

2004 6/22 10:43

8 GeV  $e^-$  C sector wide scanner.

$$\gamma \Sigma_x = 1.1 \text{ [mm.rad]} \rightarrow 1.1 \times 10^{-6} \text{ [m]} \quad \alpha$$

$$\gamma \Sigma_y = 1.6 \text{ [mm.rad]} \quad 1.6 \times 10^{-6} \text{ [m]} \quad \leftarrow \alpha$$

$$\beta_x(40024) \quad 8.974 \text{ m} \quad \beta_y \quad 16.617 \text{ m}$$

$$\alpha_x \quad -0.7943 \quad \alpha_y \quad -2.237$$

LINAC Multi Energy

目的 PF.AR. KEKB 同時入射 Study

8GeV, 2.5GeV.

2004. 6/28 ~ 11:00

8GeV e<sup>-</sup>

大西. 紙谷. 小川. 吉川. 飯田  
南地. 横山.

◎ C sector ワヤースキナーの測定値を使って  
大西氏 New Optics を設定. (◎ C 079-以降)

File Edit Command Set Plot SAD Window

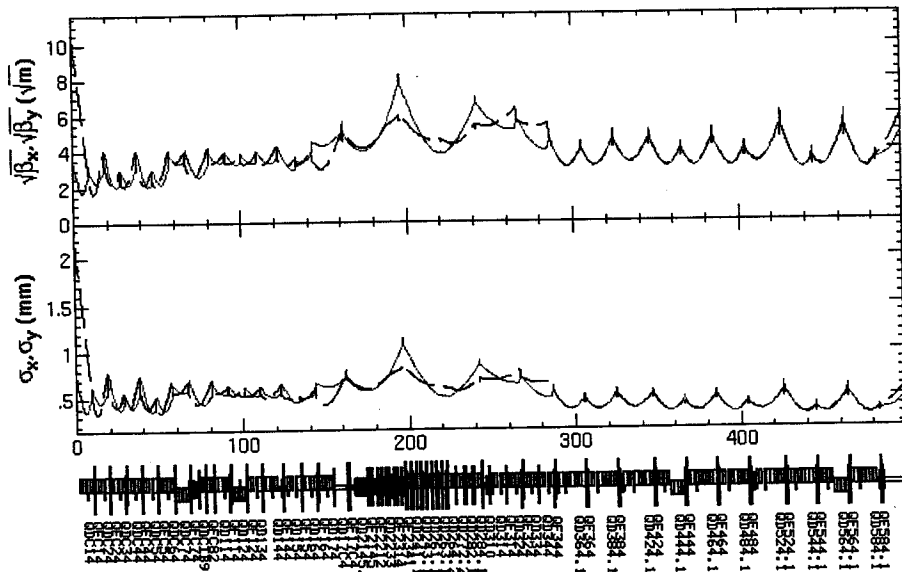
06/28/2004 10:50:43 Help

C-5 sector (Electron Mode)

Optics Quad Acc

11:29

Judge factor は 1.2 set

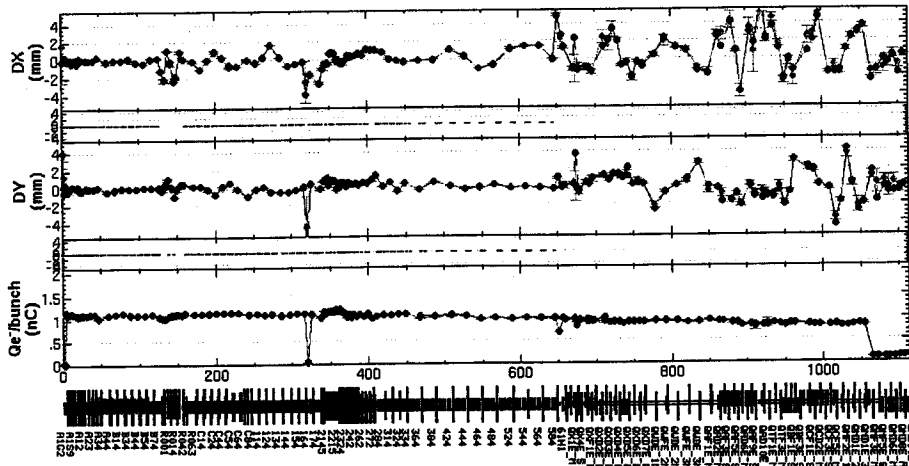


File Edit Measurement Correction Steering Orbit Window

06/28/2004 11:15:33

Electron Linac/BT Orbit

measuring at intervals of 1 sec  
measured 06/28/2004 11:15:31



r.m.s = 1.589 m  
max = 6.565 m  
@ SPQTF1E.J  
min = -3.886 m  
@ SP17C2  
-052 mm  
@ SP564  
(-032 ± 031 mm)

r.m.s = 1.338 m  
max = 4.151 m  
@ SPQMD1E  
min = -0.502 m  
@ SP17C2  
566 mm  
@ SP364  
(536 ± 046 mm)

.814 nC  
@ SPQM  
(.827 ± 017 n)

.75

軌道補正

golde\_02\_05\_2004\_18:56:22.stat

range DX v Auto Fx (5) DY v Auto Fx (5) Q v Auto Fx (2) e/h\* 4

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

Clear Statistics Standby  
meas -> gold meas -> ref stat

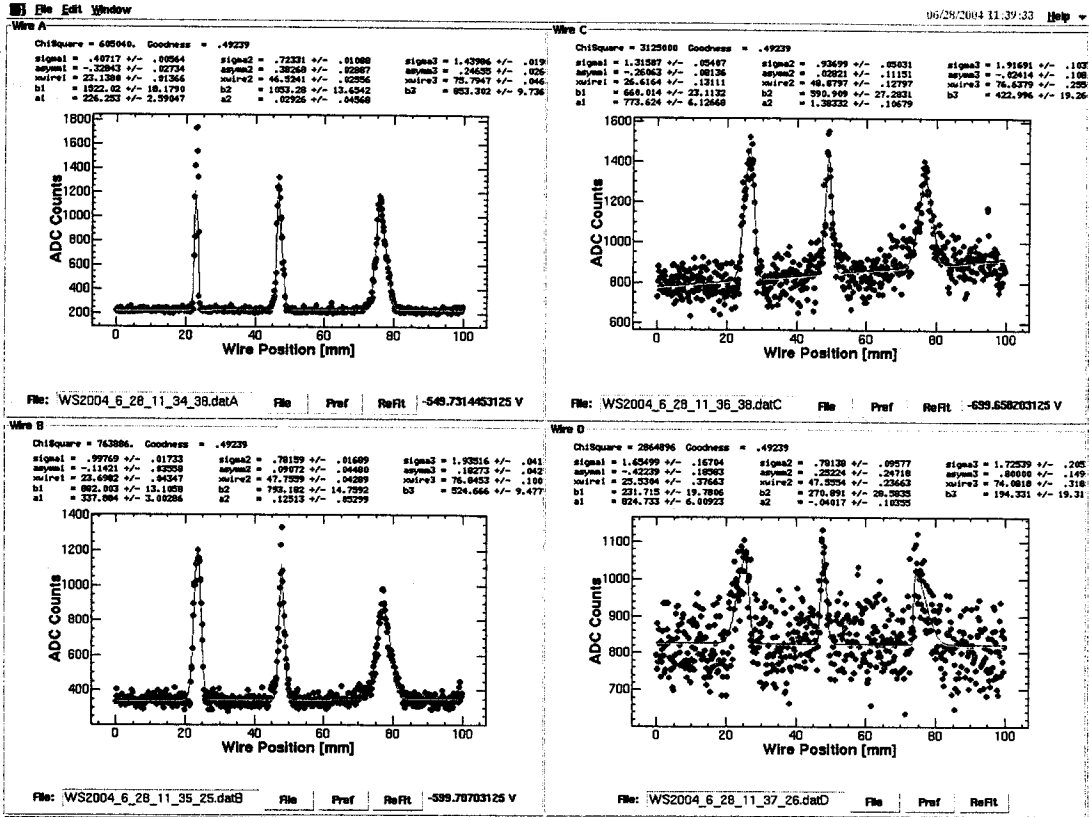
Progress Bar

11:29

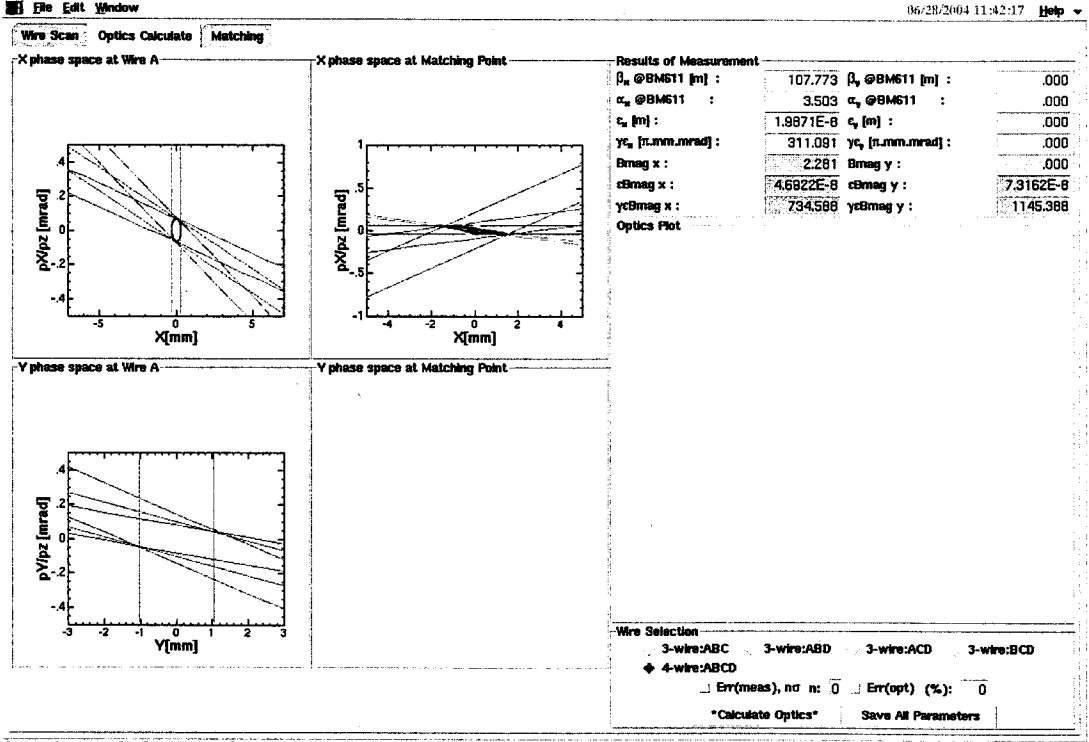
ワイヤスケッチ - 5079 - 7 測定

8GeV New optics.

lgname\_2004-6-28-11-29\_43.dat



Main Application Area



Omega values were SAVED to /data1/KEKB/Wire/LINAC/sactor5/KEKBdata/Ovalue/lgname\_2004\_6\_28\_11\_29\_43.dat

OAの手了.

- Q{ED} 31, Q{TD} 34 を ~~2.5 GeV~~ → 8.0
- 5セタ - 最後の QM design に 3.83 に 計算し直し
- fudge factor = 1.023 (Matching と 3.83 に @BM611 (5セタ - Q magnet のみ))

~ 13:50

2.5 GeV. BM611 の design parameter is  
軌道補正  
"lqname -2004-6-28-14-47-34.dat"

~ 14:30

**予定**

2.5 GeV.

- Energy define BM611 → SP61H / SC61H (± 17")
- ECS Magnet を 8.0 → 2.5 GeV. \$1/52
- ① スクリーンを見よ. ② 軌道記録 (spdata)
- Wire を 理す.

8.0 GeV.

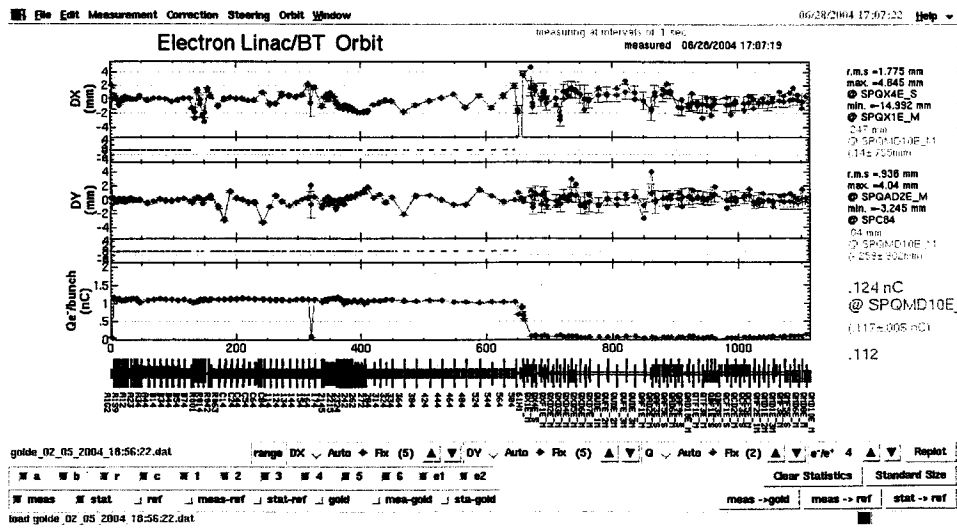
- 軌道は補正し直し. (大き<17.)
- Wire の Matching
- Energy Spread 調整
- BT
  - Energy Spread (Wire)
  - Matching (-)
- 入射.

裏で家入の Study していただき 終了.  
KEKB 通常運転に.

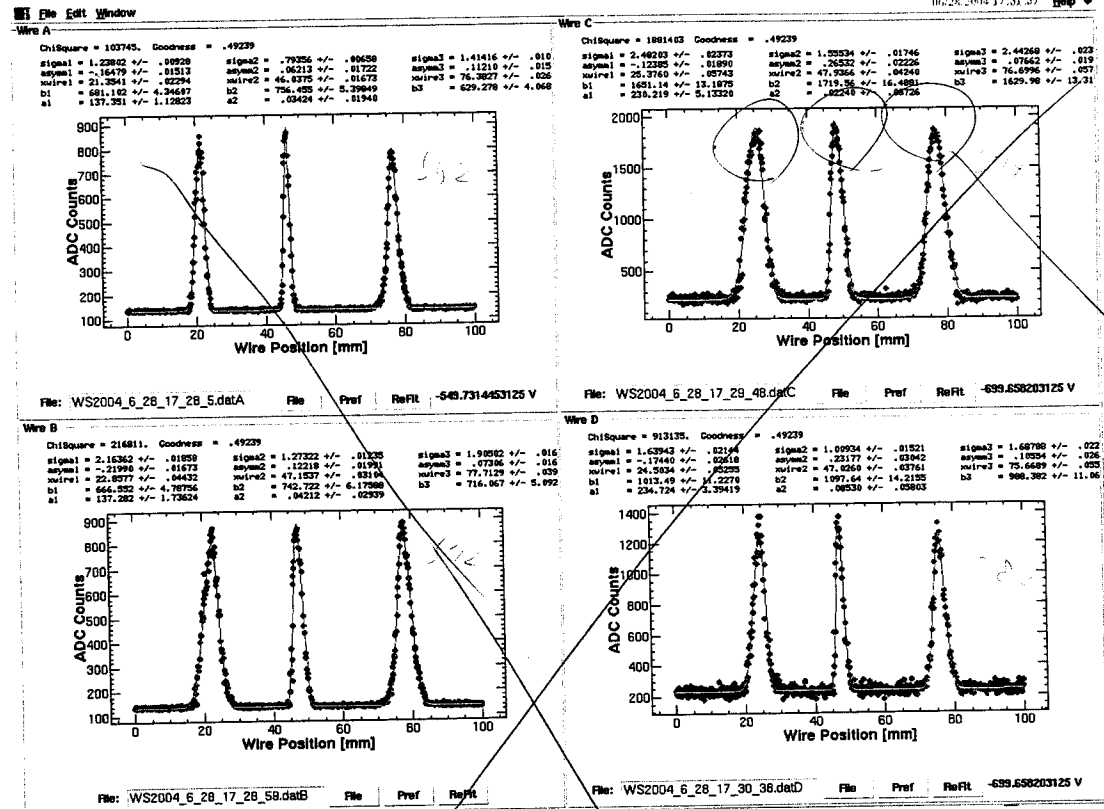
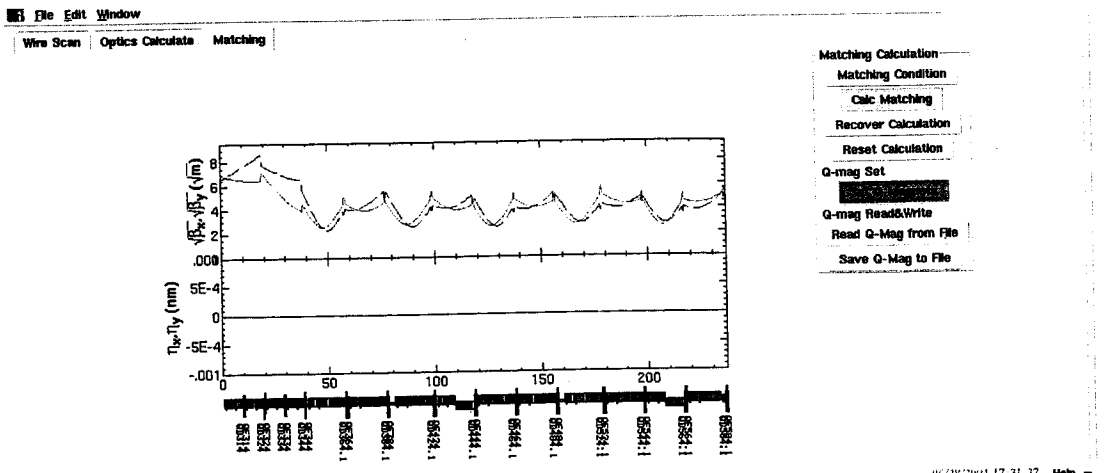
入射繰り返しが変わらないうトラブル発生.

16:52 Study 再開. Dump Mode.  
 SC 61H のアグリ-にて確認した  
 (ECS 頭)

BM_name	BMcurrent	BeamEnergy						
<b>BM_61_1</b>	<b>119.292 A</b>	<b>2.7035 GeV</b>						
BS_name	BScurrent							
BS_61_1	OFF A							
Information								
Dispersion = 0.331 m at SC_61_H								
Dispersion = 2.444 m at SC_61_A1								
Dispersion = 3.776 m at SC_61_A2								
Messages								
A1A	A4A	ARC	BCS	28A	61H	61A	ECS	Quit

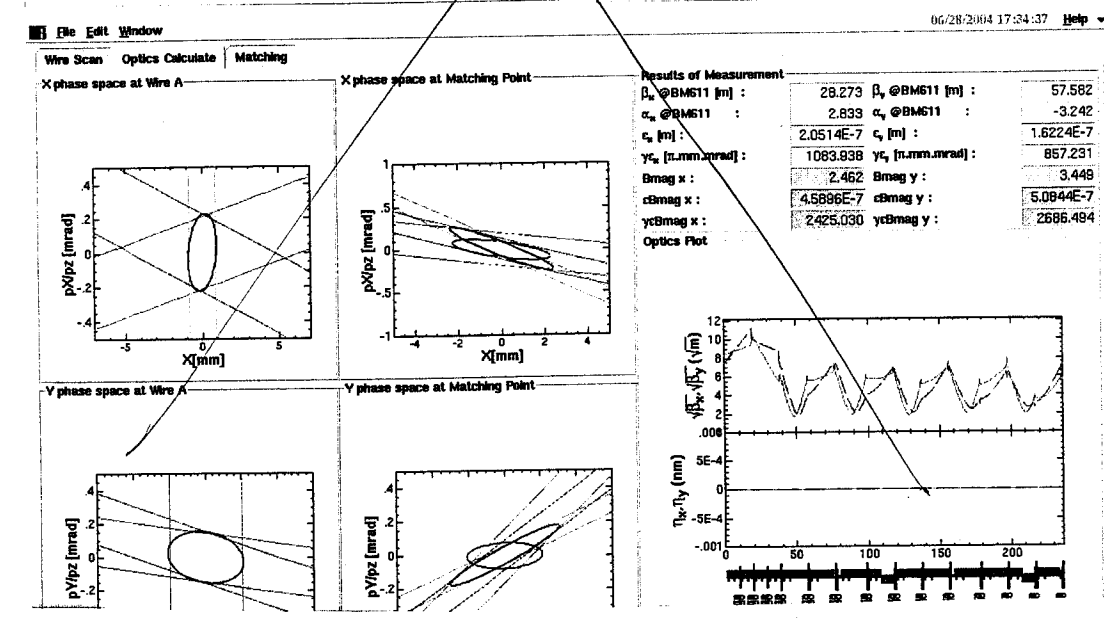


Qmagnt QF584  $\Sigma$  Manual  $\bar{\tau}$  調整.  
 14.081  $\rightarrow$  17.377 (A)  
 QDF/564  $\oplus$



ビームサイズは  
8GeVの  
4倍。

PMのHVが  
高すぎたために  
サックしている  
P.143.



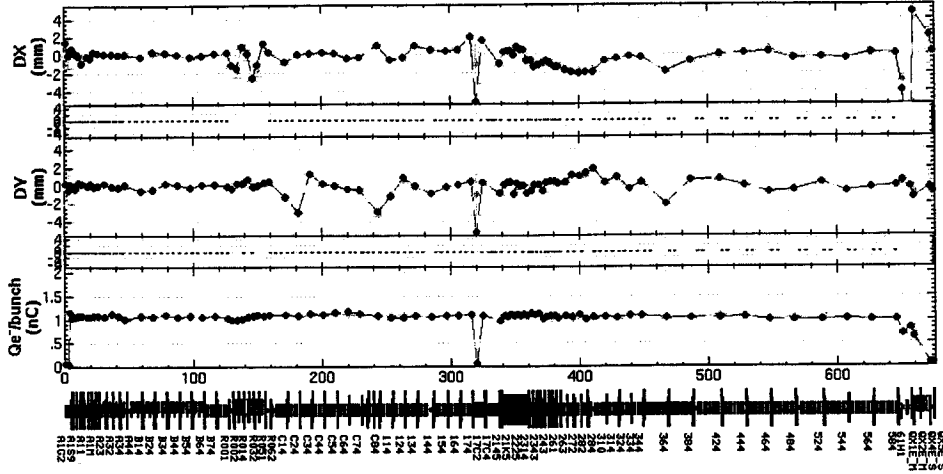
ビームは4倍

741

2.7 GeV

### Electron Linac/BT Orbit

measuring at intervals of 1 sec  
measured 06/28/2004 17:30:29



golde\_02\_05\_2004\_18:56:22.dat    range DX Auto Fix (5)    DY Auto Fix (5)    Q Auto Fix (2)    e/e' 4    Replot

wa wb wr wc 1 2 3 4 5 6 | e1 | e2    Clear Statistics    Standard Size

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

Hard Copy

2.7 GeV SP61H (20F) 564, 584 ~~1273~~

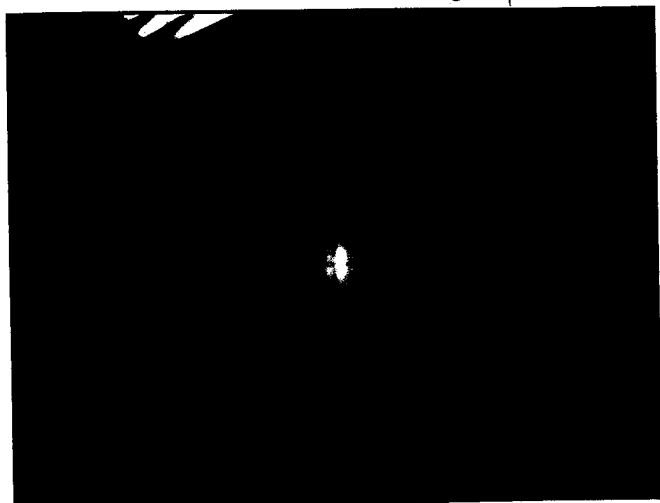




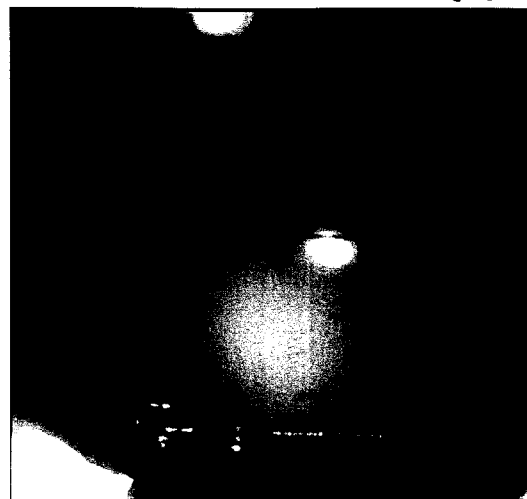
2.5 (2.7 GeV)

18:24 Wire Scanner 再測定

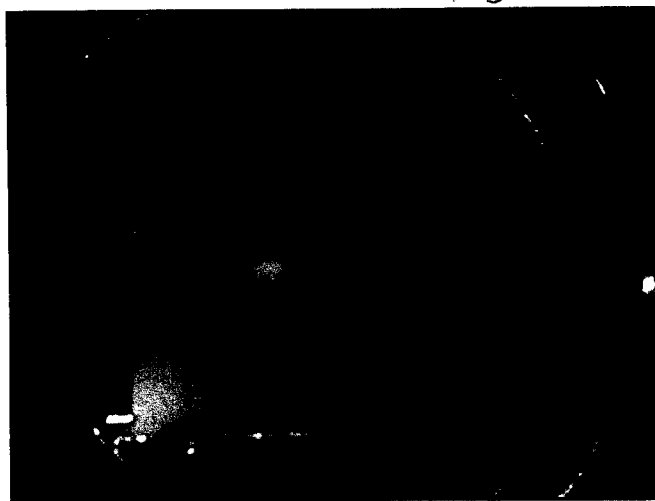
5-1



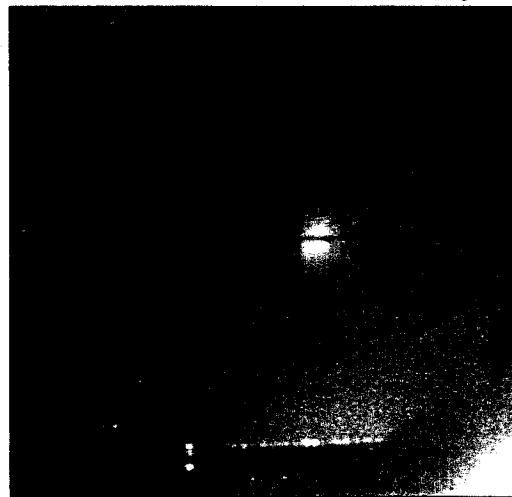
5-5

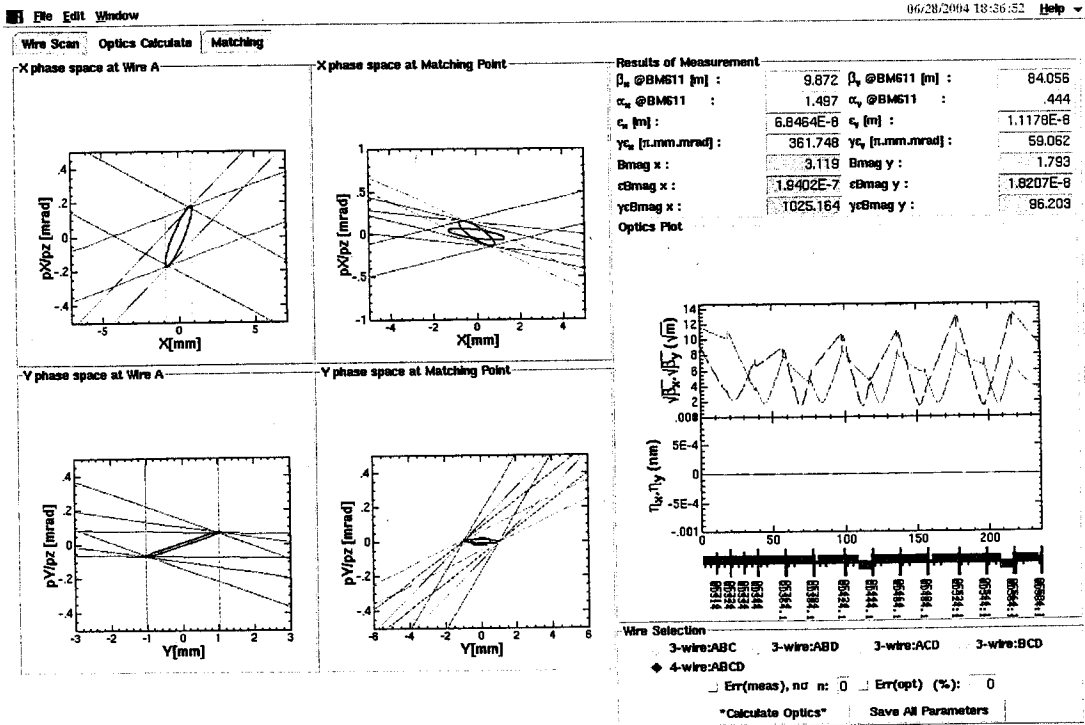
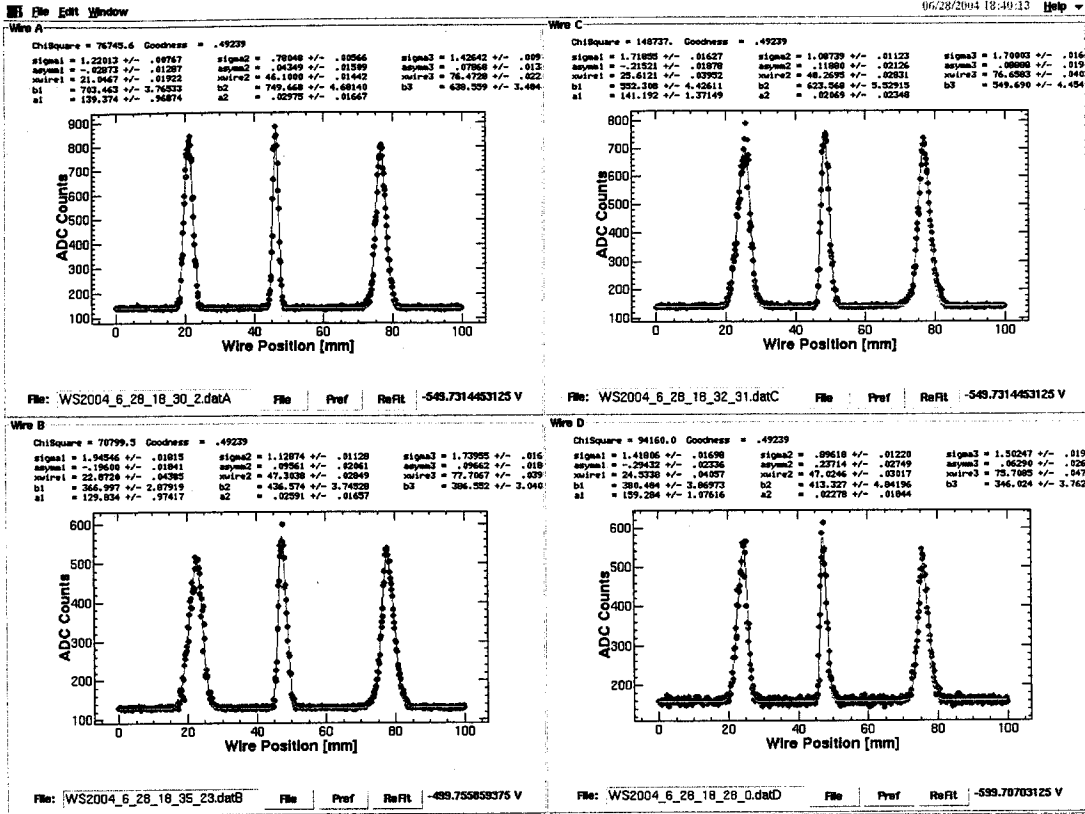


5-3



5-8





Qmag values were SAVED to .adata1/KEKB/Wire/LINAC/sectors5/KEKB/data/Gvalue/qname\_2004\_6\_28\_18\_23\_42.dat0