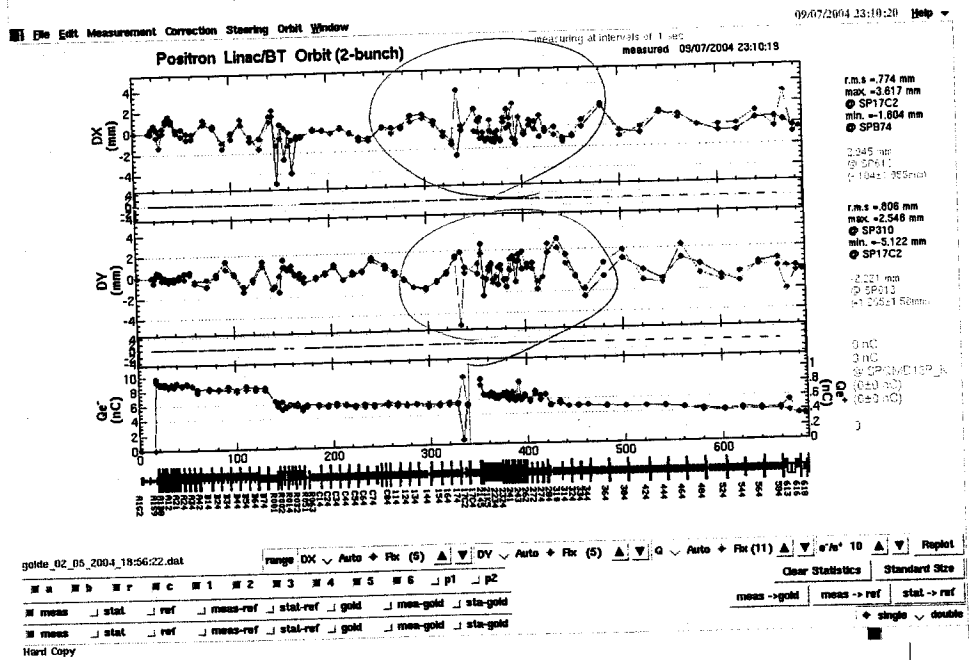
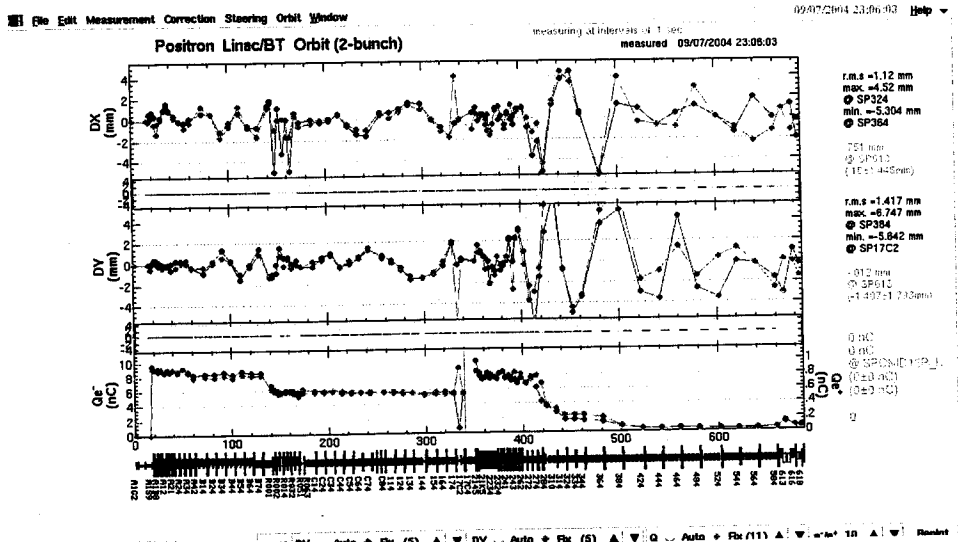
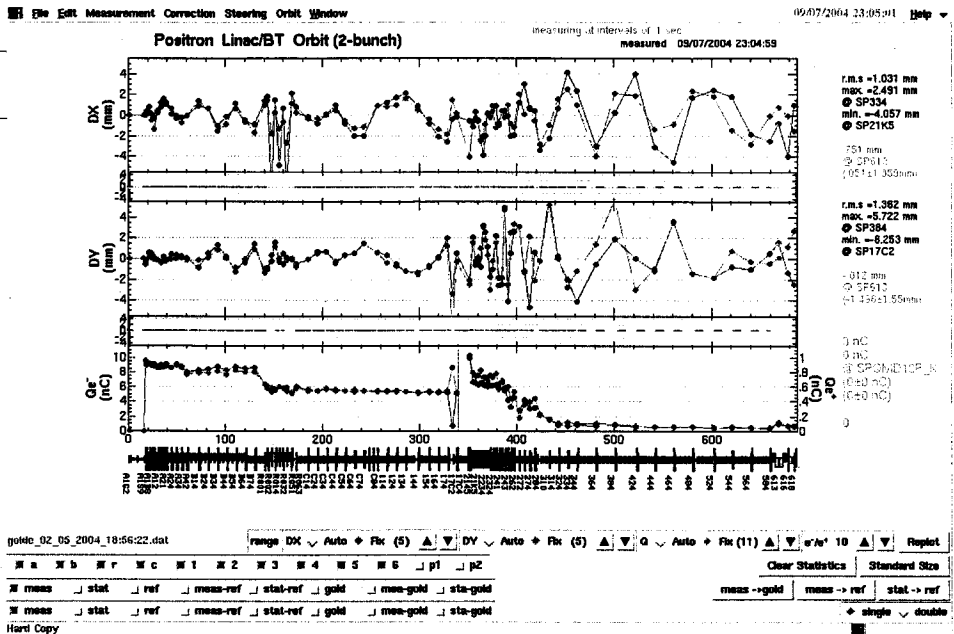


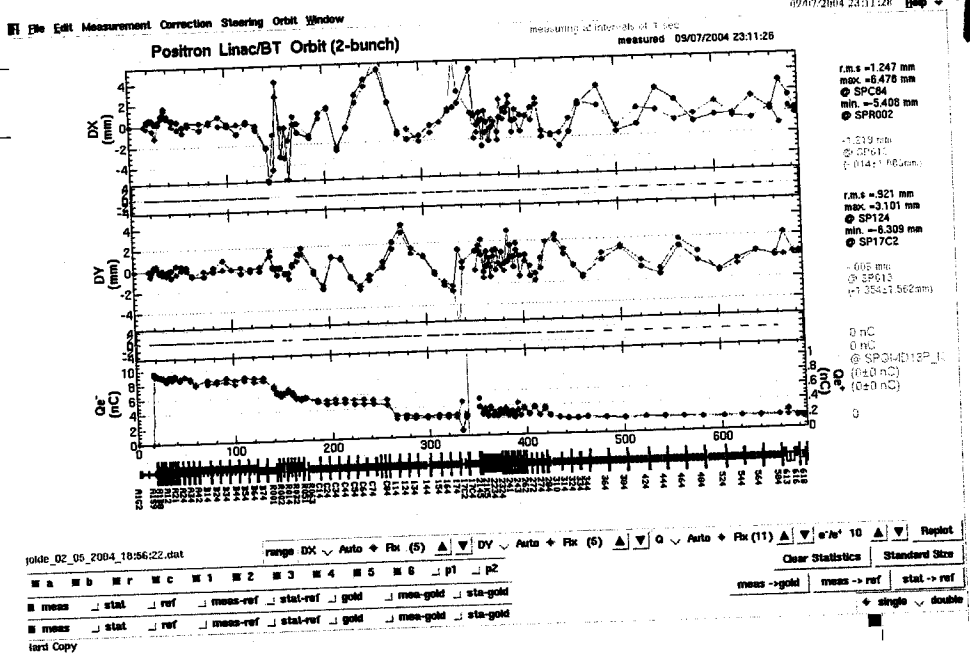
141

2

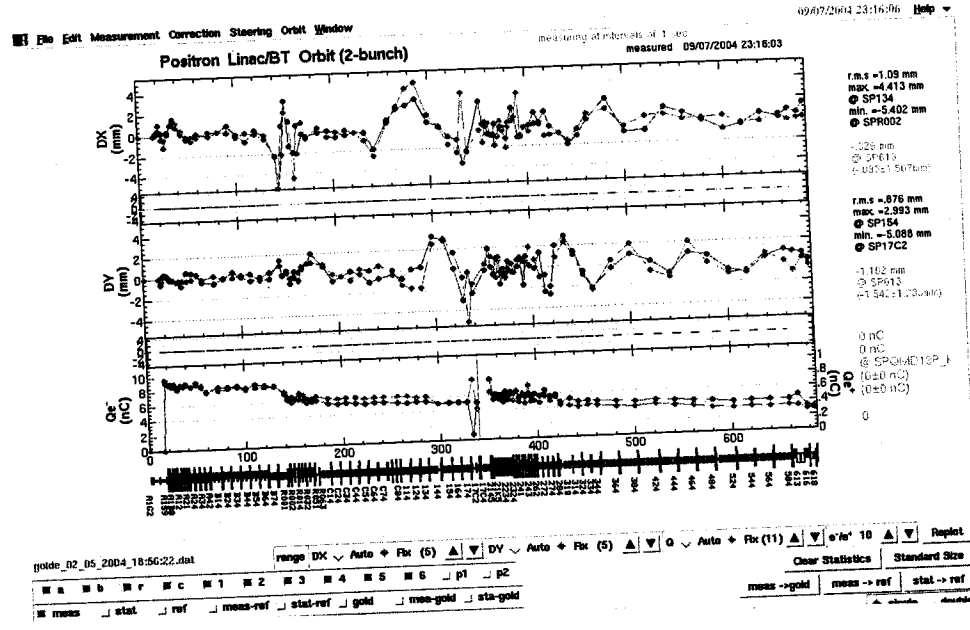
金0



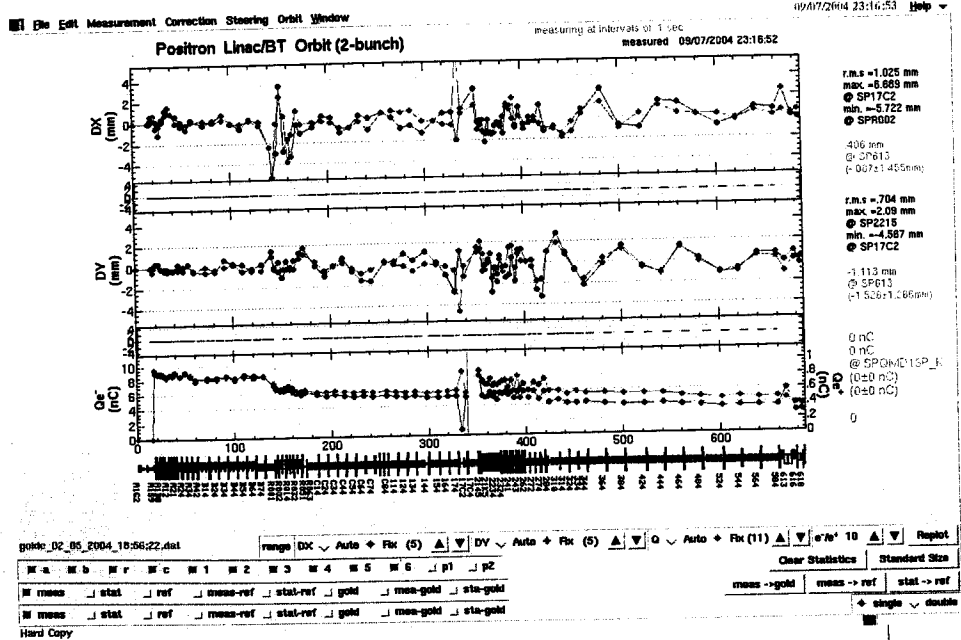
C₂1
(STD)
ΣZ*0



xy coupling
BT)
10



Z(2)



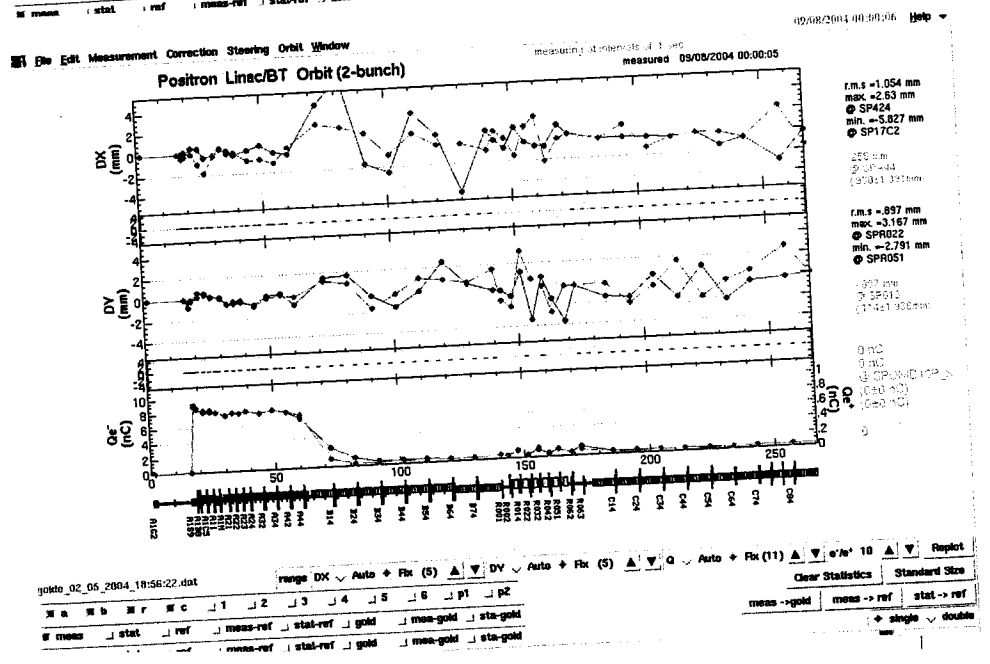
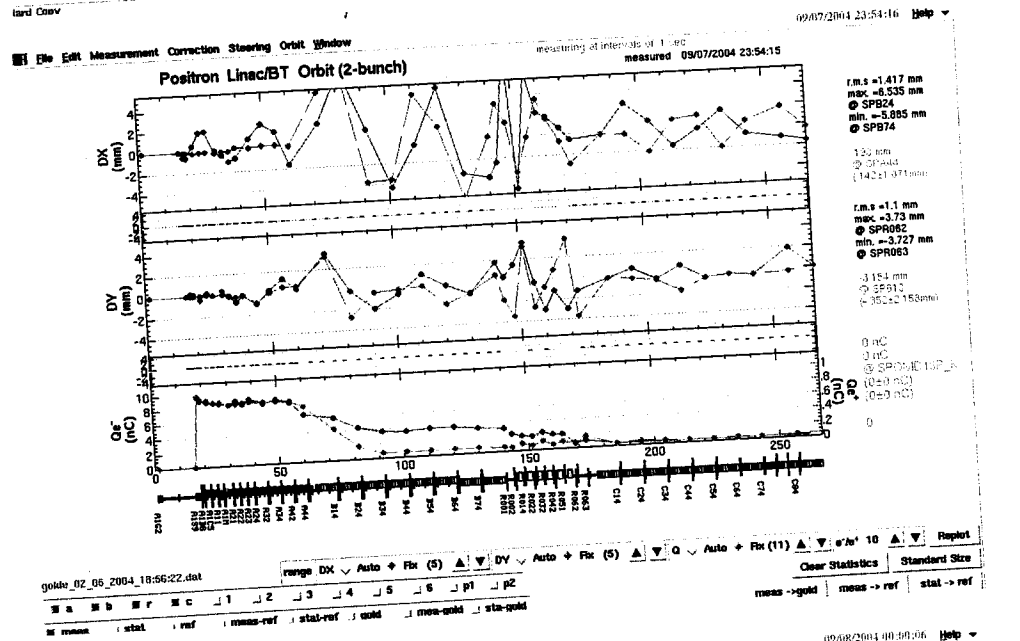
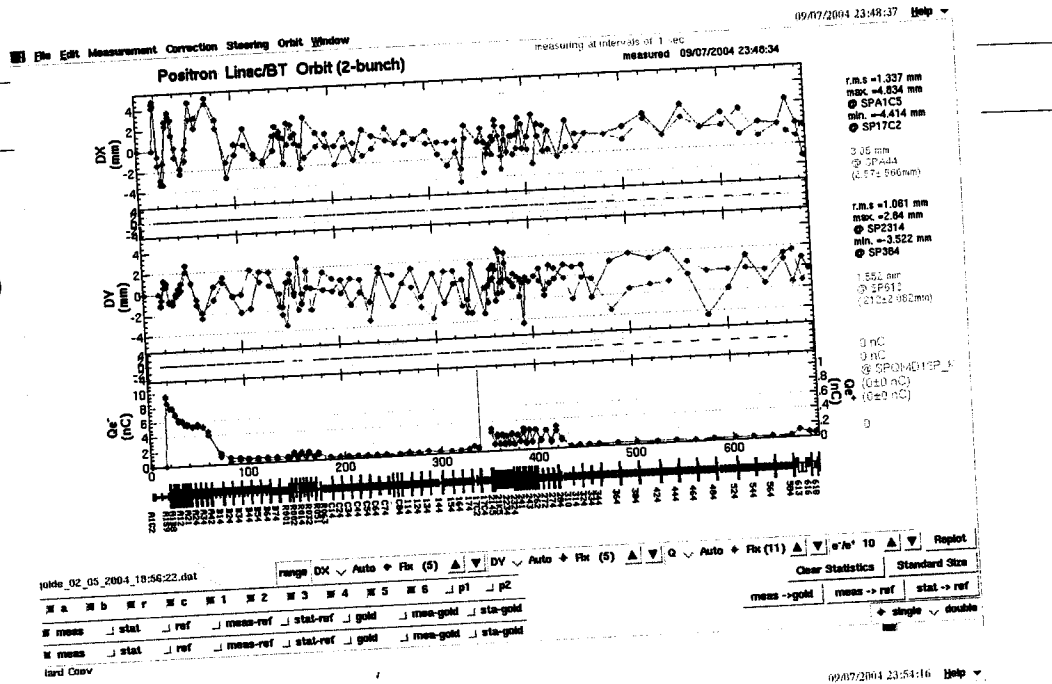
143

A sector

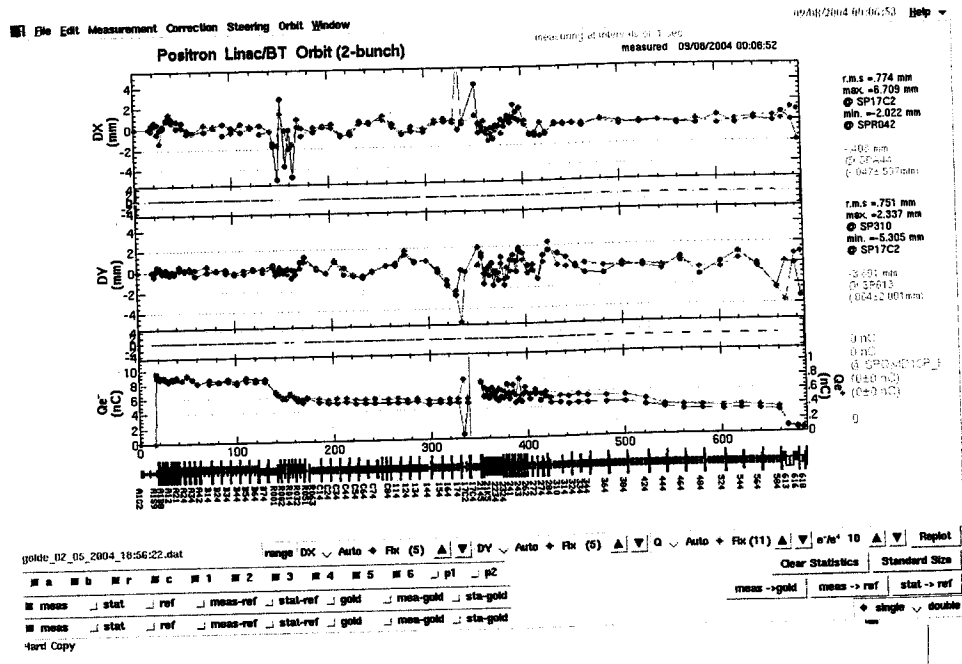
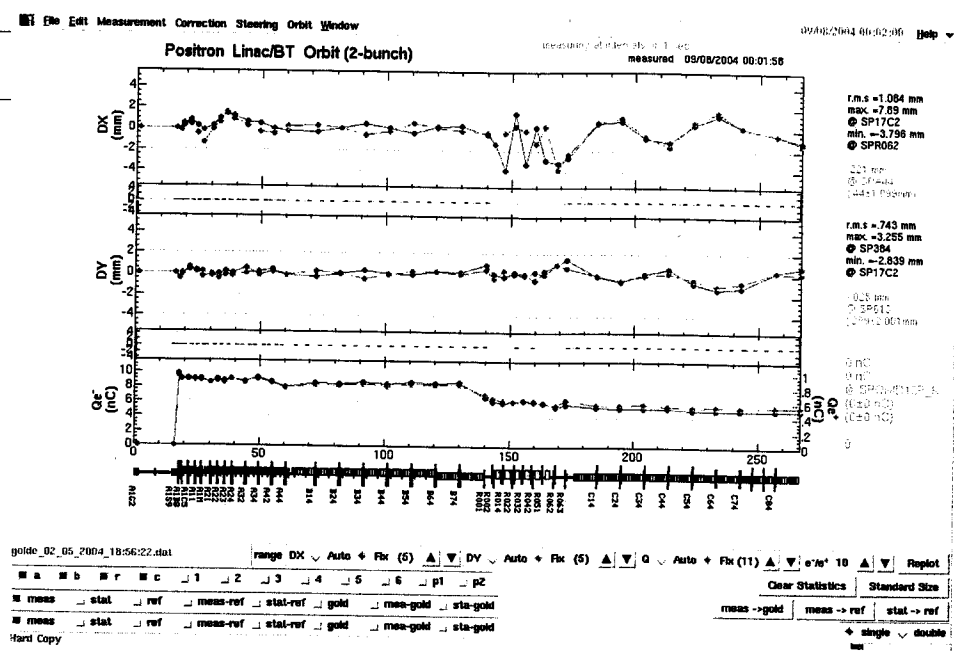
20

1 bunch
024

both



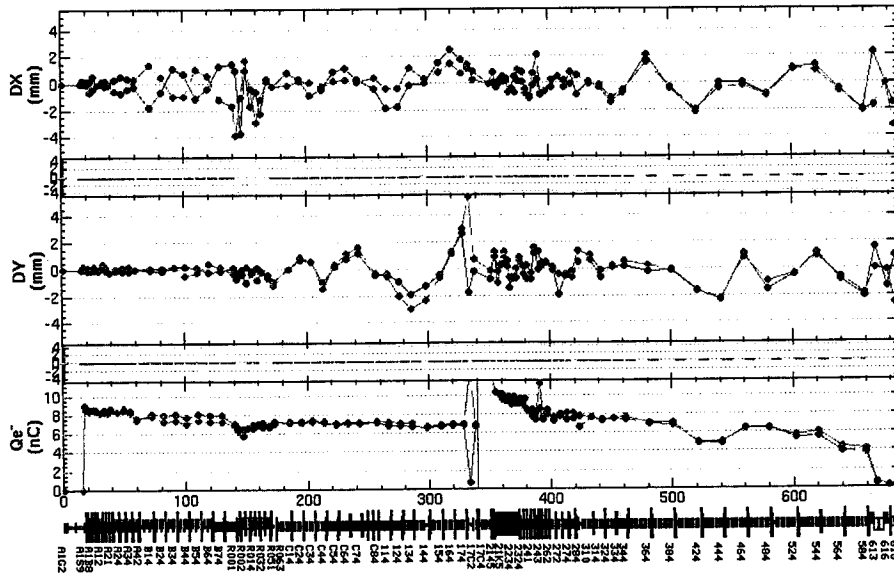
D-1/16
10/15/03
AB
1/2 bunch
高尾



145

Positron Linac/BT Orbit (2-bunch)

measuring at intervals of 1 sec
measured 09/01/2004 14:12:24



r.m.s = .78 mm
max = 2.158 mm
@ SP262
min. = -3.919 mm
@ SPR002

0 mm
@ SPQMD13P_K
(0±0mm)

r.m.s = .825 mm
max = 5.33 mm
@ SP17C2
min. = -2.979 mm
@ SP134

0 mm
@ SPQMD13P_K
(0±0mm)

.417 nC
.386 nC
@ SP584
(.416±0.05 nC)
(.395±0.08 nC)

.062

以前

lde_02_05_2004_18:56:22.dat

range DX Auto Fix (5) DY Auto Fix (5) Q Auto Fix (2) e'/e' 10 Replot

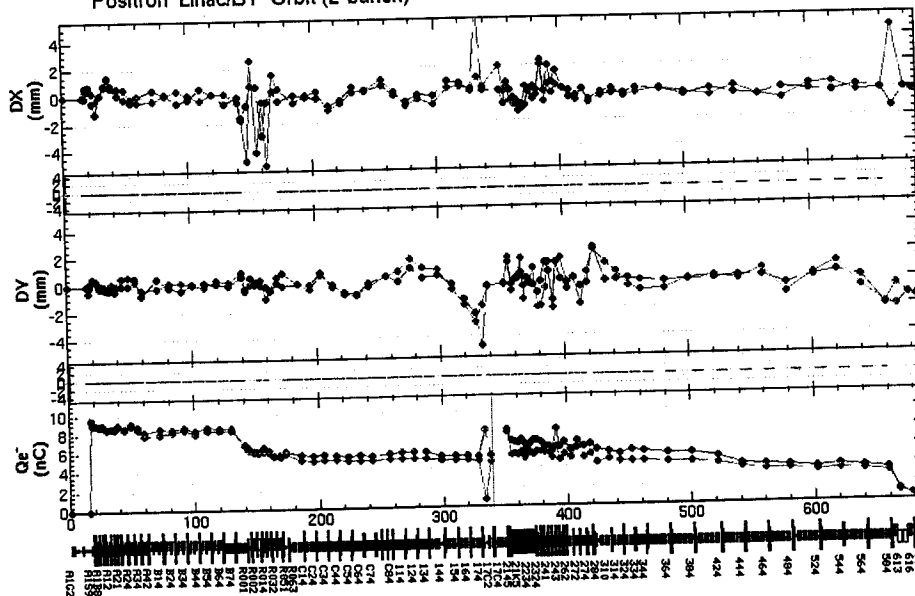
meas stat ref meas-ref stat-ref gold mea-gold sta-gold
meas stat ref meas-ref stat-ref gold mea-gold sta-gold

Clear Statistics Standard Size
meas -> gold meas -> ref stat -> ref
single double



Positron Linac/BT Orbit (2-bunch)

measuring at intervals of 1 sec
measured 09/08/2004 00:12:37



r.m.s = .779 mm
max = 6.686 mm
@ SP17C2
min. = -2.921 mm
@ SPR042

075 mm
@ SP844
(-1.03±0.60mm)

r.m.s = .871 mm
max = 2.38 mm
@ SP310
min. = -4.745 mm
@ SP17C2

-2.315 mm
@ SP613
(-1.05±2.214mm)

0 nC
0 nC
@ SPQMD13P_K
(0±0 nC)
(0±0 nC)

0

AB
補正後

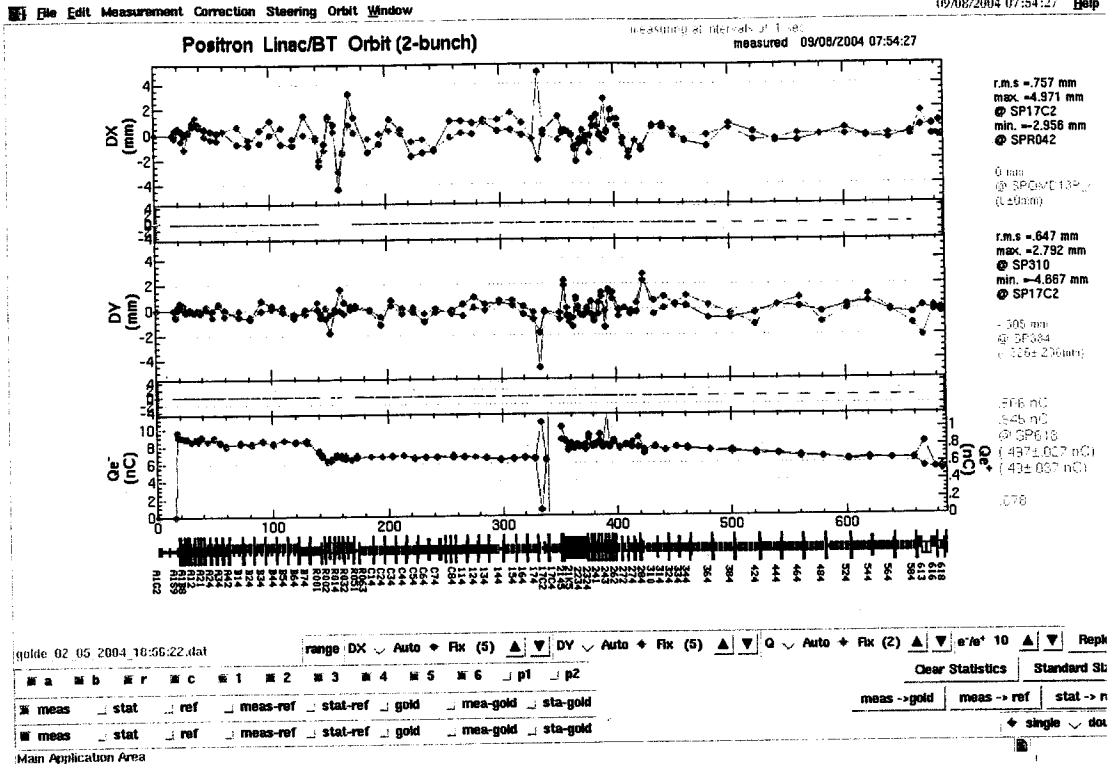
lde_02_05_2004_18:56:22.dat

range DX Auto Fix (5) DY Auto Fix (5) Q Auto Fix (11) e'/e' 10 Replot

meas stat ref meas-ref stat-ref gold mea-gold sta-gold
meas stat ref meas-ref stat-ref gold mea-gold sta-gold

Clear Statistics Standard Size
meas -> gold meas -> ref stat ->
single double

深夜
(花村さん)
準備
調整後



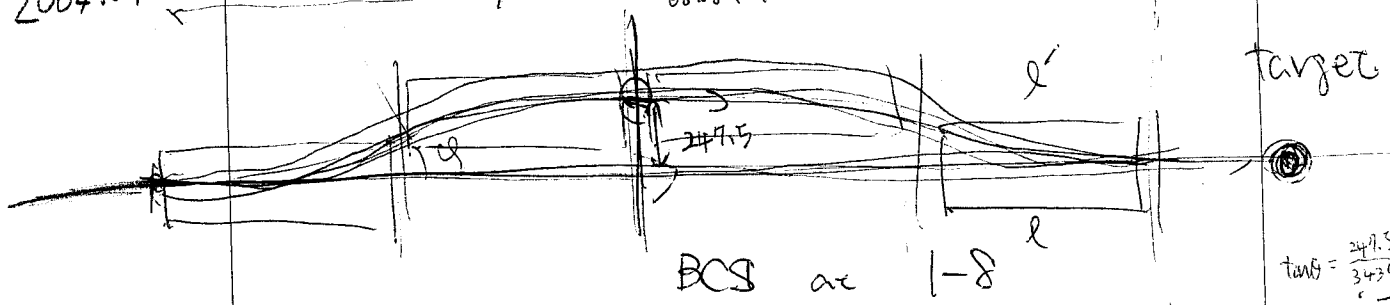
SP_A1_B8	9.430 (9.530)	nC	SP_22_15	0.855 (0.824)	nC	SP_QMD13P	0.000 (0)	nC
SP_B7_4	8.557 (8.515)	nC	SP_58_4	0.643 (0.618)	nC	蓄積率	-1.856	mA
SP_C8_4	6.811 (6.694)	nC	SP_61_8	0.520 (0.509)	nC	ビーム繰返し	=50.0	I
SP_17_C4	6.530 (6.299)	nC				BT Energy Feedback offset	=1	

147

2004.09.28

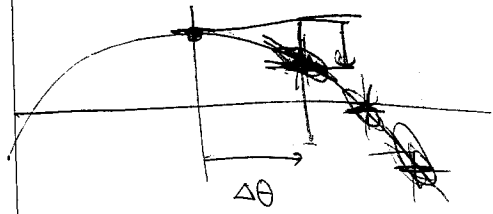
BCS Study

6868.112



$$\tan \theta = \frac{247.5}{3424} = 0.072$$

C. 1-sectra



$$L(p_0) \left(\frac{\delta L}{\delta p_0} \right) =$$

$$\Delta \theta \text{ distribution } \left(\frac{\delta p_0}{\delta z} \right) =$$

$$\beta = \frac{eB_0}{p}$$

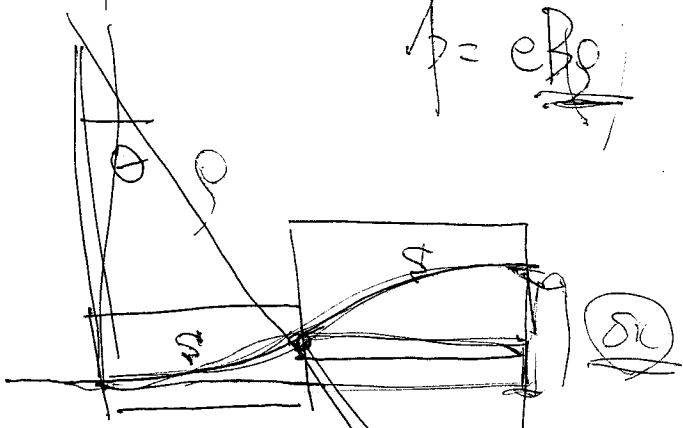
$$\left(\frac{1}{\cos \theta} - 1 \right) \cdot 6868 = 17.9$$

$$p = 11.74 \text{ m}$$

$$l' - l = \Delta l = 24 \text{ mm}$$

$$14 \text{ mm/GeV}$$

$$0.2 \text{ GeV} \times 14 \text{ mm/GeV} = 2.8 \text{ mm}$$

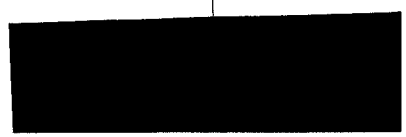


$$eBL = p \sin \theta$$

$$\delta x = p (1 - \cos \theta) \times 2$$

$$eB \delta = \frac{p \theta}{p}$$

$$j = \frac{4 p \theta}{e B}$$

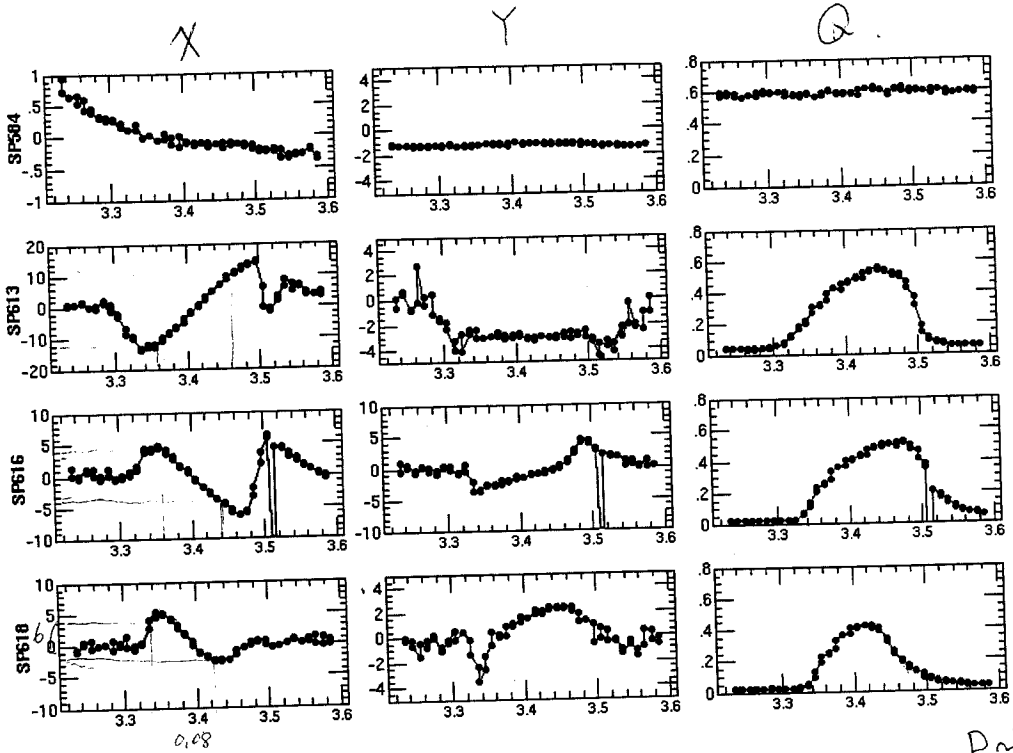


電子ボス子ビームの偏り、PTECS 710 4x-17x19

File Edit Command Window

09/08/2004 10:44:29 Help

BCS OFF



Main Application Area

※過去の比較Dataは15.10

SP618 $y = \frac{-6}{0.08/3.5} = -262.5 \text{ mm}$

SP616 $y = \frac{-8}{0.08/3.5} = -350.0 \text{ mm}$

SP613 $y = \frac{+22}{0.1/3.5} = \cancel{385.0} 770.0 \text{ mm}$

81.7mm
477mm
933mm
(E-E')

$$\Delta x = \eta \delta, \quad \delta = \frac{\Delta P}{P} \quad \rightarrow \quad \eta = \frac{\Delta x}{\delta} = \frac{\Delta x}{\left(\frac{\Delta P}{P}\right)}$$

149

SC-61-3 SB.2 247.6° → 元値
 SB-3 246.9° "
 SB-4 247.2° "

13:48

今後の方針

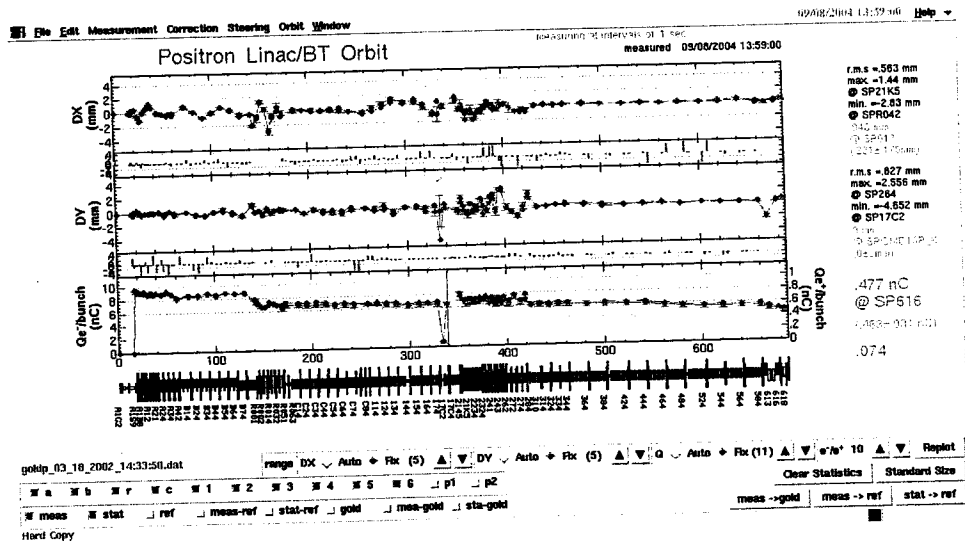
- ① BCS Off z" Ec.1 at max
- ② BCS On z" $\Delta\theta = 10^\circ$
- ③ " " 20°
- ④ " " 30°
- ⑤ " " 40°
- ⑥ " " Ec.1 at max
- ⑦ BCS Off z" $\Delta\theta = 10^\circ$
- ⑧ " " 20°
- ⑨ " " 30°
- ⑩ " " 40°
- ⑪ " "

(fk Analyzer 2 KZIL)

$B_{Bos} = 380A$ $E_{me} = 3.7488 GeV$
 Dispersion = 0.251 m@

14:16

① BCS Off (First bunch only & study)



ds = 27.225 = 46.6850570336896deg
 bunch length(10ps) = 2.99792458 = 5.1408deg

th[deg]	dp[GeV]	p[GeV]	ds[mm]	ds/dp
0.00	-0.04	3.90	-0.49	13.96
10.00	-0.10	3.87	-1.45	14.08
20.00	-0.17	3.77	-2.42	14.45
30.00	-0.23	3.61	-3.43	15.10
40.00	-0.28	3.39	-4.49	16.08
50.00	-0.32	3.11	-5.66	17.48
60.00	-0.36	2.80	-6.96	19.45
70.00	-0.38	2.45	-8.46	22.20
80.00	-0.39	2.08	-10.27	26.15
90.00	-0.39	1.70	-12.58	32.03

23c

TeV

- 14:30 停電.
- 15:52 E-L 復帰
- 16:17 BCS Bend ON
- 17:15 放射線モニタ終了 (毎30分間 E-L 止めた).
- 17:45 BCS magnet 設定の件.
 付とや2に POL が 足になつてお → 裏ワザを使う
 mgc2k L BH-17-C1/2/3/4 2.0 → hex で 実行され.
 mg abs L BH ... L-X ... で 設定する.
 → BCS FB を stop する. 1XTP + KEKB Orbit FB ESTOP
 BCS BM-17-C1/2/3/4 300 A.
 BPM SP21-K5 -3.902 を見たから 軌道補正。 ~ 0.7nC
 BX-17-C5 -3.893 → -1.933
 BY-17-C5 0.278 → -0.222
 SB KL-18 249.5 } 95° → -95.0 V = 0 125.0
 KL-21 178 } 23.0
 SB 2 247.5
 SB 3 246.9
 SB 4 247.2
 SB 5 262.0