) 0
Set

Steering(X) SXC31
K0 -1E-4
Set　Clear
Steering(Y) SYC31
K0 -1.4E-4
Set　Clear

Select Q
QDC14
QFC14
QDC24
QFC24
QDC34
QFC34
QDC44
QFC44
QDC54
QFC54

K1 0
AF 1
Set ref
Set

average
x　y　◆ xy
Read SPDATA
Plot
Set ref

EPS
Cal
Show I
Set Fi
Clear F

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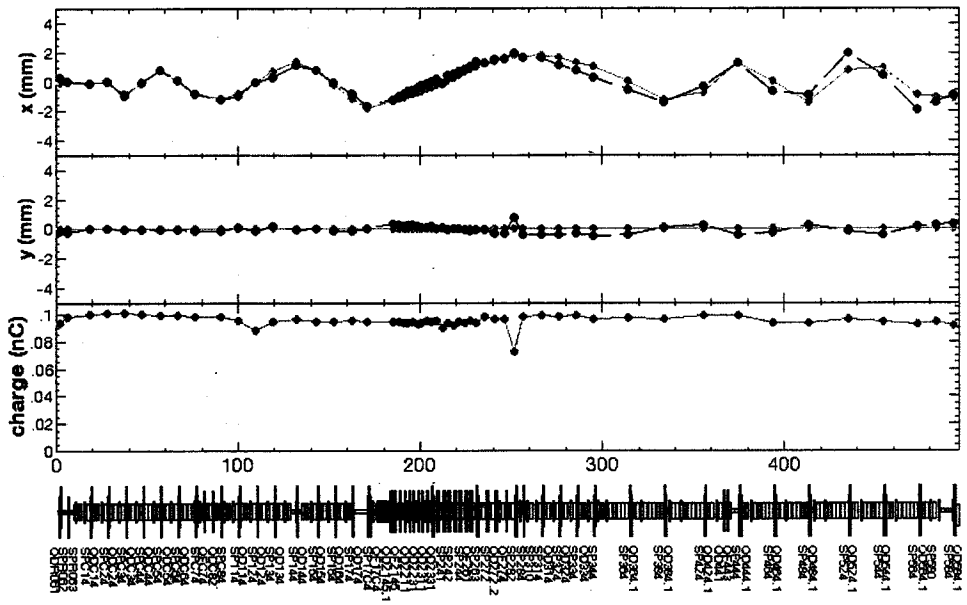
Solenoid On で再測定

SXC31

File Edit Window

05/30/2008 17:32:27

Orbit AF^-1 ΔK1 ΔB'



Read Optics
s1(m) 0
s2(m) 500
Set ref
Clear ref
Plot orbit
File sxc31_1fs.dat

Steering SX_C3_1
Read
I(A) 1.5
ΔI(A) 0
Set

Steering(X) SXC31
K0 .1E-4
Set Clear

Steering(Y) SYC11
K0 7E-5
Set Clear

Select Q
QDC14
QFC14
QDC24
QFC24
QDC34
QFC34
QDC44
QFC44
QDC54
QFC54

K1 0
AF 1
Set ref
Set

average
x y xy EPS
Read SPDATA
Plot
Set ref

Ad
Ca
Show
Set F
Clear

05/30/2008 17:34:00

SYC31

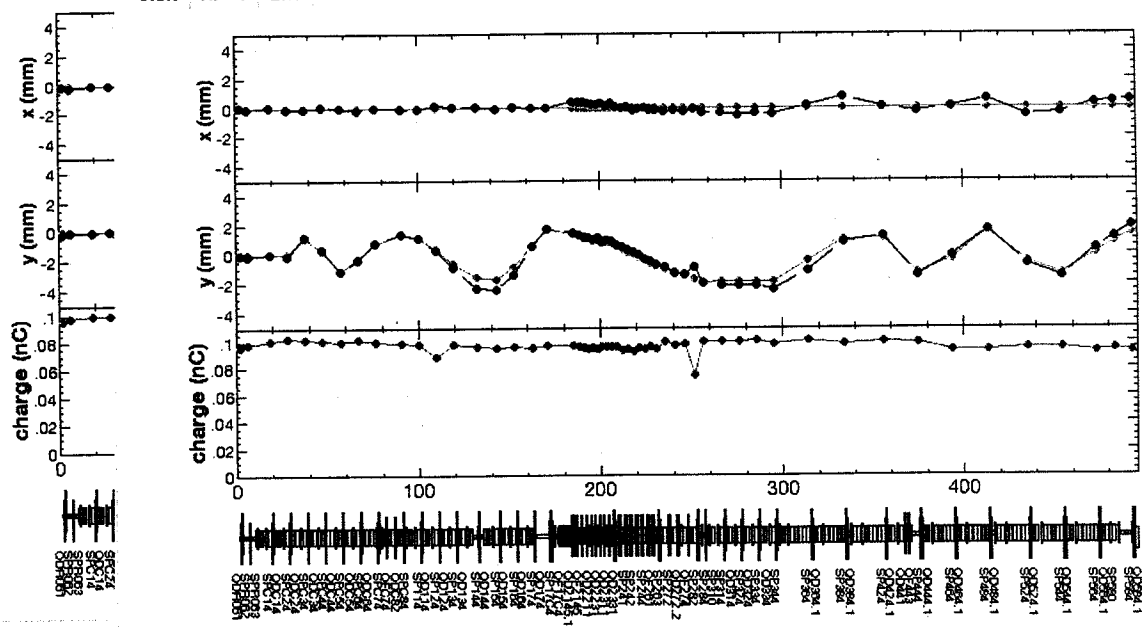
File Edit Window

Orbit AF^-1 ΔK

05/30/2008 17:35:03

File Edit Window

Orbit AF^-1 ΔK1 ΔB'



Read Optics
s1(m) 0
s2(m) 500
Set ref
Clear ref
Plot orbit
File sxc31_1fs.dat

Read Optics
s1(m) 0
s2(m) 500
Set ref
Clear ref
Plot orbit
File sxc31_1fs.dat

Steering SY_C3_1
Read
I(A) 2
ΔI(A) 0
Set

Steering(X) SXC31
K0 1E-4
Set Clear

Steering(Y) SYC31
K0 -1.4E-4
Set Clear

Select Q
QDC14
QFC14
QDC24
QFC24
QDC34
QFC34
QDC44
QFC44
QDC54
QFC54

K1 0
AF 1
Set ref
Set

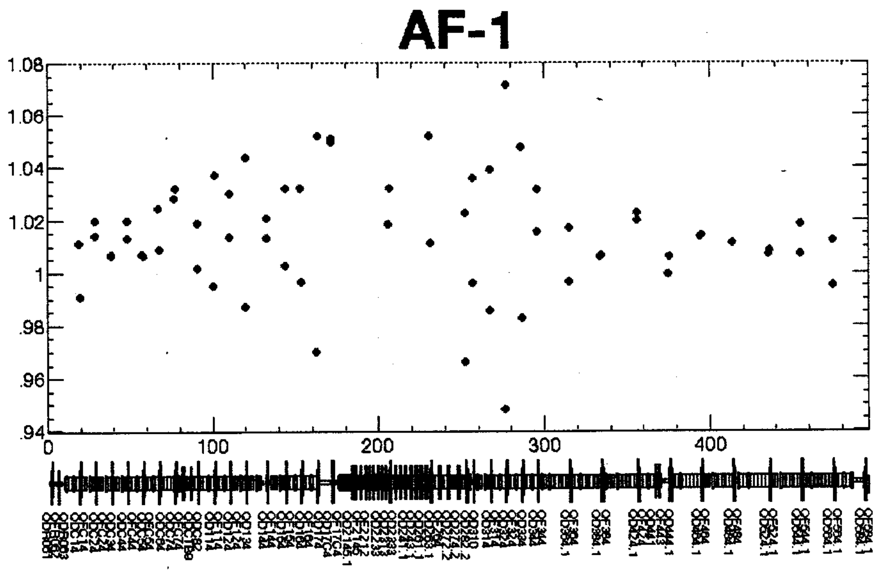
average
x y xy EPS
Read SPDATA
Plot
Set ref

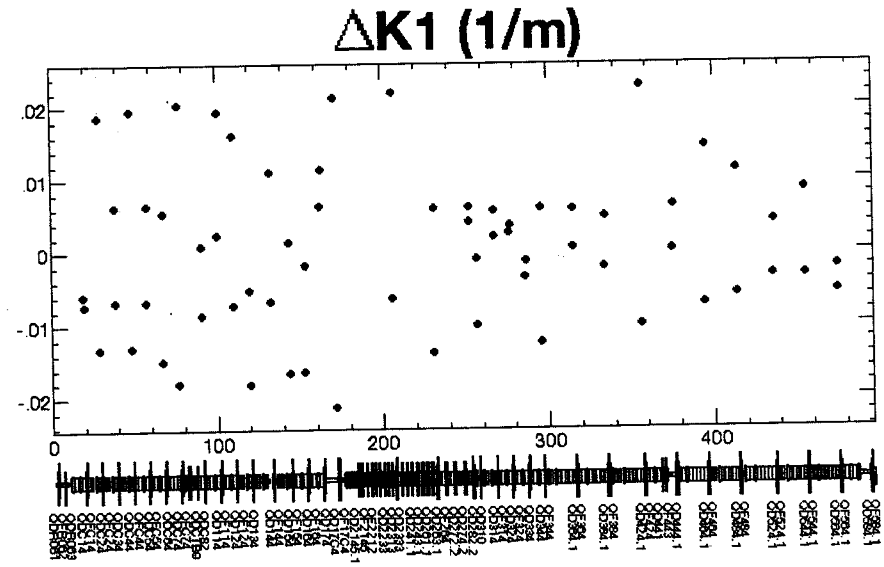
Show
Set
Clear

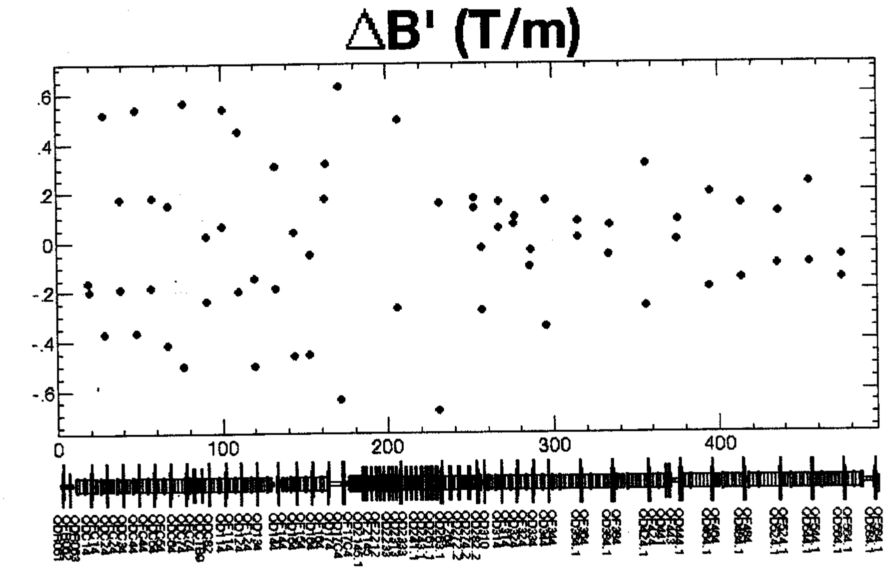
179 Solenoid 下流 (BX下流384 / SX下流413 の Kick data を追加して fit させている)

Window 05/30/2003 17:47:11

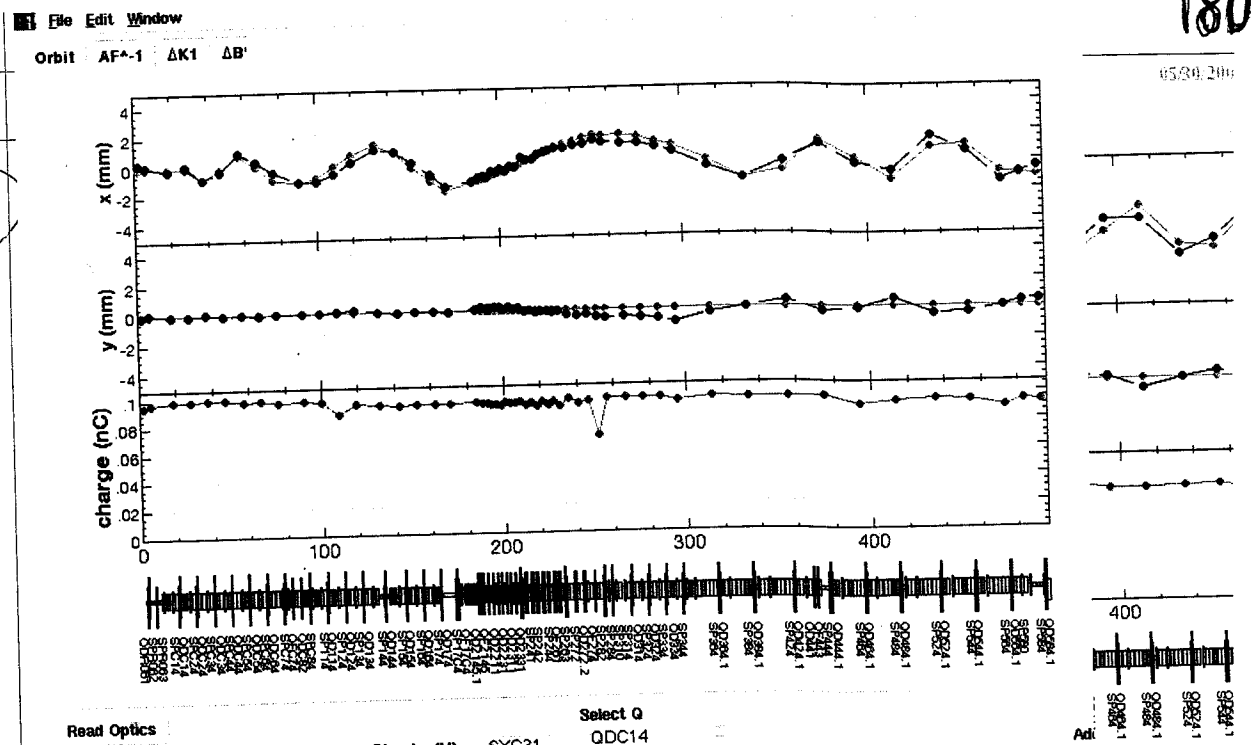
AF-1 ΔK1 ΔB'



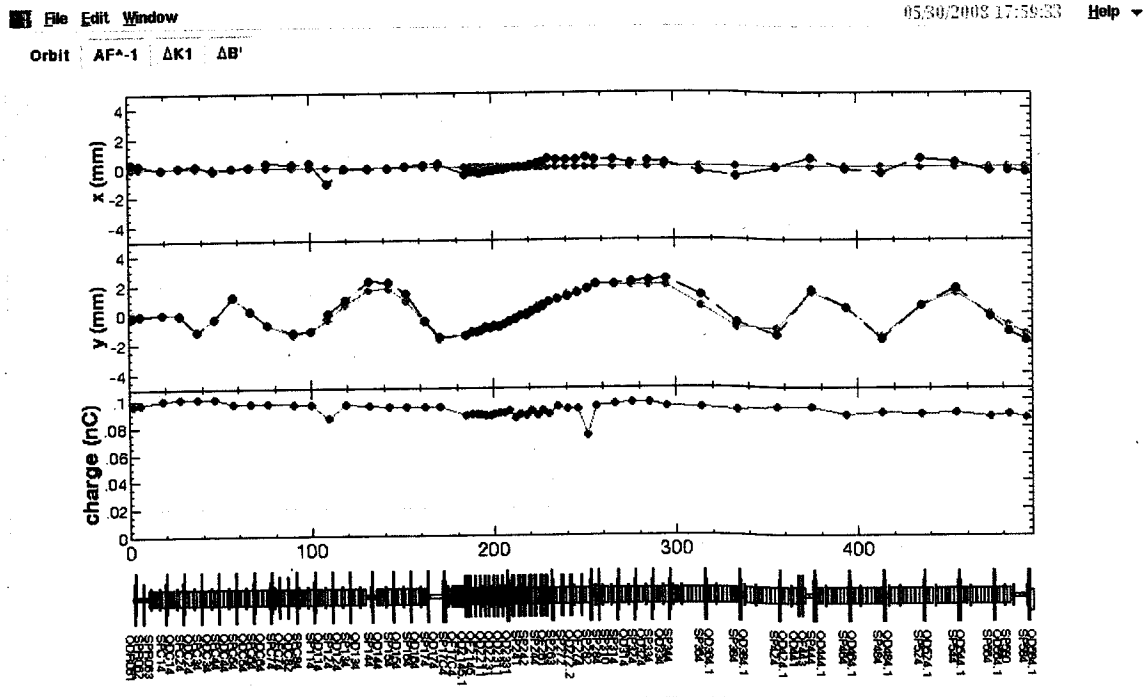




SXC31


File Edit Window
Orbit AF^-1 ΔK1 ΔB'
x (mm)
y (mm)
charge (nC)
Read Optics
s1(m) 0
s2(m) 500
Set ref
Clear ref
Plot orbit
File temp.dat
Steering SX_C3_1
Read
I(A) 1.5
ΔI(A) 0
Set
Steering(X) SXC31
K0 1E-4
Set Clear
Steering(Y) SYC11
K0 7E-5
Set Clear
ΔI(A)
Select Q
QDC14
QFC14
QDC24
QFC24
QDC34
QFC34
QDC44
QFC44
QDC54
QFC54
K1 0
AF 1
Set ref
Set
average
x y xy
Read SPDATA
Plot
Set ref
EPS
Cal
Show F
Set F
Clear F
average
x y
Read SPDAT
Plot
Set
7E-5 QDC44
05/30/2008 17:59:33
Help

SYC31

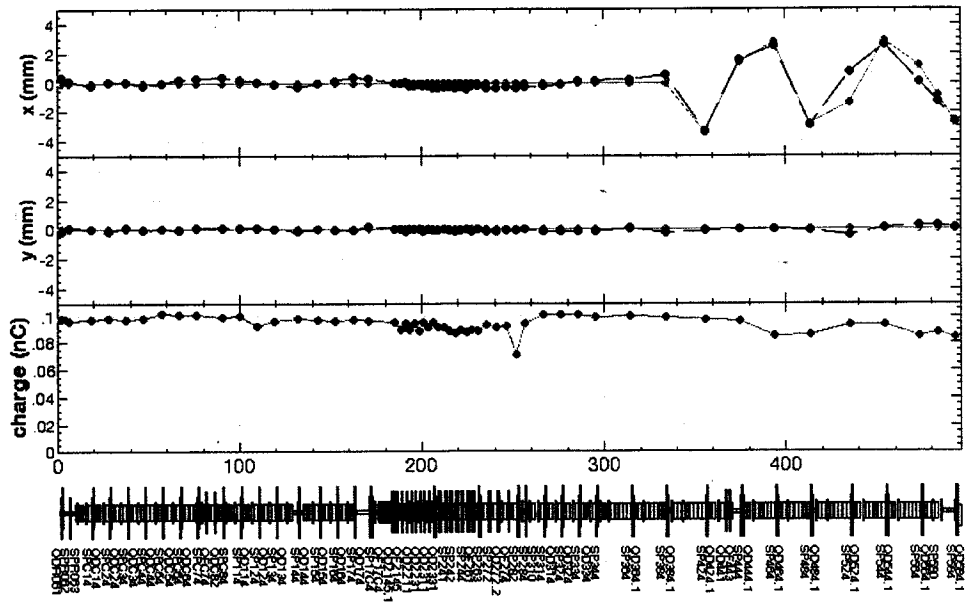

File Edit Window
Orbit AF^-1 ΔK1 ΔB'
x (mm)
y (mm)
charge (nC)
Read Optics
s1(m) 0
s2(m) 500
Set ref
Clear ref
Plot orbit
File syc31_1ff.dat
Write DATA
Steering SY_C3_1
Read
I(A) -2
ΔI(A) 0
Set
Steering(X) SXC31
K0 -1.2E-4
Set Clear
Steering(Y) SYC31
K0 1.4E-4
Set Clear
Select Q
QDC14
QFC14
QDC24
QFC24
QDC34
QFC34
QDC44
QFC44
QDC54
QFC54
K1 0
AF 1
Set ref
Set
average
x y xy
Read SPDATA
Plot
Set ref
Add
EPS .03
Calc
Show Fudge
Set Fudge
Clear Fudge
Orbit Response on localhost:12.0

181

BX_38_4

File Edit Window 05/30/2008 13:02:49 Help

Orbit AF^-1 ΔK1 ΔB'



Read Optics
s1(m) 0
s2(m) 500
Set ref
Clear ref
Plot orbit
File bx384_1ff.dat

Steering BX_38_4
Read
I(A) -.324
ΔI(A) -.25
Set

Steering(X) BX384
K0 1.8E-4
Set Clear

Steering(Y) SYC31
K0 -1.4E-4
Set Clear

Select Q
QDC14
QFC14
QDC24
QFC24
QDC34
QFC34
QDC44
QFC44
QDC54
QFC54

K1 0
AF 1
Set ref
Set

average
x y xy
Read SPDATA
Plot
Set ref

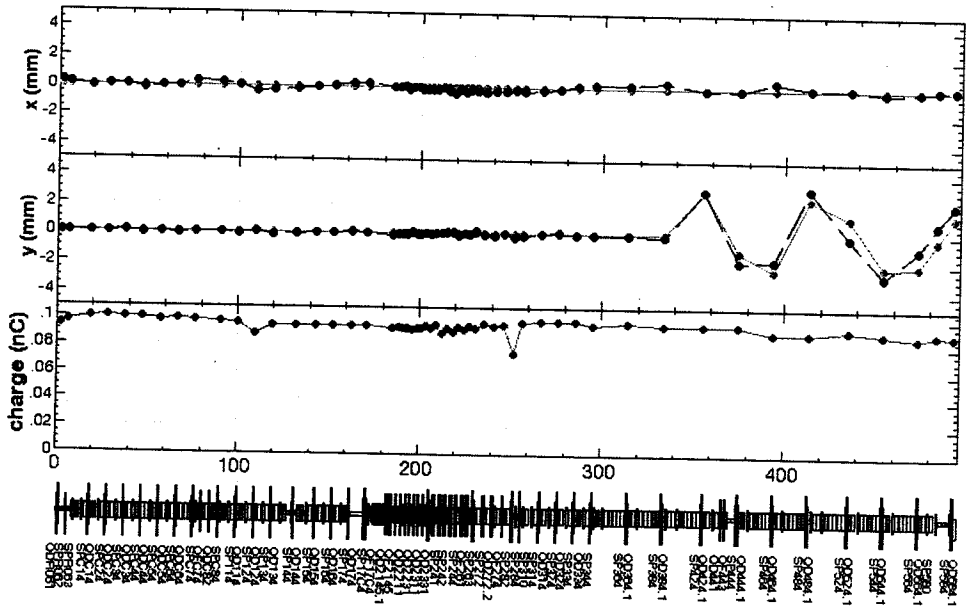
Add
EPS .03
Calc
Show Fudge
Set Fudge
Clear Fudge

BY_38_4

le Edit Window Help

it AF^-1 ΔK1 ΔB'

05/30/2008 13:10:02 Help



ıl Optics
0
500
ıet ref
ear ref
ot orbit
384_2ff.dat
le DATA

Steering BY_38_4
Read
I(A) -.049
ΔI(A) .25
Set

Steering(X) BX384
K0 1.6E-4
Set Clear

Steering(Y) BY384
K0 -1.6E-4
Set Clear

Select Q
QDC14
QFC14
QDC24
QFC24
QDC34
QFC34
QDC44
QFC44
QDC54
QFC54

K1 0
AF 1
Set ref
Set

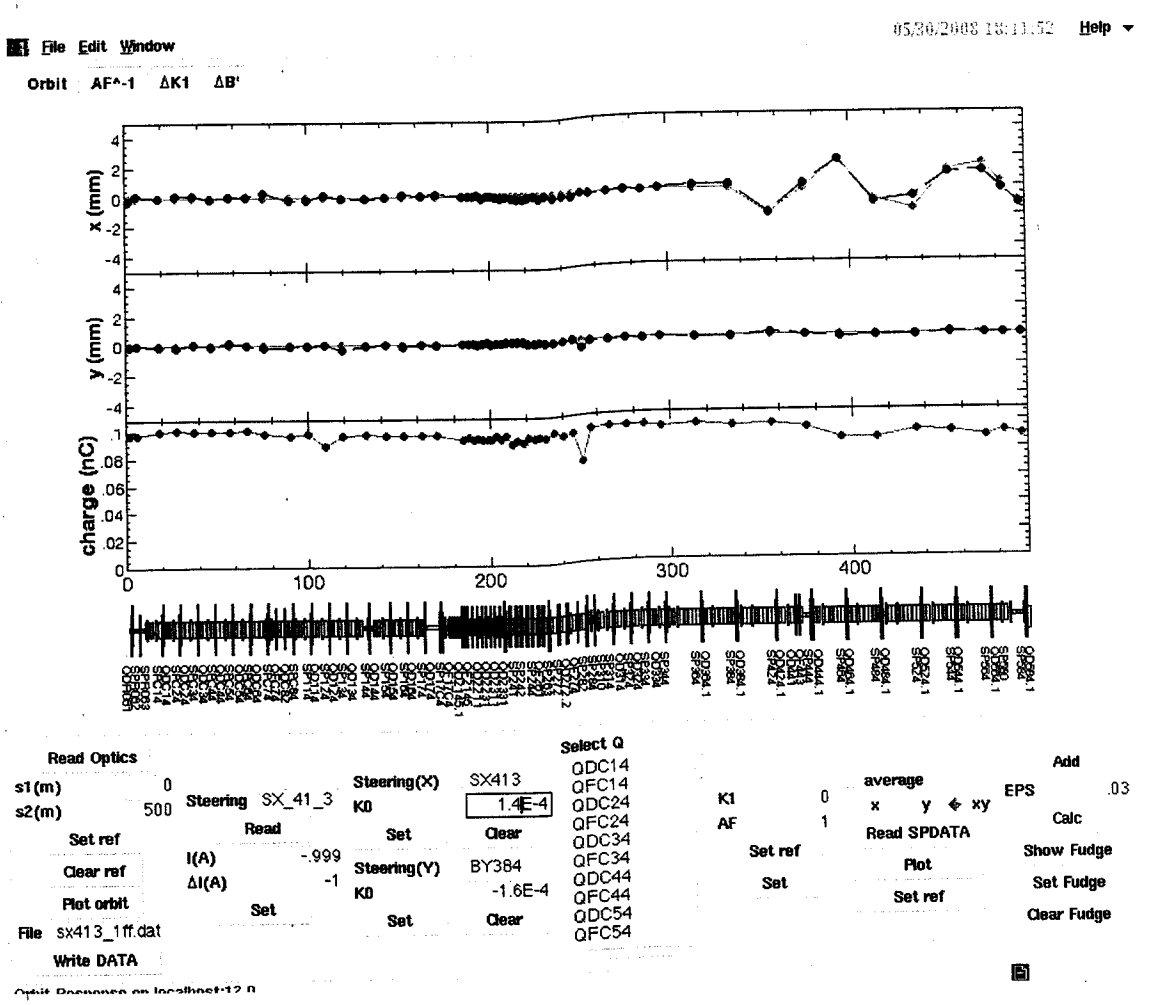
average
x y xy
Read SPDATA
Plot
Set ref

Add
EPS .03
Calc
Show Fudge
Set Fudge
Clear Fudge

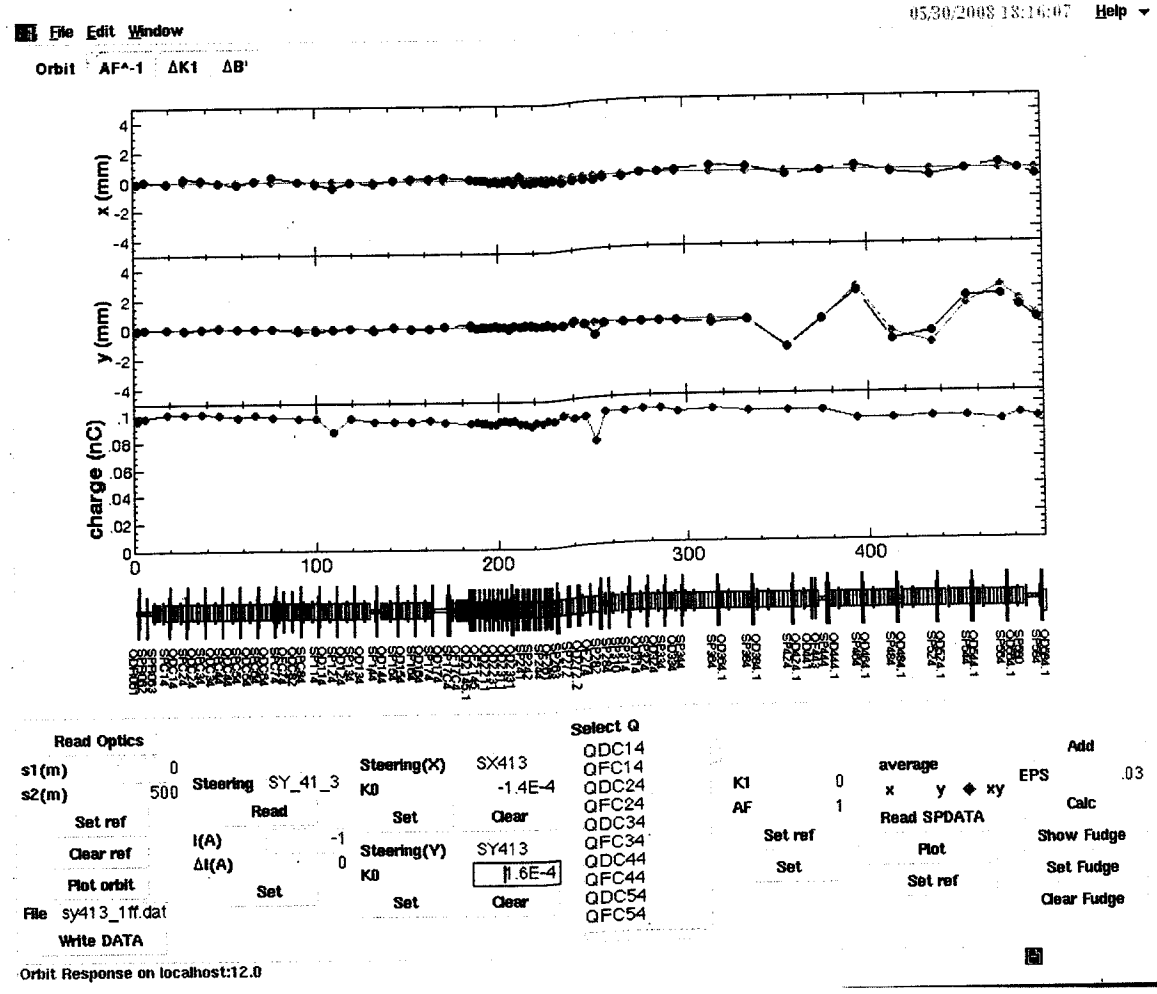
Add
.03
Calc
w Fudge
t Fudge
ar Fudge

iponse on localhost:12.0

SX_41_3


05/30/2008 18:11:52
Help
File Edit Window
Orbit AF^-1 ΔK1 ΔB'
x (mm)
y (mm)
charge (nC)
0 100 200 300 400
Read Optics
s1(m) 0
s2(m) 500
Set ref
Clear ref
Plot orbit
File sx413_1ff.dat
Write DATA
Steering SX_41_3
Read
I(A) -.999
ΔI(A) -1
Set
Steering(X) SX413
K0 1.4E-4
Set Clear
Steering(Y) BY384
K0 -1.6E-4
Set Clear
Select Q
QDC14
QFC14
QDC24
QFC24
QDC34
QFC34
QDC44
QFC44
QDC54
QFC54
K1 0
AF 1
Set ref
Set
average
x y xy
Read SPDATA
Plot
Set ref
Add
EPS .03
Calc
Show Fudge
Set Fudge
Clear Fudge

SY_41_3


05/30/2008 18:16:07
Help
File Edit Window
Orbit AF^-1 ΔK1 ΔB'
x (mm)
y (mm)
charge (nC)
0 100 200 300 400
Read Optics
s1(m) 0
s2(m) 500
Set ref
Clear ref
Plot orbit
File sy413_1ff.dat
Write DATA
Steering SY_41_3
Read
I(A) -1
ΔI(A) 0
Set
Steering(X) SX413
K0 -1.4E-4
Set Clear
Steering(Y) SY413
K0 1.6E-4
Set Clear
Select Q
QDC14
QFC14
QDC24
QFC24
QDC34
QFC34
QDC44
QFC44
QDC54
QFC54
K1 0
AF 1
Set ref
Set
average
x y xy
Read SPDATA
Plot
Set ref
Add
EPS .03
Calc
Show Fudge
Set Fudge
Clear Fudge
Orbit Response on localhost:12.0

183

2008/6/5
15:24

E = 8 GeV で energy 調整.

SB_2 の調整. Crest phase の設定.

Overall timing の測定

	現在値	First 最適値	Second 最適値	設定すべき値	現在値との差
OVERALL_C	50893	50839	50931.9	50885.45	-7.55
OVERALL_1	72819	72842	72939	72890.5	71.5
OVERALL_2	72785	72692	72791	72741.5	-43.5
OVERALL_3	72733	72678			
OVERALL_4	72845				
OVERALL_5	72875				

! delay last0qfe.delay.all (2008/06/05 21:52:48

!NAME	PF last0qfe	KEKB current	diff
OVERALL_A	49062	49065	3
OVERALL_B	49093	49097	4
OVERALL_C	50884	50893	9
OVERALL_1	72890	72819	-71
OVERALL_2	72759	72785	26
OVERALL_3	72707	72733	26
OVERALL_4	72819	72845	26

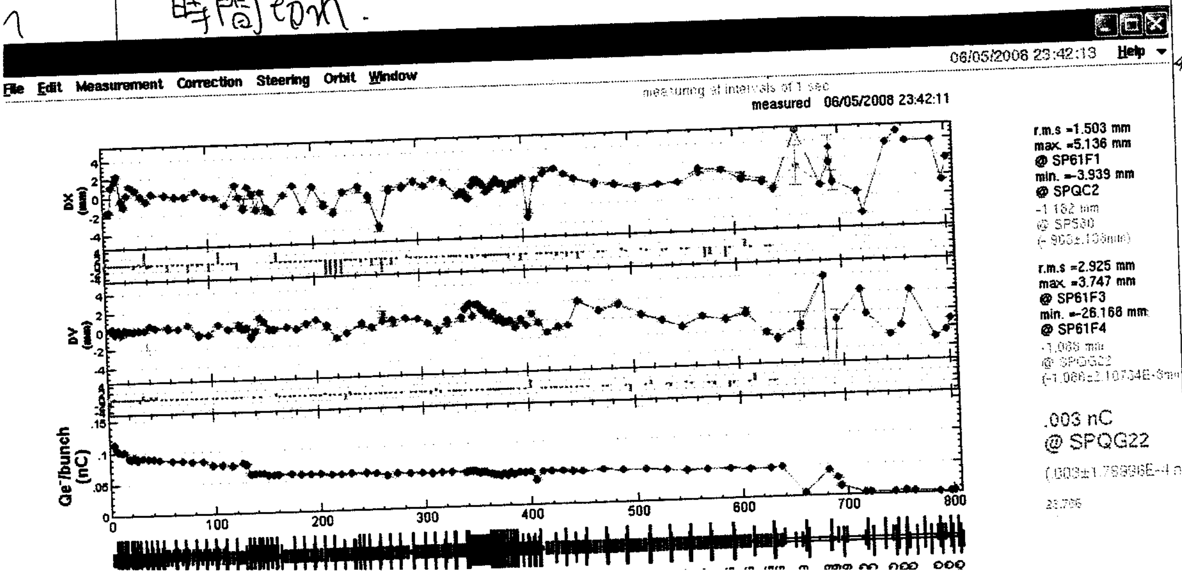
KEKB モードで beam を出して. energy (1st-bunch) を
SC_61_A2 上で define した。

この状態で 3rd-Grid Pulser から 0.1nC ビームを出す。
(モード切替で Gun以外は切替わらないようにした)

Gun の timing を調整しないと (ライナック含めての) ビーム ロスが大きい

SC_61_A2 上で energy spread 大きい
~~2nd バンチのせい~~

時間切れ.



← KEKB e- パラメータで 3rd Grid Pulser からのビーム. (Grid delay 調整後)