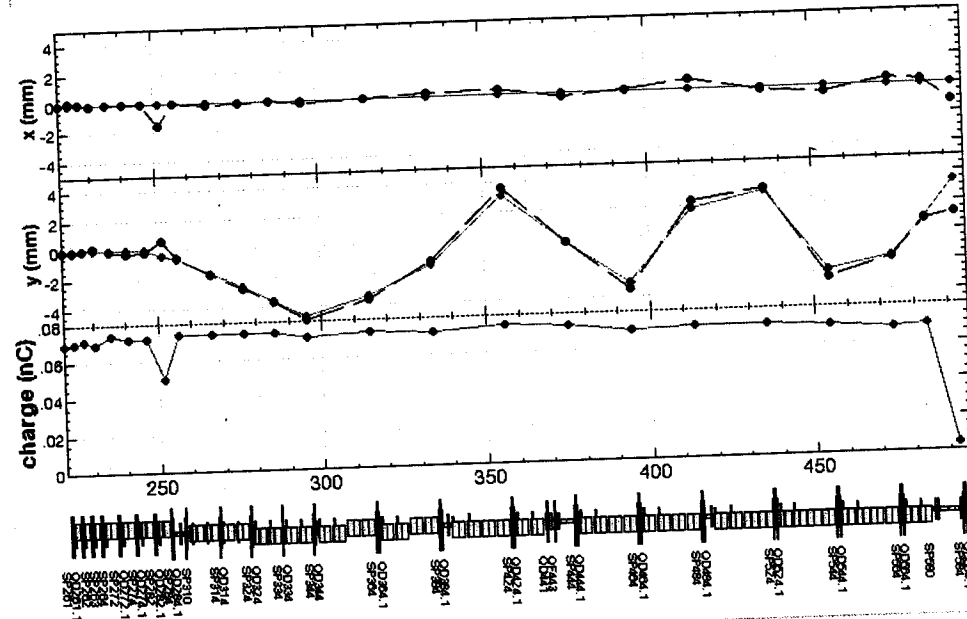


Edit Window

AF-1



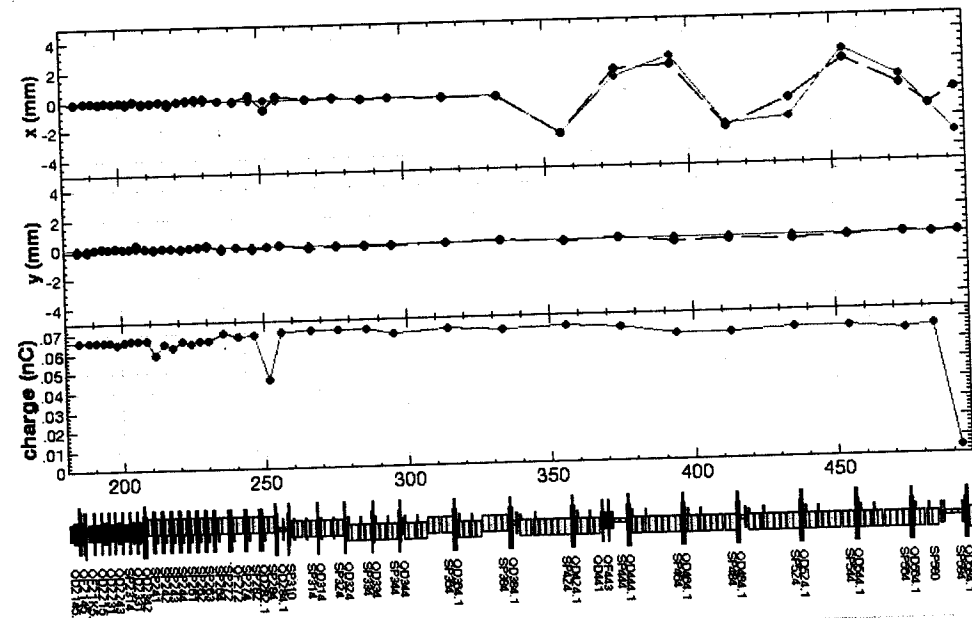
File sy283_1.dat

ad Optics	Steering(X) SX264	Select Q	K1	0	Write SPDATA	Add
1) 220	K0	0	AF	1	average	EPS .1
1) 500	Set	QDC24	Set ref	Set	x y ◆ xy	Calc
Set ref	Steering(Y) SY283	QFC24			Read SPDATA	Show All
Clear ref	K0	QFC34			Plot	Show ΔK
Hot orbit	Set	QDC44			Set ref	

file is /mnt/hadatala/users/onishi/cvs-work/LCG/SAD/Library/single-kick/syc11_2.dat

Edit Window

AF-1

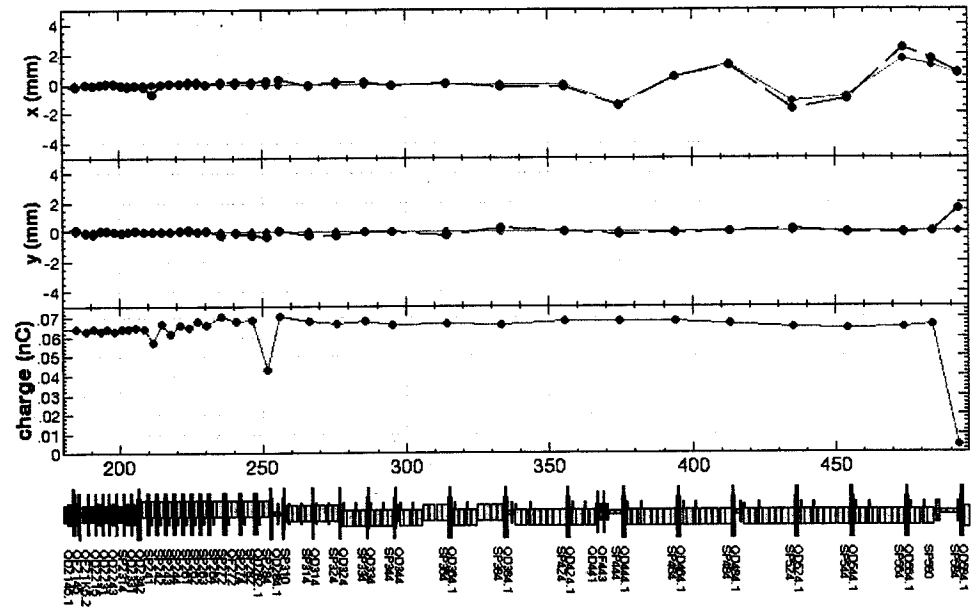


File bx384_1.dat

Optics	Steering(X) BX384	Select Q	K1	0	Write SPDATA	Add
180	K0	1.4E-4	AF	1	average	EPS .1
500	Set	QDC24	Set ref	Set	x y ◆ xy	Calc
Set ref	Steering(Y) BY384	QFC24			Read SPDATA	Show All
Clear ref	K0	QFC34			Plot	Show ΔK
Hot orbit	Set	QDC44			Set ref	

file is /mnt/hadatala/users/onishi/cvs-work/LCG/SAD/Library/single-kick/syc11_2.dat

Orbit AFA-1



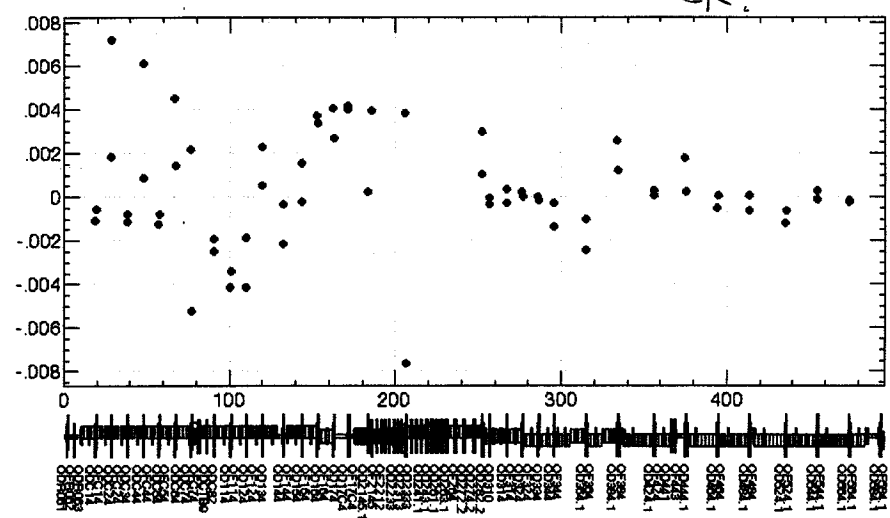
Read Optics		Steering(X) SX431	Select Q	File sx431_1.dat	Write SPDATA	Add
s1(m)	180	K0	9E-5	QDC24	average	EPS .1
s2(m)	500	Set		QFC24	x y xy	Calc
Set ref		Steering(Y) SY431		QDC34	Read SPDATA	Show All
Clear ref		K0	0	QFC34	Plot	Show ΔK
Plot orbit		Set		QDC44	Set ref	
				QFC44		

Open file is /mnt/hadadata1/users/tonishi/cvs-work/LCG/SAD/Library/single-kick/sy273_2.dat

Orbit AFA-1

SVD 分解 in the Judge Factor

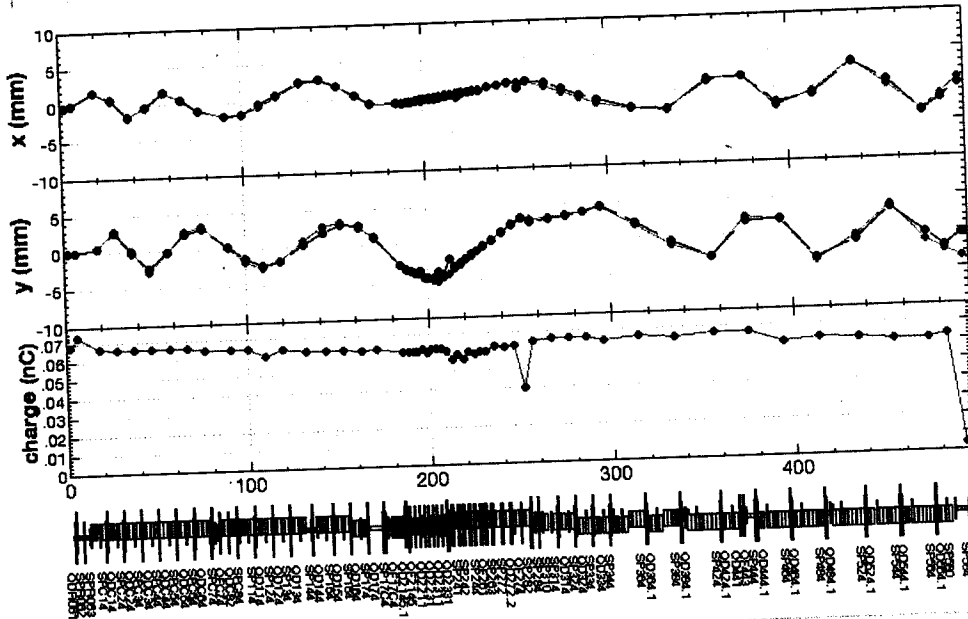
ΔK



Read Optics		Steering(X) SXC13	Select Q	File temp.dat	Write SPDATA	Add
s1(m)	0	K0	-5.013765	QD2343	average	EPS .03
s2(m)	500	Set		QF2343	x y xy	Calc
Set ref		Steering(Y) SYC13		QD241	Read SPDATA	Show All
Clear ref		K0	-1.545281	QF241	Plot	Show ΔK
Plot orbit		Set		QD242	Set ref	
				QF242		

File Edit Window

Orbit AF⁻¹

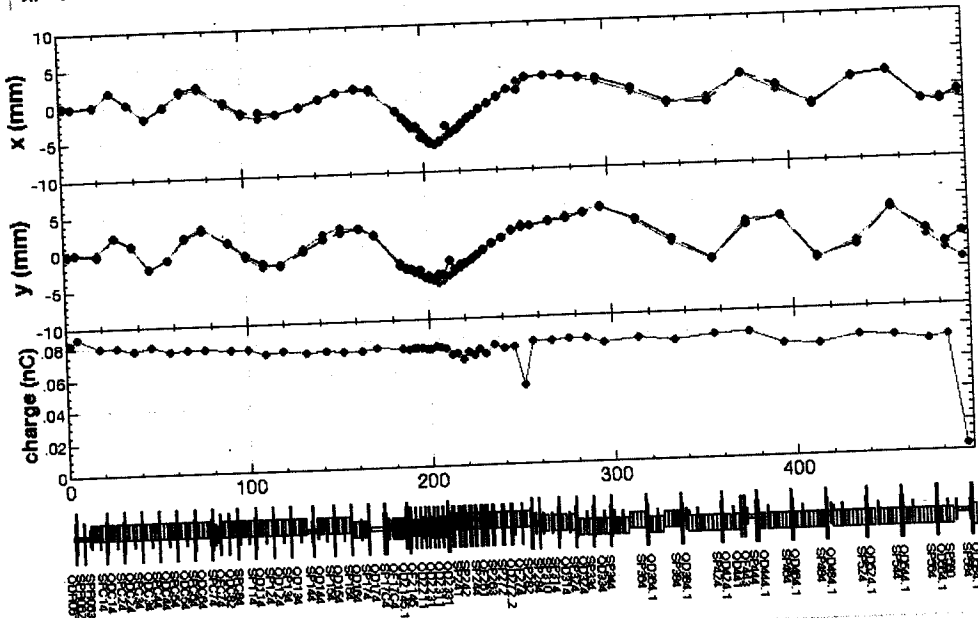


Read Optics	Steering(X) SXC13	Select Q	K1 -4195583	File temp.dat	Write SPDATA	Add
s1(m) 0	KD -5.013765	QD2343	AF 1.001	average	EPS .03	
s2(m) 500	Set	QF2343	Set ref	x y xy	Calc	
Set ref	Steering(Y) SYC13	QD241	Set	Read SPDATA	Show All	
Clear ref	KD -1.545281	QD242		Plot	Show ΔK	
Plot orbit	Set	QF242		Set ref		

Open file is /mnt/hadatala/users/onishi/cvs-work/LCG/SAD/Library/single-kick/20080522/sxc13_2.dat

File Edit Window

Orbit AF⁻¹



Read Optics	Steering(X) SXC21	Select Q	K1 -4195583	File temp.dat	Write SPDATA	Add
s1(m) 0	KD -2.506809	QD2343	AF 1.001	average	EPS .03	
s2(m) 500	Set	QF2343	Set ref	x y xy	Calc	
Set ref	Steering(Y) SYC21	QD241	Set	Read SPDATA	Show All	
Clear ref	KD -2.968217	QD242		Plot	Show ΔK	
Plot orbit	Set	QF242		Set ref		

工藤

Multi Energy Study

大西, 飯田, 軌道

08/5/24
19:00

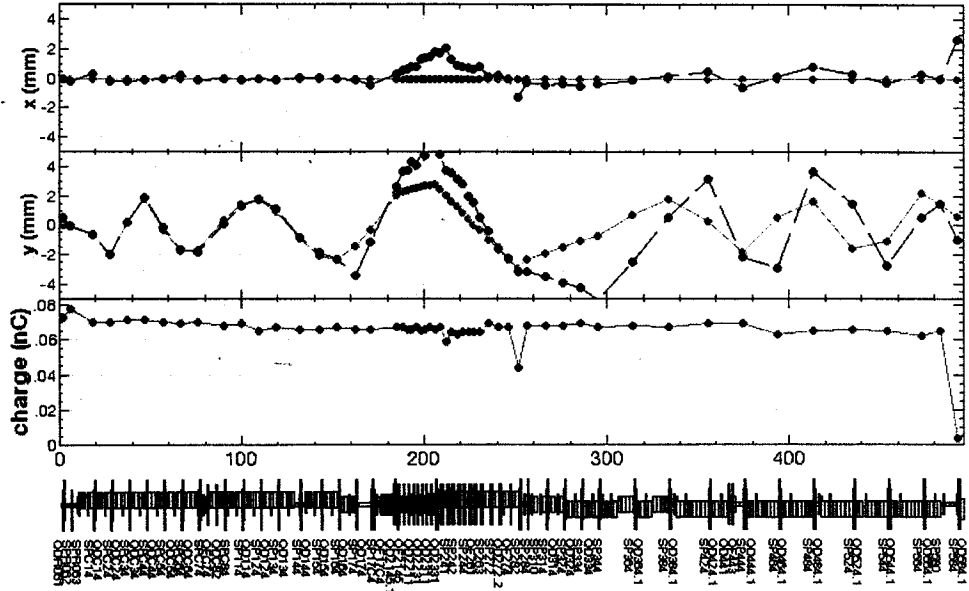
- 1. PF 2. fudge factor を set して 再測定
- 2. KEKB 7. 確認. (軽く)
- 3. PF Matching → PF 入射 (21:00)
- 4. KEKB (8GeV) 7. 軌道測定. (fudge factor)

SYC11
-IA

set して比較. 送数に500にしてT= (軌道 FBT をかきこむ)

File Edit Window 05/24/2008 19:18:02

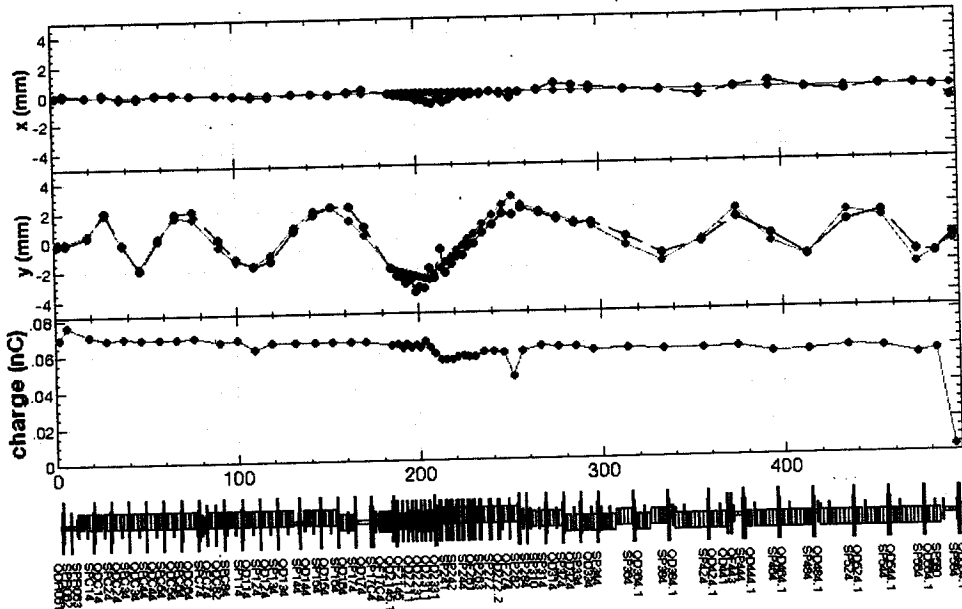
Orbit AFA-1 AK1 AB



Read Optics		Steering(X)		SXC11	Select Q		Add	
s1(m)	0	Set	Clear	7E-5	QDC14	QDC14	QDC24	QDC24
s2(m)	500	Set	Clear	7E-5	QDC24	QDC24	QDC34	QDC34
Set ref		Set	Clear	7E-5	QDC34	QDC34	QDC44	QDC44
Clear ref		Steering(Y)	Set	Clear	QDC44	QDC44	QDC54	QDC54
Plot orbit		Set	Clear		QDC54	QDC54	QFC54	QFC54
File	temp.dat							
Write DATA								

K1	0	average	EPS	.03
AF	1	x y xy	Calc	
Set ref		Read SPDATA	Show Fudge	
Set		Plot	Set Fudge	
		Set ref	Clear Fudge	

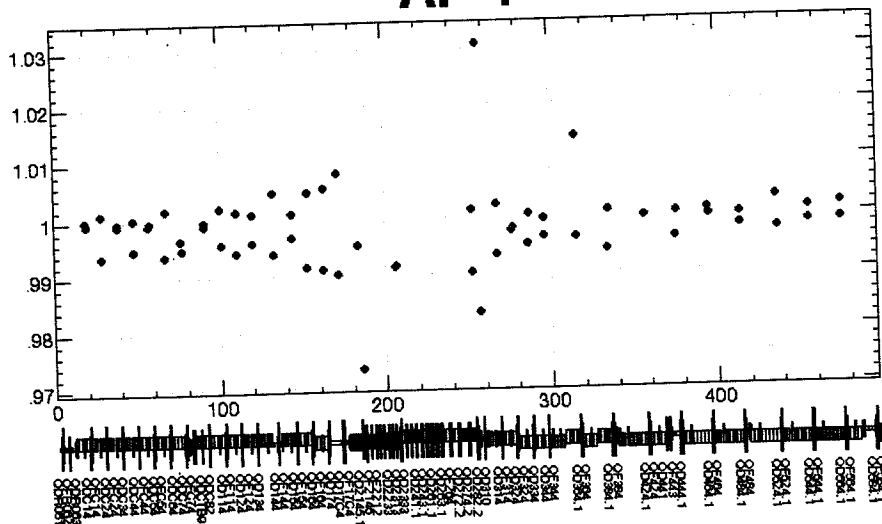
Q の設定にミスでは. 電流値の違ひが. わからない.

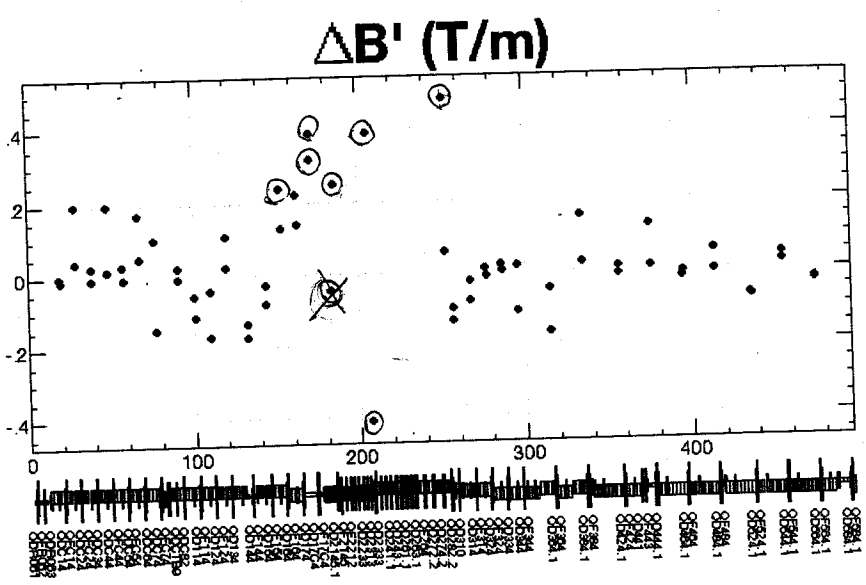
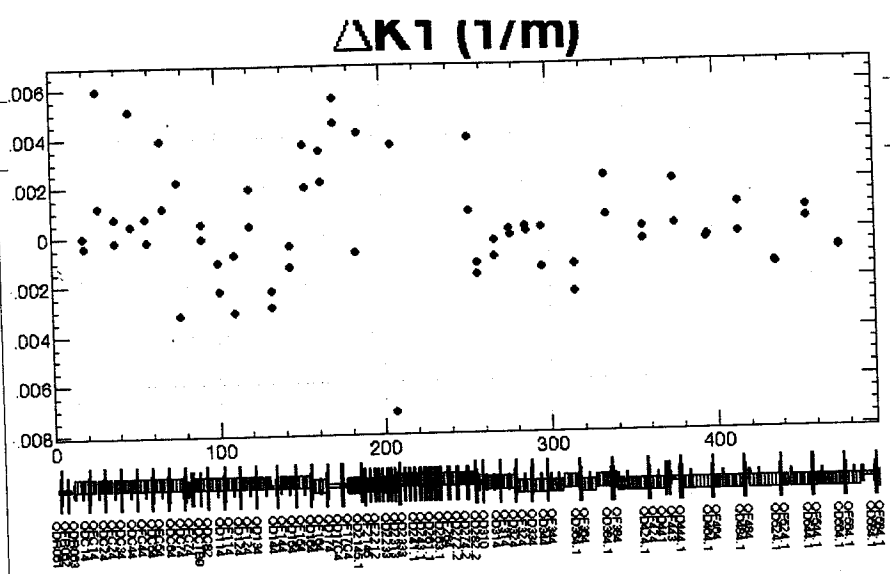


Read Optics		Steering(X)		SX242	Select Q		average		Add		
s1(m)	0	Set	Clear	7E-5	QD264	K1	-3999950	x	y	EPS	.03
s2(m)	500	Set ref	Set	Clear	QF264	AF	<input type="text" value="1"/>	Read SPDATA	Plot	Calc	
Clear ref		Steering(Y)	Set	Clear	QD272	Set ref		Set ref	Set ref	Show Fudge	
Plot orbit		K0	Set	Clear	QD274	Set				Set Fudge	
File	temp.dat				QD282					Clear Fudge	
Write DATA					QF284						

- 実際の QD284 の電流値 ~~を~~ ϵ 1% 大に set (TC).
- 前回測定した 6 キックの data を使って出した Fudge Tractor \downarrow

AF-1





Fudge Factor がうまく set できなかった。上の \odot は
~~手動で~~ 磁場を変えたところ

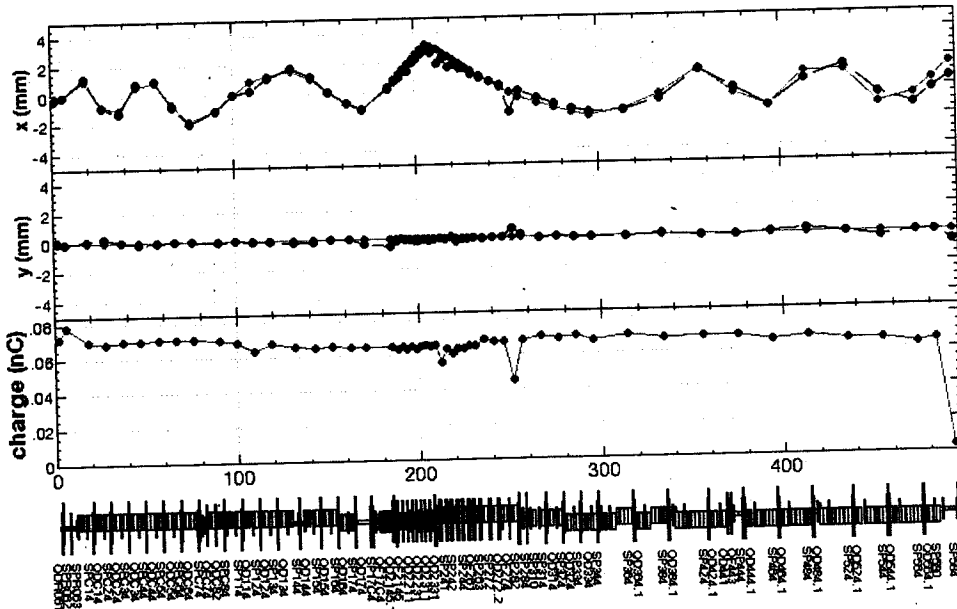
- QD17C4/C5 + 1%
- Q~~P~~17C4/C5 - 1%
- QD2343 + 1%
- QT2343 + 1%
- QD284 + 1%
- QD21K5 + 2.7%
- ~~QD310 - 3%~~
- QD164 + 1%

→ PF 入射 L₁₂.
 運転100x-9-12 save.

(Manual で fudge factor の種類を set)
 ☆ 互の fudge factor を file で set するのは BT: data 468.all \neq T
 set 32x

File Edit Window

Orbit AFA-1 ΔK1 ΔB'

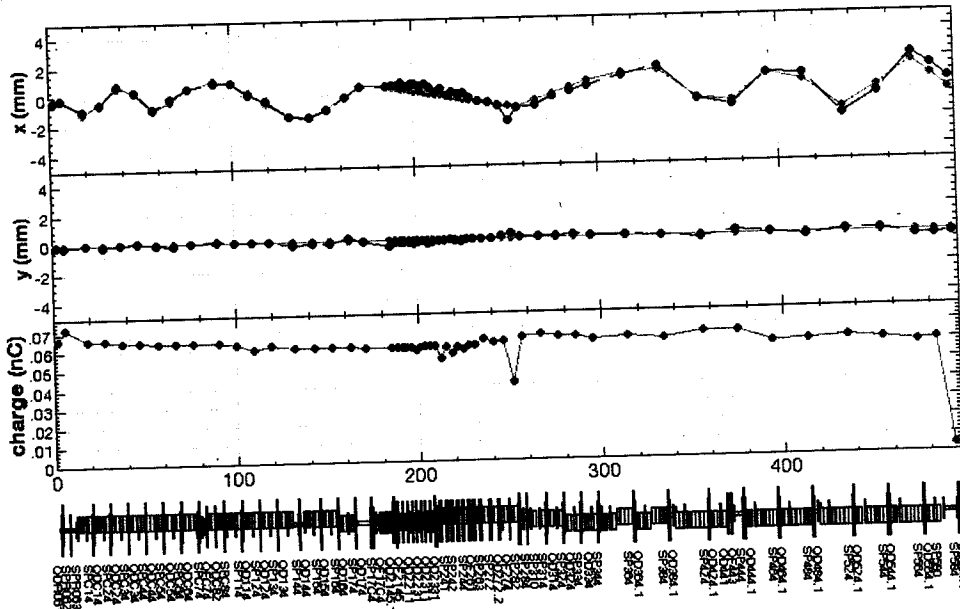


Read Optics		Steering(X)		Select Q		Add	
s1(m)	0	K0	SXC11	QDC14	0	average	EPS .03
s2(m)	500	Set ref	-1.35E-4	QFC14	1	x y xy	Calc
Set ref	Set	Clear	Clear	QDC24	AF	Read SPDATA	Show Fudge
Clear ref	Steering(Y)	Set ref	Clear	QDC34	Set	Plot	Set Fudge
Plot orbit	K0	Set	Clear	QDC44	Set ref	Set ref	Clear Fudge
File temp.dat	Set	Clear	Clear	QFC34			
Write DATA				QDC44			
				QFC44			
				QDC54			
				QFC54			

Orbit Response on localhost:13.0

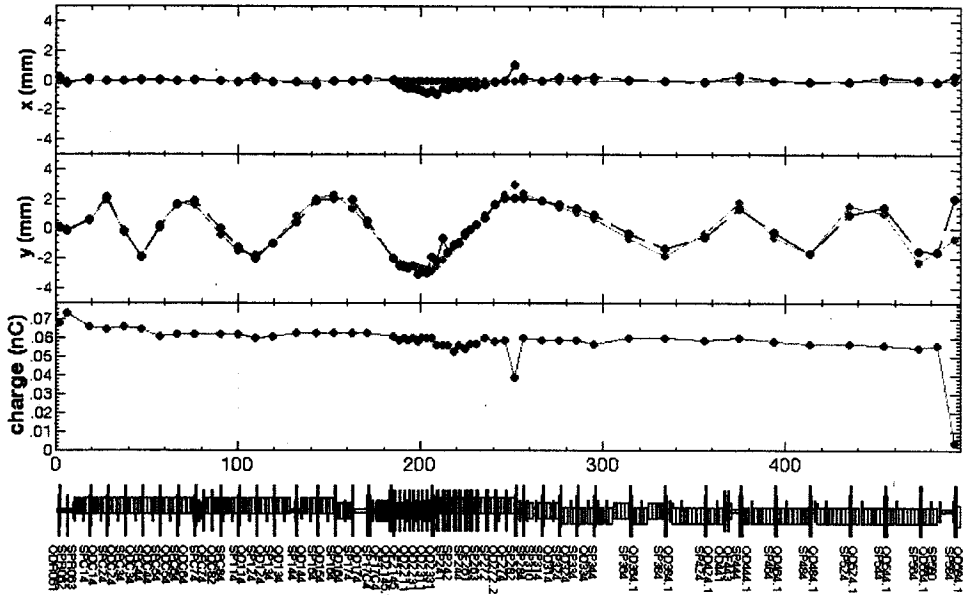
File Edit Window

Orbit AFA-1 ΔK1 ΔB'



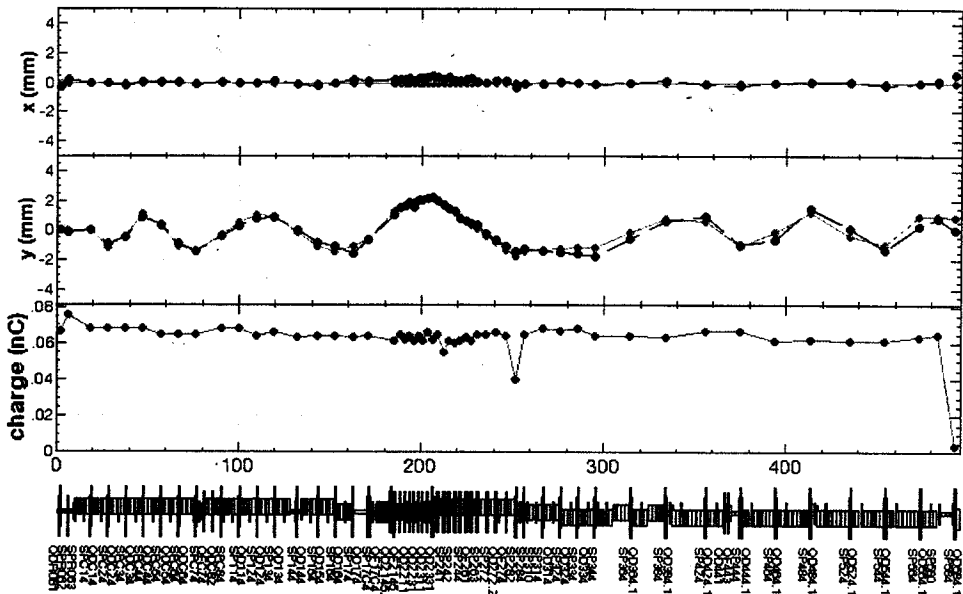
Read Optics		Steering(X)		Select Q		Add	
s1(m)	0	K0	SXC13	QDC14	0	average	EPS .03
s2(m)	500	Set ref	3E-4	QFC14	1	x y xy	Calc
Set ref	Set	Clear	Clear	QDC24	AF	Read SPDATA	Show Fudge
Clear ref	Steering(Y)	Set ref	Clear	QDC34	Set	Plot	Set Fudge
Plot orbit	K0	Set	Clear	QDC44	Set ref	Set ref	Clear Fudge
File temp.dat	Set	Clear	Clear	QFC34			
Write DATA				QDC44			
				QFC44			
				QDC54			
				QFC54			

Orbit AFA-1 ΔK1 ΔB'



Read Optics		Select Q		average		Add
s1(m)	0 Steering(X)	SX242	QDC14	K1	0	EPS .03
s2(m)	500 KD	7E-5	QFC14	AF	1	Calc
Set ref	Set	Clear	QFC24	Set ref	Set	Show Fudge
Clear ref	Steering(Y)	SYC11	QDC34	Set	Set	Set Fudge
Plot orbit	KD	-7E-5	QFC34	Set ref	Set	Clear Fudge
File temp.dat	Set	Clear	QDC44	Set	Set	
Write DATA			QFC44			
			QDC54			
			QFC54			

Orbit AFA-1 ΔK1 ΔB'



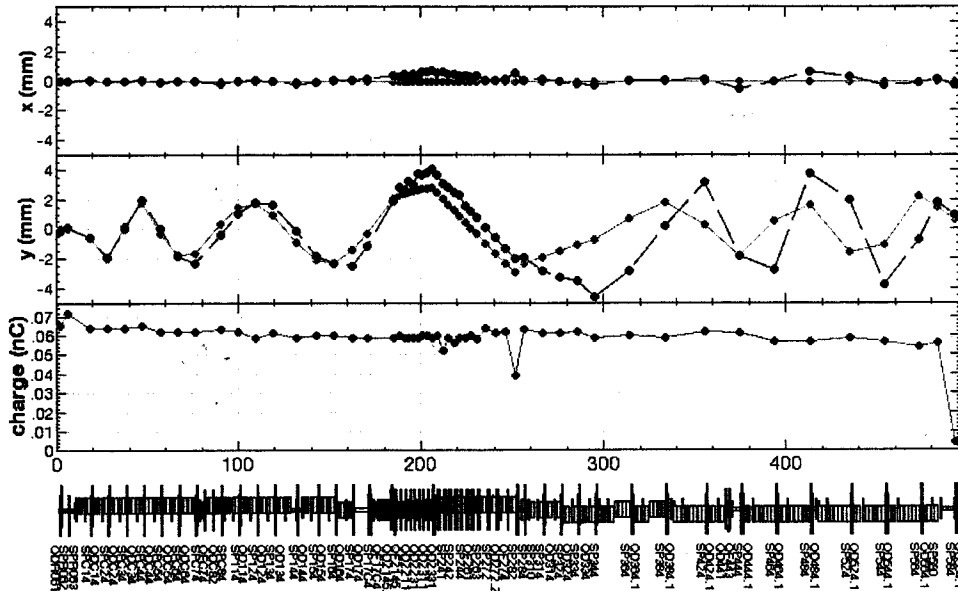
Read Optics		Select Q		average		Add
s1(m)	0 Steering(X)	SX242	QDC14	K1	0	EPS .03
s2(m)	500 KD	7E-5	QFC14	AF	1	Calc
Set ref	Set	Clear	QFC24	Set ref	Set	Show Fudge
Clear ref	Steering(Y)	SYC21	QDC34	Set	Set	Set Fudge
Plot orbit	KD	1.5E-4	QFC34	Set ref	Set	Clear Fudge
File temp.dat	Set	Clear	QDC44	Set	Set	
Write DATA			QFC44			
			QDC54			
			QFC54			

Orbit Response on localhost:13.0

既収. 良レ程

② 大西に依りて design を set
 fudge factor の file 等 を 反映して 電流値 の set 等 して
 (5/22 の 計算) 12129

Orbit AFA-1 ΔK1 ΔB'

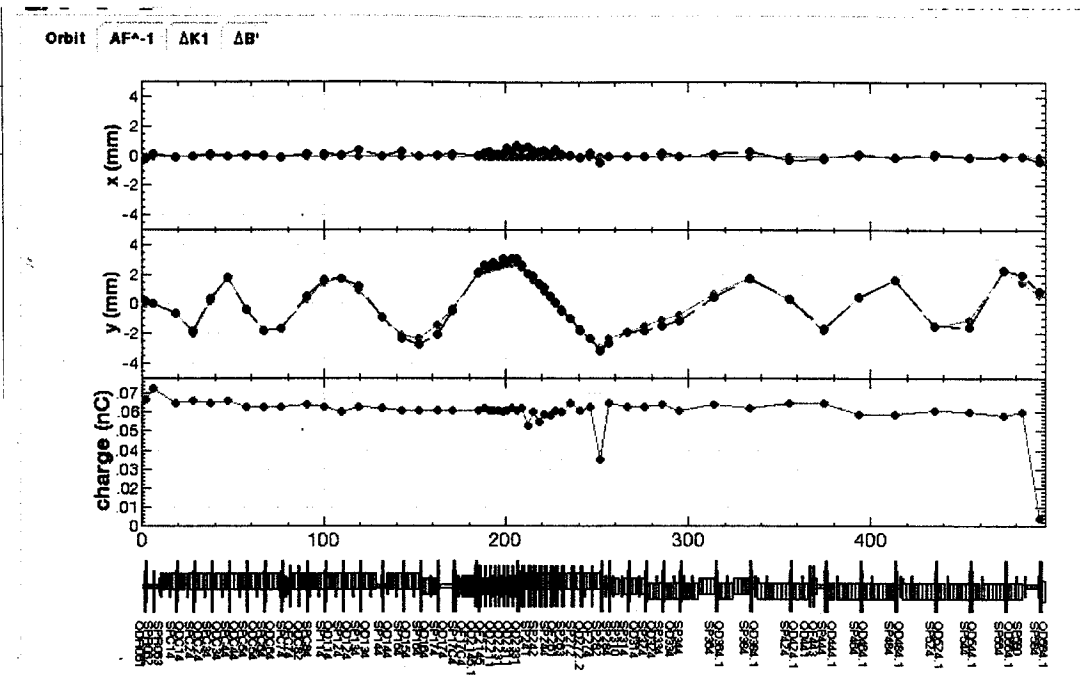


Read Optics		Steering(X)		SXC13	Select Q		average		Add		
s1(m)	0	K0	0	QDC14	K1	0	x	y	xy	EPS	.03
s2(m)	500	Set ref	Set	Clear	AF	1	Read SPDATA		Calc		
		Clear ref	Steering(Y)	SYC11	Set ref		Plot		Show Fudge		
		Plot orbit	K0	7E-5	Set		Set ref		Set Fudge		
File	temp.dat	Set	Clear	QDC24			Clear Fudge				
				QDC34							
				QDC44							
				QDC44							
				QDC54							
				QFC54							
Write DATA											

↑しかし、定義が、逆である!

22:42

逆数の fudge factor を set 可。



Read Optics		Steering(X)		SX242	Select Q		average		Add		
s1(m)	0	K0	7E-5	QDC14	K1	0	x	y	xy	EPS	03
s2(m)	500	Set ref	Set	QFC14	AF	1	Read SPDATA	Plot	Set ref	Calc	
Clear ref		Steering(Y)	SYC11	QDC24	Set					Show Fudge	
Plot orbit		K0	7E-5	QDC34						Set Fudge	
File temp.dat		Set	Clear	QDC44						Clear Fudge	
				QFC44							
				QDC54							
				QFC54							

QD284 Set (B') Panel (B') x.f.f. current
 49.1217 49.611 →
 $\times 1.01$

○ B' の f.f. の orbit には
 ○ LO の f.f. の 逆数 本来 1.01 程度
 → 0.99 と fill には
 数値は 1.01

- 一旦 f.f. を 1 に clear して
- Pf の 運転パラメータ には
 f.f. が 反映 1.01 程度 set する