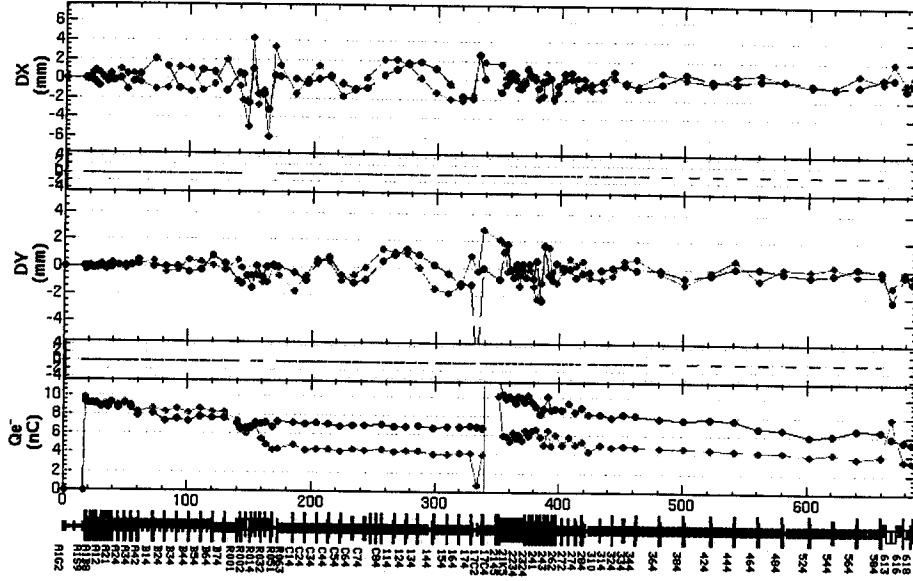


no orbit correction

Positron Linac/BT Orbit (2-bunch)

measuring at intervals of .1 sec

measured 09/03/2004 15:04:47



r.m.s = .729 mm
 max = 2.867 mm
 @ SP17C2
 min. = -3.188 mm
 @ SPR051

-1.254 mm
 @ SPB74
 (-1.183 ± 0.055 mm)

r.m.s = .837 mm
 max = 1.807 mm
 @ SP2225
 min. = -7.726 mm
 @ SP17C2

-1.664 mm
 @ SPR001
 (-1.909 ± 0.05 mm)

6.747 nC
 3.891 nC
 @ SP17C4
 (6.688 ± 0.26 nC)
 (4.102 ± 0.175 nC)

'004_18:56:22.dat

range DX Auto Fix (7) DV Auto Fix (5) Q Auto Fix (11) a/a' 10 Replot

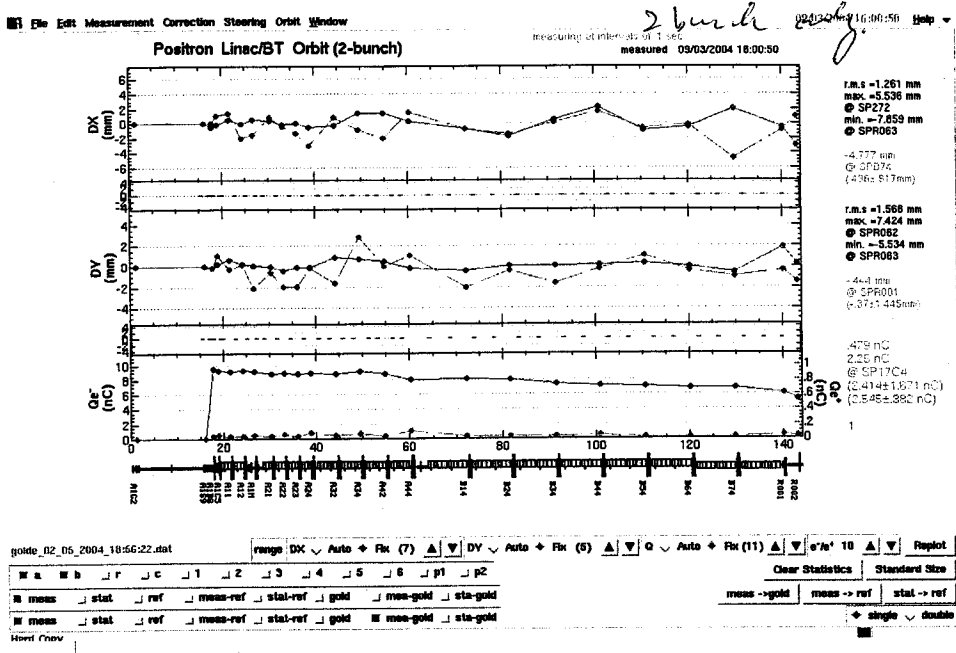
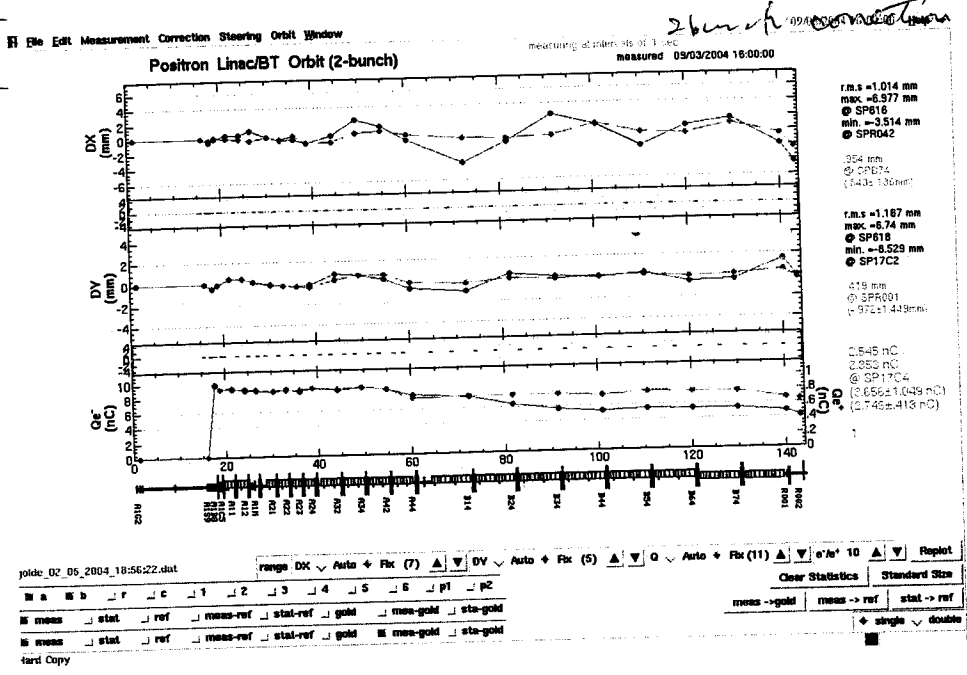
r c 1 2 3 4 5 6 p1 p2

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

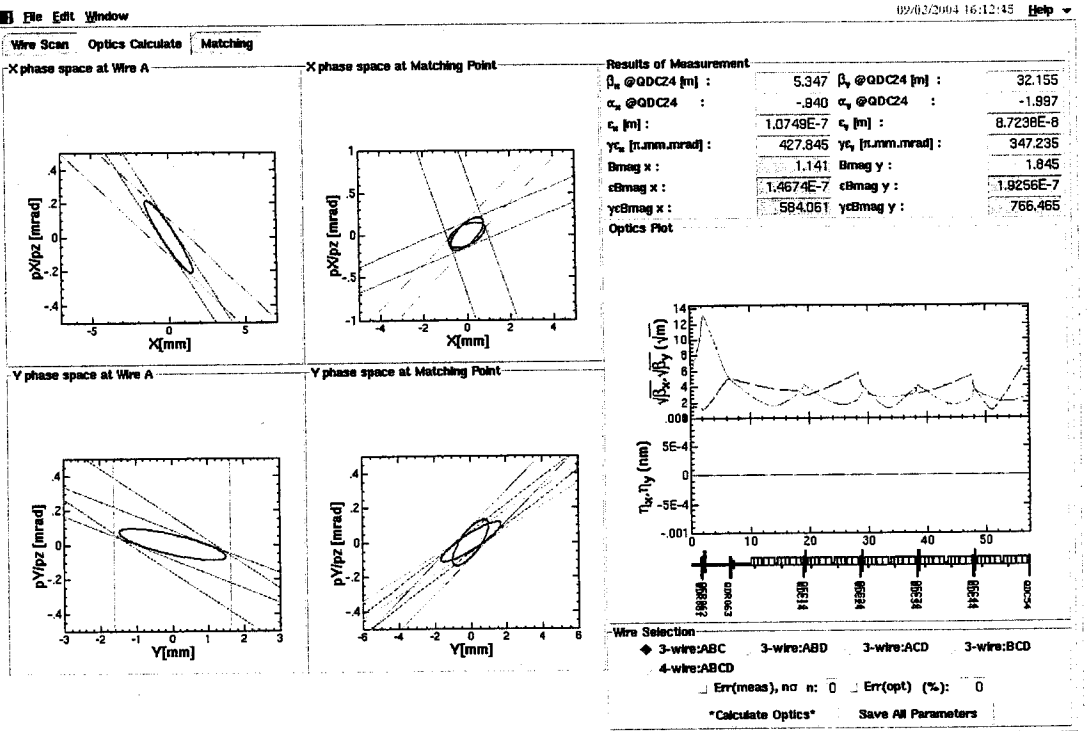
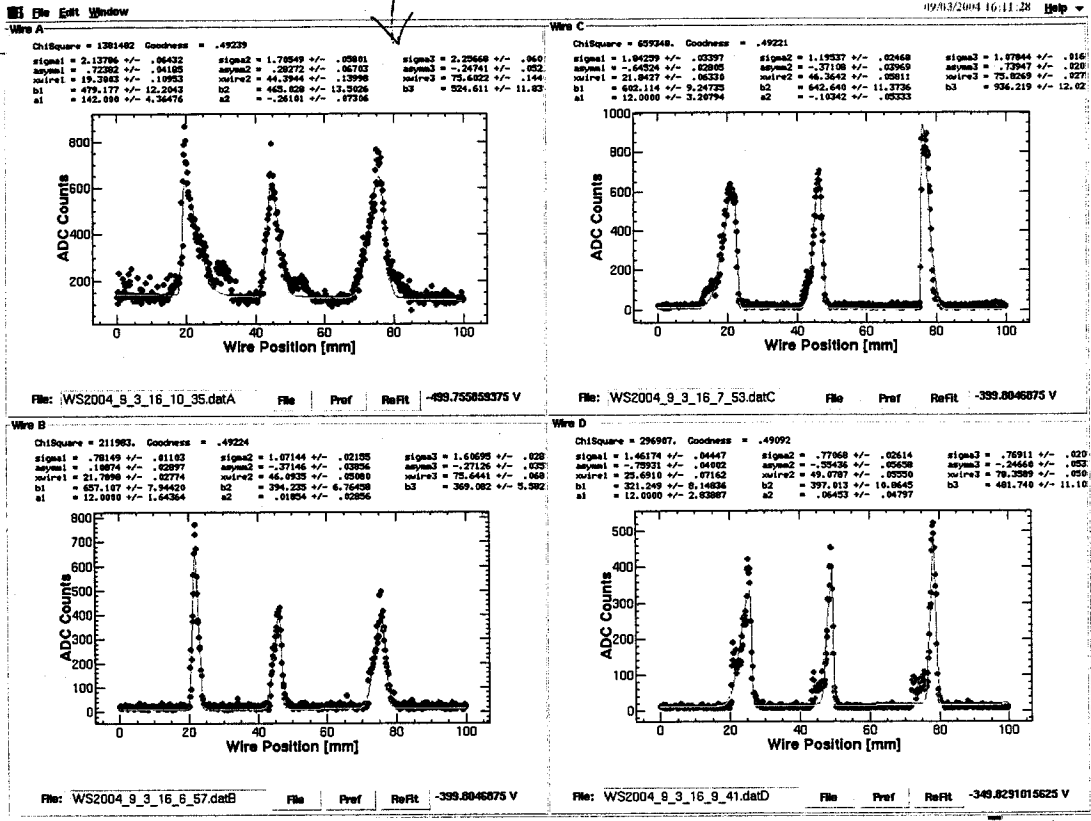
stat ref meas-ref stat-ref gold mea-gold sta-gold

meas -> gold meas -> ref stat -> ref

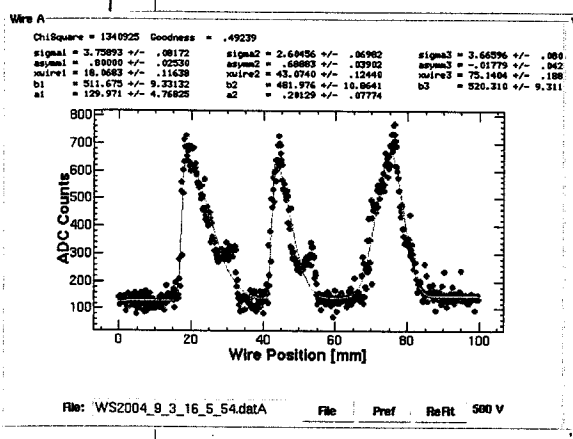
single double



Ce77- e⁺ 1st



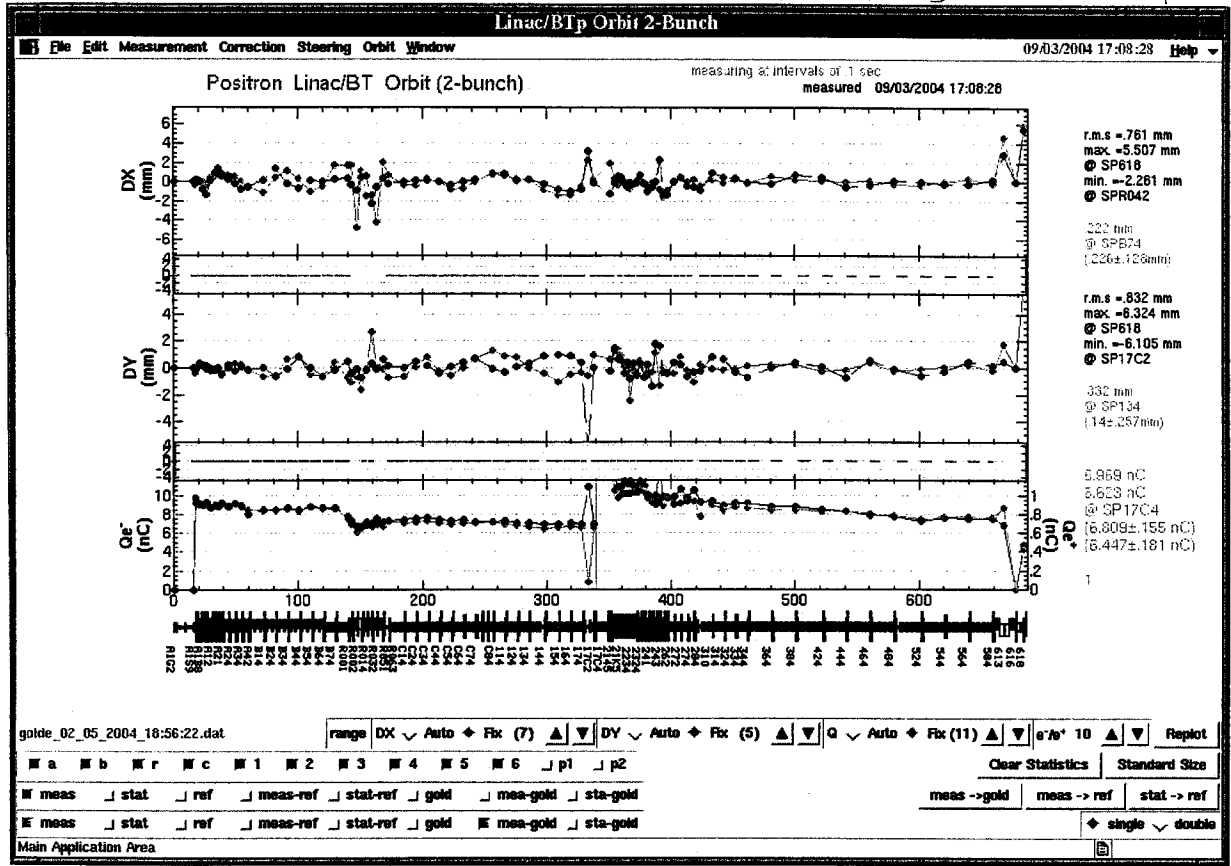
Omeg values were SAVEd to \data1\KEKB\Wire\LINAC\sectorC\positron\data\Qvalue\qname_2004_9_3_16_4_18.dat



A714 -
 16:05 に最初測定した時、
 ← ~~太かた~~ ビームサイズは
 太かた。

B, C, D と 1 同測定した後、
 七回一度 A714 を測ると太くしていった

STC 調整 (三菱 卓野)



予定

- ① 2-1 Streak Camera
- ② A sector end matching
Beam Loss を減らす
- ③ 2 sector matching
- ④ J-Arc Loss を減らす

17:25

2e-1 に切換え
軌道少し補正

2-1 streak

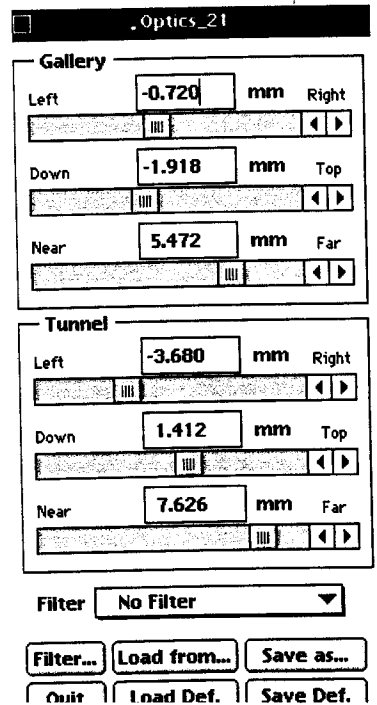
Focus は 720421 (か) 220

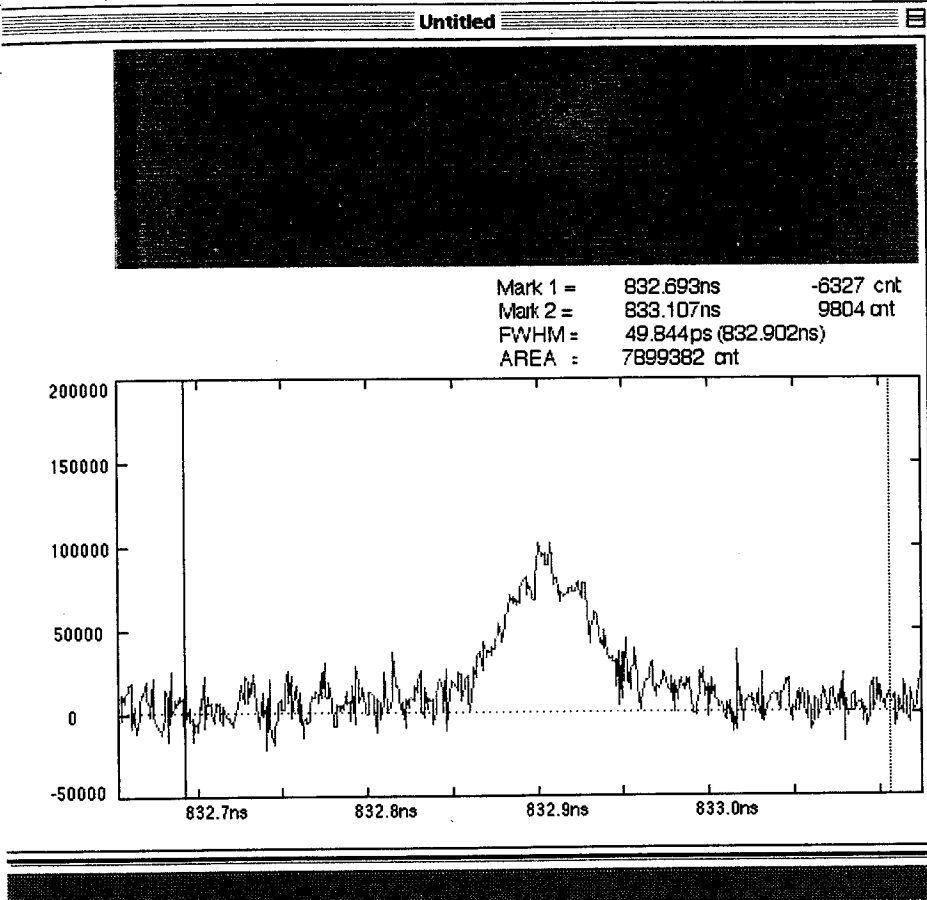
721421 の Streak (100 ns) 220

OTR 220 と 190200 220 の 220

0.2 ns range 220 220 の slit 幅は 1000 μ m 220

幅は 220 → 220-220 220





Measurement Condition

Live Time pul:
 Accum.Time pul:

Control the Streak Camera -
 D-Sweep Range

MCP Gain %
 Delay

Search pulse : cnt

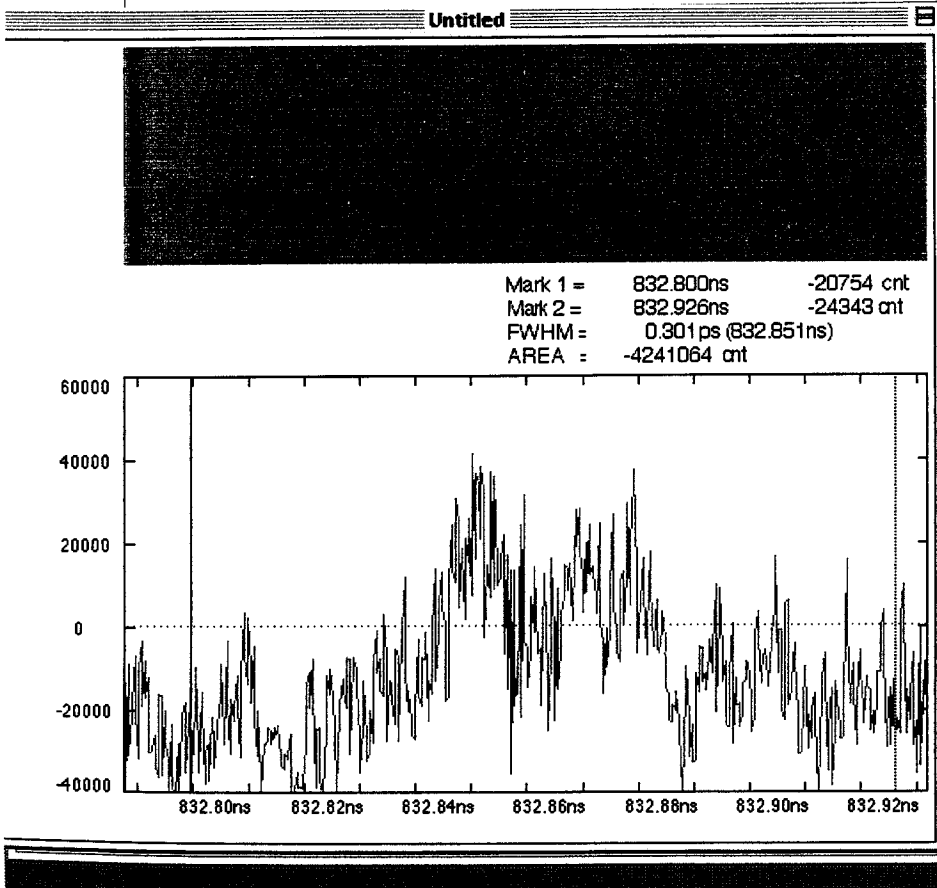
Input Optics
 Focus :
 Slit Width : un

Gravity Integ. Trig.Sin

Table... Quit **Do It**

Image Status

<< Condition : BeamC6699_21
 Accum.Time 100 pulse
 Mcp Gain 100[%]
 Streak Mode 0.50[NS]
 Streak Trigger SINGLE
 X:-0.720 Y:-1.918 Z: 5.4720
 DC Calibration ON
 DATE 2004:09:03
 TIME 19:27:19
 << Comment >>
 (No Filter)



Measurement Condition

Live Time pul:
 Accum.Time pul:

Control the Streak Camera -
 D-Sweep Range

MCP Gain %
 Delay

Search pulse : cnt

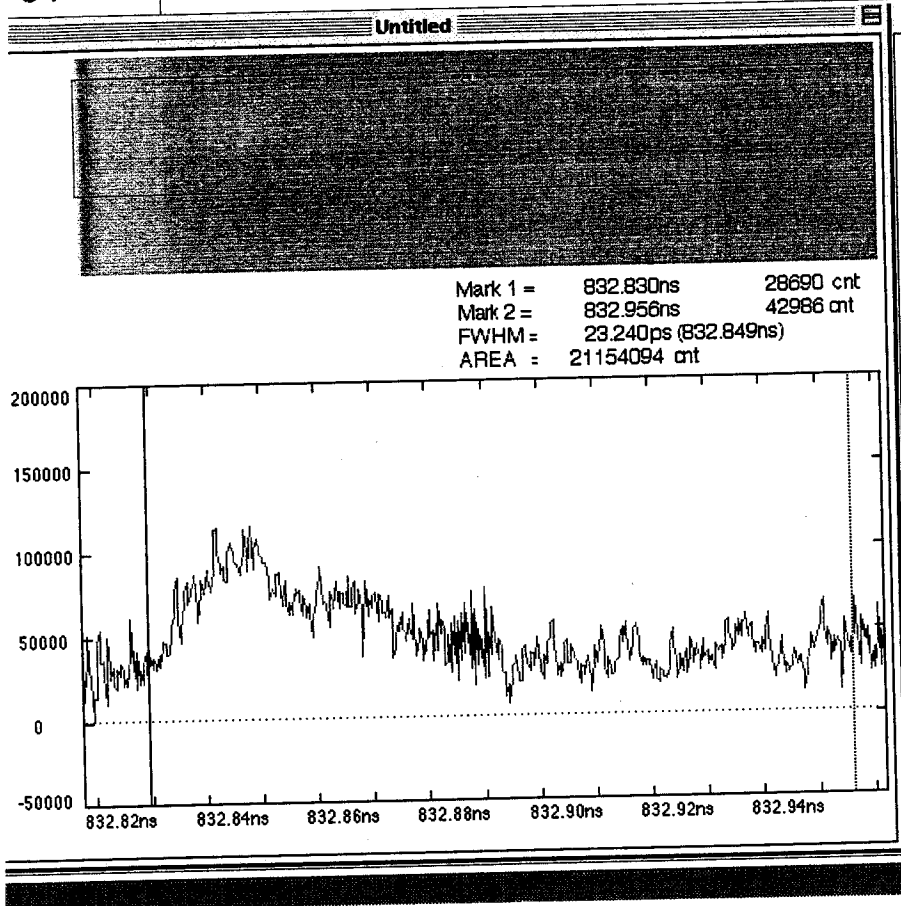
Input Optics
 Focus :
 Slit Width : un

Gravity Integ. Trig.Sin

Table... Quit **Do It**

Image Status

<< Condition : BeamC6699_21
 Accum.Time 100 pulse
 Mcp Gain 100[%]
 Streak Mode 0.20[NS]
 Streak Trigger SINGLE
 X:-0.720 Y:-1.918 Z: 5.4720
 DC Calibration ON
 DATE 2004:09:03
 TIME 19:33:08
 << Comment >>
 (No Filter)



Measurement Condition

Live Time pulse pulse
 Accum.Time pulse pulse

Control the Streak Camera

B-Sweep Range ns

MCP Gain % %
 Delay ns ns
 Search pulse : cnt. cnt.

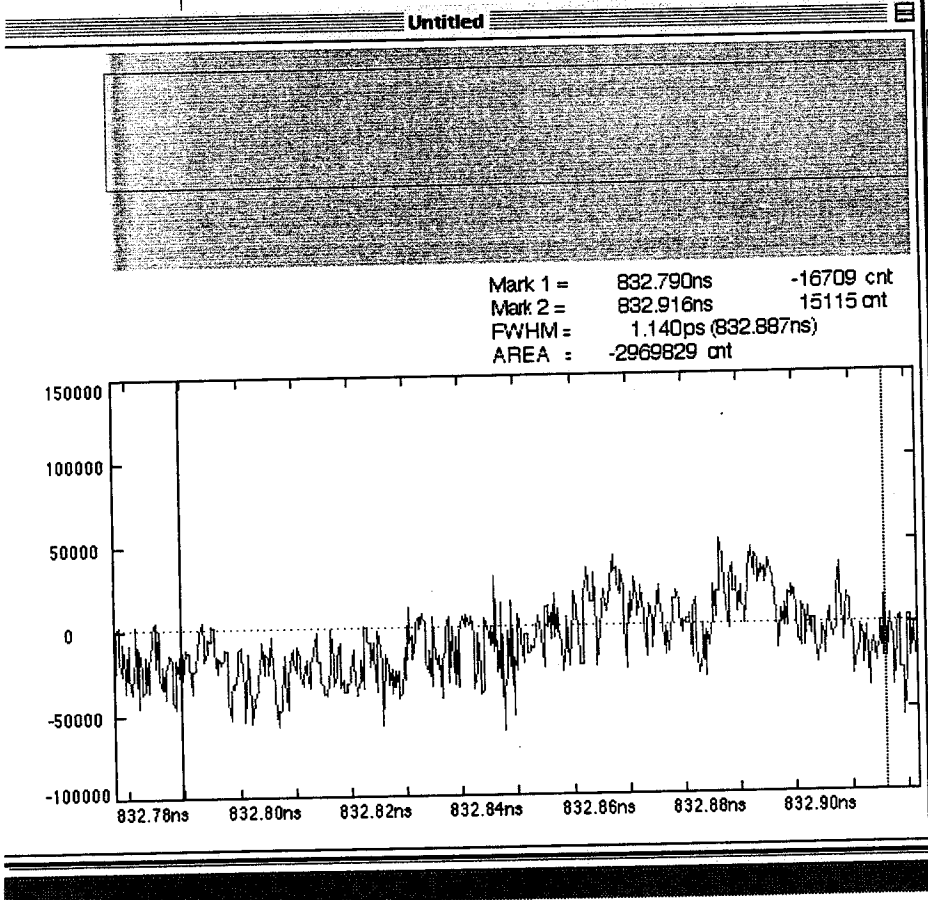
Input Optics

Focus : Open Open
 Slit Width : um um

Gravity Integ. Trig.Single Single

Image Status

<< Condition : BeamC6699_21 >> _21 >>
 Accum.Time 150 pulse
 Mcp Gain 100[%]
 Streak Mode 0.20[NS]
 Streak Trigger SINGLE
 X:-0.720 Y:-1.918 Z: 5.4720 20
 DC Calibration ON
 DATE 2004:09:03
 TIME 19:46:04
 << Comment >>
 (No Filter)



Measurement Condition

Live Time pulse pulse
 Accum.Time pulse pulse

Control the Streak Camera

B-Sweep Range ns

MCP Gain % %
 Delay ns ns
 Search pulse : cnt. cnt.

Input Optics

Focus : Open Open
 Slit Width : um um

Gravity Integ. Trig.Single Single

Image Status

<< Condition : BeamC6699_21 >> _21 >>
 Accum.Time 150 pulse
 Mcp Gain 100[%]
 Streak Mode 0.20[NS]
 Streak Trigger SINGLE
 X:-0.720 Y:-1.918 Z: 5.4720 20
 DC Calibration ON
 DATE 2004:09:03
 TIME 19:50:56
 << Comment >>
 (No Filter)

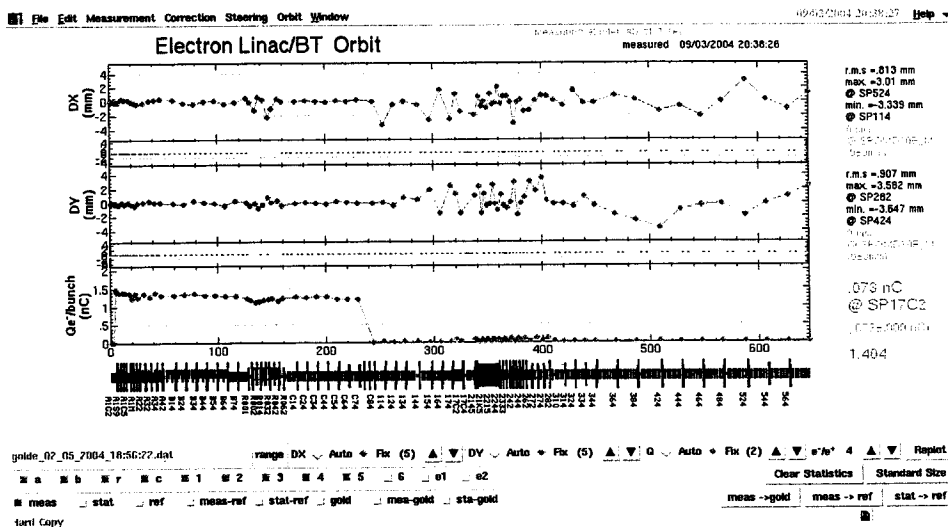
e- target 直後の X-Y coupling 補正の状況

• e+ target 直後の X-Y coupling 考慮が

余地あり

SP17-C2

を除外した



21:10

Simple correlation で SB-A, B を含む J-Arc 出口の charge の変化を見る (e+ 一次電子)

• simple correlation を stop 17 まで止める!!

energy FB は直さず。

File Edit Window

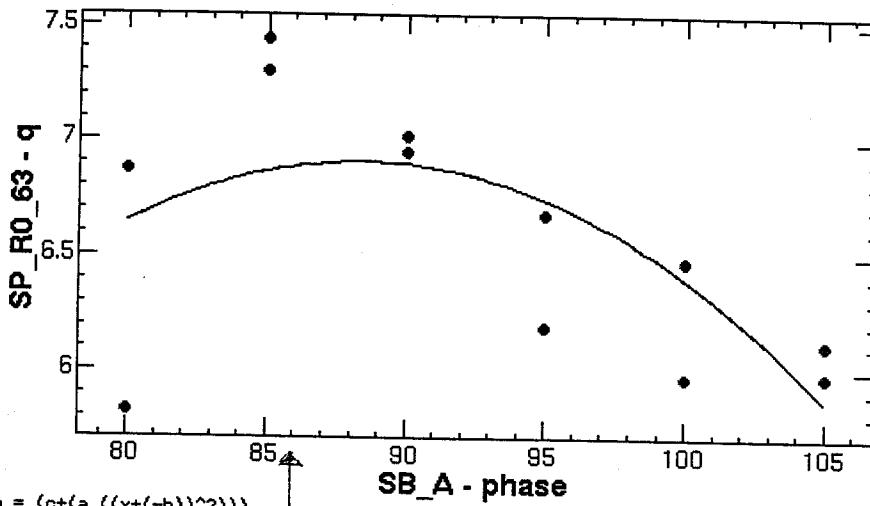
09/03/2004 21:10:17 Help

ChiSquare = 1.82943 Goodness = .43727

a = -.00378 +/- .00209

b = 88.3722 +/- 3.04281

c = 6.90853 +/- .18574



File Edit Window

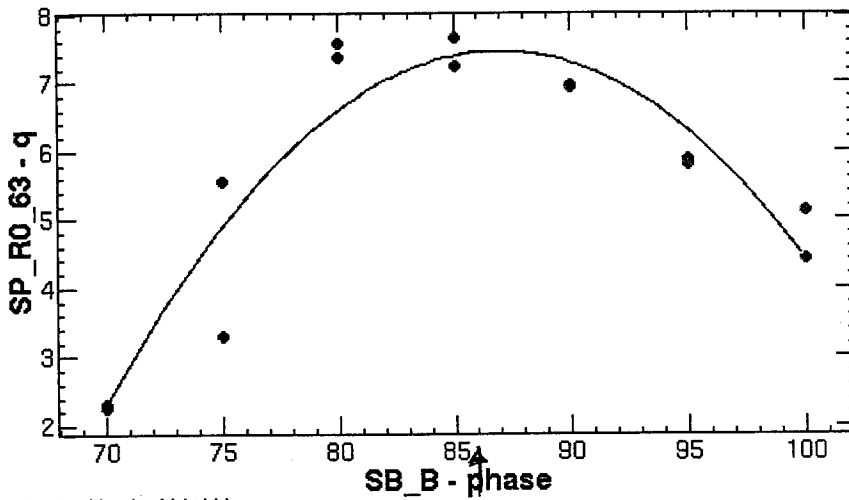
09/03/2004 21:22:20 Help

ChiSquare = 5.84700 Goodness = .44326

a = -.01802 +/- .00225

b = 86.9211 +/- .59137

c = 7.46245 +/- .29381



結局 元値に戻す (SB-A, B と $+86^\circ$)

J-Arc の et の 透過率 改善 と 関係

21:36

o B sector Wire scanner

A, B, C 2" B-Mag 2. (H, V)

↳ Matching calc → set charge 減少

→ Q-mag restore

o Manual Matching B sector の Q 値 の 多数 と

強くあり → 1バッチ毎の charge 変動

↳ 軌道補正で 2 bunch の charge 回復

Eyaku 試行
(花村)

bt data (save) 17:19 09/03/04

MAGNET NAME	DAC /ADC	DAC /ADC	DAC-REF	ADC-REF
BX A1 B8	0.810/0.811	0.871/0.881	-0.061	-0.07
BY A1 B8	-0.133/-0.159	-0.194/-0.222	0.061	0.063
QD/D B1 4	3.912/3.931	4.000/4.014	-0.088	-0.083
QF B1 4	4.029/4.028	4.000/3.999	0.029	0.029
QD/D B2 4	4.811/4.844	5.045/5.073	-0.234	-0.229
QF B2 4	5.031/5.020	5.167/5.151	-0.136	-0.131
QD/D B3 4	5.778/5.791	6.276/6.294	-0.498	-0.503
QF B3 4	6.032/6.030	6.374/6.372	-0.342	-0.342
QD/D B4 4	6.818/6.812	8.151/8.154	-1.333	-1.342
QF B4 4	7.111/7.114	8.869/8.896	-1.758	-1.782
SX B1 1	0.197/0.198	0.123/0.125	0.074	0.073
SY B1 1	-3.308/-3.289	-3.508/-3.491	0.2	0.202
SX B2 1	-0.651/-0.649	-1.352/-1.353	0.701	0.704
SY B2 1	1.269/1.272	1.569/1.572	-0.3	-0.3
SX B2 3	0.629/0.632	0.490/0.493	0.139	0.139
SX B3 1	0.043/0.044	0.758/0.759	-0.715	-0.715
SY B3 1	-1.357/-1.357	-1.857/-1.860	0.5	0.503
SX B4 1	0.143/0.151	-0.553/-0.547	0.696	0.698
SY B4 1	0.470/0.474	0.370/0.374	0.1	0.1
SX B4 3	-0.372/-0.371	-0.385/-0.381	0.013	0.01
QD/D B5 4	7.722/7.739	9.118/9.136	-1.396	-1.397
QF B5 4	8.049/8.066	9.065/9.087	-1.016	-1.021
QD/D B6 4	8.527/8.511	8.806/8.794	-0.279	-0.283
QF B6 4	9.045/9.058	9.231/9.243	-0.186	-0.185
QD/D B7 4	14.012/14.033	14.071/14.092	-0.059	-0.059
QF B7 4	12.786/12.778	12.723/12.725	0.063	0.053
SX B5 1	0.792/0.793	0.878/0.876	-0.086	-0.083
SX B5 3	-0.692/-0.688	-0.050/-0.046	-0.642	-0.642
SX B6 1	-1.212/-1.206	0.070/0.076	-1.282	-1.282
SY B6 1	0.385/0.388	0.585/0.583	-0.2	-0.195
SX B6 3	-0.096/-0.095	-0.717/-0.713	0.621	0.618
SX B7 1	-0.221/-0.220	-1.012/-1.011	0.791	0.791
SY B7 1	-0.319/-0.317	-0.719/-0.715	0.4	0.398
SX B8 1	2.392/2.390	2.580/2.578	-0.188	-0.188
SX B8 3	1.381/1.396	0.651/0.674	0.72	0.722
BY R0 01	-0.438/-0.437	-0.360/-0.356	-0.078	-0.081
BX R0 01	-1.657/-1.658	-1.620/-1.619	-0.037	-0.039
BY R0 23	-0.326/-0.325	-0.270/-0.266	-0.056	-0.059
BX R0 63	0.289/0.283	0.370/0.366	-0.081	-0.083
SX C1 1	-0.177/-0.181	0.741/0.740	-0.918	-0.921
SY C1 1	0.551/0.552	1.816/1.821	-1.265	-1.269
SX C1 3	0.001/0.000	-1.691/-1.702	1.692	1.702
SY C1 3	0.001/0.005	-0.282/-0.283	0.283	0.288
SX C2 1	-0.375/-0.376	-0.026/-0.024	-0.349	-0.352