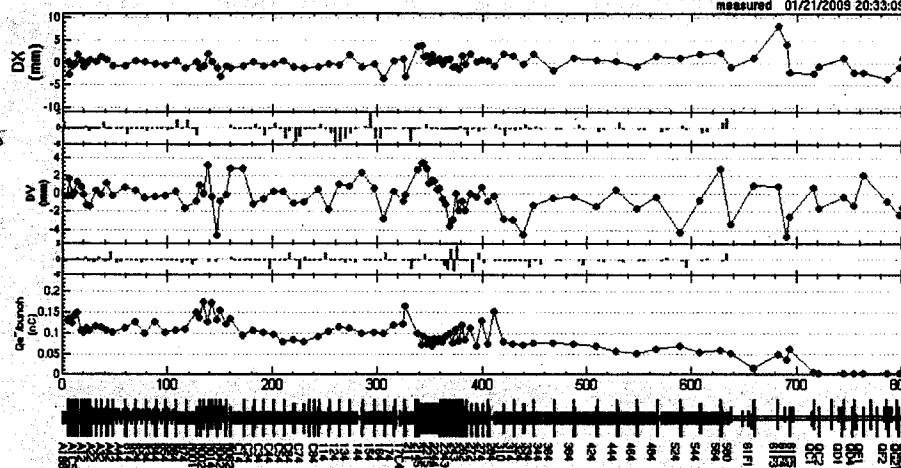


measuring at intervals of 1 sec

measured 01/21/2009 20:33:09



r.m.s = 1.895 mm  
 max = 8.138 mm  
 @ SP61F3  
 min = -3.843 mm  
 @ SPQF2  
 -398 mm  
 @ SP580  
 (-2.984 ± 1.195 mm)

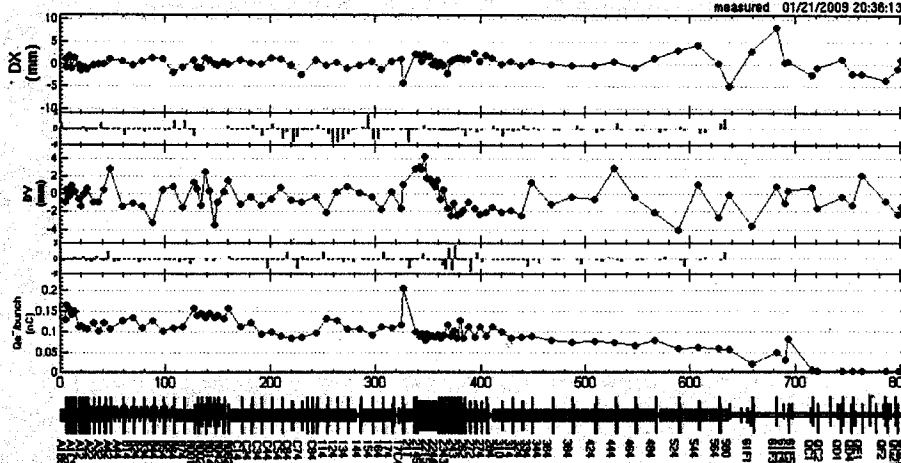
r.m.s = 1.756 mm  
 max = -3.398 mm  
 @ SP2215  
 min = -4.766 mm  
 @ SP61F4  
 088 mm  
 @ SPR014  
 (-374 ± 387 mm)

.051 nC  
 @ SP580  
 (-0.58 ± 0.11 nC)

2-sector  
 加速 ~~on-crest~~  
 zero-cross  
 3-sector  
 stand-by

measuring at intervals of 1 sec

measured 01/21/2009 20:36:13



r.m.s = 1.701 mm  
 max = 8.138 mm  
 @ SP61F3  
 min = -4.949 mm  
 @ SP580  
 -4349 mm  
 @ SP580  
 (-2.871 ± 1.216 mm)

r.m.s = 1.636 mm  
 max = -4.241 mm  
 @ SP2234  
 min = -3.978 mm  
 @ SP524  
 -1293 mm  
 @ SPR014  
 (-396 ± 1.05 mm)

.056 nC  
 @ SP580  
 (-0.54 ± 0.1 nC)

2-sector  
 加速 ~~on-crest~~  
 zero-cross  
 3-sector  
 加速 on-crest

まとめ

1. 吉田効果は再現しない
2. sector 2 において on-crest から  $\pm 45^\circ$  ずれたとき SC ~~92~~ 257-2 でのビーム像の見え方が異なることが確認された。これにおいてやはり、 $\pm 45^\circ$  からずらすと縦長になることは共通である。
3. 2. の非対称は必ずその概ね 2 磁石の強さが effective に変わる効果が生じている。

09/1/22

Positron Linac/BT Orbit (2-bunch)

measuring at intervals of 1 sec  
measured 01/23/2009 10:40:41

File Edit Control

Wire A

ChI@wire = 22900.0  
signal = 52422 +/- 2  
signal = 52427 +/- 2  
zero1 = 21.354 +/- 1  
D1 = 639.210 +/- 5.9  
a1 = 35.2990 +/- 24

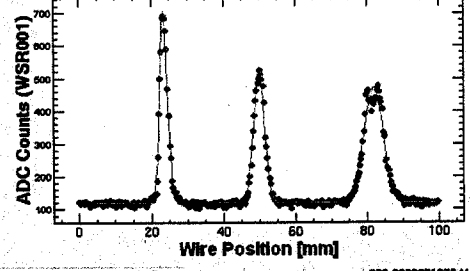
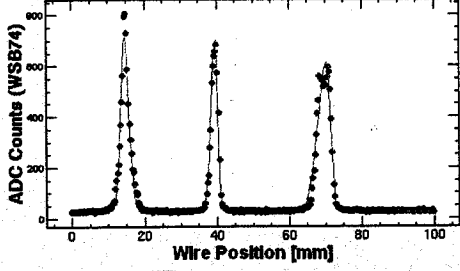
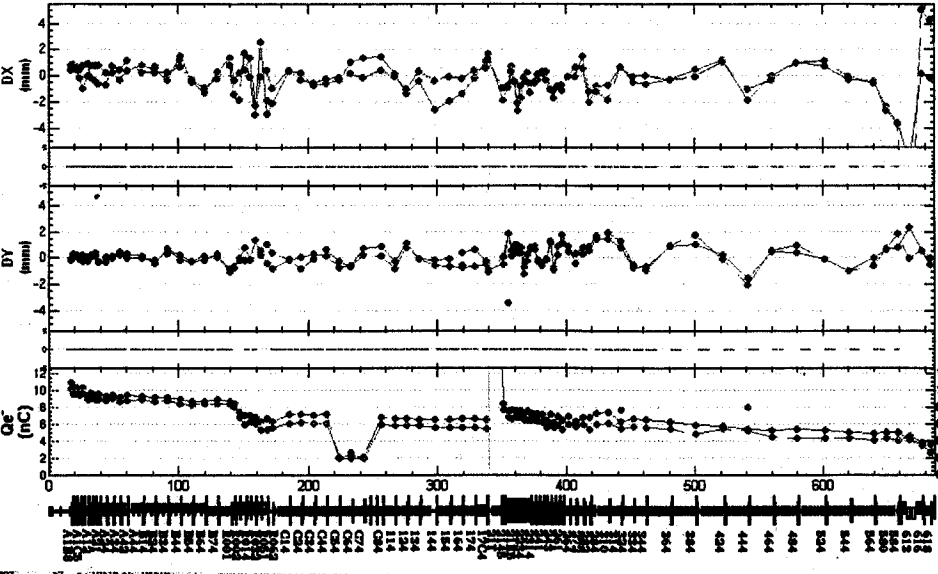
File: WS2009\_1\_2

Wire B

ChI@wire = 157965  
signal = 113288 +/- 2  
signal = 100770 +/- 2  
zero1 = 14.8379 +/- 1  
D1 = 682.107 +/- 11  
a1 = 32.7393 +/- 2.67953

File: WS2009\_1\_23\_11\_6\_13.dat

Status Display



File: WS2009\_1\_23\_11\_6\_13.dat

File Pref ReFit 269.8661640625 V 1729

File: WS2009\_1\_23\_11\_9\_7.dat

File Pref ReFit 329.8338671676 V 0922

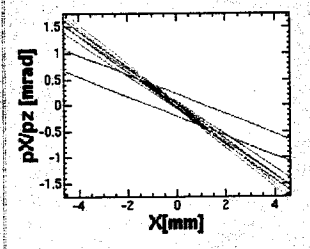
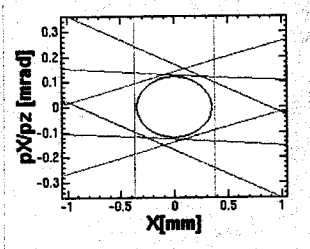
File Edit Window

01/23/2009 11:11:29 Help

Wire Scan Optics Calculators Matching

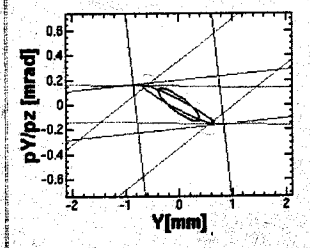
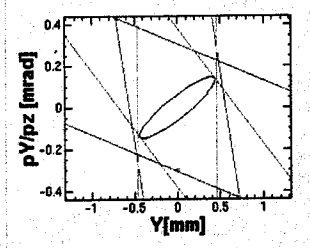
X phase space at Wire A

X phase space at Matching Point



Y phase space at Wire A

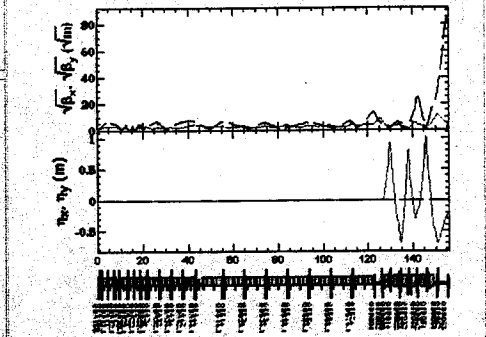
Y phase space at Matching Point



Results of Measurement

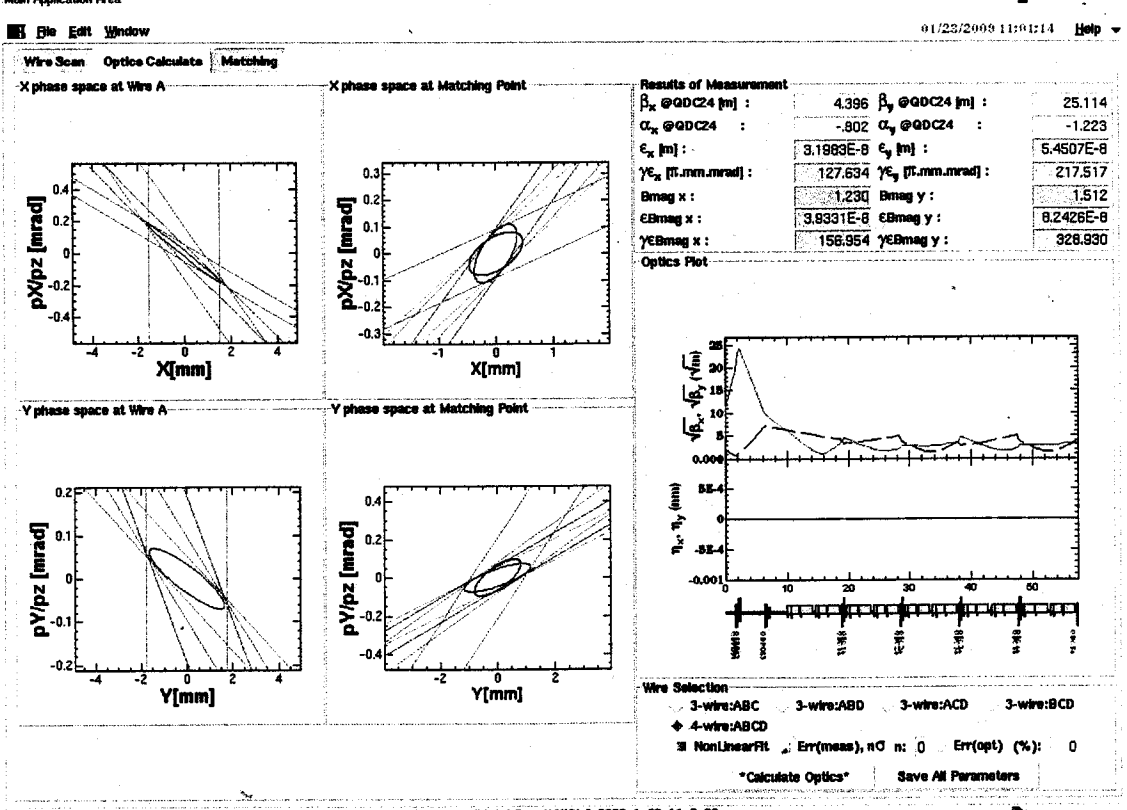
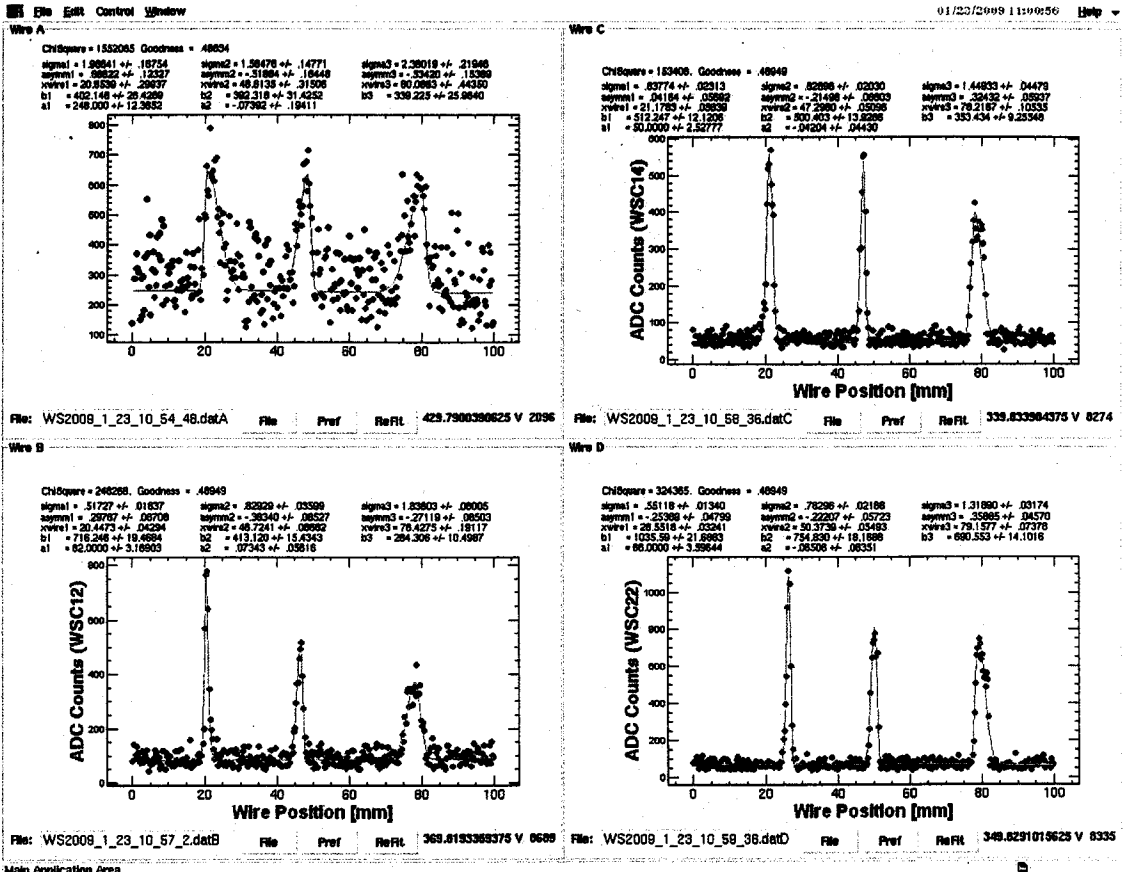
$\beta_x$ @SCR003 [m]	32.440	$\beta_y$ @SCR003 [m]	16.119
$\alpha_x$ @SCR003	11.637	$\alpha_y$ @SCR003	3.678
$\epsilon_x$ [m]	4.2189E-8	$\epsilon_y$ [m]	2.7450E-8
$\gamma\epsilon_x$ [r.mm.mrad]	140.357	$\gamma\epsilon_y$ [r.mm.mrad]	81.323
Bmag x:	1.109	Bmag y:	1.943
EBmag x:	4.6784E-8	EBmag y:	5.0609E-8
YEBmag x:	155.675	YEBmag y:	168.347

Optics Plot

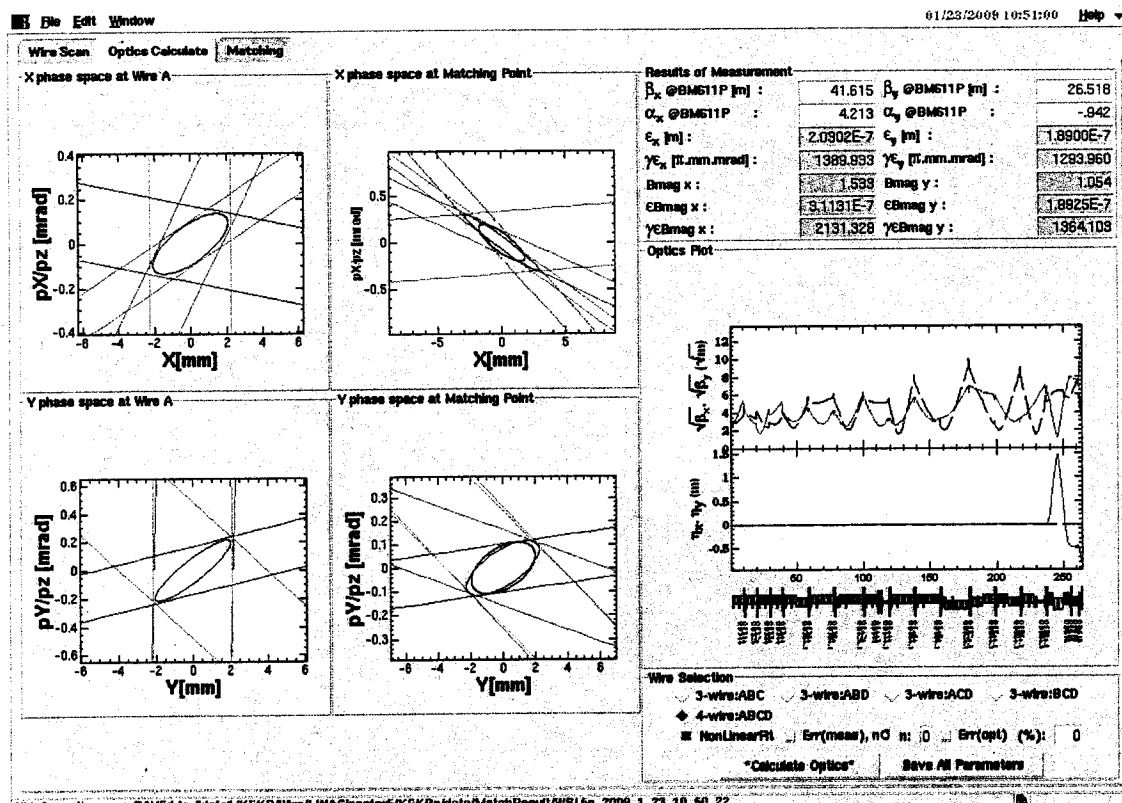
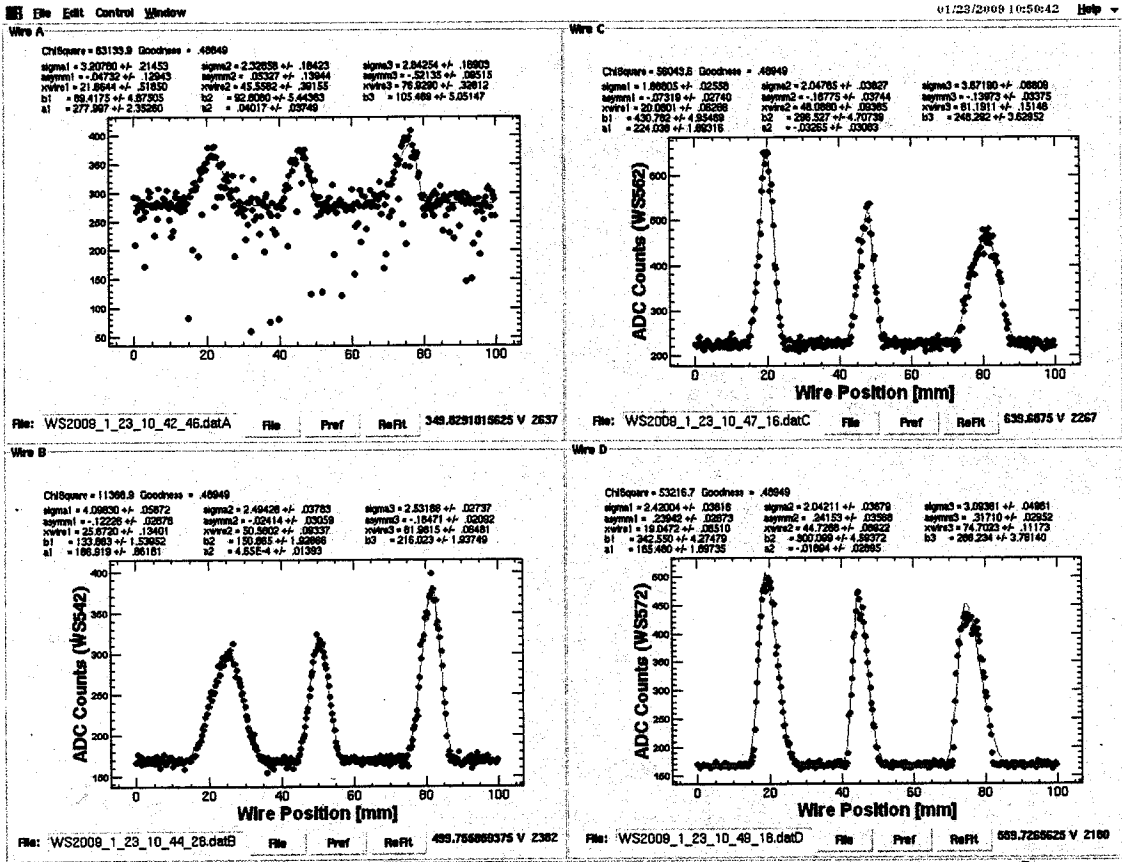


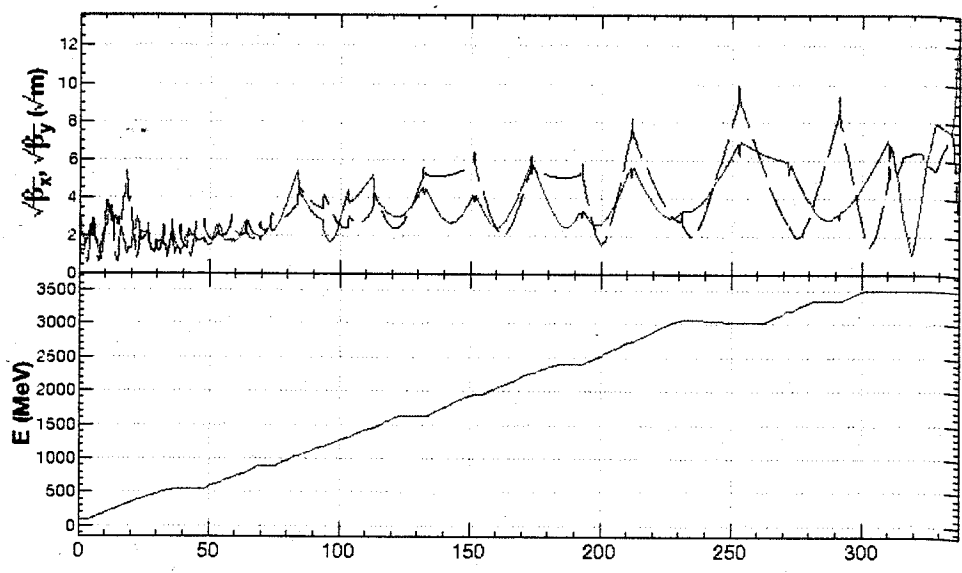
Wire Selection  
 3-wire:ABC  3-wire:ABD  3-wire:ACD  3-wire:BCD  
 4-wire:ABCD  
 NonLinearFit Err(mess), nC n: 10 Err(opt) (%): 0  
 \*Calculate Optics\* Save All Parameters

All informations are SAVED to Adata1\KEKB\Wire\LINACsectorB\positron\data\MatchResult\WSLB\_2009\_1\_23\_11\_10\_16

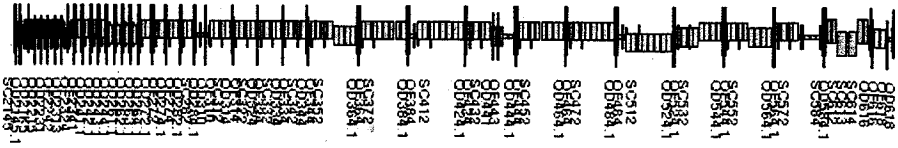


All informations are SAVED to fdata1/KEKB/Wire/LINAC/sector/Cpositron/data/MatchResultWSLC\_2009\_1\_23\_11\_0\_36

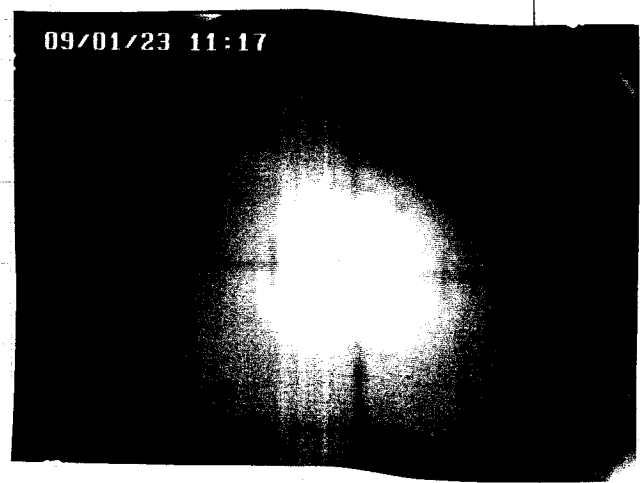
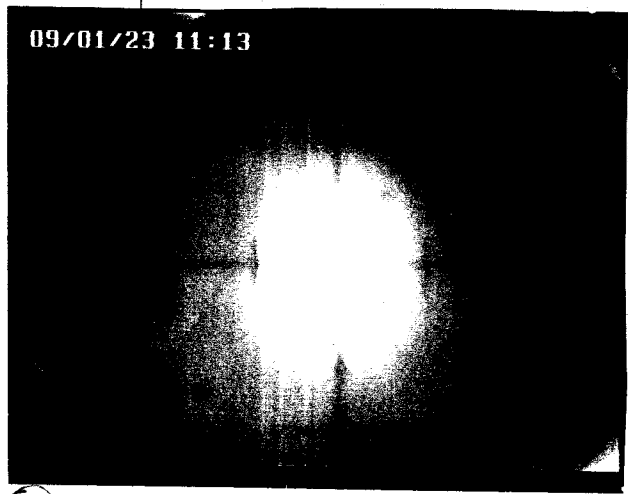




symbol SC\*Q\*  
s1 (m) 0 s2 (m) 500  
Plot  
Match  
Rematch BM611P



0. < 0 > A



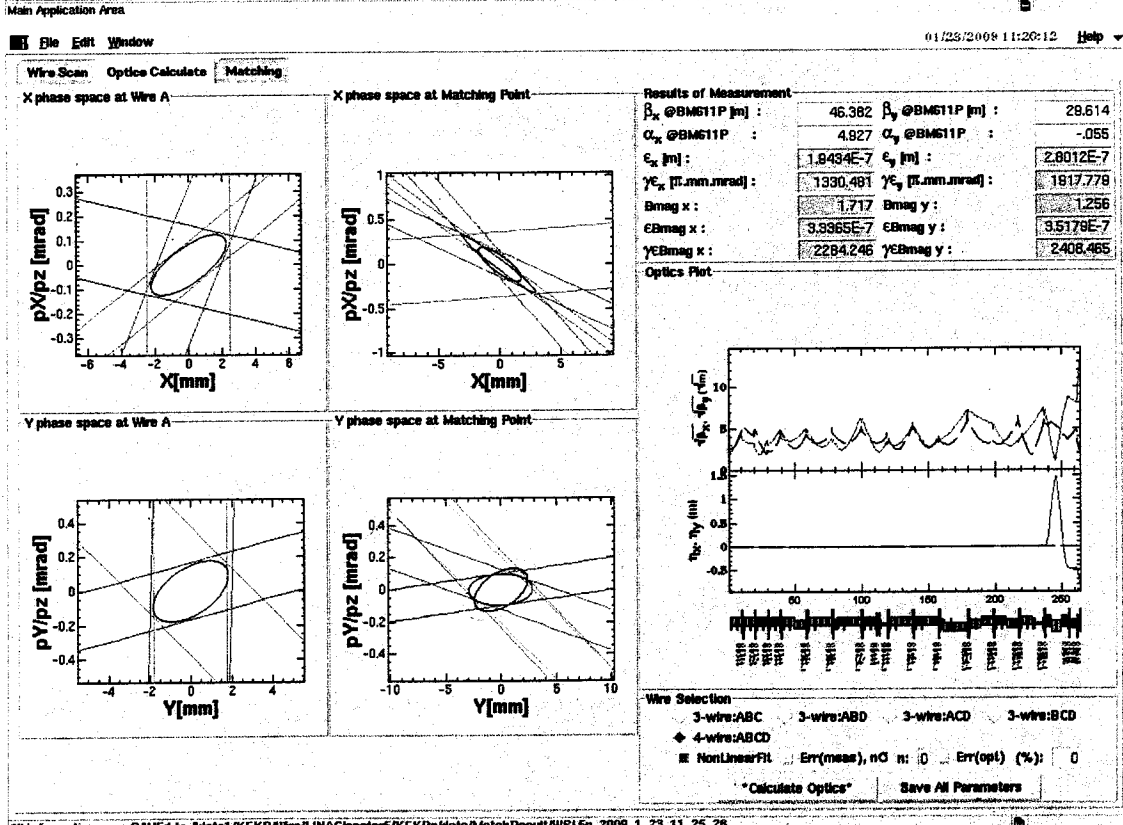
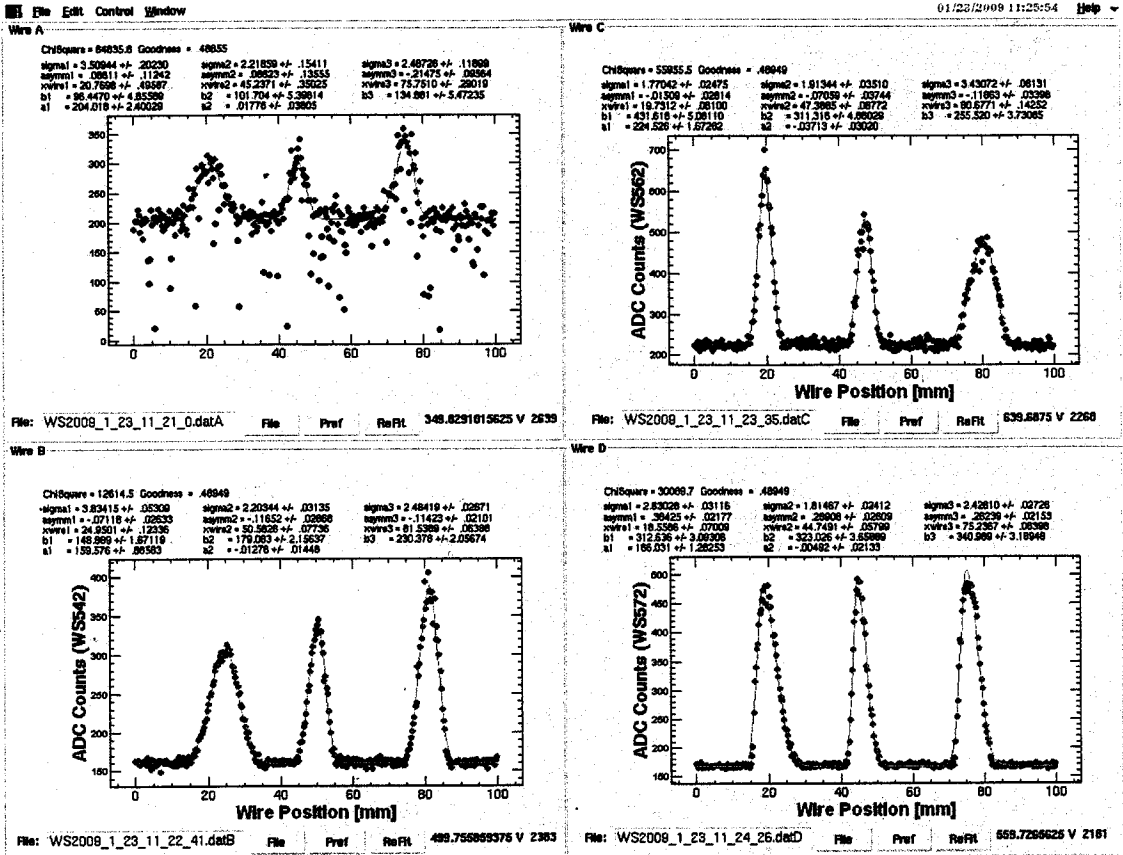
(e)

SC37-2 5Hz

QF364 6.037A → 6.234A

- 再度、ワイヤで測定
- 下流のスクリーンでは、13468 丸く収めた。

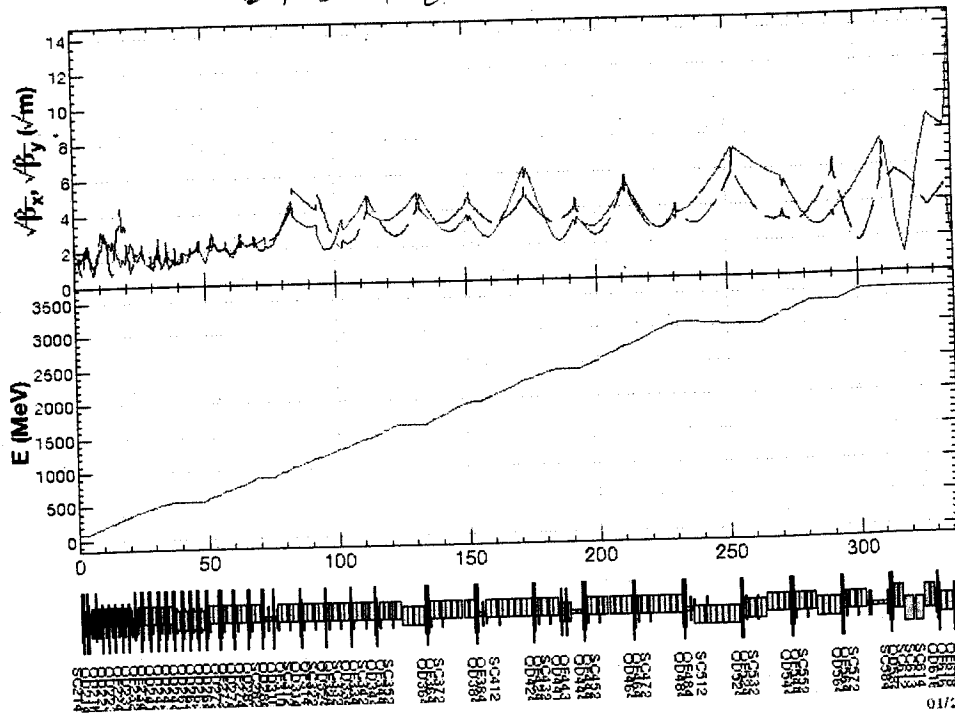
2F364 6.234A



37

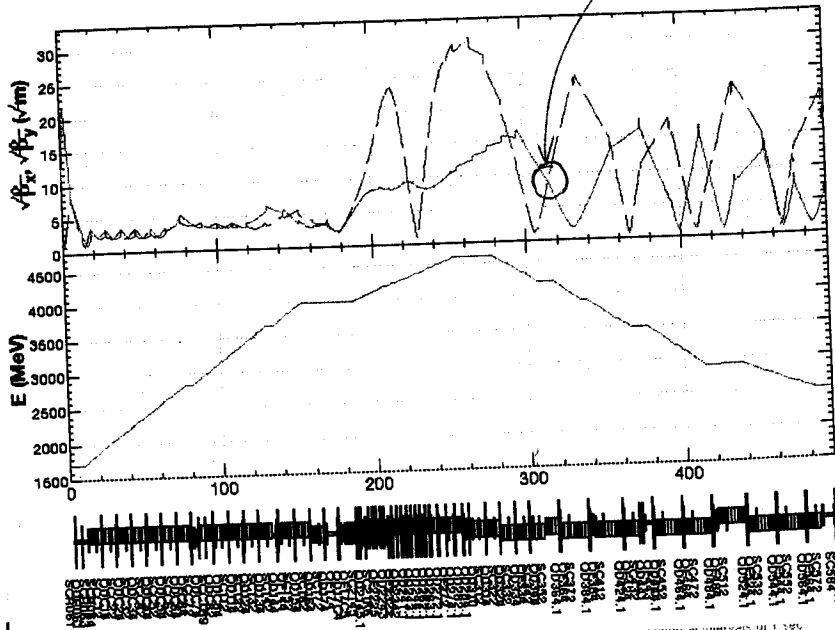
2F364 E 6.234A 12 LT=3後

(et)



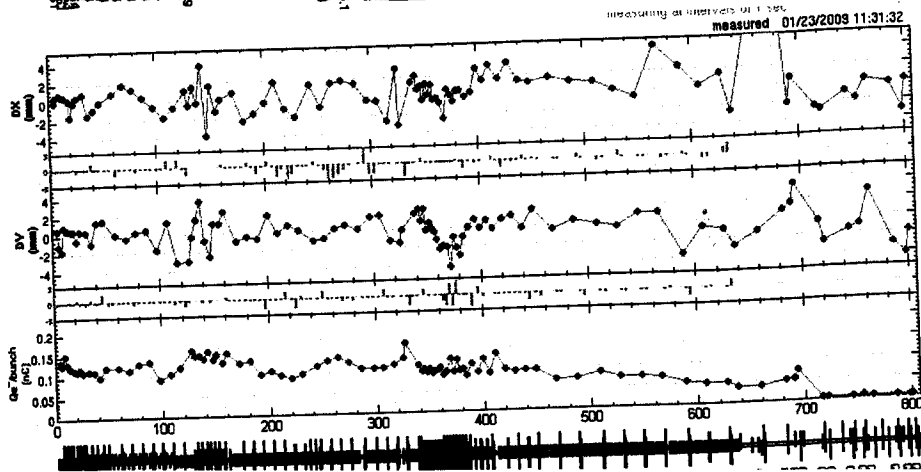
(PH)

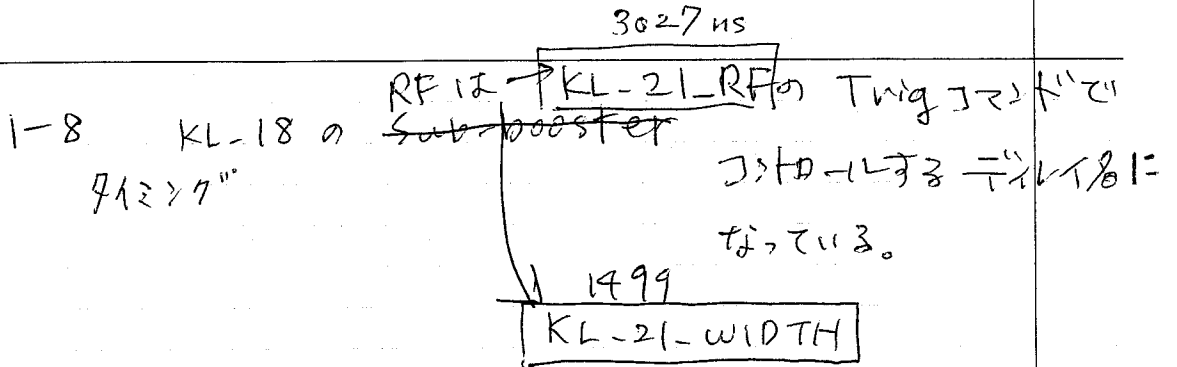
Vertical<172上0.75T



(PH)

通りは悪い



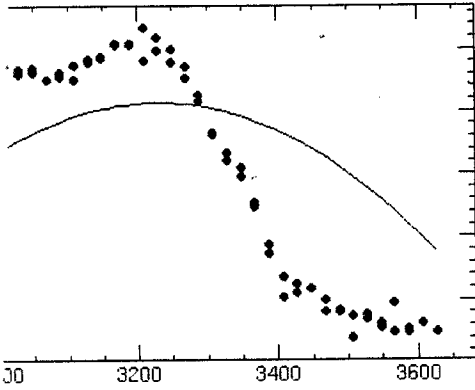


\* KL-18 の RF の遅延は、1-8 の遅延で決まっています。 LIEV - KL-18-delay

KL-21-RF 3027 ns →

KL-21-WIDTH 1499 ns →





**3027 ns → 3227 ns  
→ 3200 ns**

KL\_21\_RF - delay

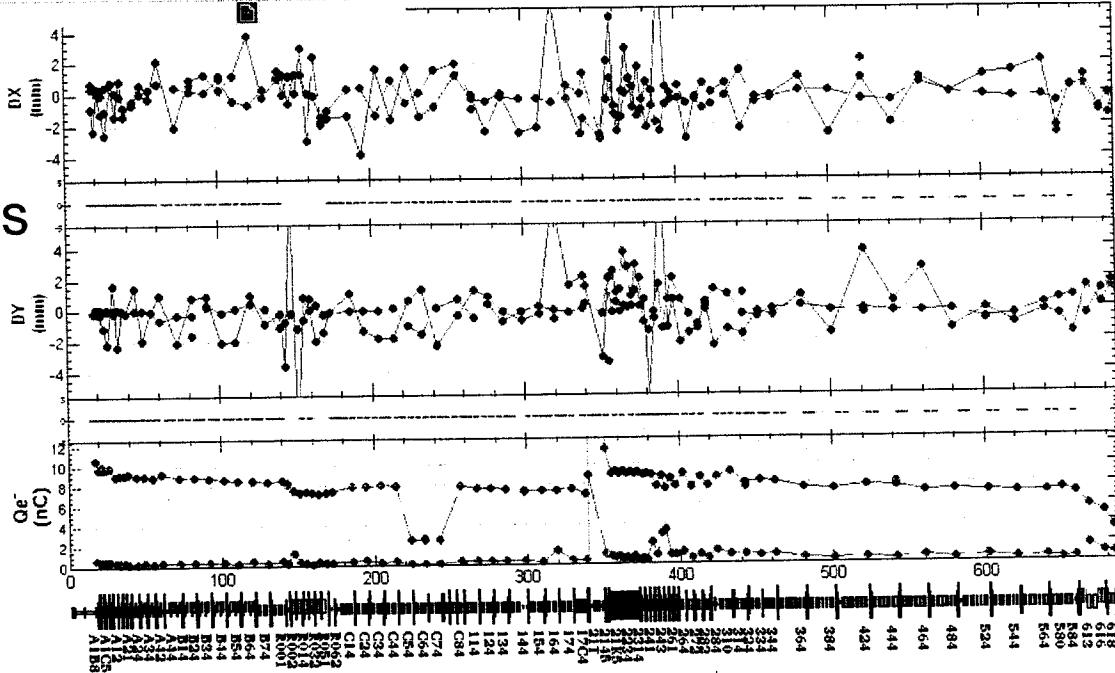
orbit Window

Orbit (2-bunch)

measuring at intervals of 1 sec

measured 01/23/2009 19:39:25

6.32:0.0



r.m.s = 1.623 mm  
max. = 6.342 mm  
@ SPQCF5P\_K  
min. = -6.89 mm  
@ SPOMD2P\_1K

518 mm  
@ SP174  
r.m.s = 1.73 mm

r.m.s = 1.111 mm  
max. = 3.671 mm  
@ SP2314  
min. = -3.698 mm  
@ SPOWDP\_1A

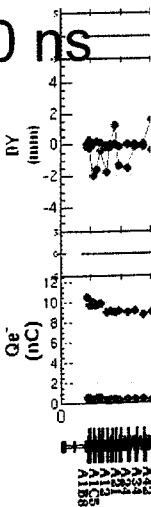
-1.953 mm  
@ SPDMO1OP\_A  
r.m.s = 2.632 mm

1.154 nC  
100 nC  
@ SP21K3  
1.115 ± 0.079 nC  
1.022 ± 0.1 nC

1.170

3027ns

3200 ns



1. 1-8 standby と acc で、  
61-H スクリーン上の ビーム位置が  
変わらない。
2. 1-8 のおの acc では測定できない。  
1-8 と 2-1 の方とも acc にすれば OK。
3. 1-8 の standby が 2-5 である。 要調査  
→ 測定は、2-1 と 2-5 を ACC で行う。

KL\_21\_RF - delay

indow

01/23/2009 19:55

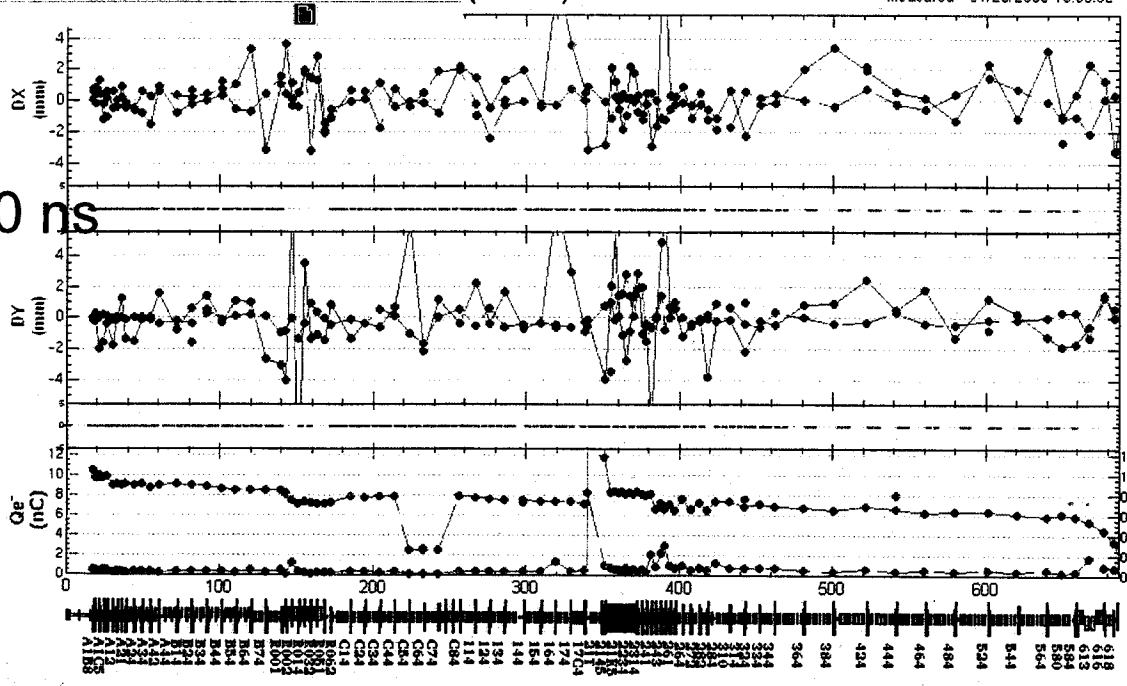
(2-bunch)

measuring at intervals of .1 sec

measured 01/23/2009 19:55:32

9.66.32:0.0

3200 ns



r.m.s =  
max =  
@ SP  
min =  
@ SP

777 r  
@ SP  
(906)

r.m.s =  
max =  
@ SP  
min =  
@ SP

-2.956  
@ SP  
(-2.95)

1.174  
.1011  
@ SP  
(1.12  
(.094

1.43

188 187 186 185 184 183 182 181 180 179 178 177 176 175 174 173 172 171 170 169 168 167 166 165 164 163 162 161 160 159 158 157 156 155 154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 103 102 101 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1