

(test I)

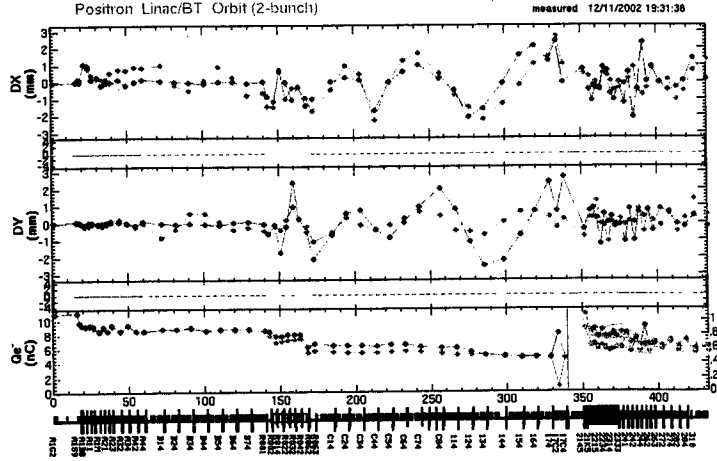
(test I-1)

-SP-1  
~MG-1

AL-C5: 0  
~~AL-1: 1~~  
 AL-2: 0.8  
~~AL-M: 0~~  
 AL-1: 0  
 AL-2: 0

File Edit Measurement Correction Steering Orbit Window

measured 12/11/2002 19:31:38



r.m.s = 2.6 mm  
 max = 8.843 mm  
 @ SPQWFSP\_K  
 min = -17.04 mm  
 @ SPQWFSP\_1A

r.m.s = 3.277 mm  
 max = 18.724 mm  
 @ SPQXD4P\_A  
 min = -18.502 mm  
 @ SPQAD3P\_A

guide 03 10 2002 20:17:13.dat

range DX Auto + Fix (3) DY Auto + Fix (3) Qc Auto + Fix (2) e/n° 10

Clear Statistics Standard Size  
 meas -> gold meas -> ref  
 single closed  
 Hard Copy

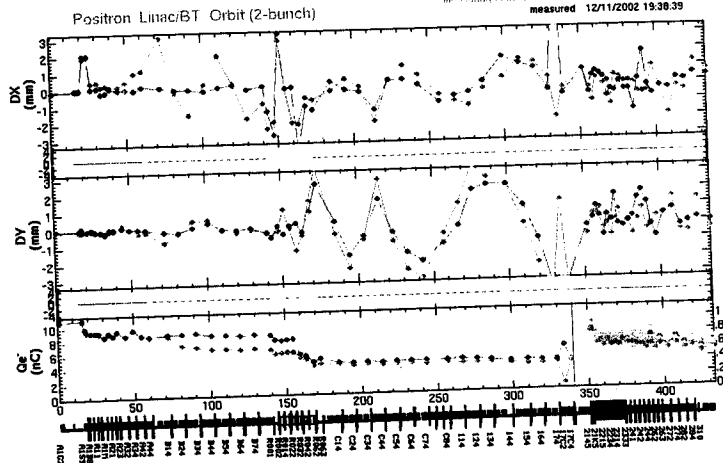
(test I-2)

~SP-2  
~~MG-2~~

AL-C5: 0  
 AL-1: 2  
 AL-2: 2  
 AL-M: 0  
 AL-1: 0

File Edit Measurement Correction Steering Orbit Window

measured 12/11/2002 19:38:39



r.m.s = 2.906 mm  
 max = 8.843 mm  
 @ SPQWFSP\_K  
 min = -17.04 mm  
 @ SPQWFSP\_1A

r.m.s = 3.328 mm  
 max = 18.724 mm  
 @ SPQXD4P\_A  
 min = -18.502 mm  
 @ SPQAD3P\_A

guide 03 10 2002 20:17:13.dat

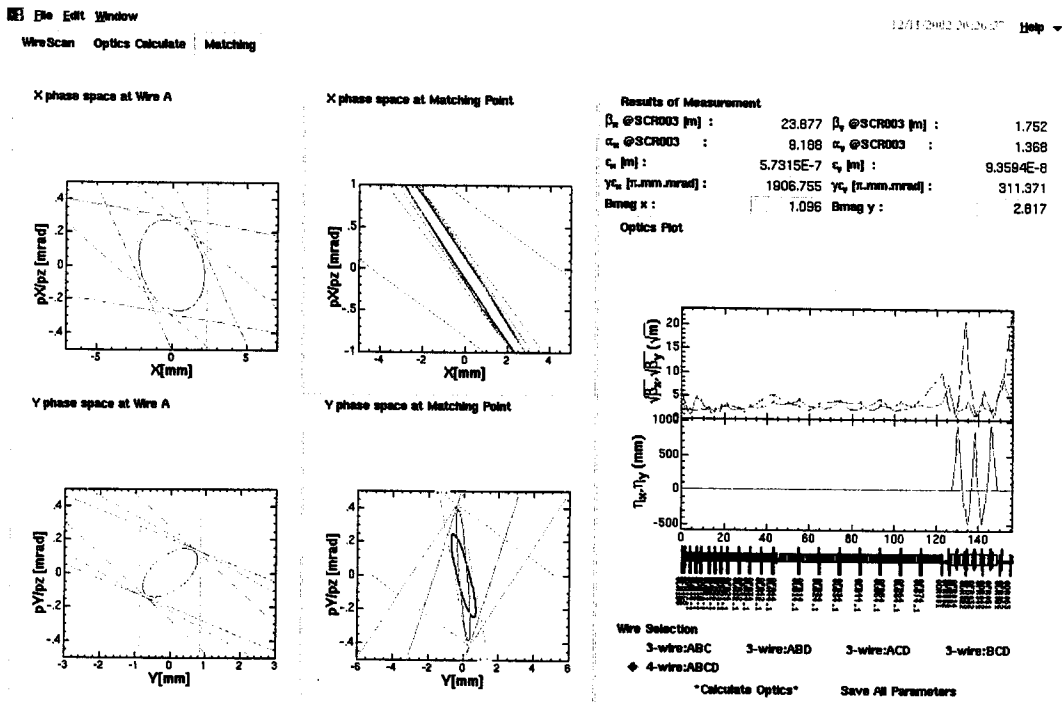
range DX Auto + Fix (3) DY Auto + Fix (3) Qc Auto + Fix (2) e/n° 10

Clear Statistics Standard Size  
 meas -> gold meas -> ref  
 single closed  
 Hard Copy

(test 1-3) Test 1-2 の状態を,  
 $A_{B-2} = I$   
 WS-B 測定の時に A を測りたが、手動で Q を振る。

(test 1-4) (test 1-2) での bump-high を変える。  

$$\begin{cases} A_{1-1} = 1 \\ A_{1-2} = 1 \end{cases}$$



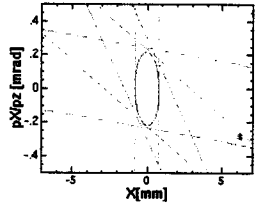
Qmag values were SAVEd to /data1/KEKB/Wire/LINAC/sectorB/positron/data/Qvalue/qname\_2002\_12\_11\_19\_57\_16.datd

(test 1-5) (test 1-2) ~ Bump height 表 2.2  
 { AL-1: 0.5  
 AL-2: 0.5

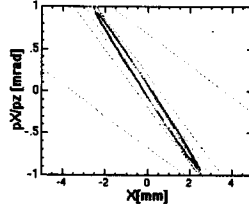
File Edit Window  
 WireScan Optics Calculate Matching

12/19/2002 09:37:42 Help

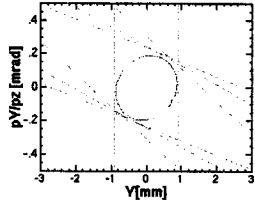
X phase space at Wire A



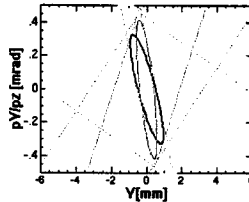
X phase space at Matching Point



Y phase space at Wire A



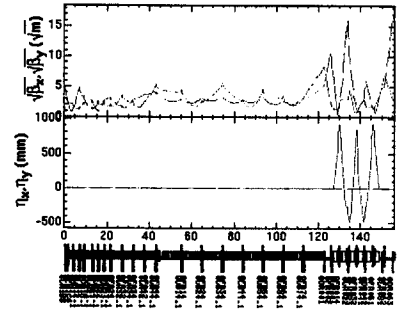
Y phase space at Matching Point



Results of Measurement

$\beta_x$ @SCR003 [m] :	48.026	$\beta_y$ @SCR003 [m] :	2.108
$\alpha_x$ @SCR003 :	19.005	$\alpha_y$ @SCR003 :	1.094
$c_x$ [m] :	1.7542E-7	$c_y$ [m] :	1.6581E-7
$\gamma_x$ [1/mm.mrad] :	583.593	$\gamma_y$ [1/mm.mrad] :	551.623
Bmag x :	1.302	Bmag y :	1.76

Optics Plot



Wire Selection

- 3-wire:ABC
  - 3-wire:ABD
  - 3-wire:ACD
  - 3-wire:BCD
  - 4-wire:ABCD
- \*Calculate Optics\* Save All Parameters

diag values were SAVED to d:\data1\KEKB\Wire\LINAC\sectorB\positron\data\Qvalue\qname\_2002\_12\_11\_19\_57\_10.data

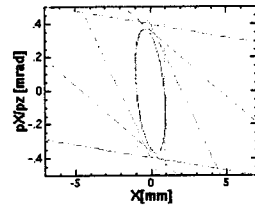
(test 1-6)

{ AL-1: -0.5  
 AL-2: -0.5

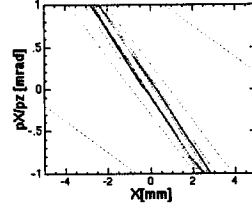
WireScan Optics Calculate Matching

12/19/2002 09:37:42 Help

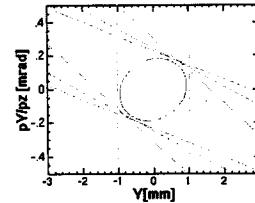
X phase space at Wire A



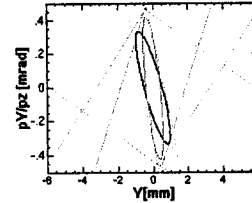
X phase space at Matching Point



Y phase space at Wire A



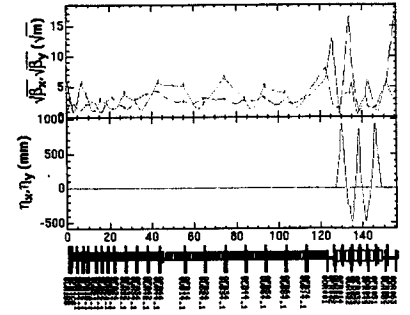
Y phase space at Matching Point



Results of Measurement

$\beta_x$ @SCR003 [m] :	72.907	$\beta_y$ @SCR003 [m] :	1.855
$\alpha_x$ @SCR003 :	28.588	$\alpha_y$ @SCR003 :	.955
$c_x$ [m] :	3.3818E-7	$c_y$ [m] :	1.7386E-7
$\gamma_x$ [1/mm.mrad] :	1128.394	$\gamma_y$ [1/mm.mrad] :	578.386
Bmag x :	1.514	Bmag y :	1.865

Optics Plot



Wire Selection

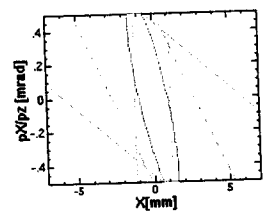
- 3-wire:ABC
  - 3-wire:ABD
  - 3-wire:ACD
  - 3-wire:BCD
  - 4-wire:ABCD
- \*Calculate Optics\* Save All Parameters

(test 1-7)  $\{A1-1\} = -1.0$   
 $\{A1-2\} = -1.0$

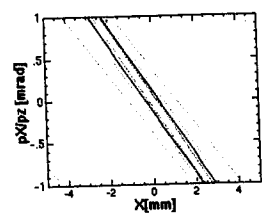
File Edit Window

WireScan Optics Calculate Matching

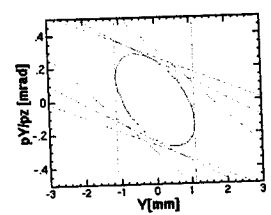
X phase space at Wire A



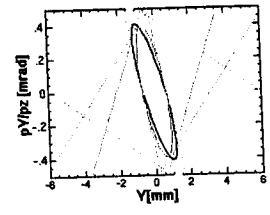
X phase space at Matching Point



Y phase space at Wire A



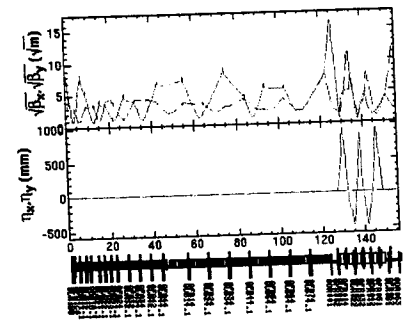
Y phase space at Matching Point



Results of Measurement

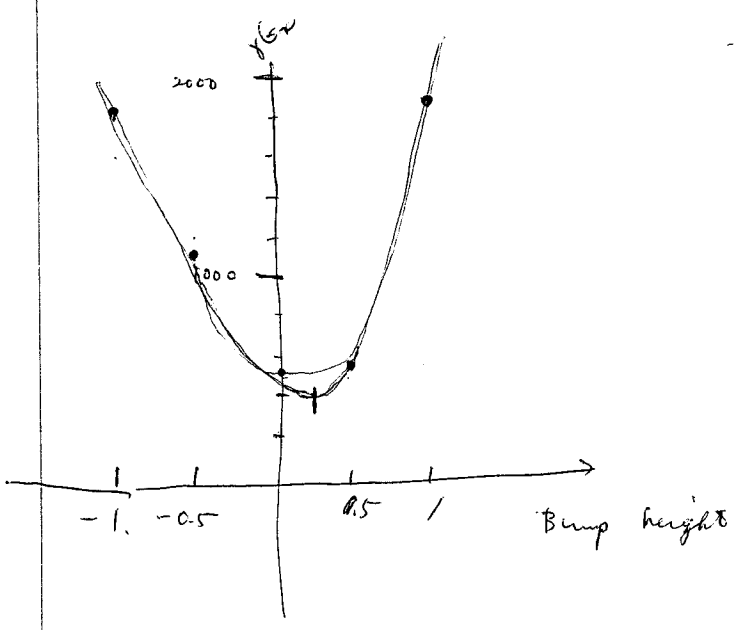
$\beta_x$ @SCR003 [m] :	113.235	$\beta_y$ @SCR003 [m] :	3.306
$\alpha_x$ @SCR003 :	43.719	$\alpha_y$ @SCR003 :	.993
$c_x$ [m] :	5.5121E-7	$c_y$ [m] :	2.6109E-7
$\gamma_x$ [1/mm.mrad] :	1833.788	$\gamma_y$ [1/mm.mrad] :	868.605
Bmag x :	1.872	Bmag y :	1.12

Optics Plot



Wire Selection  
 3-wire:ABC 3-wire:ABD 3-wire:ACD 3-wire:BCD  
 4-wire:ABCD  
 \*Calculate Optics\* Save All Parameters

Onmag values were SAVED to #data1/KEKB/Wire/LINAC/sectorB/positron/data/Qvalue/qplane\_2002\_12\_11\_19\_57\_18.dat0



157

(test 1-8) SA1-1: -1.5  
SA1-2: -1.5

File Edit Window  
WireScan Optics Calculate Matching

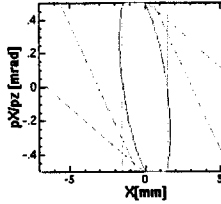
12/11/2002 21:20:26 Help

X phase space at Wire A

X phase space at Matching Point

Results of Measurement

$\beta_x$  @SCR003 [m] : 71.421  $\beta_y$  @SCR003 [m] : 3.347  
 $\alpha_x$  @SCR003 : 27.629  $\alpha_y$  @SCR003 : 1.363



File Edit Window

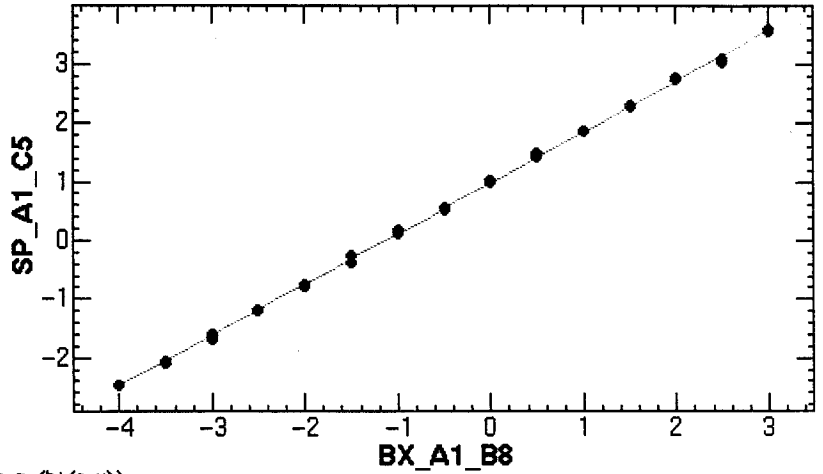
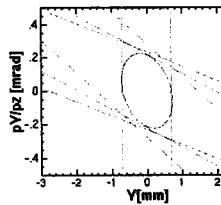
12/11/2002 21:20:26 H

ChiSquare = .04772 Goodness = .46445

a = .86478 +/- .00349

b = .97279 +/- .00774

Y phase space at Wire A



Qmag values were SAVED to /data1/KEKB

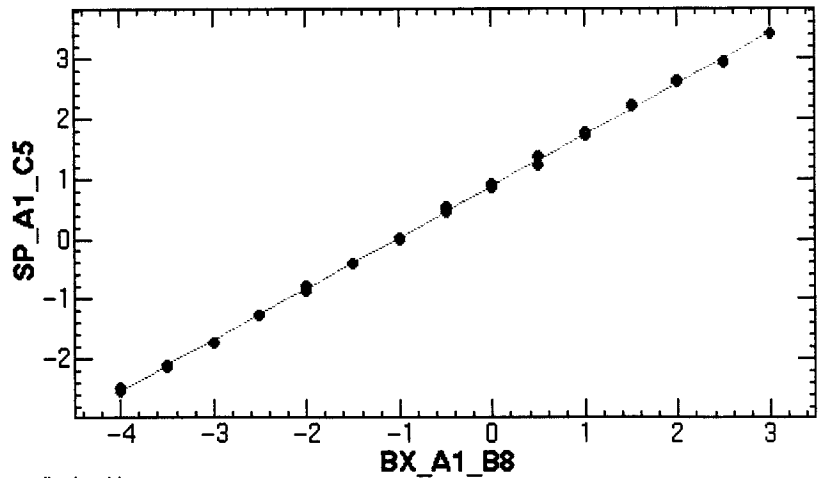
Steering vs. SF Function = (b+(a x))

Energy at A1\_B8 : 17.403298945229576 MeV

ChiSquare = .06083 Goodness = .46445

a = .85164 +/- .00394

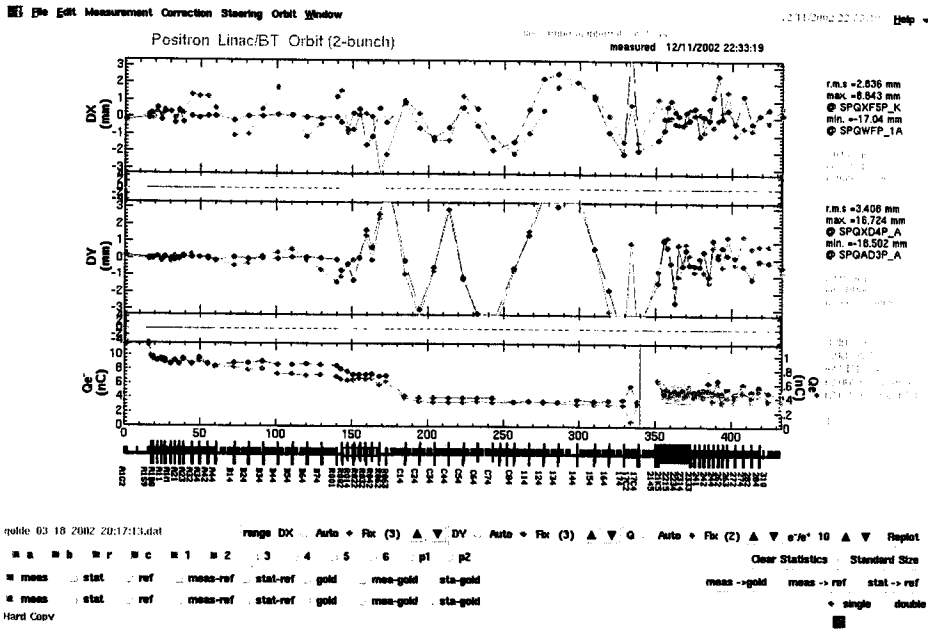
b = .86875 +/- .00873



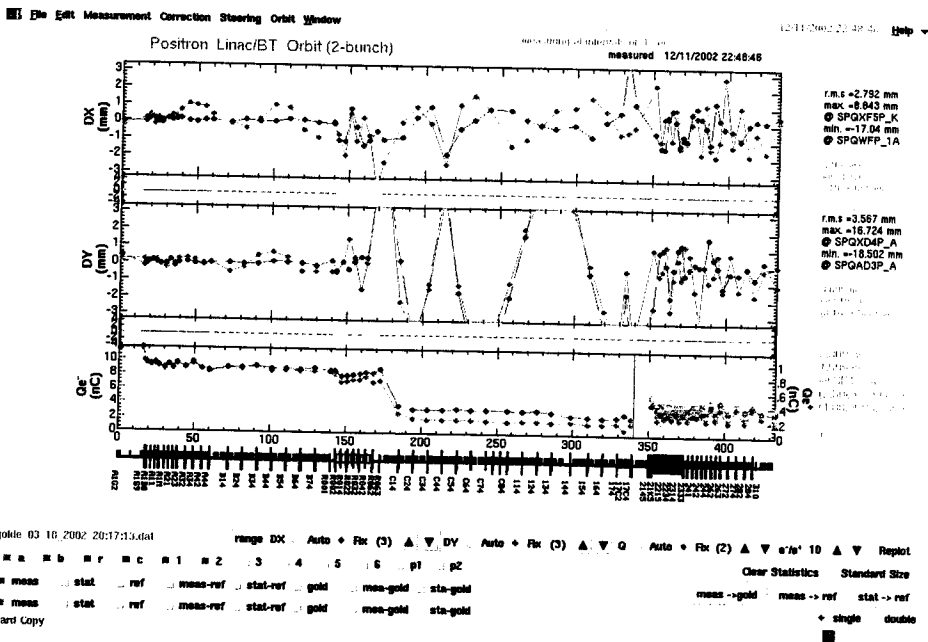
Function = (b+(a x))

Energy at A1\_B8 : 17.403298945229576 MeV

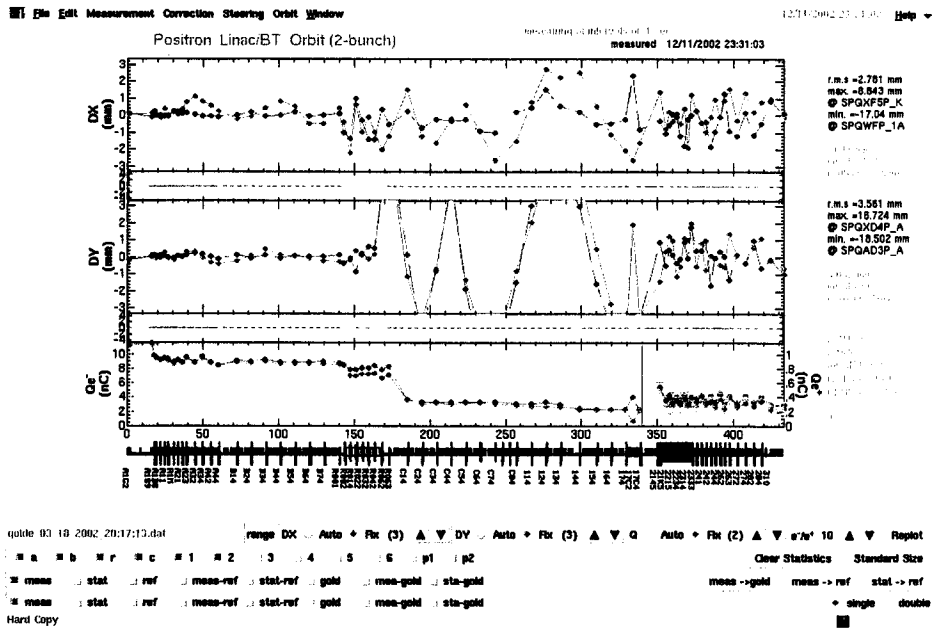
AL-S9 (2 Bunch) 正のバッチ間, 5%以内, (軌道中心) 自動軌道補正 (7/9 本回) (7/9)



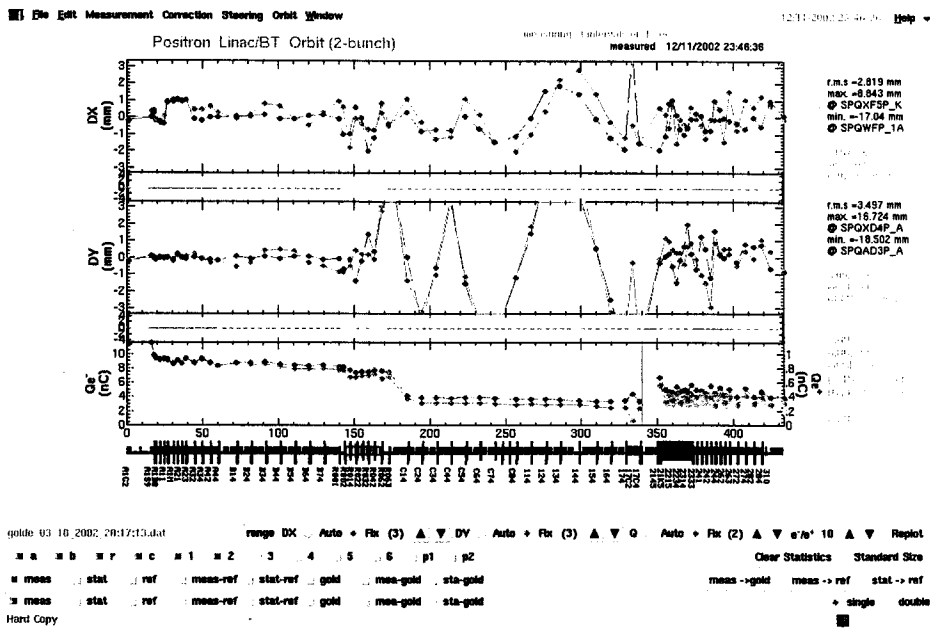
ALB8 = +1mm



AL-B8: -7mm



A1-B8 - 2mm  
 4374

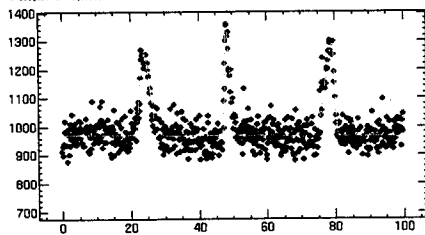


A1-B1  
 S  
 A2-4  
 offset + 1

File Edit Window Help

Wire A

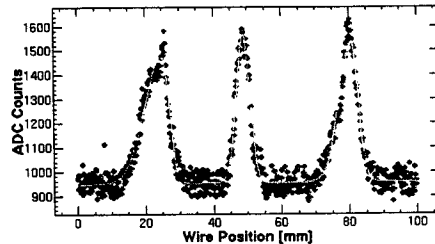
ChiSquare = 946186, Goodness = .49239  
 r1sig1 = 1.28181 +/- .06924    r1sig2 = .72762 +/- .05067    r1sig3 = 1.31147 +/- .05561  
 r2sig1 = .28216 +/- .09999    r2sig2 = .49410 +/- .09999    r2sig3 = -.28917 +/- .07881  
 r3sig1 = 25.56540 +/- .15656    r3sig2 = 47.49052 +/- .09942    r3sig3 = 79.25229 +/- .12532  
 b1 = 297.414 +/- 12.2649    b2 = 371.385 +/- 15.9333    b3 = 328.469 +/- 12.7461  
 a1 = 949.424 +/- 3.37569    a2 = -.08971 +/- .00090    a3 =



File: WS2002\_12\_11\_23\_46\_48.datA File Pref ReFit -379.814 V

Wire C

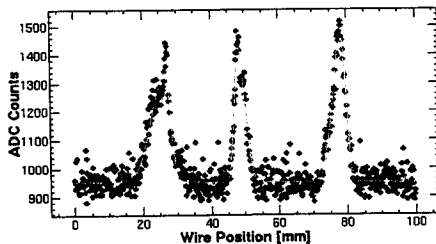
ChiSquare = 897442, Goodness = .49239  
 r1sig1 = 2.58294 +/- .06924    r1sig2 = 1.97761 +/- .09977    r1sig3 = 2.91923 +/- .05294  
 r2sig1 = -.28216 +/- .09999    r2sig2 = -.94622 +/- .04181    r2sig3 = -.28917 +/- .07881  
 r3sig1 = 24.95495 +/- .14293    r3sig2 = 48.89485 +/- .09997    r3sig3 = 81.88716 +/- .12129  
 b1 = 929.678 +/- 7.93291    b2 = 612.282 +/- 16.1799    b3 = 577.262 +/- 9.31999  
 a1 = 949.418 +/- 4.16878    a2 = .11962 +/- .00094    a3 =



File: WS2002\_12\_11\_23\_48\_19.datC File Pref ReFit -379.814 V

Wire B

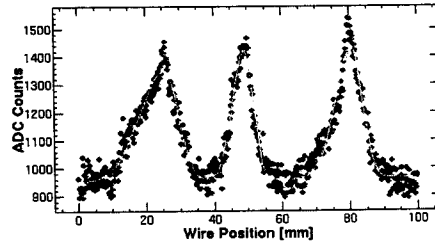
ChiSquare = 909447, Goodness = .49239  
 r1sig1 = 2.76209 +/- .06924    r1sig2 = 1.51994 +/- .09969    r1sig3 = 1.94082 +/- .09969  
 r2sig1 = -.47981 +/- .05881    r2sig2 = .19298 +/- .04887    r2sig3 = -.28132 +/- .09994  
 r3sig1 = 26.26972 +/- .19951    r3sig2 = 48.21121 +/- .11299    r3sig3 = 79.26265 +/- .11064  
 b1 = 379.478 +/- 8.86399    b2 = 471.922 +/- 12.1987    b3 = 610.212 +/- 14.7896  
 a1 = 959.187 +/- 3.21706    a2 = -.08964 +/- .00092    a3 =



File: WS2002\_12\_11\_23\_47\_35.datB File Pref ReFit -379.814 V

Wire D

ChiSquare = 811783, Goodness = .49239  
 r1sig1 = 5.88286 +/- .12912    r1sig2 = 2.98993 +/- .02727    r1sig3 = 4.91941 +/- .02144  
 r2sig1 = -.28216 +/- .09999    r2sig2 = -.28491 +/- .02727    r2sig3 = -.28917 +/- .07881  
 r3sig1 = 25.73271 +/- .07949    r3sig2 = 48.83994 +/- .12729    r3sig3 = 81.95065 +/- .17991  
 b1 = 392.918 +/- 5.67180    b2 = 442.246 +/- 8.26246    b3 = 491.215 +/- 7.25289  
 a1 = 961.957 +/- 5.61934    a2 = .14294 +/- .00092    a3 =



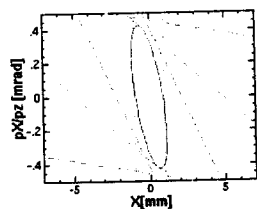
File: WS2002\_12\_11\_23\_49\_4.datD File Pref ReFit -379.814 V

Hard Conv

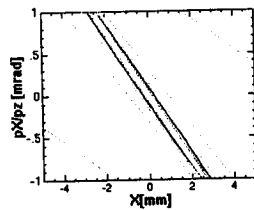
File Edit Window Help

WireScan Optics Calculate Matching

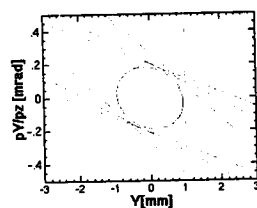
X phase space at Wire A



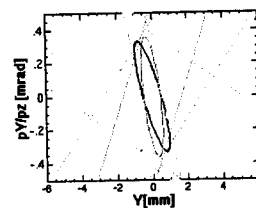
X phase space at Matching Point



Y phase space at Wire A



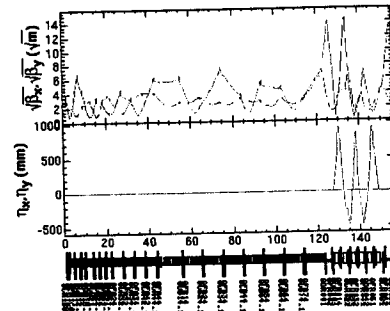
Y phase space at Matching Point



Results of Measurement

$\beta_x$  @SCR003 [m] : 86.915     $\beta_y$  @SCR003 [m] : 2.068  
 $\alpha_x$  @SCR003 : 33.765     $\alpha_y$  @SCR003 : .756  
 $c_x$  [m] : 3.8587E-7     $c_y$  [m] : 1.7133E-7  
 $\gamma_x$  [1./mm.mrad] : 1283.707     $\gamma_y$  [1./mm.mrad] : 569.886  
 Bmag x : 1.599    Bmag y : 1.506

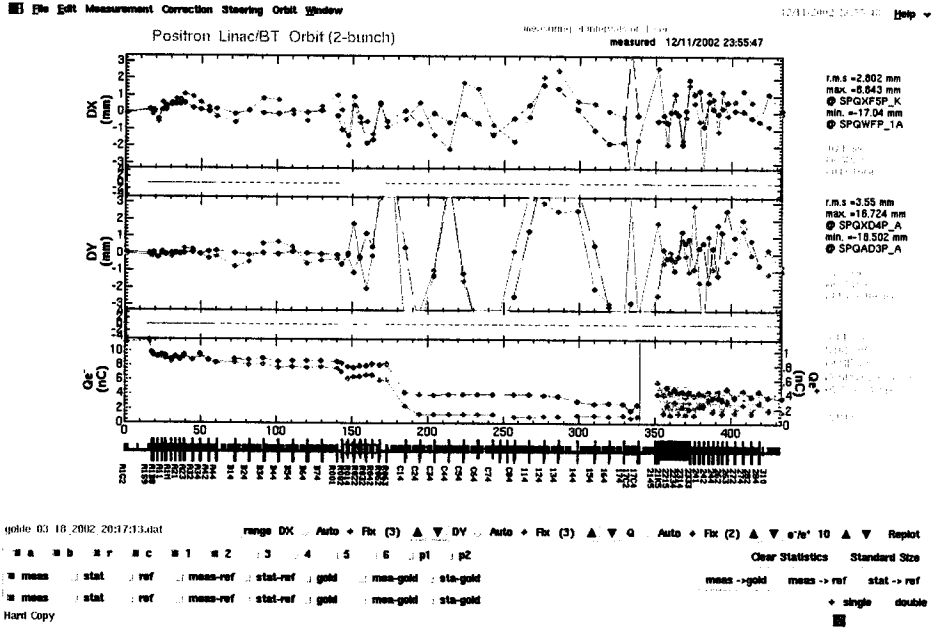
Optics Plot



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

\*Calculate Optics\*    Save All Parameters





ALM  
A2-L  
DPP FQ5  
st

File Edit Window

calculate Matching

Are A

X phase space at Matching Point

Results of Measurement

$\beta_x$ @SCR003 [m] :	53.687	$\beta_y$ @SCR003 [m] :	1.649
$\alpha_x$ @SCR003 :	21.262	$\alpha_y$ @SCR003 :	.768
$c_x$ [m] :	5.7103E-7	$c_y$ [m] :	1.1180E-7
$\gamma_x$ [1/mm.mrad] :	1888.722	$\gamma_y$ [1/mm.mrad] :	371.836
$Bmag_x$ :	1.361	$Bmag_y$ :	1.912

Optics Plot

Y phase space at Matching Point

Wire Selection

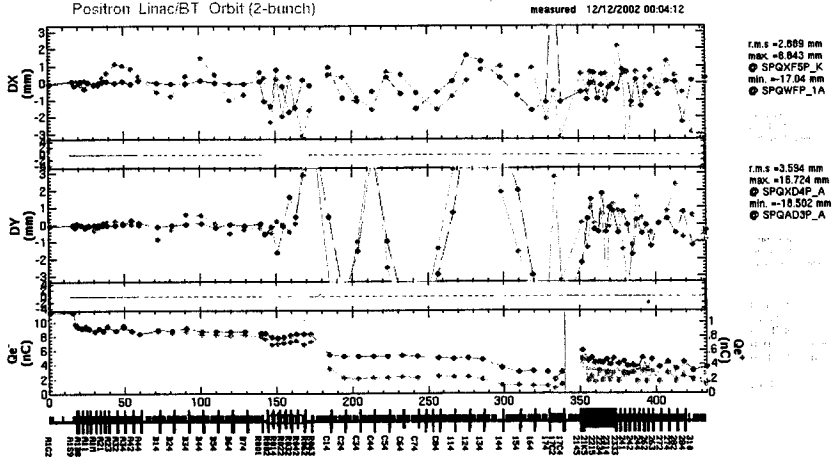
- 3-wire:ABC
- 3-wire:ABD
- 3-wire:ACD
- 3-wire:BCD
- 4-wire:ABCD

\*Calculate Optics\* Save All Parameters

Ed to Adata1/KEKB/Wire/LINAC/sectorB/positron/data/Qvalue/qname\_2002\_12\_11\_19\_57\_10.datD

File: WS2002\_12\_11\_23\_56\_52.datB File Pref ReRt -375.814 V File: WS2002\_12\_11\_23\_56\_20.datD File Pref ReRt -375.814 V

Hard Copy



ALM  
S  
A2-4  
offset: 0mm

gtdb: 03 10 2002 20:17:13.dat range DX Auto + Fix (3) ▲ ▼ DY Auto + Fix (3) ▲ ▼ Q Auto + Fix (2) ▲ ▼ e/n\* 10 ▲ ▼ Replot

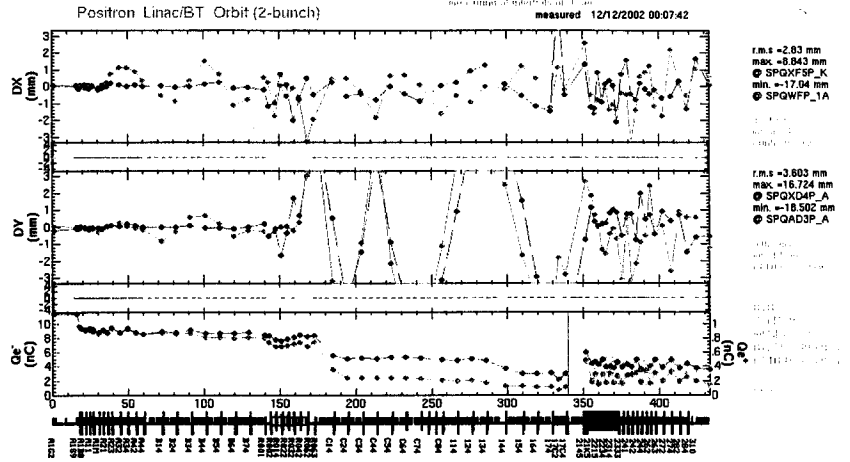
Clear Statistics Standard Size

mess stat ref mess-ref stat-ref gold mes-gold sta-gold mess->gold mess->ref stat->ref

mess stat ref mess-ref stat-ref gold mes-gold sta-gold

single double

Hard Copy



gtdb: 03 10 2002 20:17:13.dat range DX Auto + Fix (3) ▲ ▼ DY Auto + Fix (3) ▲ ▼ Q Auto + Fix (2) ▲ ▼ e/n\* 10 ▲ ▼ Replot

Clear Statistics Standard Size

mess stat ref mess-ref stat-ref gold mes-gold sta-gold mess->gold mess->ref stat->ref

mess stat ref mess-ref stat-ref gold mes-gold sta-gold

single double

Hard Copy