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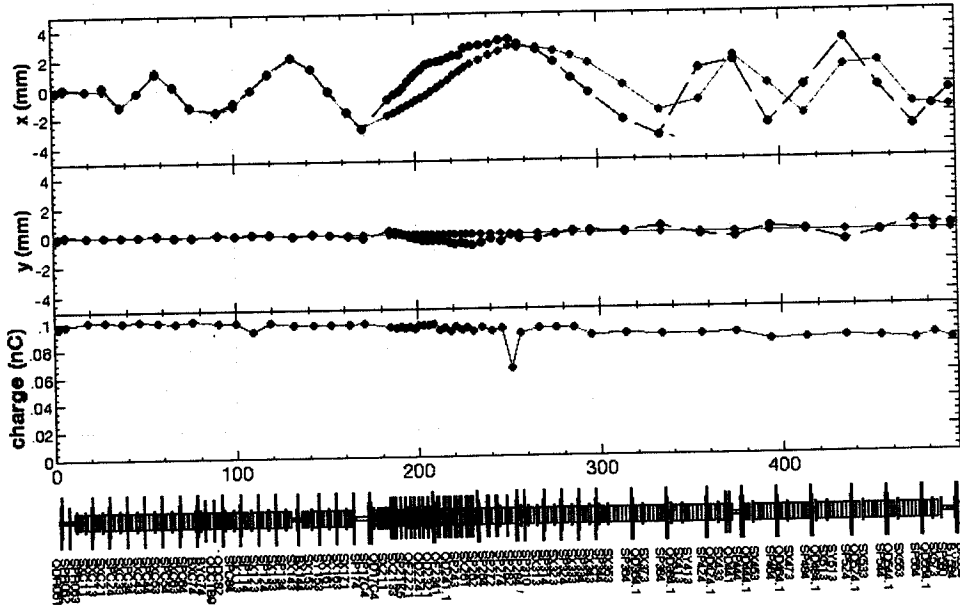
05/30/2008 13:43:49

File Edit Window

Orbit AFA-1 ΔK1 ΔB'

ノW1K2.
175 # n3?

SXC31



Read Optics

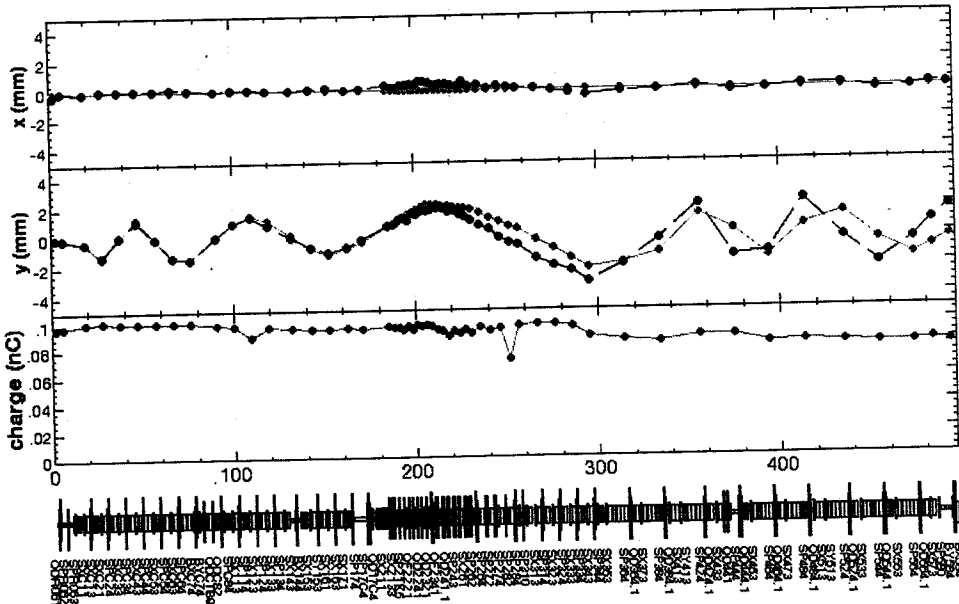
s1(m)	0	Steering SX_CS_1	Steering(X)	SXC31	Select Q		
s2(m)	500	Read	K0	1.5E-4	QDC14	average	Ad
Set ref		Set	Clear		QFC14	x y ◆ xy	EPS
Clear ref	I(A)	1	Steering(Y)	SYC11	QDC24	Read SPDATA	Ca
Plot orbit	ΔI(A)	-1	K0	-4E-5	QDC34	Plot	Show
File	sxc13_1.dat	Set	Set	Clear	QDC44	Set ref	Set F
					QFC44	Set	Clear
					QDC54		
					QFC54		

05/30/2008 13:38:11

File Edit Window

Orbit AFA-1 ΔK1 ΔB'

SYC11

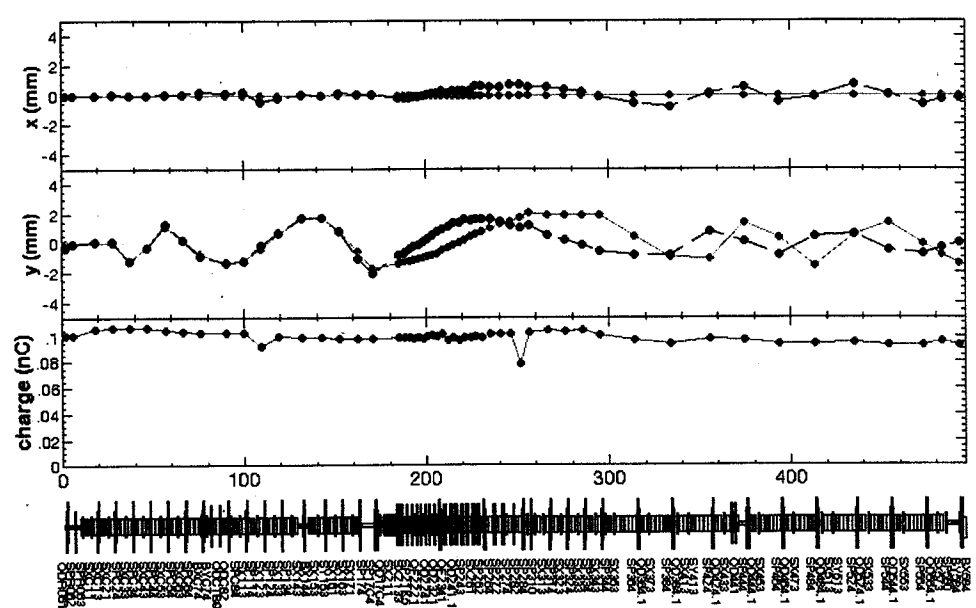


Read Optics

s1(m)	0	Steering SY_C1_1	Steering(X)	SYC11	Select Q		
s2(m)	500	Read	K0	-6E-5	QDC14	average	Add
Set ref		Set	Clear		QFC14	x y ◆ xy	EPS
Clear ref	I(A)	-499	Steering(Y)	SYC11	QDC24	Read SPDATA	Calc
Plot orbit	ΔI(A)	-5	K0	4E-5	QDC34	Plot	Show F
File	syc11_1.dat	Set	Set	Clear	QDC44	Set ref	Set Fu
					QFC44	Set	Clear F
					QDC54		
					QFC54		

SYC31

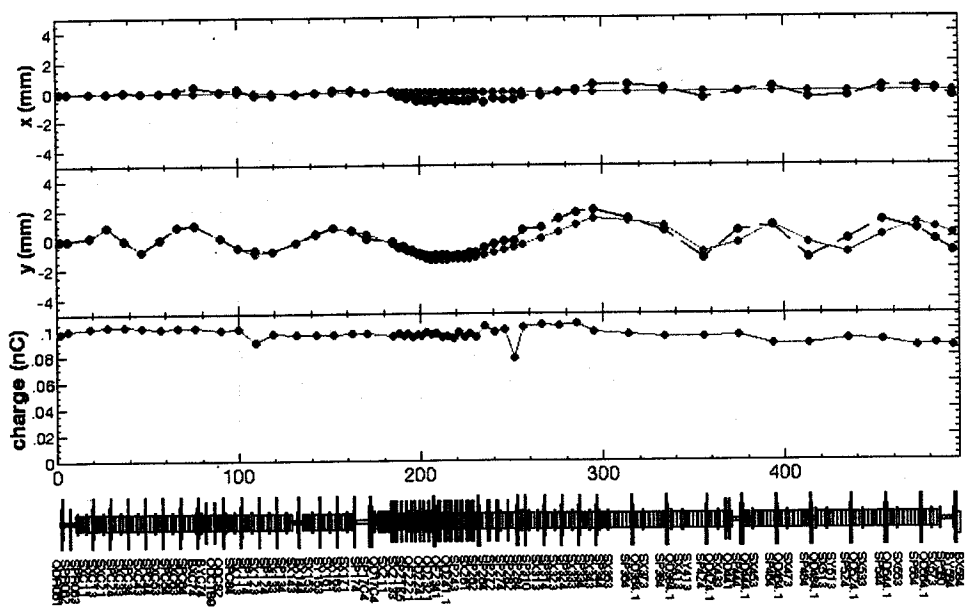
Orbit AF*-1 ΔK1 ΔB'



Read Optics		Steering		Select Q		average		Add		
s1(m)	0	Read	SY_C3_1	Steering(X)	SXC31	QDC14	x	y	xy	EPS
s2(m)	500	Set ref		K0	1.5E-4	QFC14	1			Calc
		Clear ref	I(A)	Set	Clear	QDC24	Set ref	Read SPDATA		Show F
		Plot orbit	ΔI(A)	Steering(Y)	SYC31	QFC34	Set	Plot		Set Fu
File	syc31_1.dat			K0	1.4E-4	QDC44		Set ref		Clear Fu
				Set	Clear	QFC54				

SYC13

Orbit AF*-1 ΔK1 ΔB'

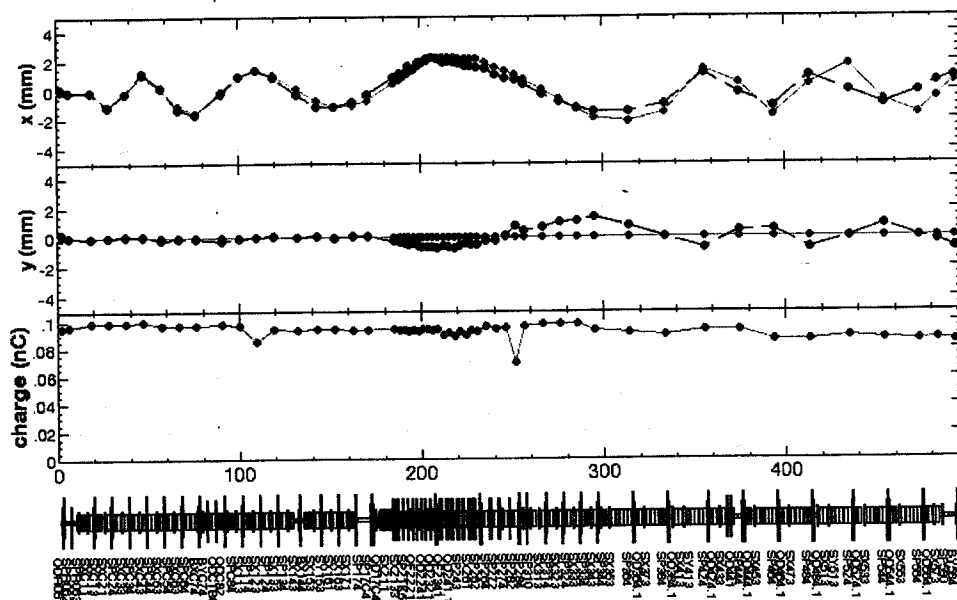


Read Optics		Steering		Select Q		average		Add		
s1(m)	0	Read	SY_C1_3	Steering(X)	SXC13	QDC14	x	y	xy	EPS
s2(m)	500	Set ref		K0	-1.3E-4	QFC14	1			Calc
		Clear ref	I(A)	Set	Clear	QDC24	Set ref	Read SPDATA		Show F
		Plot orbit	ΔI(A)	Steering(Y)	SYC13	QFC34	Set	Plot		Set Fu
File	syc13_2.dat			K0	-4E-5	QDC44		Set ref		Clear F
				Set	Clear	QFC54				

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SXC21

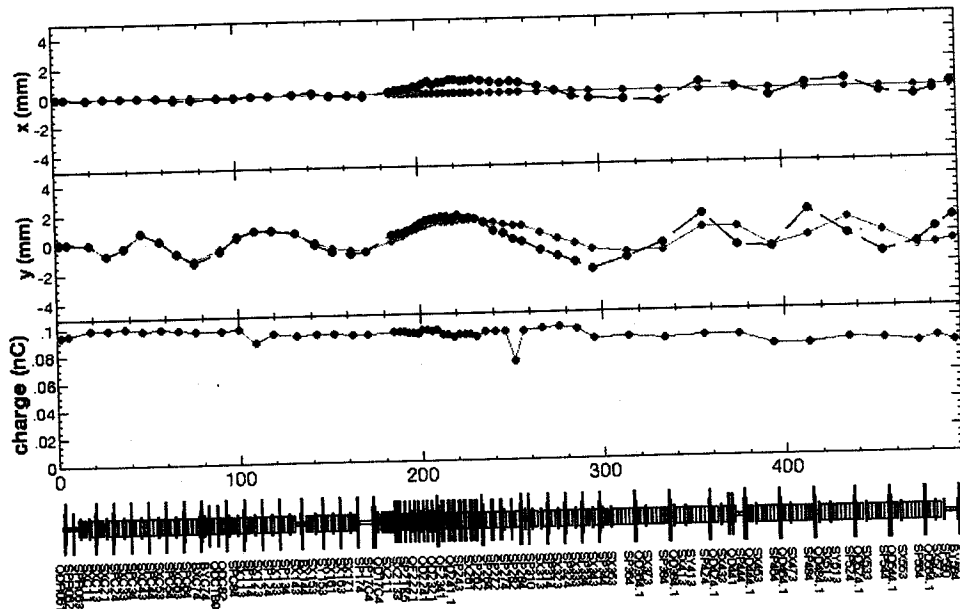
Orbit AFA-1 ΔK1 ΔB'



Read Optics		Steering SX_C2_1		Steering(X) SXC21	Select Q	average		Att
s1(m)	0	Read	K0	<input type="text" value="1.3E-4"/>	QDC14	K1	0	EPS
s2(m)	500	Set ref	Set	Clear	QFC14	AF	1	Cal
Clear ref		I(A)	-1.999	Steering(Y) SYC13	QDC24	Set ref		Show F
Plot orbit		ΔI(A)	2	K0	QFC34	Set		Set F
File	sxc21_1.dat	Set		Set	QDC44	Plot		Clear F
				Clear	QFC44	Set ref		
					QDC54			
					QFC54			

SYC21

Orbit AFA-1 ΔK1 ΔB'



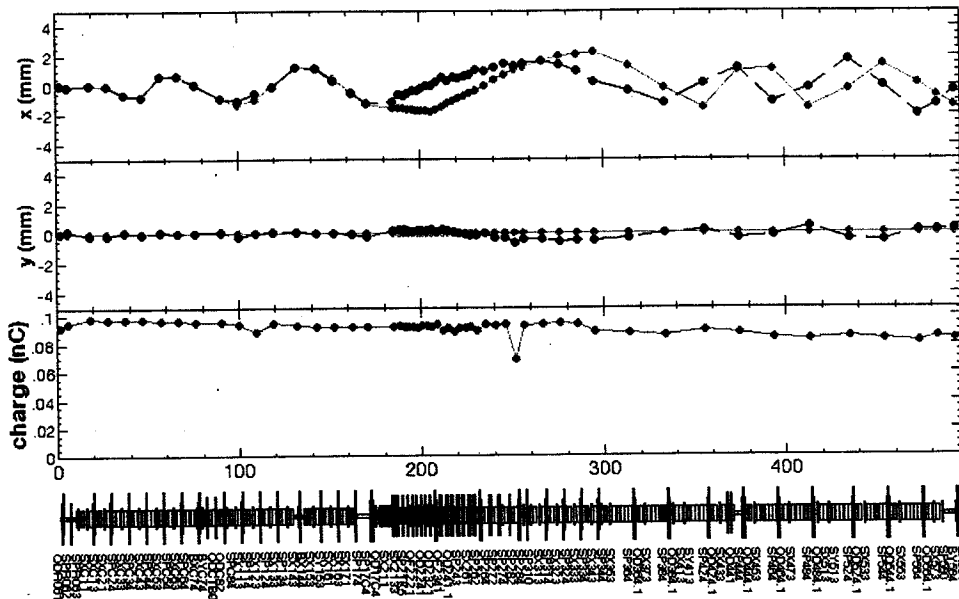
Read Optics		Steering SY_C2_1		Steering(X) SXC21	Select Q	average		Att
s1(m)	0	Read	K0	<input type="text" value="-1.3E-4"/>	QDC14	K1	0	EPS
s2(m)	500	Set ref	Set	Clear	QFC14	AF	1	Cal
Clear ref		I(A)	-1.2	Steering(Y) SYC21	QDC24	Set ref		Show
Plot orbit		ΔI(A)	0	K0	QDC34	Set		Set F
File	syc21_1.dat	Set		Set	QDC44	Plot		Clear
				Clear	QFC44	Set ref		
					QDC54			
					QFC54			

File Edit Window

05/30/2008 14:17:21

Orbit AF-1 ΔK1 ΔB'

SXC33



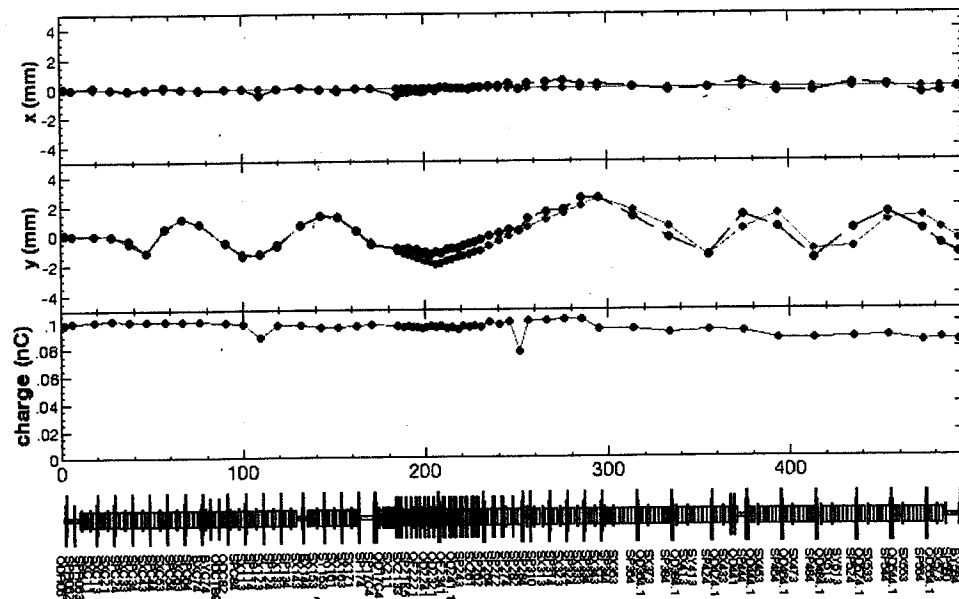
Read Optics		Steering(X)		Steering(Y)		Select Q		Control		Actions		
s1(m)	0	Steering	SXC33	K0	1.9E-4	QDC14	QDC14	K1	0	average	EPS	Add
s2(m)	500	Read	K0	Steering(Y)	SYC21	QFC14	QFC14	AF	1	x y xy		Calc
Set ref				Set		QDC24	QDC24	Set ref		Read SPDATA		Show Fi
Clear ref		I(A)	-1.999	K0	-9E-5	QDC34	QDC34	Set		Plot		Set Fu
Plot orbit		ΔI(A)	-2	Set		QDC44	QDC44			Set ref		Clear Fi
File	sxc33_1.dat	Set		Set		QFC44	QFC44					
						QDC54	QDC54					

File Edit Window

05/30/2008 14:21:42

Orbit AF-1 ΔK1 ΔB'

SYC33

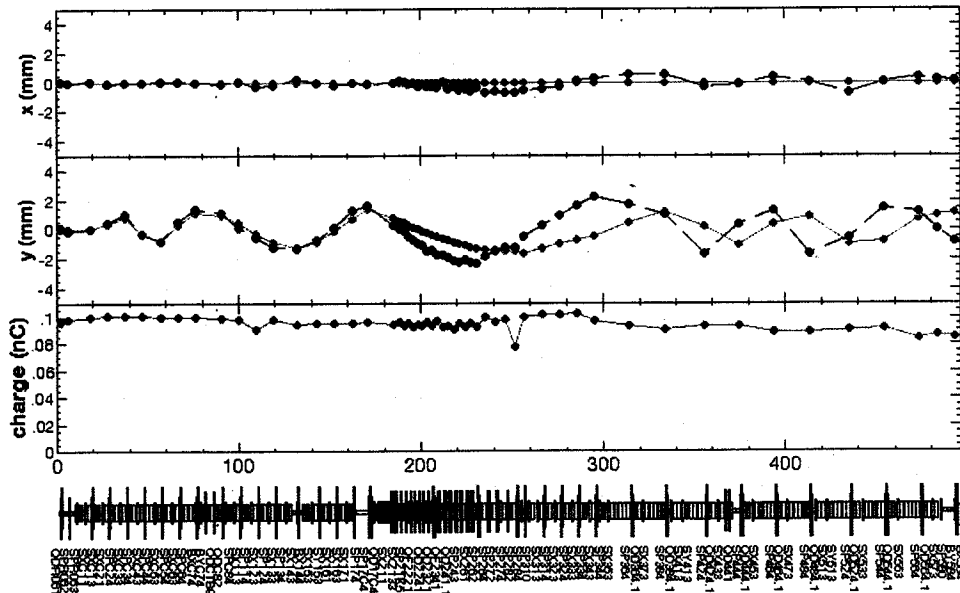


Read Optics		Steering(X)		Steering(Y)		Select Q		Control		Actions		
s1(m)	0	Steering	SYC33	K0	-1.8E-4	QDC14	QDC14	K1	0	average	EPS	Add
s2(m)	500	Read	K0	Steering(Y)	SYC33	QFC14	QFC14	AF	1	x y xy		Calc
Set ref				Set		QDC24	QDC24	Set ref		Read SPDATA		Show Fu
Clear ref		I(A)	-1.999	K0	1.5E-4	QDC34	QDC34	Set		Plot		Set Fu
Plot orbit		ΔI(A)	-2	Set		QDC44	QDC44			Set ref		Clear Fu
File	syc33_1.dat	Set		Set		QFC44	QFC44					
						QDC54	QDC54					

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SYC23

Orbit AF-1 ΔK1 ΔB'



Read Optics

s1(m) 0 Steering SY_C2_3 Steering(X) SXC23 QDC14 Ad

s2(m) 500 Steering SY_C2_3 KO -1.6E-4 QFC14 QFC14 EPS

Set ref Read Set Clear K1 0 average x y xy Cal

Clear ref I(A) 1.5 Steering(Y) SYC23 QFC24 AF 1 Read SPDATA Show I

Plot orbit ΔI(A) 0 KO -1E-4 QDC24 QDC34 QDC44 QDC44 QDC54 QFC54 Set F

File syc23_2.dat Set Set Clear Set ref Set ref Clear F

Sellewode

Fick

(BX21K5 -2A, +2A
 BY21K5 -2A, +2A

(BX234 -0.25A, +0.25A
 BY234 -0.3A, +0.3A

(SX413 -1A, +1A
 SY413

(绝对值) +0.15
 -0.25A, +0.25
 (相对值) +0.3A

(BX384 -0.25[A], +0.25[A]
 BY384 -0.25, +0.25

(SX413 -1A, +1A
 SY413

39.2247	3089.20	3.30677	.00000	.00000	QD272.1	.13330	.0000000	236.776724	6.68685	290.308	3.04710	.00000	.00000	.0000	1407
39.9456	3045.43	3.30680	.00000	.00000	QD272.2	.13330	.0000000	236.336724	6.59867	282.868	3.04741	.00000	.00000	.0000	1411
36.5954	2689.20	3.30706	.00000	.00000	QD274.1	.13330	.0000000	241.052436	5.85610	224.135	3.05039	.00000	.00000	.0000	1432
36.3163	2648.37	3.30710	.00000	.00000	QD274.2	.13330	.0000000	241.612436	5.76792	217.625	3.05079	.00000	.00000	.0000	1436
33.8273	2298.05	3.30742	.00000	.00000	QD282.1	.13330	.0000000	246.606724	4.98148	163.940	3.05500	.00000	.00000	.0000	1464
33.5482	2260.32	3.30746	.00000	.00000	QD282.2	.13330	.0000000	247.166724	4.89330	158.410	3.05555	.00000	.00000	.0000	1468
31.1980	1954.99	3.30782	.00000	.00000	QD284.1	.13330	.1249646	251.882436	-11.500	109.941	3.06191	.00000	.00000	.0000	1489
325.515	1930.51	3.30786	.00000	.00000	QD284.2	.13330	.1249646	252.442436	-11.500	109.941	3.06191	.00000	.00000	.0000	1493
70.5313	1289.14	3.30826	.00000	.00000	QD310	.20390	.2783826	256.347359	2.09270	94.5784	3.06795	.00000	.00000	.0000	1518
36.2597	443.900	3.31027	.00000	.00000	QD314	.20390	.1418981	266.629650	1.69621	11.2924	3.12260	.00000	.00000	.0000	1568
8.12580	20.0941	3.32580	.00000	.00000	QD324	.20390	.0491179	276.223650	-1.9000	12.2524	3.46105	.00000	.00000	.0000	1613
-23.248	165.406	3.79959	.00000	.00000	QD334	.20390	.0748994	285.820910	-5.6805	84.6882	3.50988	.00000	.00000	.0000	1658
-50.975	880.530	3.80350	.00000	.00000	QD344	.20390	.3905340	295.420910	-9.8571	230.861	3.52105	.00000	.00000	.0000	1703
-29.010	2093.78	3.80550	.00000	.00000	QD364.1	.21500	.1729300	314.480360	-2.2837	265.769	3.53475	.00000	.00000	.0000	1773
375.135	2204.21	3.80556	.00000	.00000	QD364.2	.21500	.1729300	315.480360	-42.766	257.004	3.53529	.00000	.00000	.0000	1779
1.4092	2175.47	3.80692	.00000	.00000	QD384.1	.21500	.3794147	333.820360	1.82388	192.323	3.54820	.00000	.00000	.0000	1842
990.630	2269.27	3.80697	.00000	.00000	QD384.2	.21500	.3794147	334.820360	-49.151	164.071	3.54905	.00000	.00000	.0000	1849
90.746	588.553	4.30396	-2.E-19	.00000	QD424.1	.21500	.5088562	356.580360	-52.393	104.250	4.02581	-.00259	-6.E-4	9.E-43	1928
362.989	741.880	4.30414	-2.E-19	1.5E-19	QD424.2	.21500	.5088562	355.720360	-11.307	103.680	4.02431	-.00321	.00000	.0000	1921
-1.3636	692.777	4.30645	5.5E-19	6.0E-20	QD441	.20000	.0000000	366.447339	1.98629	70.4680	4.04318	.00628	6.87E-4	3.E-42	1970
-1.3985	716.181	4.30836	1.2E-18	6.0E-20	QD444.1	.21500	.5148468	374.920360	1.39167	41.8464	4.06812	.01417	6.87E-4	3.E-42	2001
460.802	748.508	4.30852	1.3E-18	-7.E-19	QD444.2	.21500	.5148468	375.780360	-10.622	31.0753	4.07245	.01343	.00582	2.E-39	2007
-127.51	1376.48	4.80549	-8.E-19	-1.E-19	QD464.1	.21500	.5208753	394.120360	-13.485	172.229	4.53436	-.00868	-.00132	2.E-39	2072
884.832	1633.97	4.80556	-9.E-19	4.5E-19	QD464.2	.21500	.5208753	394.980360	-77.086	161.665	4.53530	-.00936	-.00535	5.E-39	2079
12.5953	56.7580	4.81569	-2.E-18	-2.E-20	QD484.1	.21500	.5083254	413.320360	-66.729	2.39329	4.96371	-.02043	-3.0E-4	6.E-39	2144
35.8800	41.6492	4.81812	-2.E-18	1.1E-18	QD484.2	.21500	.5083254	414.180360	-2.7258	3.67235	4.91731	-.01852	-.00715	1.E-38	2150
-119.79	2240.46	5.30650	3.1E-18	2.2E-19	QD524.1	.20400	.4895131	435.300382	-9.1304	213.661	5.04374	.03520	.00253	2.E-38	2219
1328.49	2514.63	5.30655	3.3E-18	-2.E-18	QD524.2	.20400	.4895131	436.170382	-86.311	194.269	5.04451	.03482	.01664	2.E-38	2227
-13.833	23.3750	5.79391	1.1E-18	-1.E-19	QD544.1	.20400	.4685396	454.500382	-.45304	1.76285	5.34907	.02293	-9.4E-4	2.E-38	2292
8.04423	50.4075	5.79744	1.0E-18	-7.E-19	QD544.2	.20400	.4685396	455.370382	-2.3302	2.96170	5.41967	.02009	.00660	3.E-38	2300
-103.30	2210.86	5.80660	-4.E-18	-3.E-19	QD564.1	.20400	.4520270	473.700382	-11.031	221.976	5.53895	-.03432	-.00301	3.E-38	2371
1201.49	2453.19	5.80665	-4.E-18	1.5E-18	QD564.2	.20400	.4520270	474.570382	-90.444	209.402	5.53967	-.03487	-.01654	3.E-38	2379
-3.5998	1.98626	6.26226	-2.E-18	1.4E-19	QD584.1	.20400	.2531567	492.942158	-2.97203	42.4093	5.56947	-.04507	-2.8E-4	3.E-38	2435
-6.7109	12.6219	6.26817	-2.E-18	5.8E-19	QD584.2	.20400	.2531567	493.812158	-5.0937	34.3081	5.57334	-.04385	-.01029	4.E-38	2443

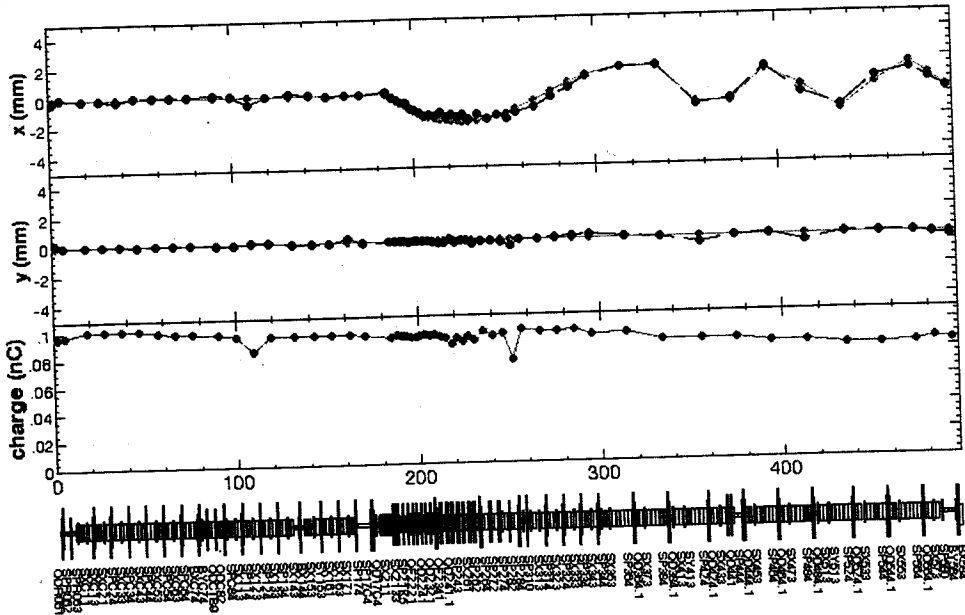
In[127]:=1

BX21K5

File Edit Window

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Orbit AFA-1 ΔK1 ΔB'



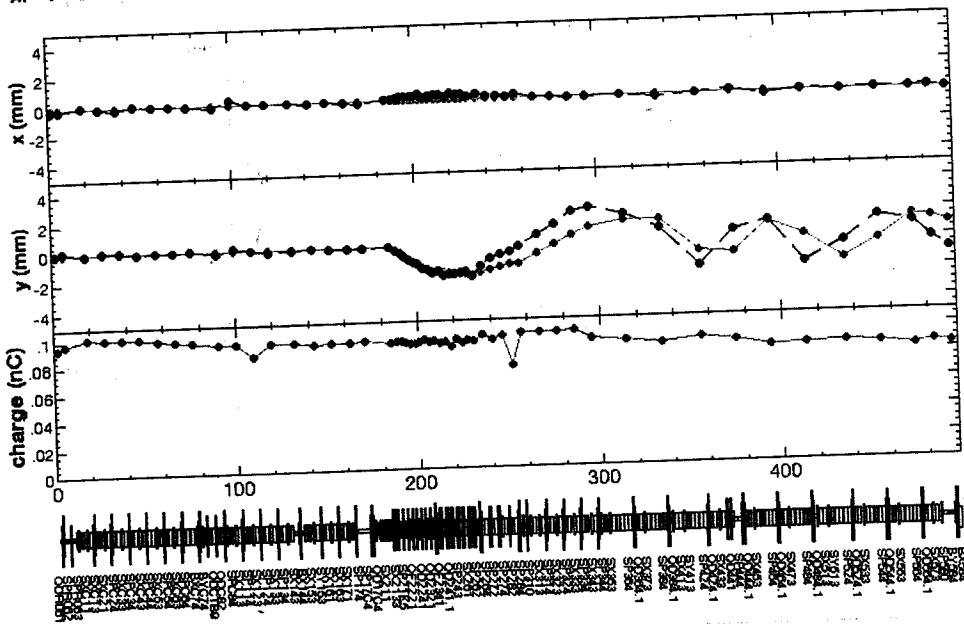
Read Optics		Steering BX_21_K5		Steering(X) K0	BX21K5	Select Q	K1 0		average	Ad
s1(m)	0	Read	Set	Set	8E-5	QDC14	AF	1	x y ♦ xy	EPS
s2(m)	500	I(A)	-2	Steering(Y) K0	0	QFC14	Set ref	Read SPDATA	Plot	Cal
Set ref		ΔI(A)	0	Set	Clear	QDC24	Set	Set ref	Set F	Show
Clear ref				Set	Clear	QDC34		Set ref	Clear I	
Plot orbit				Set	Clear	QFC34				
File	bx21k5_1.dat			Set	Clear	QDC44				
				Set	Clear	QFC44				
				Set	Clear	QDC54				
				Set	Clear	QFC54				

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BY21K5

File Edit Window

Orbit AFA-1 ΔK1 ΔB'



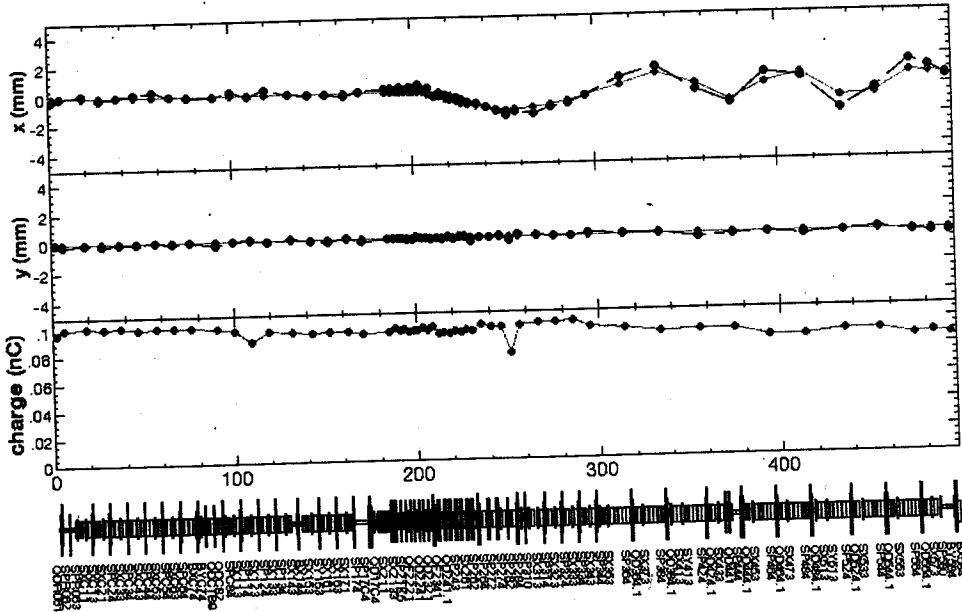
Read Optics		Steering BY_21_K5		Steering(X) K0	BX21K5	Select Q	K1 0		average	Ad
s1(m)	0	Read	Set	Set	8E-5	QDC14	AF	1	x y ♦ xy	EPS
s2(m)	500	I(A)	-2	Steering(Y) K0	0	QFC14	Set ref	Read SPDATA	Plot	Cal
Set ref		ΔI(A)	0	Set	Clear	QDC24	Set	Set ref	Set F	Show
Clear ref				Set	Clear	QDC34		Set ref	Clear I	
Plot orbit				Set	Clear	QFC34				
File	by21k5_2.dat			Set	Clear	QDC44				
				Set	Clear	QFC44				
				Set	Clear	QDC54				
				Set	Clear	QFC54				

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File Edit Window

Orbit AF-1 ΔK1 ΔB'



BX234

Read Optics

s1(m) 0
s2(m) 500

Steering BX_23_4
 Read
 Set ref
 Clear ref
 Plot orbit
 File bx234_1.dat

Steering(X) BX234
 K0 $4E-5$
 Set
 Clear
 Steering(Y) BY21K5
 K0 $-8E-5$
 Set
 Clear

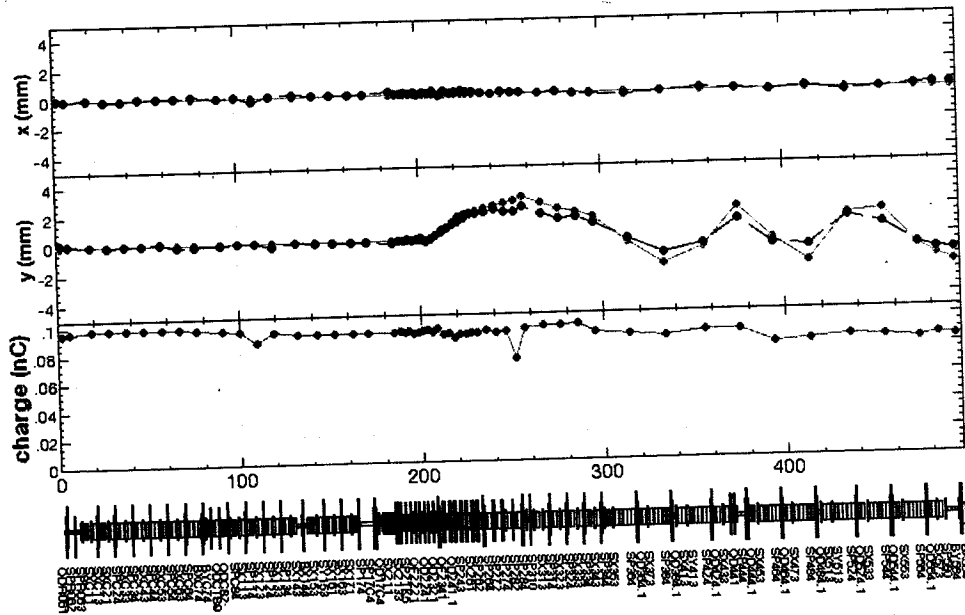
Select Q
 QDC14
 QFC14
 QDC24
 QFC24
 QDC34
 QFC34
 QDC44
 QFC44
 QDC54
 QFC54

K1 0
 AF 1
 average
 x y xy
 Read SPDATA
 Plot
 Set ref
 EPS
 Ca
 Show
 Set F
 Clear

05/30/2008 14:57:33

File Edit Window

Orbit AF-1 ΔK1 ΔB'



BY234

Read Optics

s1(m) 0
s2(m) 500

Steering BY_23_4
 Read
 Set ref
 Clear ref
 Plot orbit
 File by234_2.dat

Steering(X) BX234
 K0 $-8E-5$
 Set
 Clear
 Steering(Y) BY234
 K0 $-8E-5$
 Set
 Clear

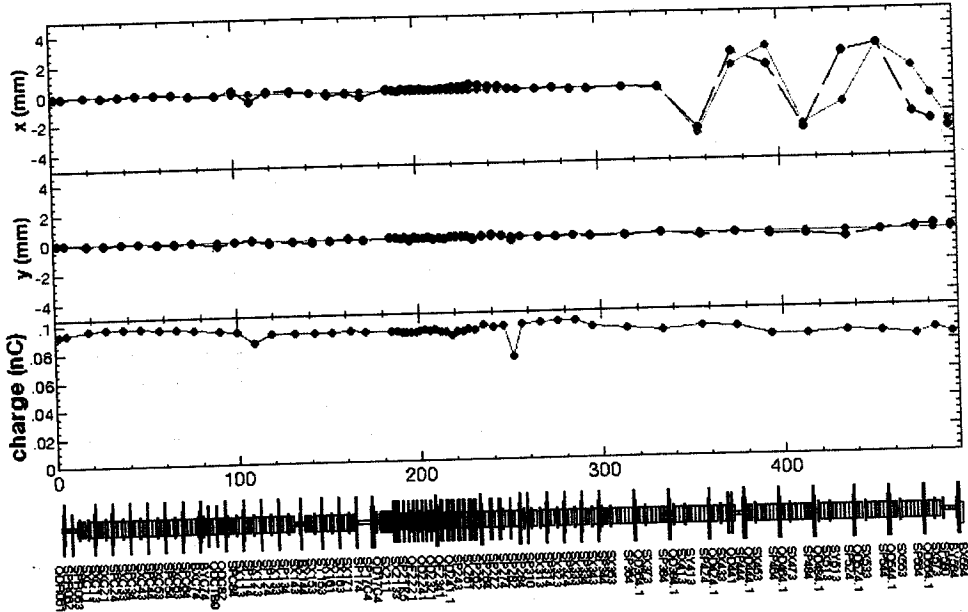
Select Q
 QDC14
 QFC14
 QDC24
 QFC24
 QDC34
 QFC34
 QDC44
 QFC44
 QDC54
 QFC54

K1 0
 AF 1
 average
 x y xy
 Read SPDATA
 Plot
 Set ref
 EPS
 Ca
 Show
 Set F
 Clear

File Edit Window

Orbit AF-1 ΔK1 ΔB'

BX384

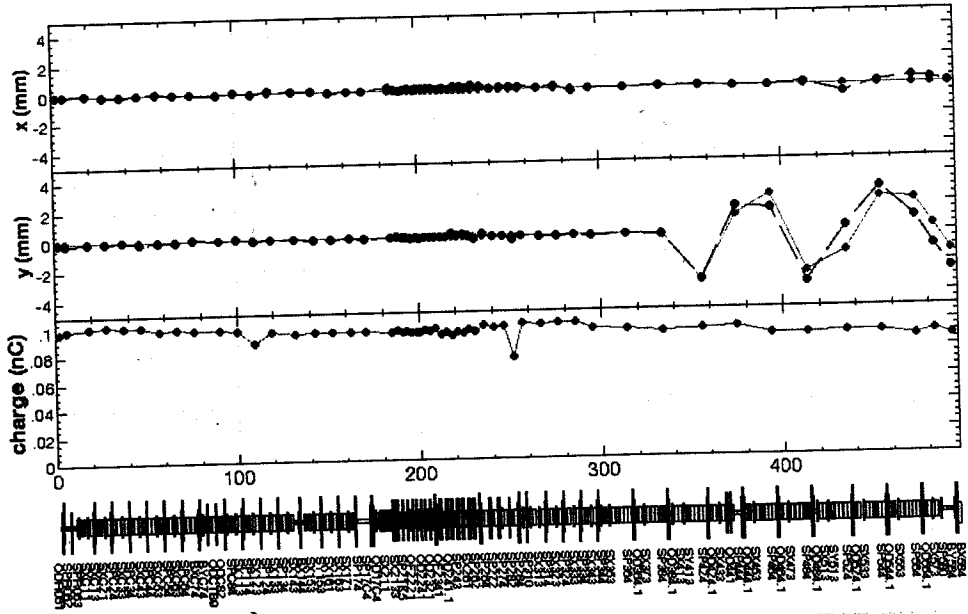


Read Optics		Steering(X)		BX384	Select Q	average		Add
s1(m)	0	Read	K0	<input type="text" value="1.7E-4"/>	QDC14	K1	0	EPS
s2(m)	500	Steering BX_38_4	Set	Clear	QFC14	AF	1	Calc
Set ref					QDC24	Set ref		Show F
Clear ref	I(A)	-0.305	Steering(Y)	BY234	QDC34	Set	Plot	Set Fu
Plot orbit	ΔI(A)	.25	K0	-8E-5	QFC34		Set ref	Clear F
File	bx384_1.dat		Set	Clear	QDC44			
					QFC44			
					QDC54			
					QFC54			

File Edit Window

Orbit AF-1 ΔK1 ΔB'

BY384



Read Optics		Steering(X)		BY384	Select Q	average		Add
s1(m)	0	Read	K0	-1.7E-4	QDC14	K1	0	EPS
s2(m)	500	Steering BY_38_4	Set	Clear	QFC14	AF	1	Calc
Set ref					QDC24	Set ref		Show F
Clear ref	I(A)	-0.549	Steering(Y)	BY384	QDC34	Set	Plot	Set Fu
Plot orbit	ΔI(A)	-0.25	K0	<input type="text" value="1.7E-4"/>	QFC34		Set ref	Clear F
File	by384_1.dat		Set	Clear	QDC44			
					QFC44			
					QDC54			
					QFC54			

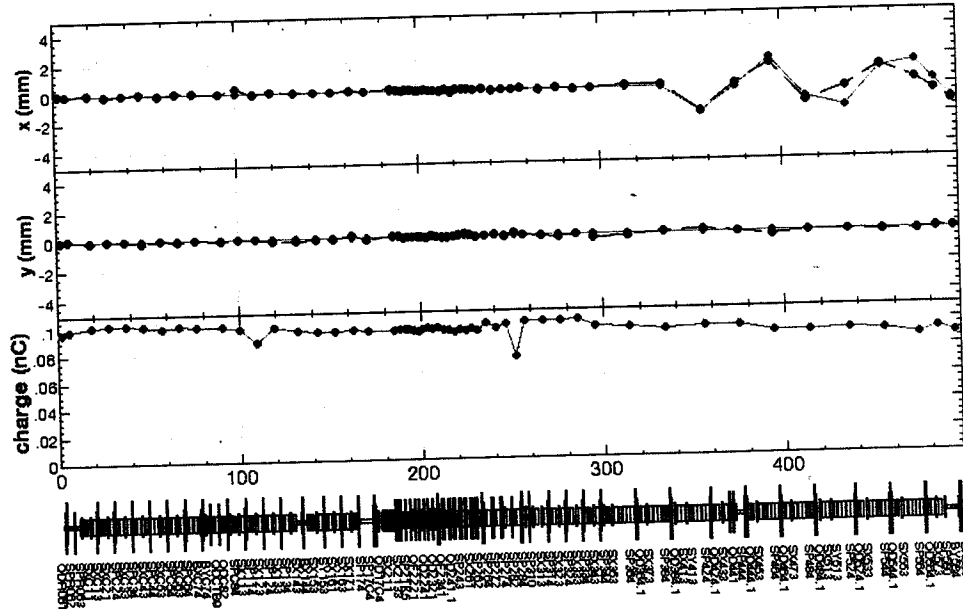
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File Edit Window

Orbit AFA-1 ΔK1 ΔB'

SX413



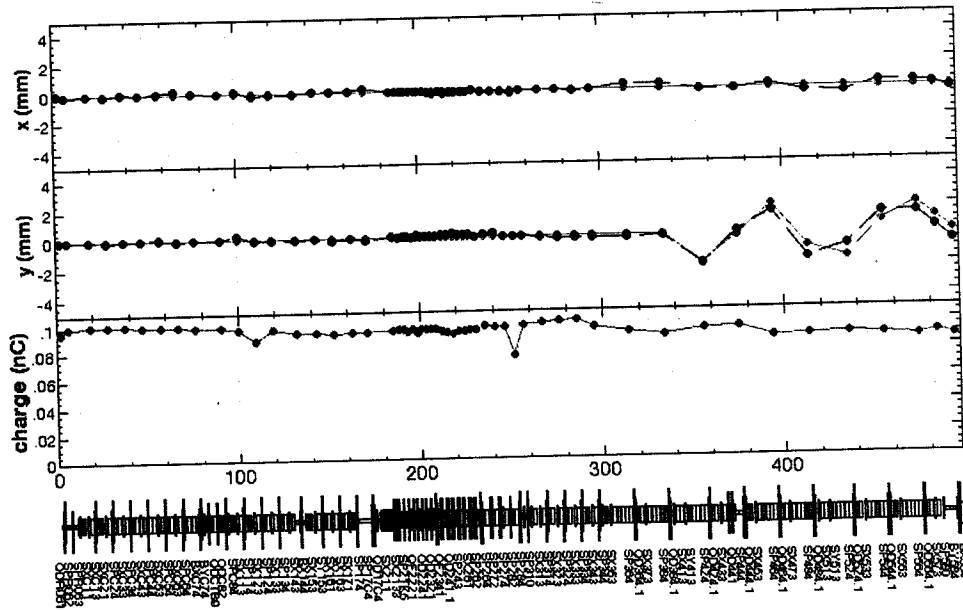
Read Optics		Steering SX_41_3		Steering(X) SX413	Select Q	average		AF	K1 0	Read SPDATA	EPS	
s1(m)	0	Read		Set	QDC14	x	y	xy	AF	1	Set ref	Set I
s2(m)	500	Clear ref	I(A) -0.999	Steering(Y) SX413	QDC24	Plot			Set		Set ref	Clear
		Plot orbit	ΔI(A) -1	Set	QDC34	Set ref						
File	sx413_1.dat			Clear	QDC44							
				Clear	QFC34							
				Clear	QDC54							
				Clear	QFC54							

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File Edit Window

Orbit AFA-1 ΔK1 ΔB'

SY413

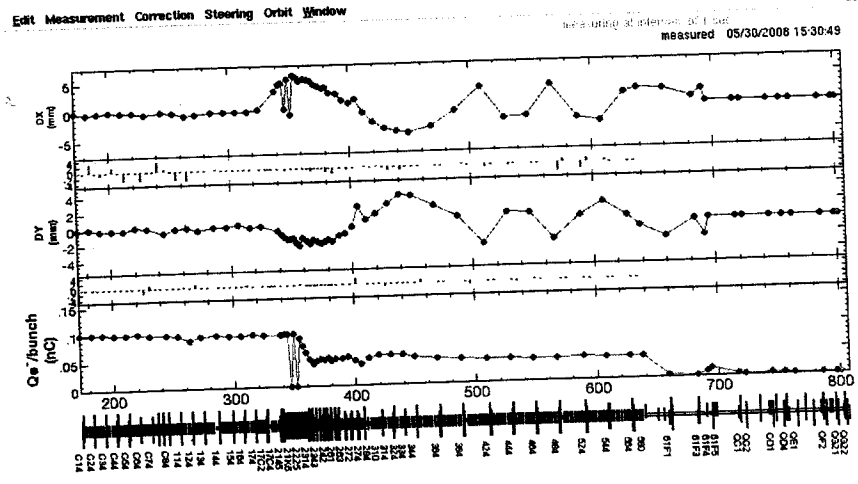


05/30/2008 15:16:54

Read Optics		Steering SY_41_3		Steering(X) SX413	Select Q	average		AF	K1 0	Read SPDATA	EPS	
s1(m)	0	Read		Set	QDC14	x	y	xy	AF	1	Set ref	Set I
s2(m)	500	Clear ref	I(A) -0.999	Steering(Y) SY413	QDC24	Plot			Set		Set ref	Clear
		Plot orbit	ΔI(A) -1	Set	QDC34	Set ref						
File	sy413_1.dat			Clear	QDC44							
				Clear	QFC34							
				Clear	QDC54							
				Clear	QFC54							

Solenoid off

05/30/2008 15:39:47



r.m.s = 2.344
max = 6.68 mm
@ SP124
min. = -3.481
@ SP124

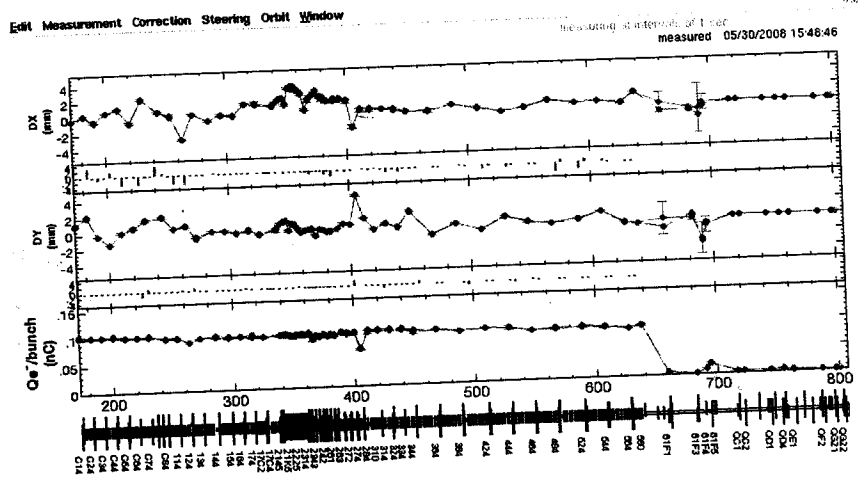
r.m.s = 1.245
max = 4.624
@ SP344
min. = -3.585
@ SP61F1

.003 nC
@ SPQG

15:40

軌道補正

05/30/2008 15:48:15



r.m.s = 1.341 m
max = 3.459 m
@ SP124
min. = -2.835 m
@ SP124

r.m.s = .868 mm
max = 4.08 mm
@ SP284
min. = -3.128 m
@ SP61F4

.003 nC
@ SPQG

- (• SXC31 -2A, +2A
- (• SYC31 -2A, +2A
- (SXC33
- (SYC33