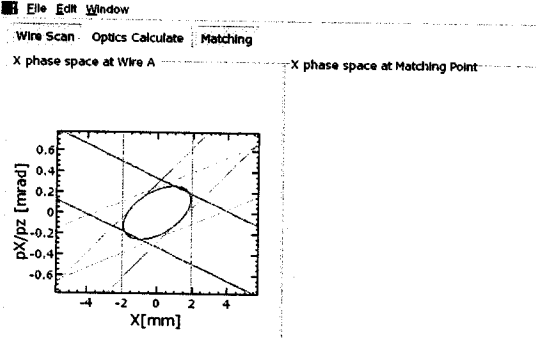
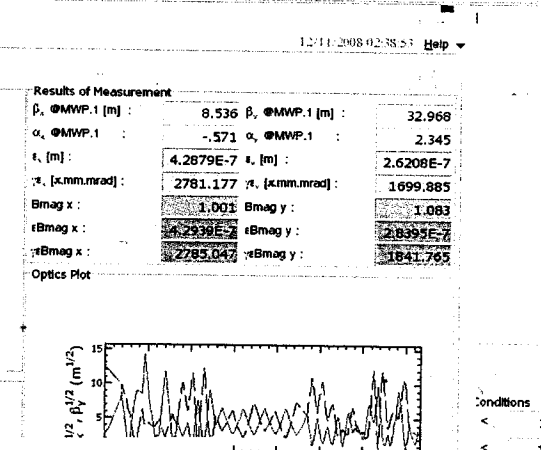
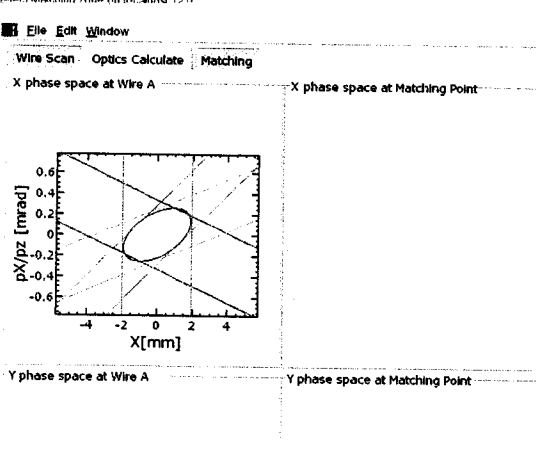
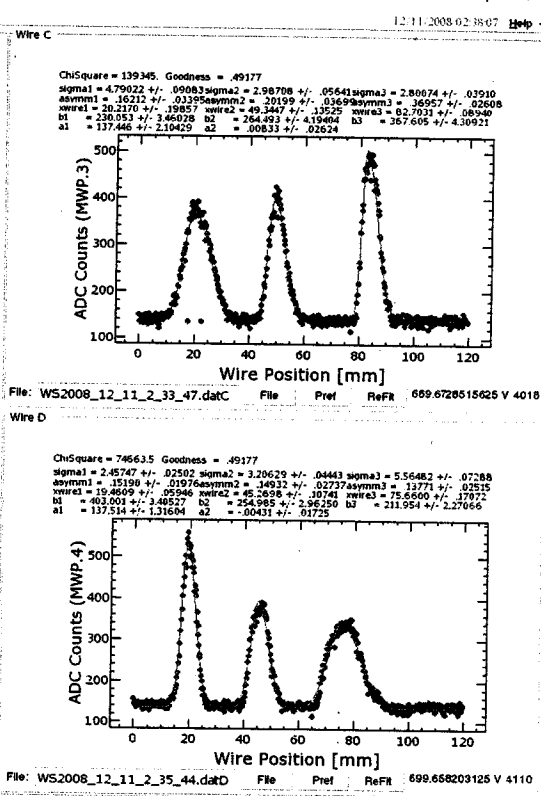
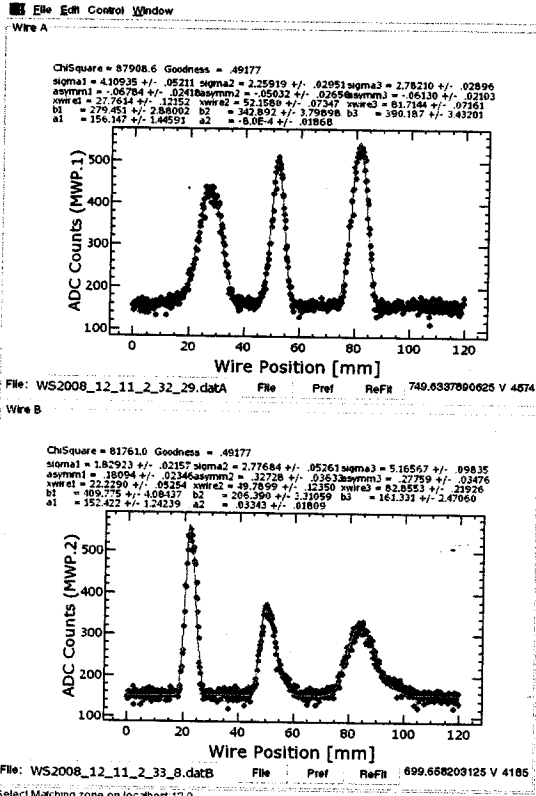


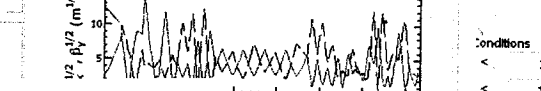
et 1



Results of Measurement

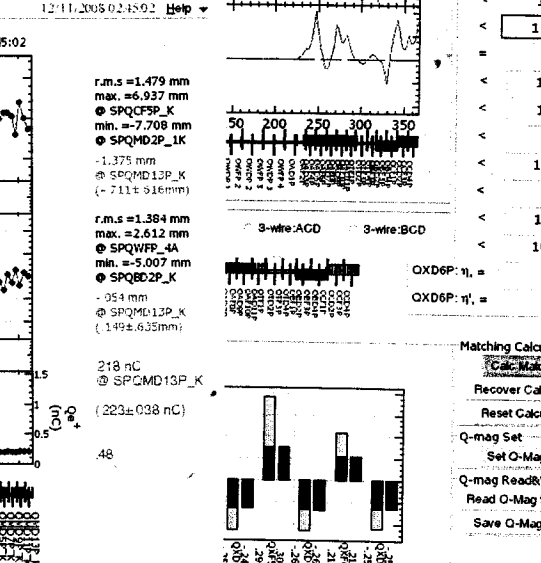
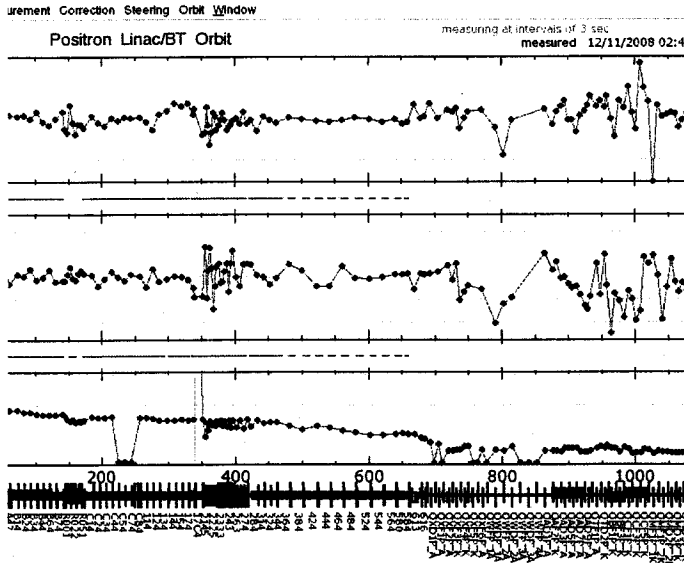
$\beta_x$ , @MWP.1 [m] :	8.536	$\beta_y$ , @MWP.1 [m] :	32.968
$\alpha_x$ , @MWP.1 :	-.571	$\alpha_y$ , @MWP.1 :	2.345
$t_x$ [m] :	4.2879E-7	$t_y$ [m] :	2.6208E-7
$r_x$ , [k.mm.mrad] :	2781.177	$r_y$ , [k.mm.mrad] :	1699.885
Bmag x :	1.001	Bmag y :	1.083
rBmag x :	2785.047	rBmag y :	1641.765

Optics Plot



Conditions

<	100.00	8.20999
<	100.00	22.79639
<	150.00	139.95258
=		-4.00
<	100.00	29.93497
<	100.00	19.26747
<		3.00
<	100.00	59.65499
<	20.00	18.14803
<	100.00	99.43786
<	100.00	99.11969
	OXD6P: $\eta_x$ =	1.1663E-15
	OXD6P: $\eta_y$ =	.00 1.4433E-15



- Matching Calculation
- Calc Matching
  - Recover Calculation
  - Reset Calculation
  - Q-mag Set
  - Set Q-Magnets
  - Q-mag Read/Write
  - Read Q-Mag from File
  - Save Q-Mag to File

QM: BT p12\_11-2008-02:45:37

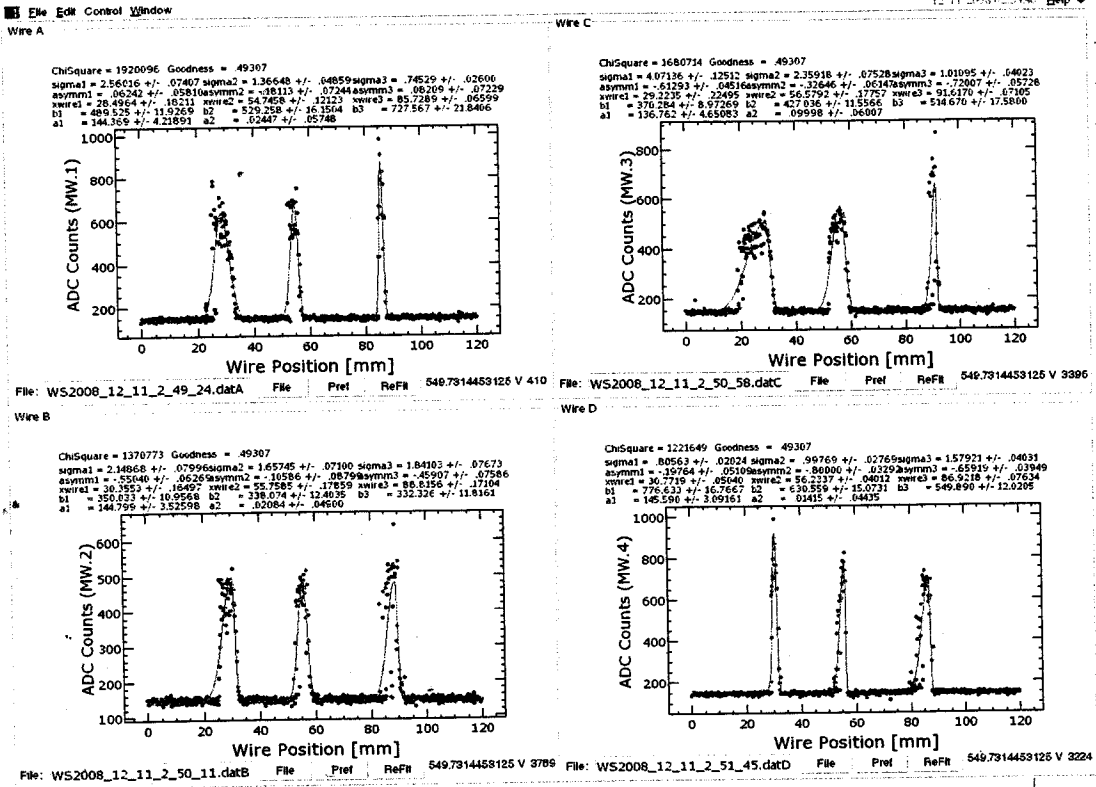
ST " " 38 is save

(e)

Matching  $Q$   
S

BTel2-11-2008-Q2: 48:32  
-02:48:32

2



File Edit Window 12/11/2008 02:52:56 Help

Wire Scan Optics Calculate Matching

X phase space at Wire A

X phase space at Matching Point

Y phase space at Wire A

Y phase space at Matching Point

Results of Measurement

$\beta_x$ @MW.1 [m]	6.965	$\beta_y$ @MW.1 [m]	41.664
$\alpha_x$ @MW.1	-0.651	$\alpha_y$ @MW.1	.862
$\epsilon_x$ [m]	3.7270E-8	$\epsilon_y$ [m]	7.9556E-8
$\eta_x$ [x.mm.mrad]	552.537	$\eta_y$ [x.mm.mrad]	1179.454
Bmag x:	1.083	Bmag y:	1.679
eBmag x:	4.0358E-8	eBmag y:	1.4949E-7
$\eta$ Bmag x:	598.327	$\eta$ Bmag y:	2216.242

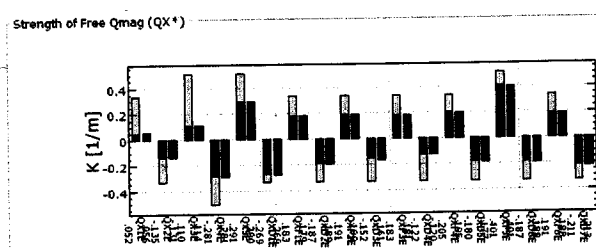
Optics Plot

Wire Selection

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

atching Condition

K2E:  $\beta_x$  <   
 $\beta_y$  <   
 K3E:  $\beta_x$  <   
 $\beta_y$  <   
 K6E:  $\beta_x$  <   
 $\beta_y$  <   
 CF1E:  $\beta_x$  <   
 $\beta_y$  <   
 CD2E:  $\beta_x$  <   
 $\beta_y$  <   
 CF2E:  $\beta_x$  <   
 $\beta_y$  <   
 CD3E:  $\beta_x$  <   
 $\beta_y$  <   
 CF4E:  $\beta_x$  <   
 $\beta_y$  <   
 CD5E:  $\beta_x$  <   
 $\beta_y$  <   
 CD6E:  $\beta_x$  <   
 $\beta_y$  <   
 $\eta_x$  =   
 $\eta_y$  =   
 $\eta_x$  =   
 $\eta_y$  =   
 OX1E OXD6E:  $\eta_x$

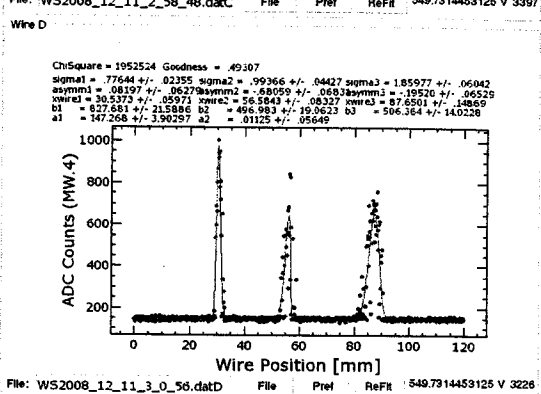
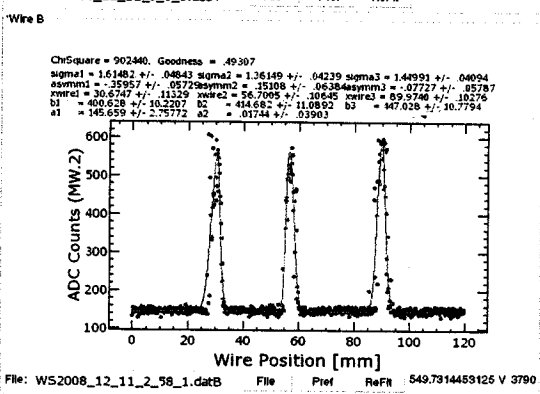
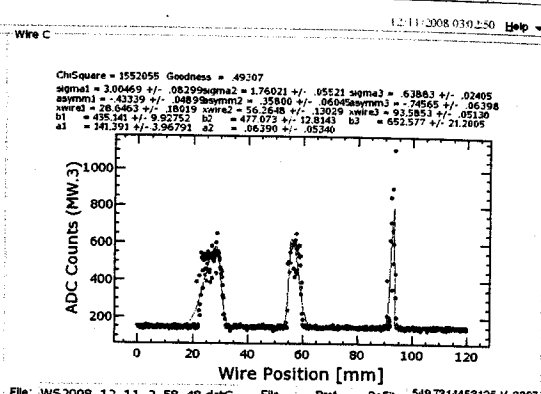
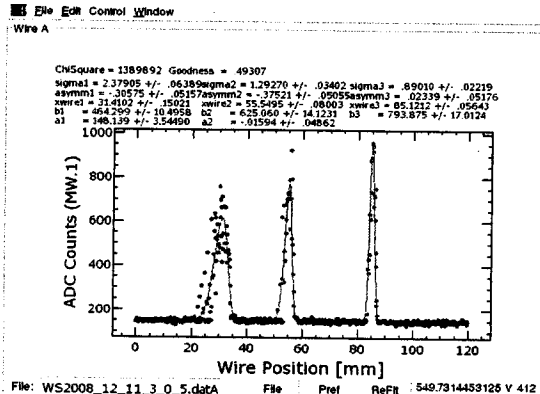


(e) 3

12/11 Match  $\gamma/2$

Q:  
S:

03:04:48  
03:04:49



File Edit Window

Wire Scan Optics Calculate Matching

12/11/2008 03:04:44 Help

X phase space at Wire A

Y phase space at Wire A

X phase space at Matching Point

Y phase space at Matching Point

Results of Measurement

$\beta$ , @MW.1 [m] :	12.678	$\beta$ , @MW.1 [m] :	44.098
$\alpha$ , @MW.1 :	-0.410	$\alpha$ , @MW.1 :	1.473
$\tau$ , [m] :	3.0330E-8	$\tau$ , [m] :	6.7107E-8
$\gamma$ , [x,mm.mrad] :	449.658	$\gamma$ , [x,mm.mrad] :	994.894
Bmag x :	1.091	Bmag y :	1.319
$\epsilon$ Bmag x :	3.1079E-8	$\epsilon$ Bmag y :	8.8516E-8
$\gamma$ Bmag x :	480.412	$\gamma$ Bmag y :	1312.291

Optics Plot

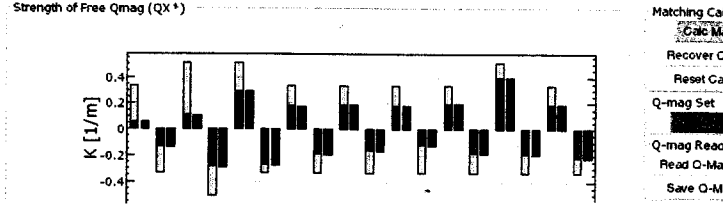
Matching Conditions

$\beta$ , <	100.00	46.42903
$\beta$ , <	260.00	241.03037
$\beta$ , <	100.00	44.74101
$\beta$ , <	60.00	726924
$E$ , $\beta$ , <	50.00	50
$E$ , $\beta$ , <	60.00	102505
$E$ , $\beta$ , <	60.00	48.92593
$E$ , $\beta$ , <	80.00	79.99128
$E$ , $\beta$ , <	62.00	35.922
$E$ , $\beta$ , <	110.00	74.78391
$E$ , $\beta$ , <	80.00	86.39727
$E$ , $\beta$ , <	100.00	98.94886
$E$ , $\beta$ , <	100.00	50.54518
$\eta$ , =	.00	-5.125E-15
$\eta$ , =	.00	-1.892E-15
$\eta$ , =	.00	-2.095E-15
$\eta$ , =	.00	-1.985E-16
OX1E OXD6E: $\eta$ , <	-1.50	1.5

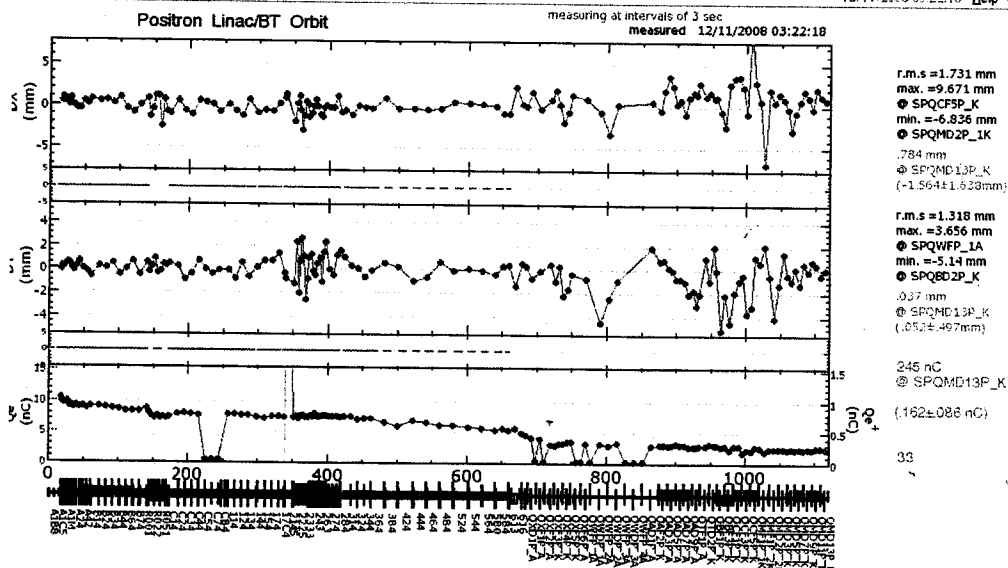
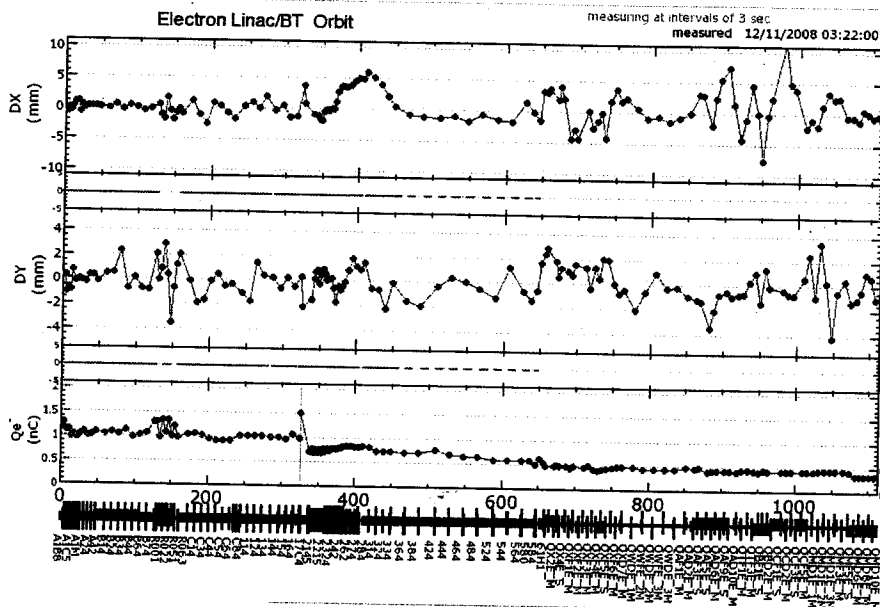
Wire Selection

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

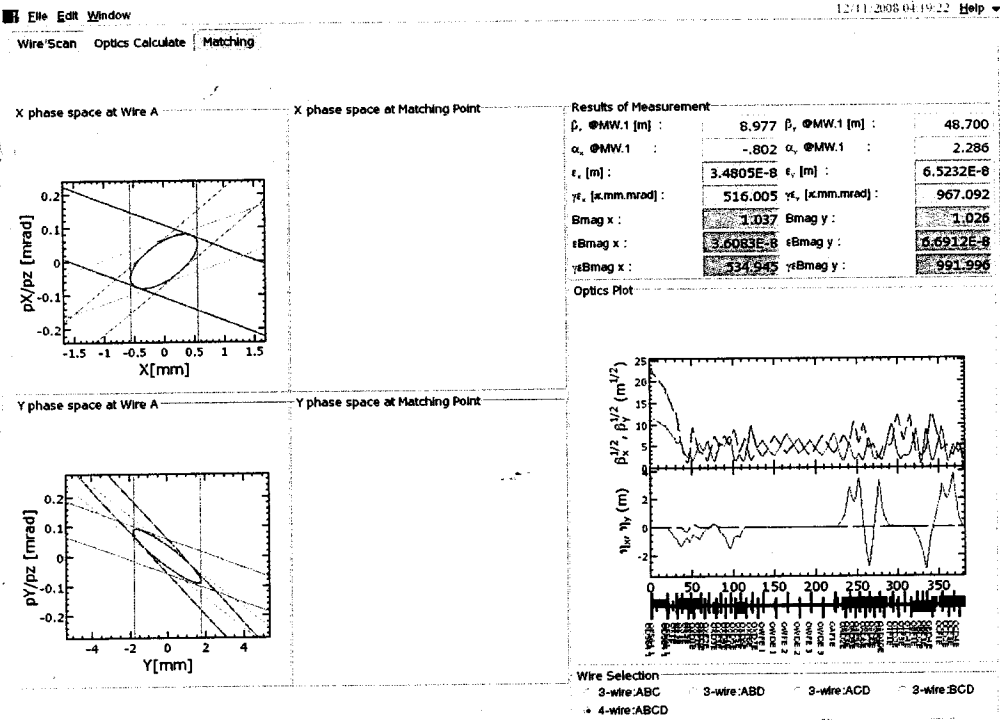
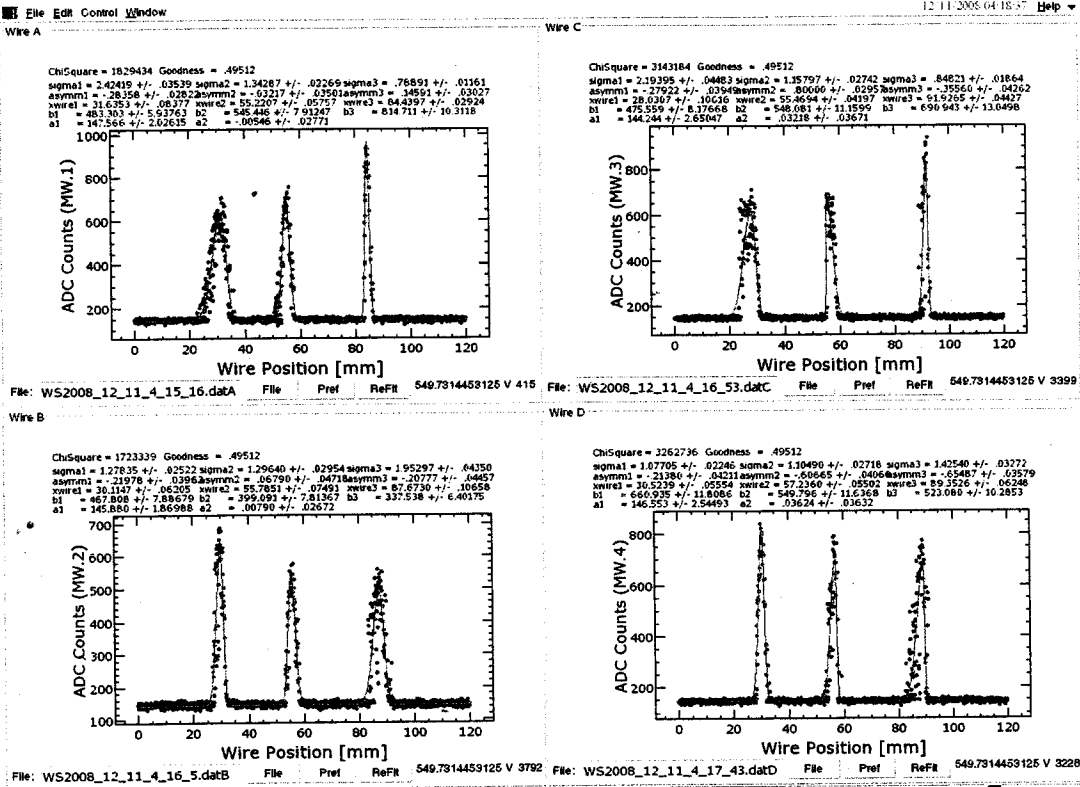
4-wire:ABCD







HER ~ 0.2 mA/s @ 12.5 Hz  
LER ~ 0.13 mA/s  
Z. 入射.  
切り換え時間 12. 秒

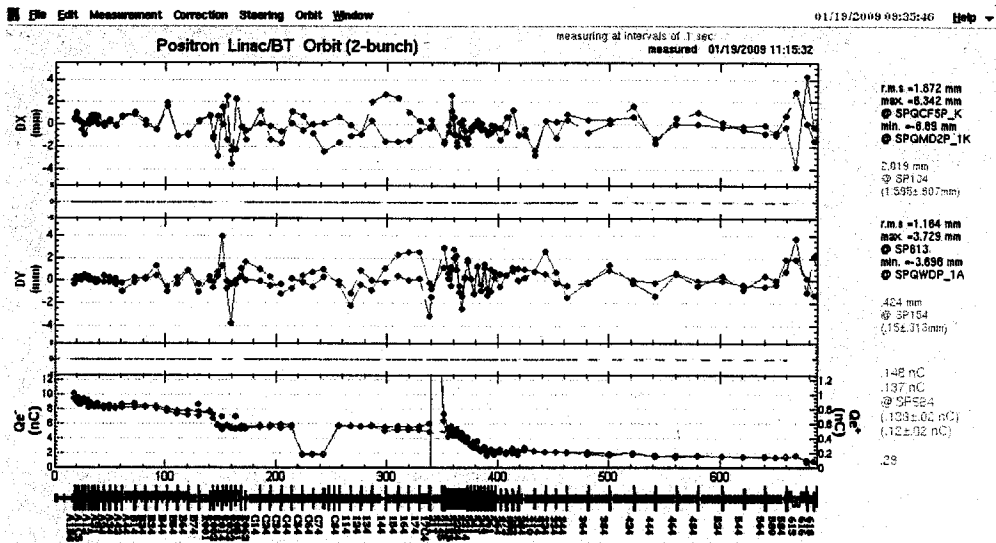


しかし、 $e^-$  beam の Energy 変動問題はある。  
 08/12/11、 $e^-$  の変動がおさおさしていた。  
 L 区の入射率が悪かったのは 1127 の状態による。  
 25Hz で  $>0.7$  mA/s は達成できず。  
 H 区入射良好。 → 入射に依存する改良 (→ 下西さん)

7  
09/7/19

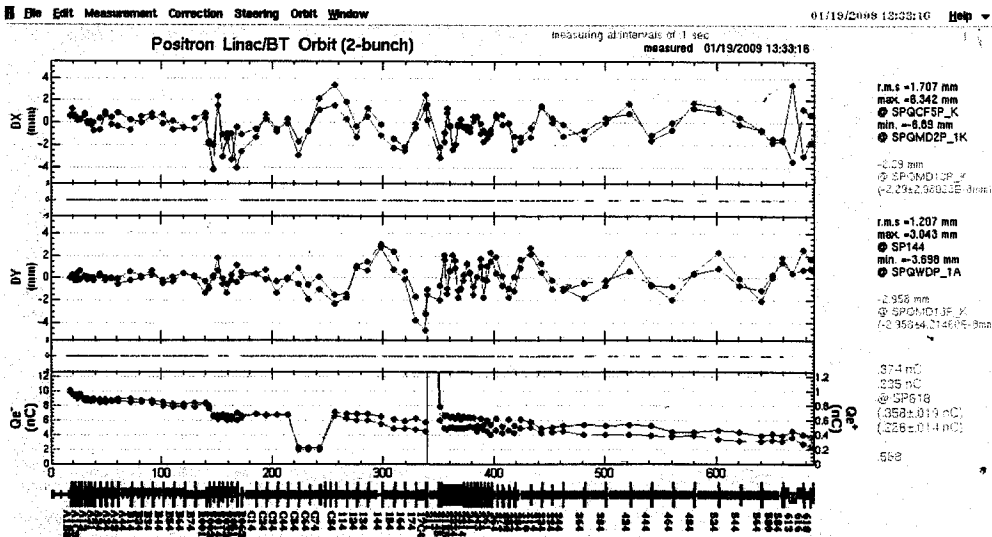
(3 ring 同時入射に向け) 大西, 小川, 飯田, 水川

HER/LEP 共通 Optics 再現 &  $\gamma(25) \rightarrow \gamma(45)$

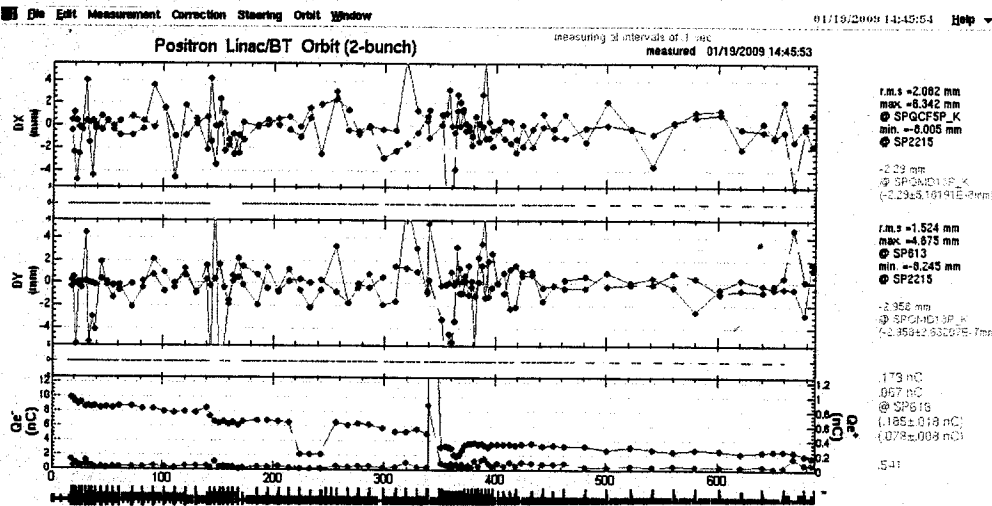


108/  
12/10  
のQM  
1ST

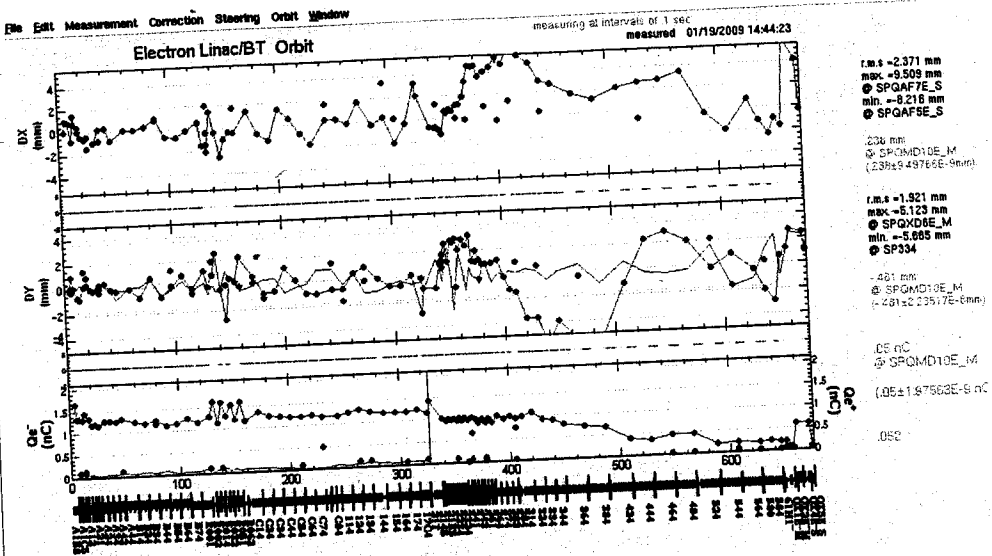
調整 (by 水川氏)



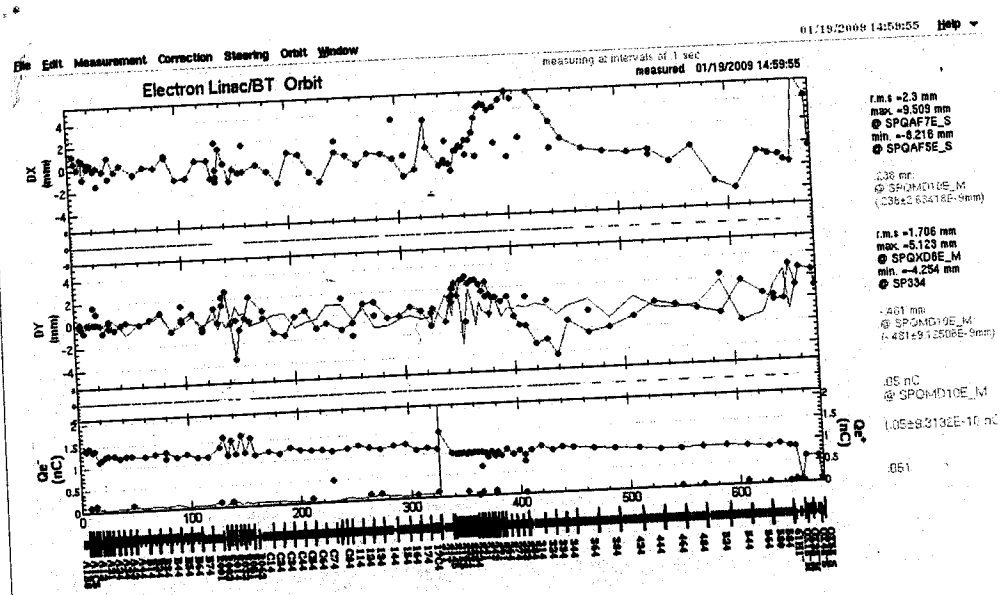
09/15  
のQM  
1ST  
おてしよ



08/12/10  
のQM  
1ST  
phaseは  
13:33のま



e<sup>-</sup>



pulse steering  
+ 57.7 StX  
調整し  
EC端/Bend  
の向きを  
した

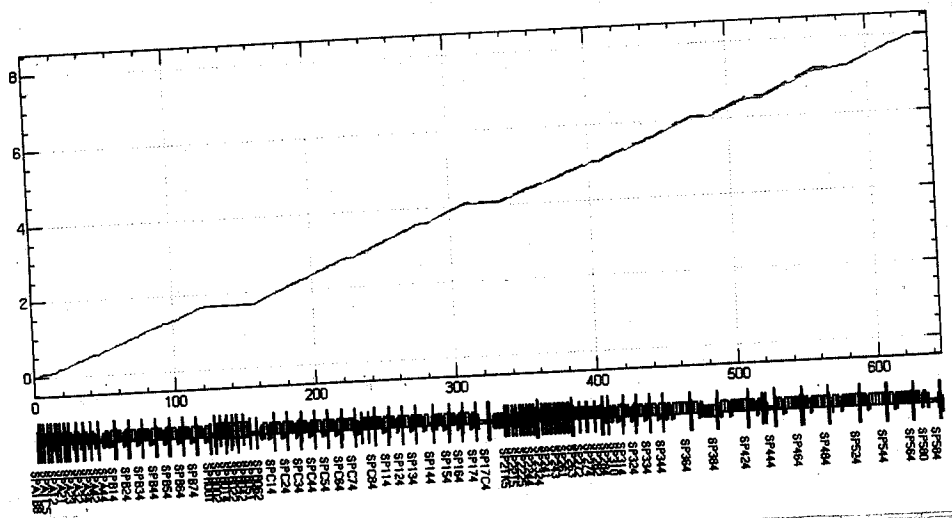
Window 01/19/2009 15:10:59 Help

KEKB e- Last updated: 01/19/2009 15:10:08 SABOT Output file

EAI	2.0E7	EJARC	1.7E8	EPT	1.0E7	EZ1	8.5E7	E(e <sup>-</sup> )	8.0E9	E(e <sup>+</sup> )	3.5E9	ECT	1.0E7	E(AR)	3.0E9	E(PF)	2.5E9
-----	-------	-------	-------	-----	-------	-----	-------	--------------------	-------	--------------------	-------	-----	-------	-------	-------	-------	-------

Quad Energy

SABOT  
+  
Output file





C, 1 等の

Spread 調整した A-調整等も、元値

15:36

(e+)

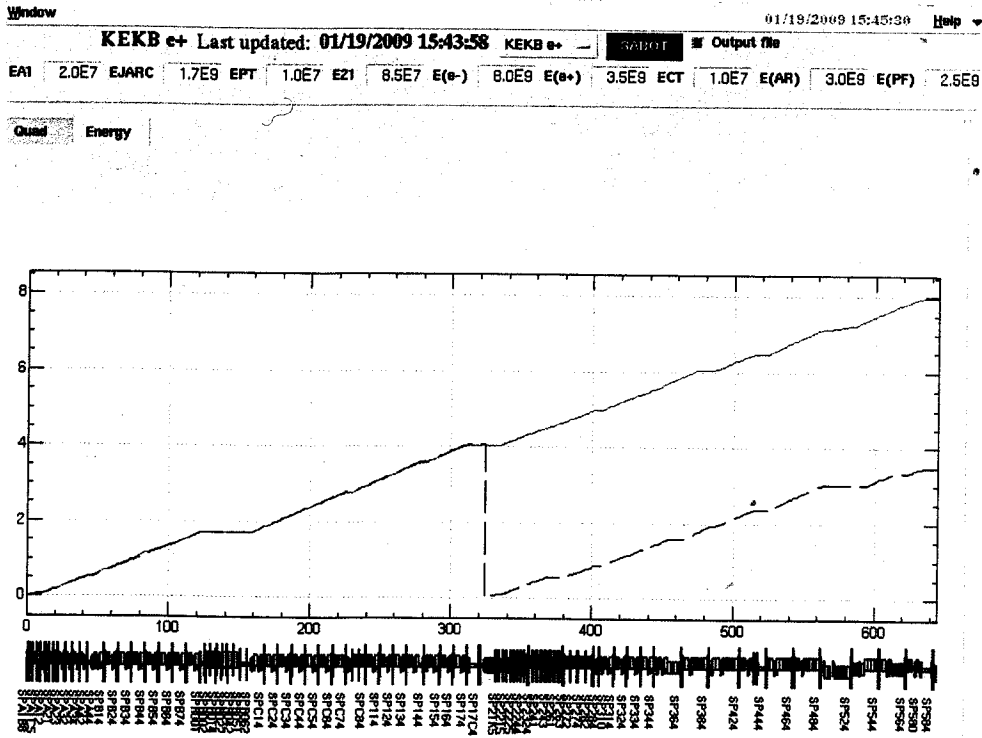
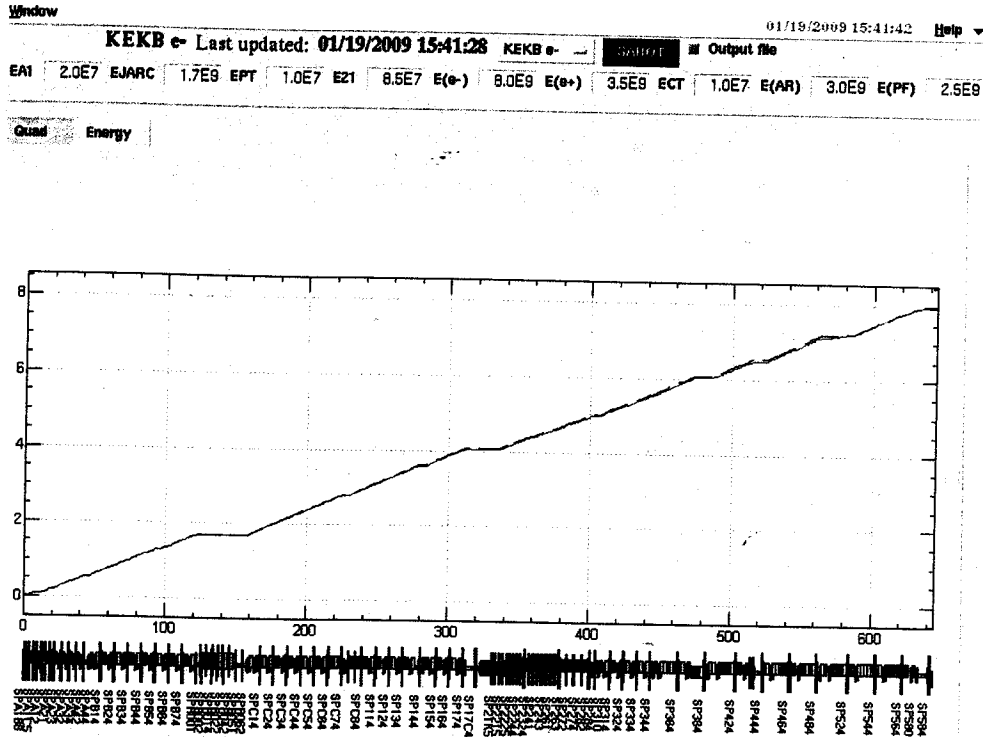
(e-)

(e+)

2~5 等の SBT. Analyser 3 行の Spread を 調整

SABOT の output file

SABOT の



コンタ-ワヤ-スヤ+測定

(e)

217.

