

2006.1.10

PF Beam 調整

紙谷、飯田、横山

5セクタで強くかけてるステアリング<sup>※</sup> (SX, Y-3 1/2<sup>0</sup> ~~1/2~~) を弱くして  
Linac Line はビームをきりあぐに通す。(Energy FeedbackはOFF)

BS-58-1 OA.

イマジ-スプリッド 調整 SB-1 ~ 4  $96^\circ \rightarrow 98.5^\circ$

イマジ- knob  $\frac{\text{set}}{2.4537} \rightarrow 2.4563 \rightarrow \underline{2.4601} \rightarrow \underline{2.4473}$   
元

○ 飯田さんの BM 値は設計値

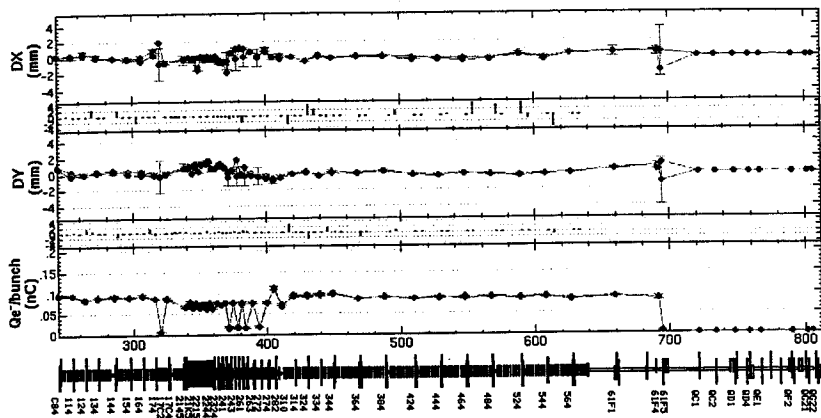
~~BM~~ +0.418 mRad Linac と PF Line X 方向ずれ。

BM-58-1 の切り角を増やして、通るようにした。

F1 と F4 のダイスパ-ジョ-リ-パ-タ-ンが設計通りに出た。

Energy Feedback offset 1.2  $\rightarrow$  0 mm  
(61F4)

measuring at intervals of 1 sec  
measured 01/10/2006 16:44:10



r.m.s = 916 mm  
 max = 3.276 mm  
 @ SPR002  
 min. = -1.946 mm  
 @ SPA44  
 665 mm  
 @ SP61F4  
 (-500; 624mm)

r.m.s = 982 mm  
 max = 2.02 mm  
 @ SPA1C5  
 min. = -3.569 mm  
 @ SPC74  
 0 mm  
 @ SPQ322  
 (0-0mm)

0 nC  
 @ SPQG22  
 (0=0 nC)

96562

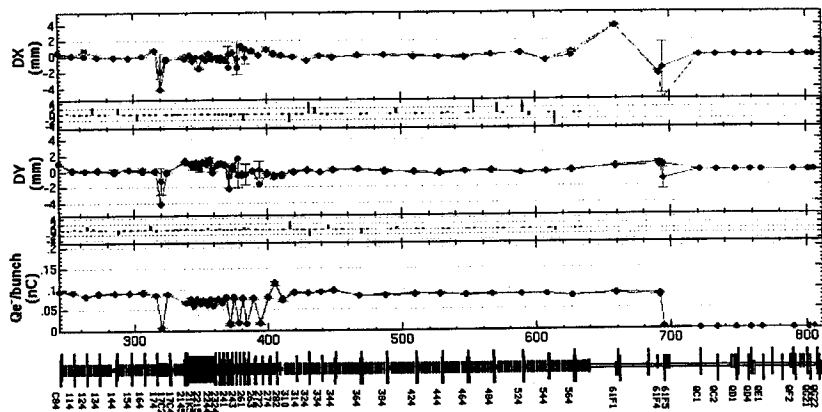
mode  $\downarrow$  e'  $\downarrow$  e''      range DX  $\downarrow$  Auto  $\downarrow$  Fix (5)  $\uparrow$   $\downarrow$  DY  $\downarrow$  Auto  $\downarrow$  Fix (5)  $\uparrow$   $\downarrow$  Q  $\downarrow$  Auto  $\downarrow$  Fix (2)  $\uparrow$   $\downarrow$  e'/e'' 4  $\uparrow$   $\downarrow$  Replot

a  b  r  c  1  2  3  4  5  6  p1  p2      Clear Statistics

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

Hard Copy

measuring at intervals of 1 sec  
measured 01/10/2006 16:49:21



r.m.s = 1.34 mm  
 max = 3.763 mm  
 @ SPB1F1  
 @ SPB1F5  
 min. = -3.613 mm  
 @ SPB1F5  
 -3.64 mm  
 @ SP61F4  
 (-2.319; 142mm)

r.m.s = 1.136 mm  
 max = 3.14 mm  
 @ SPB14  
 min. = -4.058 mm  
 @ SP17C2  
 0 mm  
 @ SPQG22  
 (0-0mm)

0 nC  
 @ SPQG22  
 (0=0 nC)

344

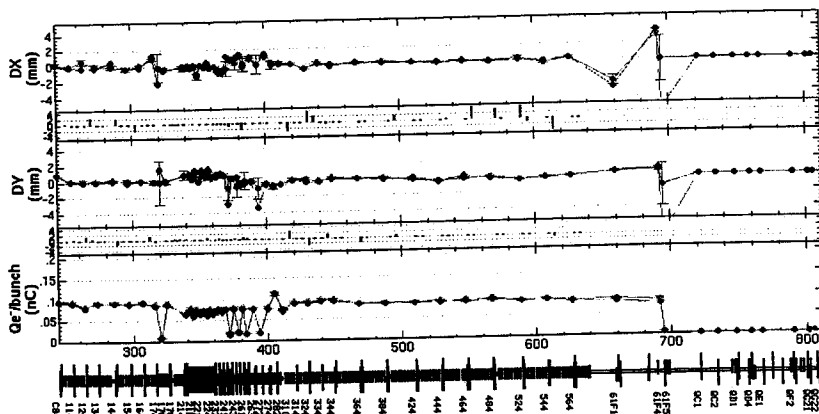
mode  $\downarrow$  e'  $\downarrow$  e''      range DX  $\downarrow$  Auto  $\downarrow$  Fix (5)  $\uparrow$   $\downarrow$  DY  $\downarrow$  Auto  $\downarrow$  Fix (5)  $\uparrow$   $\downarrow$  Q  $\downarrow$  Auto  $\downarrow$  Fix (2)  $\uparrow$   $\downarrow$  e'/e'' 4  $\uparrow$   $\downarrow$  Replot

a  b  r  c  1  2  3  4  5  6  p1  p2      Clear Statistics

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

Hard Copy

measuring at intervals of 1 sec  
measured 01/10/2006 16:53:21



r.m.s = 1.461 mm  
 max = 4.32 mm  
 @ SPB44  
 min. = -6.329 mm  
 @ SPB1F5  
 1.551 mm  
 @ SP61F4  
 (-1.051; 450mm)

r.m.s = 1.24 mm  
 max = 2.387 mm  
 @ SPC34  
 min. = -7.674 mm  
 @ SPB1F5  
 0 mm  
 @ SPQG22  
 (0-0mm)

0 nC  
 @ SPQG22  
 (0=0 nC)

10.456

mode  $\downarrow$  e'  $\downarrow$  e''      range DX  $\downarrow$  Auto  $\downarrow$  Fix (5)  $\uparrow$   $\downarrow$  DY  $\downarrow$  Auto  $\downarrow$  Fix (5)  $\uparrow$   $\downarrow$  Q  $\downarrow$  Auto  $\downarrow$  Fix (2)  $\uparrow$   $\downarrow$  e'/e'' 4  $\uparrow$   $\downarrow$  Replot

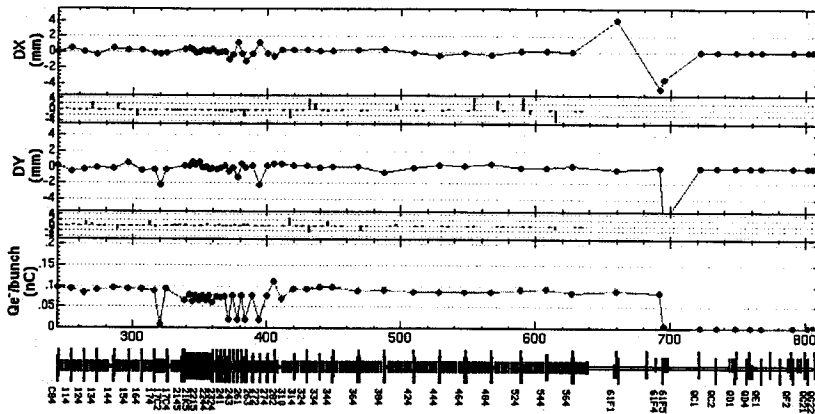
a  b  r  c  1  2  3  4  5  6  p1  p2      Clear Statistics

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

Hard Copy

measuring at intervals of 1 sec

measured 01/10/2006 16:55:34



r.m.s = 1.036 mm  
 max = 4.328 mm  
 @ SP61F1  
 min. = -3.48 mm  
 @ SPA32  
 -3.337 mm  
 @ SP61F4  
 (1.069 ± 1.81 mm)

r.m.s = 1.197 mm  
 max = 2.334 mm  
 @ SPC54  
 min. = -5.678 mm  
 @ SP61F5  
 0 mm  
 @ SPQG22  
 (0 ± 0 mm)

0 nC  
 @ SPQG22  
 (0 ± 0 nC)  
 53.378

mode  $\sqrt{e'}$   $\rightarrow$   $e'$  range DX  $\sqrt{}$  Auto  $\rightarrow$  Fbx (5)  $\Delta$   $\nabla$  DY  $\sqrt{}$  Auto  $\rightarrow$  Fbx (5)  $\Delta$   $\nabla$  Q  $\sqrt{}$  Auto  $\rightarrow$  Fbx (2)  $\Delta$   $\nabla$  e'/e' 4  $\Delta$   $\nabla$  Replot

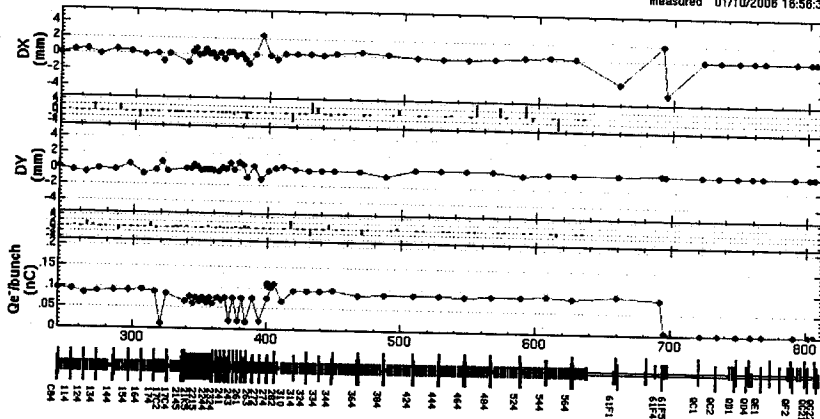
┌ a ─┘ ┌ b ─┘ ┌ r ─┘ ┌ c ─┘ 1 2 3 4 5 6 p1 p2 Clear Statistics

┌ meas ─┘ ┌ stat ─┘ ┌ ref ─┘ meas-ref ─┘ stat-ref meas  $\rightarrow$  ref stat  $\rightarrow$  ref

Hard Copy

measuring at intervals of 1 sec

measured 01/10/2006 16:56:36



r.m.s = 1.133 mm  
 max = 3.254 mm  
 @ SP61F4  
 min. = -3.906 mm  
 @ SPA1B0  
 3.254 mm  
 @ SP61F4  
 (1.69 ± 2.235 mm)

r.m.s = 1.2 mm  
 max = 2.704 mm  
 @ SPA11  
 min. = -4.054 mm  
 @ SPA44  
 0 mm  
 @ SPQG22  
 (0 ± 0 mm)

0 nC  
 @ SPQG22  
 (0 ± 0 nC)  
 95.293

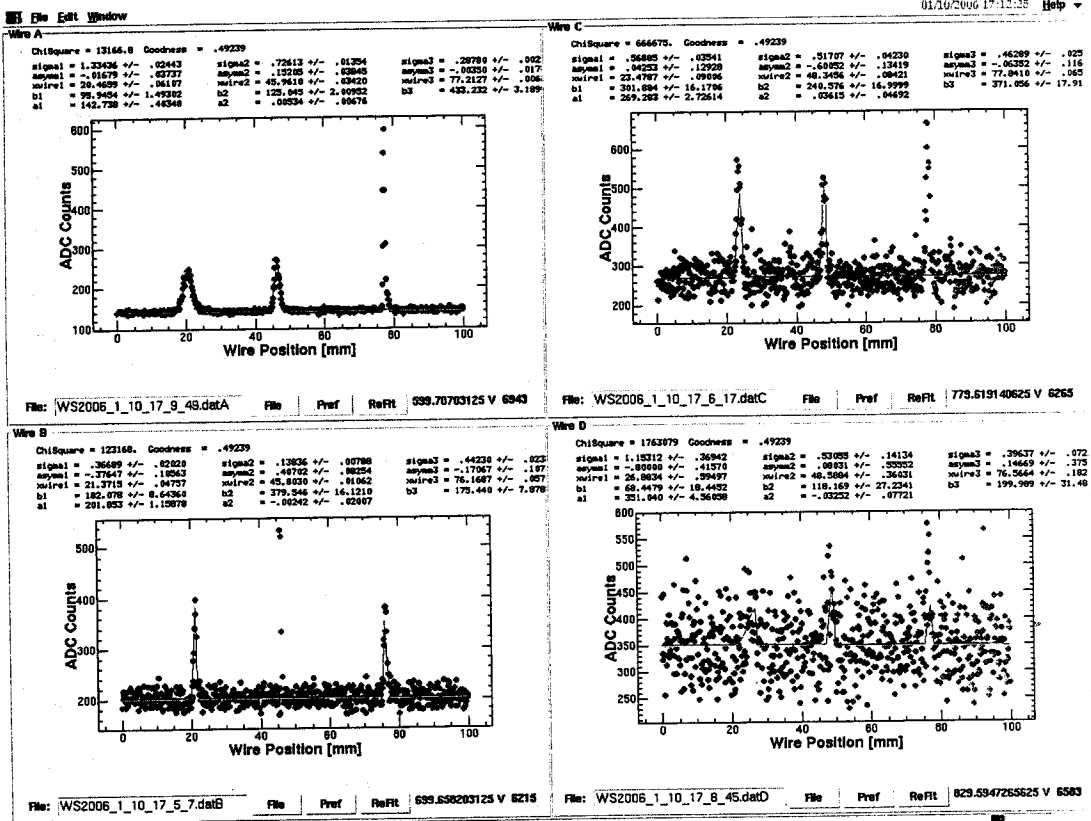
mode  $\sqrt{e'}$   $\rightarrow$   $e'$  range DX  $\sqrt{}$  Auto  $\rightarrow$  Fbx (5)  $\Delta$   $\nabla$  DY  $\sqrt{}$  Auto  $\rightarrow$  Fbx (5)  $\Delta$   $\nabla$  Q  $\sqrt{}$  Auto  $\rightarrow$  Fbx (2)  $\Delta$   $\nabla$  e'/e' 4  $\Delta$   $\nabla$  Replot

┌ a ─┘ ┌ b ─┘ ┌ r ─┘ ┌ c ─┘ 1 2 3 4 5 6 p1 p2 Clear Statistics

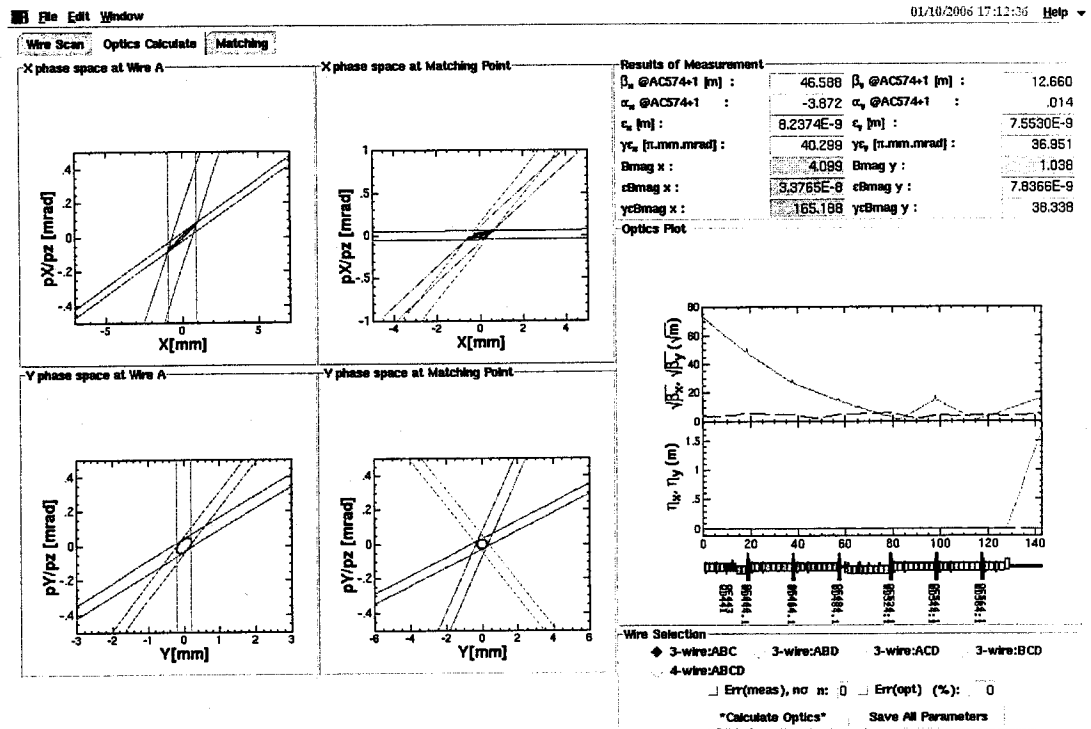
┌ meas ─┘ ┌ stat ─┘ ┌ ref ─┘ meas-ref ─┘ stat-ref meas  $\rightarrow$  ref stat  $\rightarrow$  ref

Hard Copy

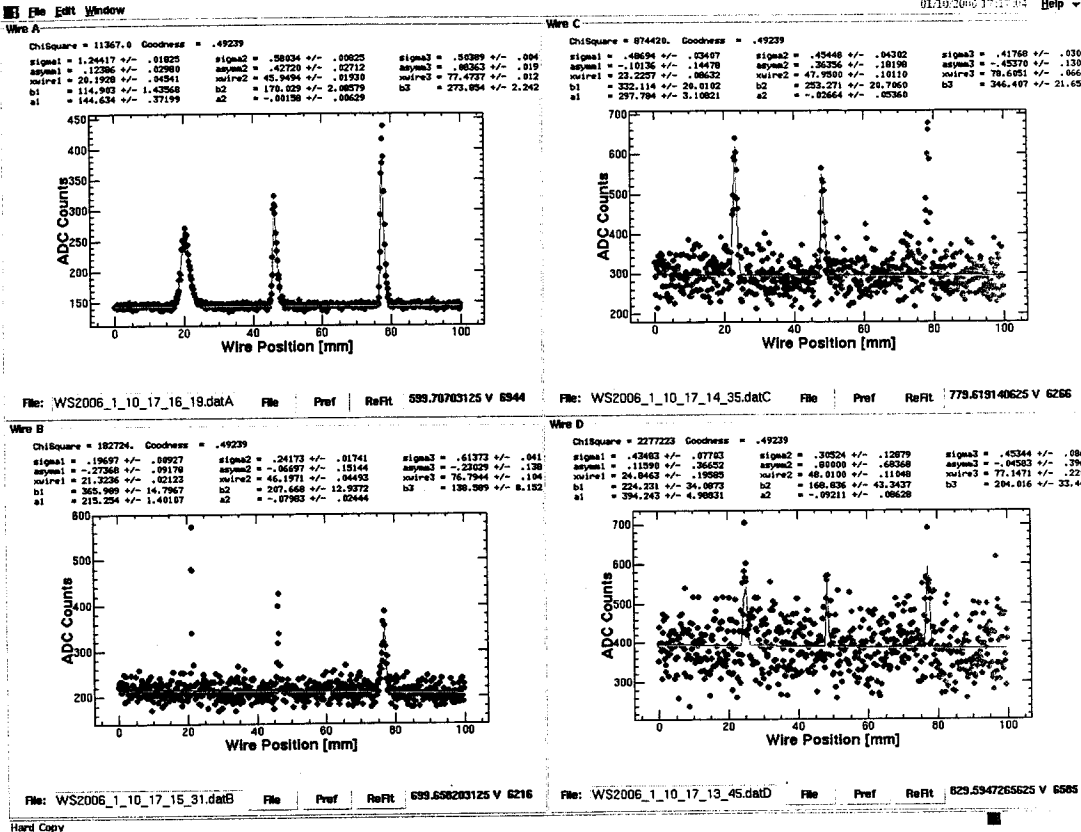




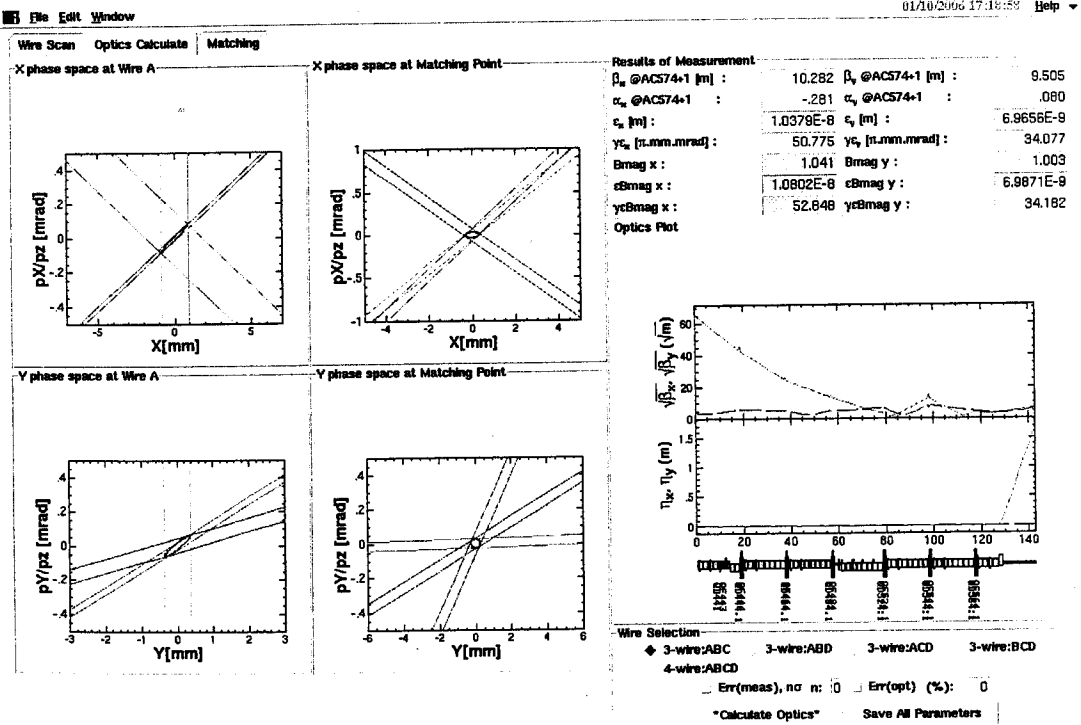
Hard Copy



Q-Mag values were SET and saved to file and sat.



Hard Copy



Q-Mag values were SET and saved to file and sad.

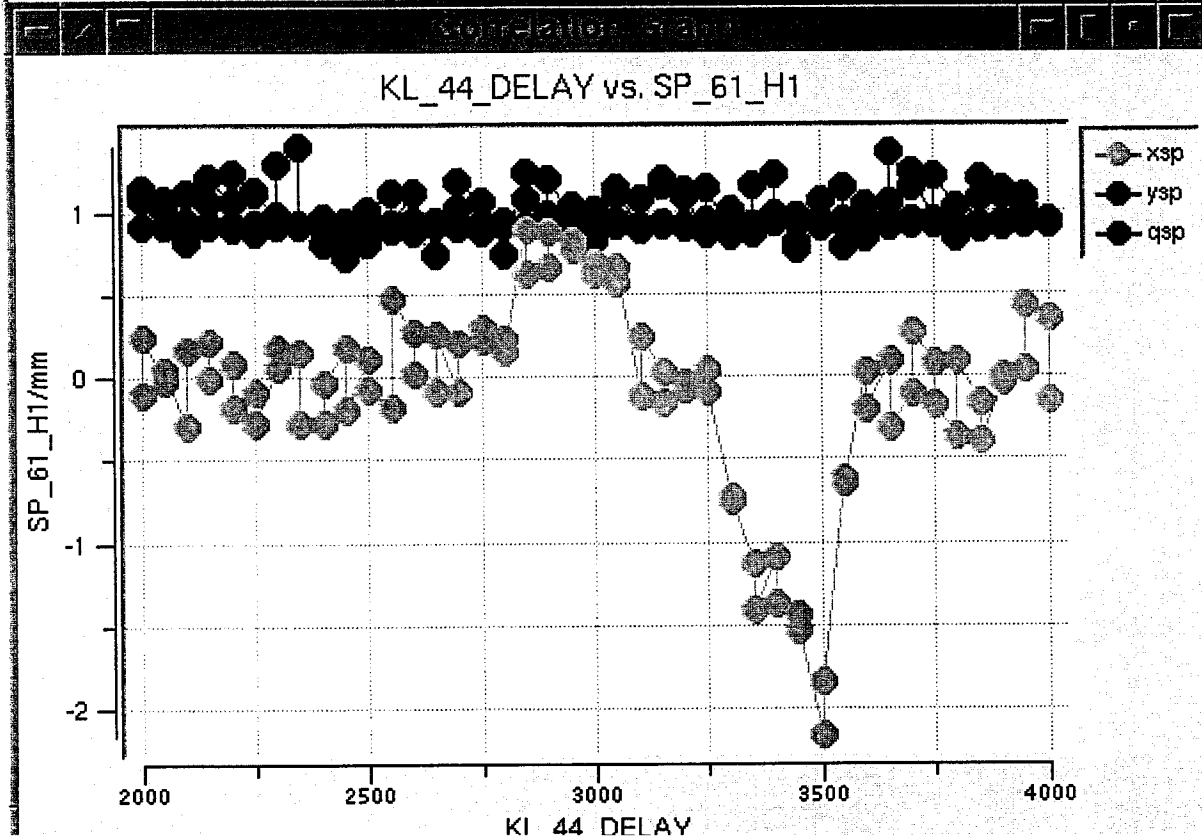
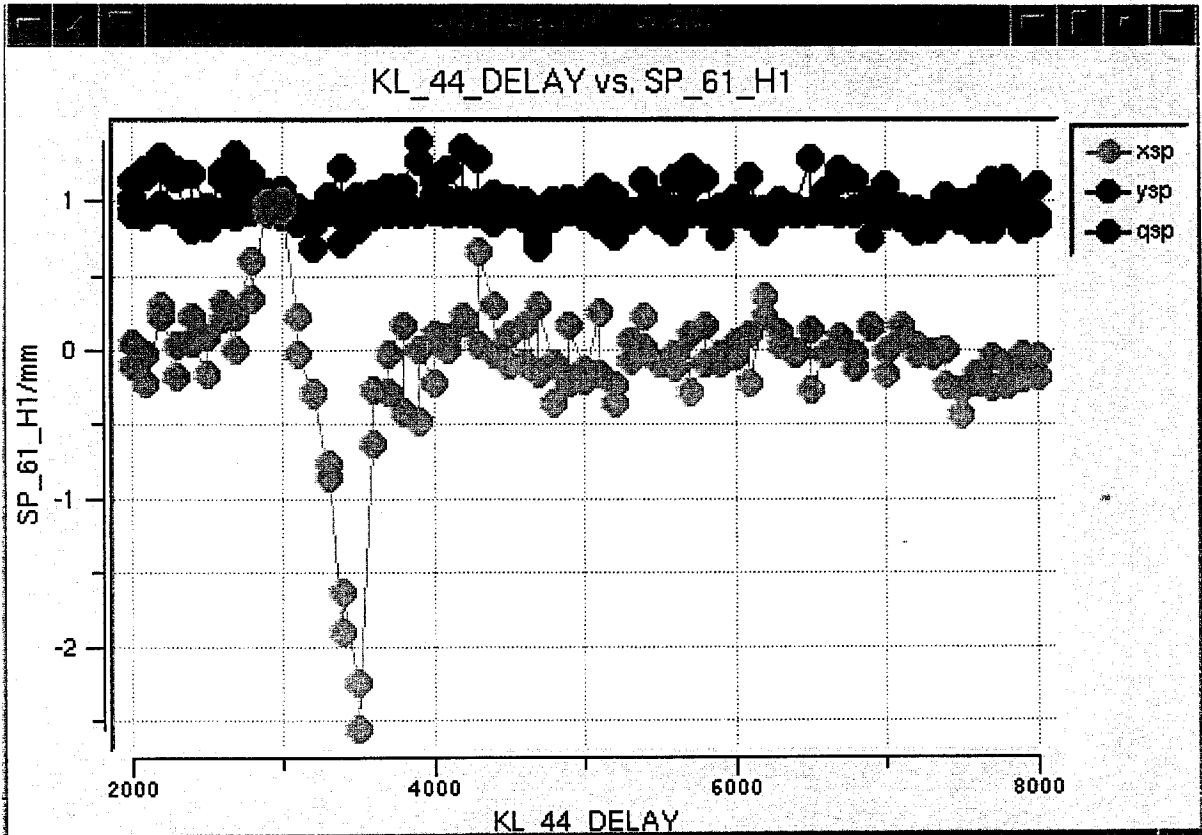
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C-band

横山、新谷

KL-44-Phase. 172.8°



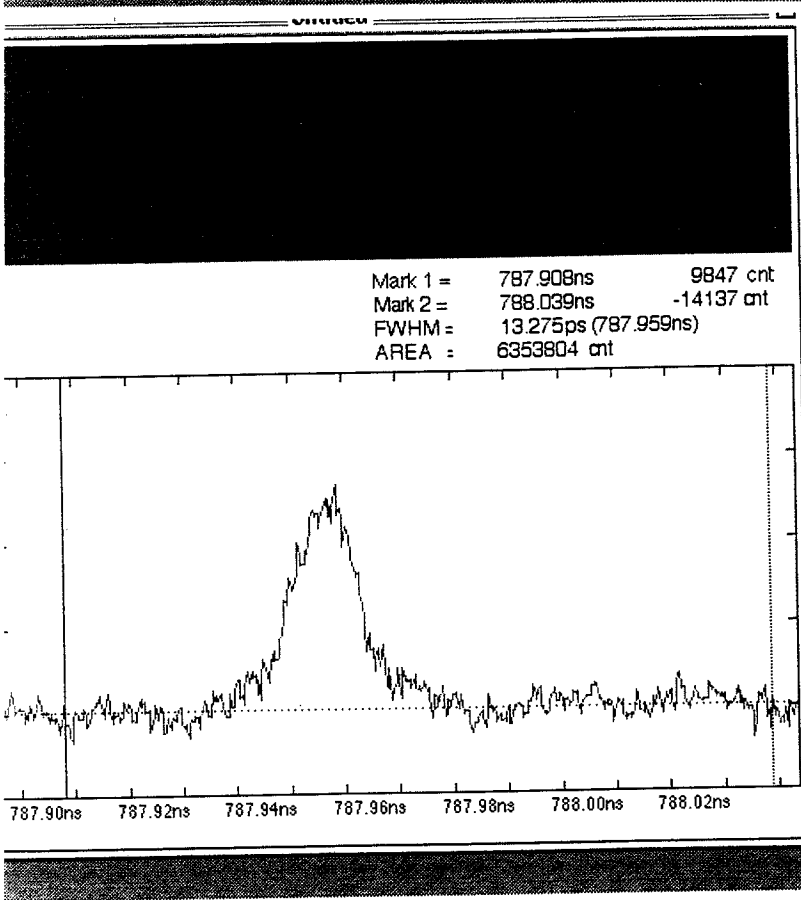
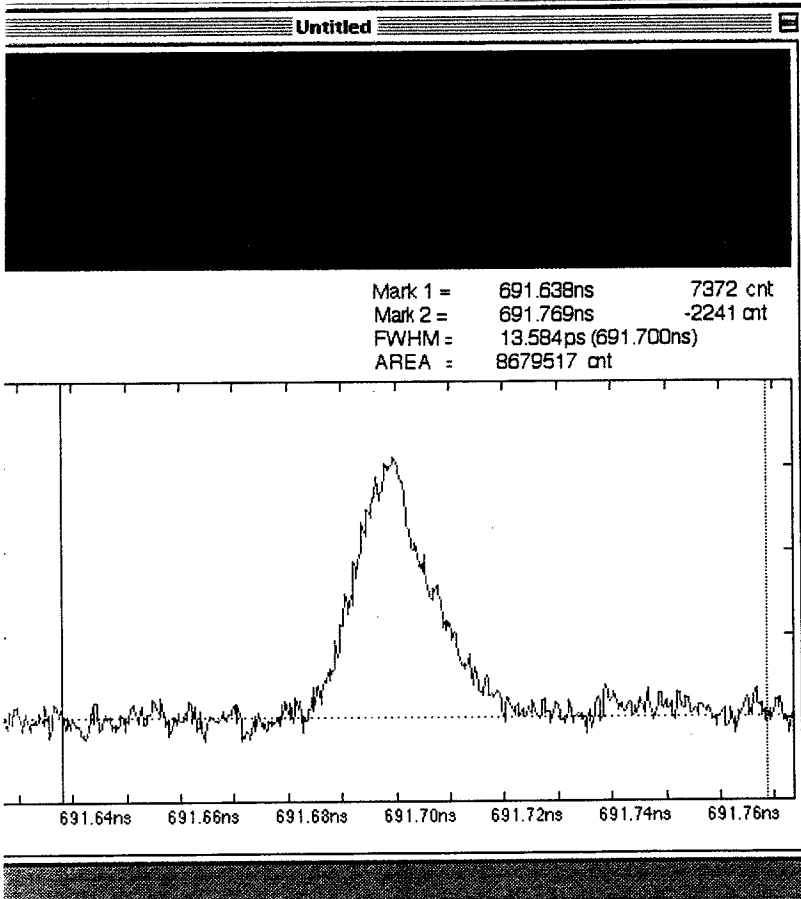
	ACC時	Standby時
KL-44	6800 ns	( 6625 ?
KL-44-SB	28 ns	
- DELAY	3300 ns	3230 ?
- WIDTH	2225 ns	
- PHASE	1751 ns	



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KEKB e+



Measurement Condition

Live Time  10 pulse  
 Accum.Time  100 pulse

Control the Streak Camera

V-Sweep Range  ▼

MCP Gain  100 %  
 Delay  551.67 ns

Search pulse : 120 cnt.

Input Optics

Focus :  Open  
 Slit Width :  100 um

Gravity Integ.  Trig.Single

Table... Quit Do It

Image Status

<< Condition : BeamC6699\_A1 >>  
 Accum.Time 100 pulse  
 Mcp Gain 100[%]  
 Streak Mode 0.20[NS]  
 Streak Trigger SINGLE  
 X:-0.240 Y: 0.120 Z: 7.1840  
 DC Calibration ON  
 DATE 2006:01:11  
 TIME 16:38:58  
 << Comment >>  
 (Bandpass 2)

Live Time  10 pulse  
 Accum.Time  100 pulse

Control the Streak Camera

V-Sweep Range  ▼

MCP Gain  100 %  
 Delay  647.94 ns

Search pulse : 120 cnt.

Input Optics

Focus :  Open  
 Slit Width :  100 um

Gravity Integ.  Trig.Single

Table... Quit Do It

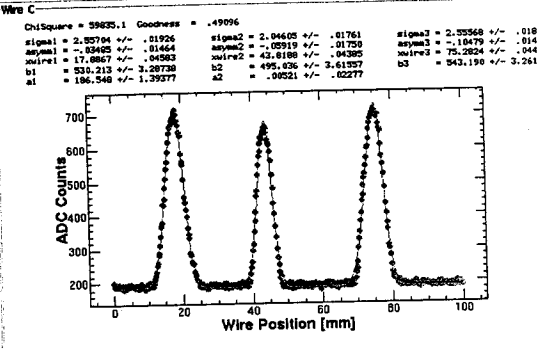
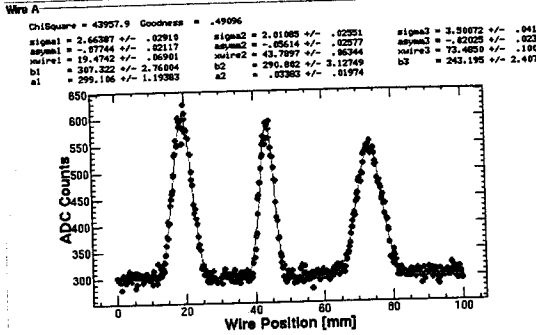
Image Status

<< Condition : BeamC6699\_A1 >>  
 Accum.Time 100 pulse  
 Mcp Gain 100[%]  
 Streak Mode 0.20[NS]  
 Streak Trigger SINGLE  
 X:-0.240 Y: 0.120 Z: 7.1840  
 DC Calibration ON  
 DATE 2006:01:11  
 TIME 16:53:53  
 << Comment >>  
 (Bandpass 2)

First

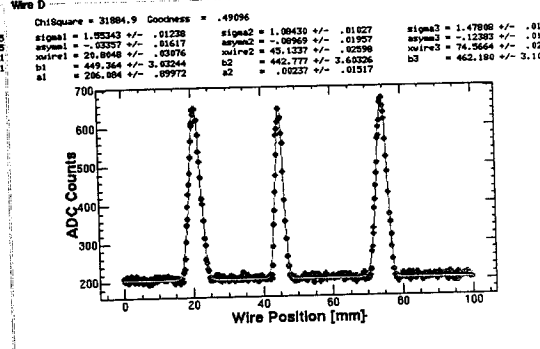
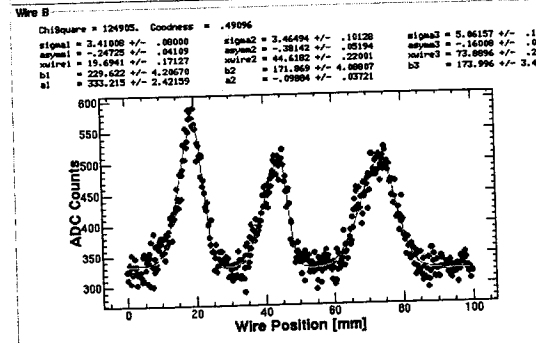
File Edit Window

01/11/2006 17:30:35 Help



File: WS2006\_1\_11\_17\_47.data File Pref ReFit 493.75563375 V 6250

File: WS2006\_1\_11\_17\_3\_50.datC File Pref ReFit 509.7565765625 V 6279



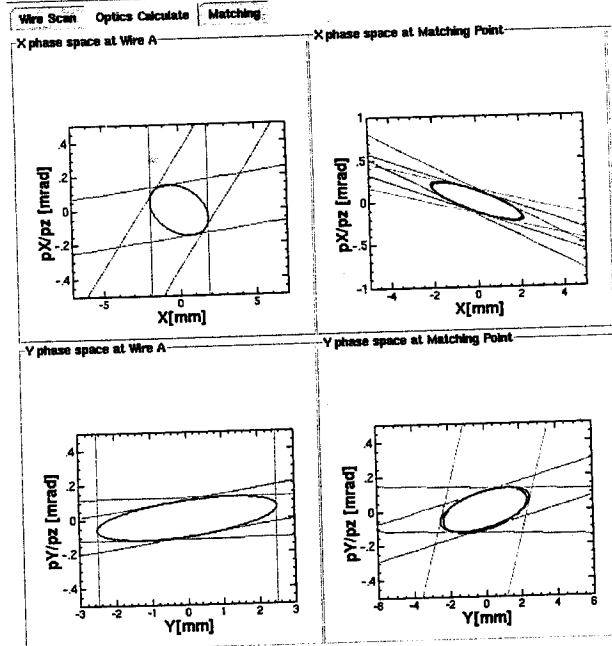
File: WS2006\_1\_11\_17\_6\_10.datB File Pref ReFit 599.70703125 V 6235

File: WS2006\_1\_11\_17\_5\_4.datD File Pref ReFit 529.742109375 V 6390

Hard Copy

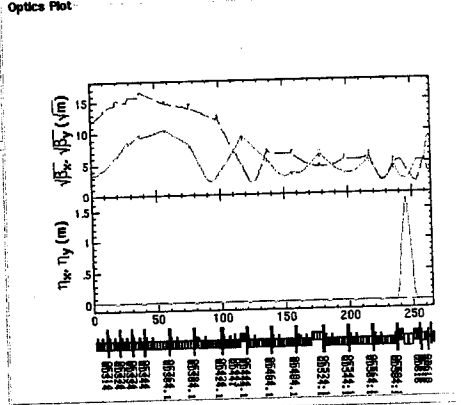
01/11/2006 17:49:04 Help

File Edit Window



Results of Measurement

$R_x$ @BMS11 [m] :	17.136	$R_y$ @BMS11 [m] :	23.290
$\alpha_x$ @BMS11 :	1.628	$\alpha_y$ @BMS11 :	-.631
$c_x$ [m] :	2.6815E-7	$c_y$ [m] :	2.6709E-7
$\gamma_x$ [m.m.m.mrad] :	1836.655	$\gamma_y$ [m.m.m.mrad] :	1829.410
Bmag x :	1.005	Bmag y :	1.008
cBmag x :	2.6385E-7	cBmag y :	2.6351E-7
ycBmag x :	1807.203	ycBmag y :	1804.875



Wire Selection

3-wire:ABC 3-wire:ABD 3-wire:ACD 3-wire:BCD

4-wire:ABCD

Err(meas), no n: 0 Err(opt) (%): 0

\*Calculate Optics\* Save All Parameters

Qmag values were SAVED to Adata1/KEKB/Wire/LINAC/sector5/KEKBpdata/Qvalue/qname\_2006\_1\_11\_16\_58\_52.dat0