143

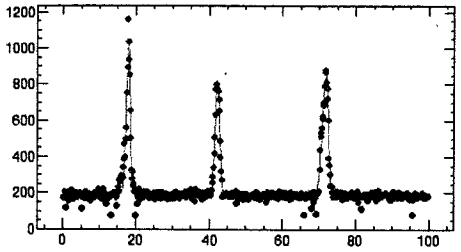
File Edit Control Window

05/24/2008 22:58:02 Help

Wire A

ChiSquare = 262203 Goodness = .49231

sigma1 = .55346 +/- .00646 sigma2 = .81128 +/- .01140 sigma3 = .80260 +/- .01276
asymm1 = -.23059 +/- .03076 asymm2 = -.02002 +/- .03689 asymm3 = -.31531 +/- .03125
xwire1 = 17.9636 +/- .02084 xwire2 = 42.1512 +/- .02912 xwire3 = 71.9076 +/- .03065
b1 = 921.956 +/- 10.7331 b2 = 837.063 +/- 10.2489 b3 = 860.539 +/- 8.97701
a1 = 194.084 +/- 1.84509 a2 = -.06134 +/- .03155

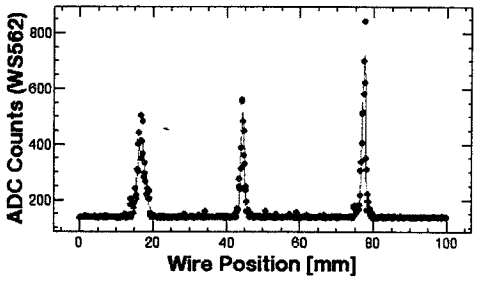


File: /PF/data/Raw/WS2008_5_24_22 File Pref ReFit 499.755859375 V 1880

Wire C

ChiSquare = 140927. Goodness = .49239

sigma1 = 1.01137 +/- .02337 sigma2 = .48948 +/- .01208 sigma3 = .44627 +/- .00748
asymm1 = .19948 +/- .04650 asymm2 = .04260 +/- .05149 asymm3 = -.43815 +/- .03137
xwire1 = 18.5494 +/- .05750 xwire2 = 44.3385 +/- .03087 xwire3 = 77.8088 +/- .01719
b1 = 284.141 +/- 5.60234 b2 = 376.340 +/- 6.00081 b3 = 383.103 +/- 8.39038
a1 = 142.498 +/- 1.30365 a2 = .00210 +/- .02211

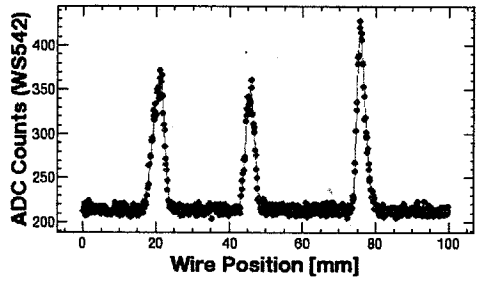


File: WS2008_5_24_22_56_12.datC File Pref ReFit 879.5703125 V 1627

Wire B

ChiSquare = 16635.3 Goodness = .49239

sigma1 = 1.49845 +/- .01890 sigma2 = 1.19834 +/- .01613 sigma3 = 1.11854 +/- .01208
asymm1 = -.27389 +/- .02481 asymm2 = -.01915 +/- .03139 asymm3 = .37298 +/- .02059
xwire1 = 21.1149 +/- .04518 xwire2 = 43.8439 +/- .04599 xwire3 = 75.4980 +/- .02820
b1 = 148.676 +/- 1.98538 b2 = 135.562 +/- 1.76348 b3 = 196.272 +/- 1.82776
a1 = 213.533 +/- .46312 a2 = .00259 +/- .00760

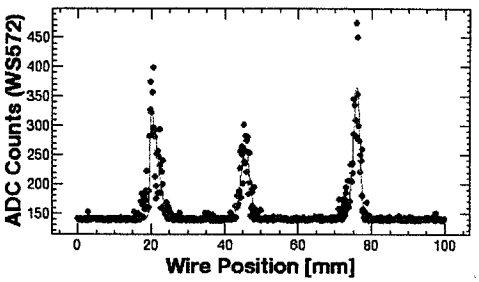


File: WS2008_5_24_22_55_26.datB File Pref ReFit 599.70703125 V 1707

Wire D

ChiSquare = 155036. Goodness = .49239

sigma1 = 1.04868 +/- .03933 sigma2 = 1.17000 +/- .06151 sigma3 = .86482 +/- .02883
asymm1 = .80000 +/- .04937 asymm2 = -.01118 +/- .10873 asymm3 = -.12346 +/- .06706
xwire1 = 19.8785 +/- .06450 xwire2 = 45.5403 +/- .15621 xwire3 = 75.9521 +/- .07249
b1 = 182.328 +/- 5.73301 b2 = 120.811 +/- 5.43487 b3 = 223.744 +/- 6.27222
a1 = 143.145 +/- 1.36667 a2 = -.01381 +/- .02318



File: WS2008_5_24_22_56_55.datD File Pref ReFit 879.5703125 V 1587

File Edit Window

05/24/2008 23:49:59

low

05/24/2008 22:58:21 Help

tics Calculate | Matching

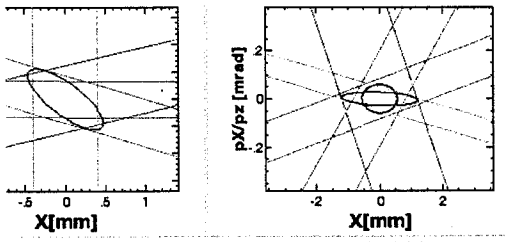
Matching Conditions

QD544 QF584: β_x < 60.00 26.91473

QD544 QF584: β_y < 60.00 46.91614

t Wire A

X phase space at Matching Point



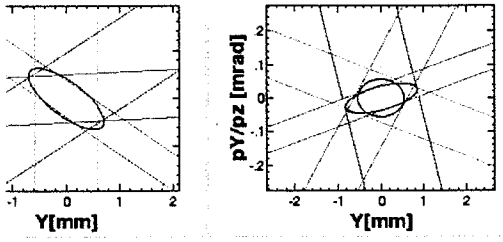
Results of Measurement

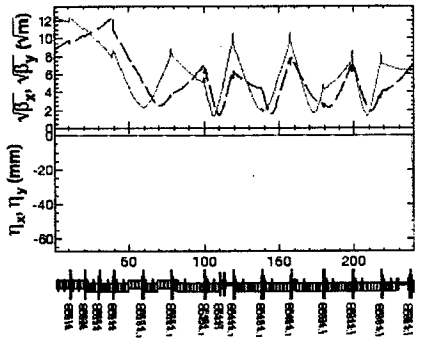
β_x @AC574+1 [m] :	43.475	β_y @AC574+1 [m] :	23.301
α_x @AC574+1 :	.217	α_y @AC574+1 :	-.731
ε_x [m] :	3.3002E-8	ε_y [m] :	2.9978E-8
$\gamma\varepsilon_x$ [π.mm.mrad] :	161.460	$\gamma\varepsilon_y$ [π.mm.mrad] :	146.663
Bmag x :	2.410	Bmag y :	1.529
εBmag x :	7.9529E-8	εBmag y :	4.5837E-8
γεBmag x :	389.085	γεBmag y :	224.252

Optics Plot

t Wire A

Y phase space at Matching Point





Wire Selection

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

◆ 4-wire:ABCD

■ NonLinearFit Err(meas), nσ n: 0 Err(opt) (%): 0

"Calculate Optics" Save All Parameters

Matching Calculation

Calc Matching

Recover Calculation

Reset Calculation

Q-mag Set

Q-mag Read&Write

Read Q-Mag from File

Save Q-Mag to File

SAVEd to /data1/KEKB/Wire/LINAC/sector5/PF/data/Qvalue/lqname_2008_5_24_22_47_50.dat0

測定だけしてみた。 まだ、うまく反映されていない。

ビームはでている。

08/5/27

9:30

fudge factor を set 後測定

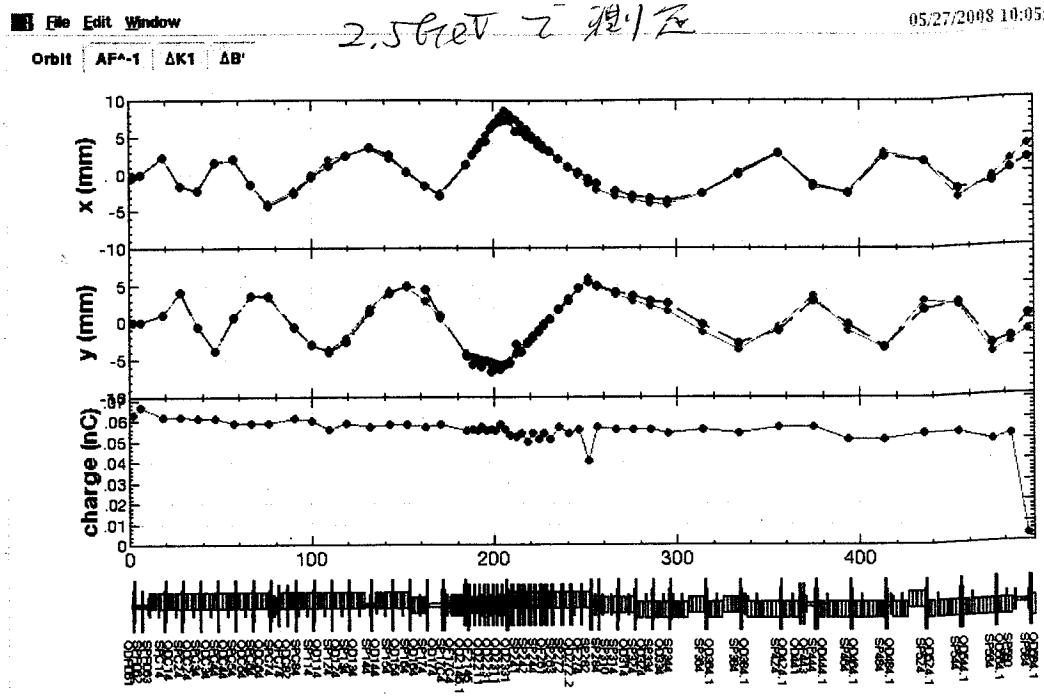
144

大西

飯田

菊地

2.5GeV で測定



Read Optics
s1(m) 0
s2(m) 500
Set ref
Clear ref
Plot orbit
File temp.dat
Write DATA

Steering(X) SXC11
K0 -2.991751
Set Clear
Steering(Y) SYC11
K0 -1.449069
Set Clear

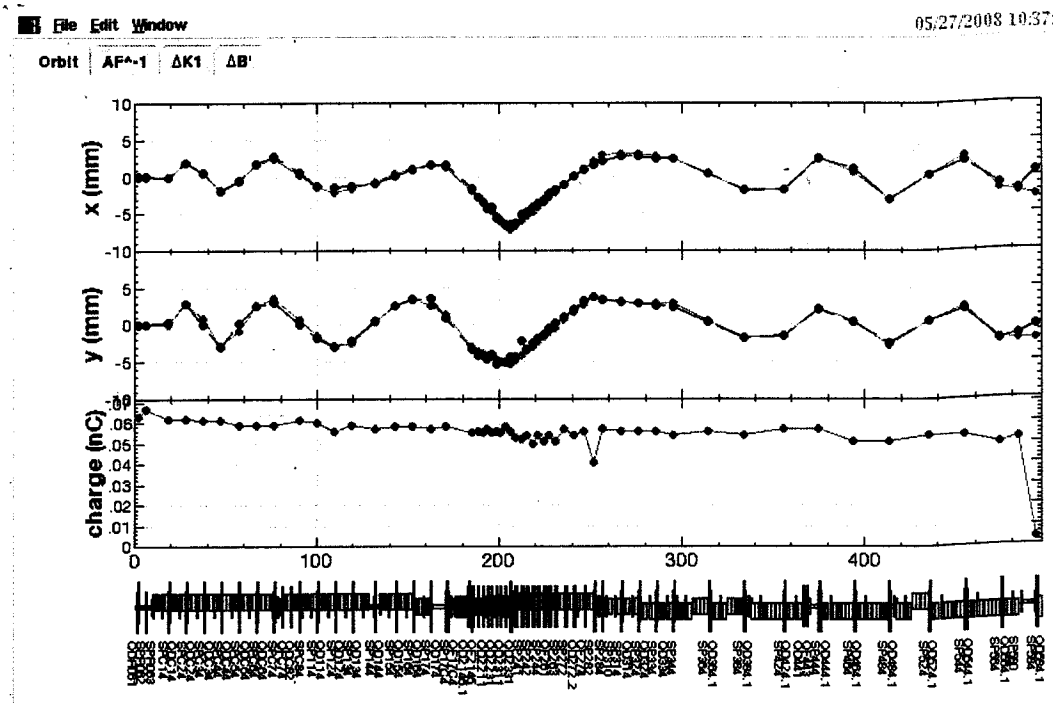
Select Q
QDC14
QFC14
QDC24
QFC24
QDC34
QFC34
QDC44
QFC44
QDC54
QFC54

K1 0
AF 1
Set ref
Set

average
x ◆ y xy
Read SPDATA
Plot
Set ref

Add
EPS .03
Calc
Show Fudge
Set Fudge
Clear Fudge

Open file is /mnt/madata1a/users/onishi/cvs-work/LCG/SAD/Library/single-kick/20080527/syc11_2.dat



Read Optics
s1(m) 0
s2(m) 500
Set ref
Clear ref
Plot orbit
File temp.dat
Write DATA

Steering(X) SXC21
K0 -2.510532
Set Clear
Steering(Y) SYC21
K0 -3.853434
Set Clear

Select Q
QDC14
QFC14
QDC24
QFC24
QDC34
QFC34
QDC44
QFC44
QDC54
QFC54

K1 0
AF 1
Set ref
Set

average
x ◆ y xy
Read SPDATA
Plot
Set ref

Add
EPS .03
Calc
Show Fudge
Set Fudge
Clear Fudge

Open file is /mnt/madata1a/users/onishi/cvs-work/LCG/SAD/Library/single-kick/20080527/syc11_2.dat

145

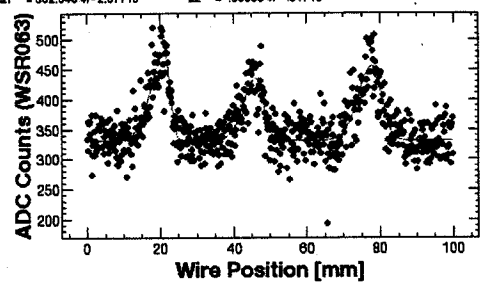
CL7A-
Pfa7

File Edit Control Window 05/27/2008 10:18:05 Help

Wire A

ChiSquare = 482466. Goodness = .49239

sigma1 = 2.82184 +/- .14719 sigma2 = 2.66780 +/- .19656 sigma3 = 3.12118 +/- .18236
asymm1 = -.46026 +/- .09593 asymm2 = -.26129 +/- .14339 asymm3 = -.18311 +/- .11246
xwire1 = 21.1918 +/- .30783 xwire2 = 48.0770 +/- .47165 xwire3 = 77.7458 +/- .42935
b1 = 143.428 +/- 6.54521 b2 = 103.067 +/- 6.39894 b3 = 124.286 +/- 6.01905
a1 = 332.340 +/- 2.87713 a2 = -.00368 +/- .04746

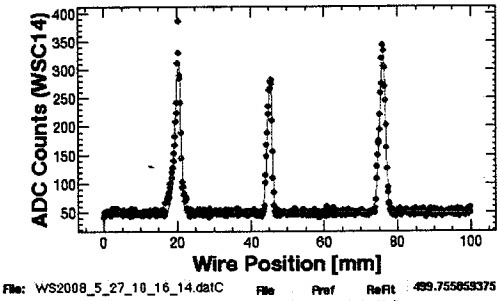


File: WS2008_5_27_10_13_54.datA File Pref ReFit 649.6826171875 V 1446

Wire C

ChiSquare = 31755.2 Goodness = .49239

sigma1 = .79366 +/- .01065 sigma2 = .63644 +/- .01024 sigma3 = .81340 +/- .01005
asymm1 = -.36120 +/- .02587 asymm2 = -.33293 +/- .03172 asymm3 = -.18941 +/- .02520
xwire1 = 20.4280 +/- .02516 xwire2 = 45.3835 +/- .02473 xwire3 = 76.0448 +/- .02510
b1 = 260.582 +/- 2.99262 b2 = 240.127 +/- 3.33164 b3 = 276.762 +/- 2.95585
a1 = 50.5115 +/- .50788 a2 = -.02010 +/- .01043

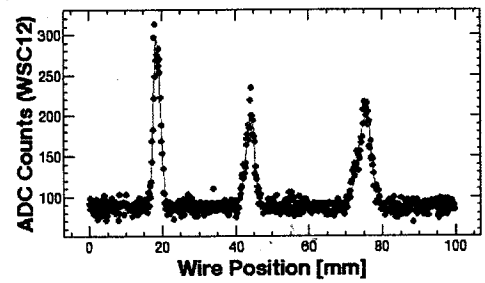


File: WS2008_5_27_10_16_14.datC File Pref ReFit 499.755859375 V 7769

Wire B

ChiSquare = 42191.7 Goodness = .49239

sigma1 = .94190 +/- .01666 sigma2 = 1.16886 +/- .03326 sigma3 = 1.77074 +/- .04325
asymm1 = .17137 +/- .03627 asymm2 = -.22081 +/- .05751 asymm3 = -.26546 +/- .04753
xwire1 = 18.3298 +/- .04184 xwire2 = 44.2659 +/- .09233 xwire3 = 75.7095 +/- .10393
b1 = 207.497 +/- 3.17367 b2 = 116.338 +/- 2.64081 b3 = 112.093 +/- 2.32502
a1 = 87.2621 +/- .71595 a2 = .00591 +/- .01235

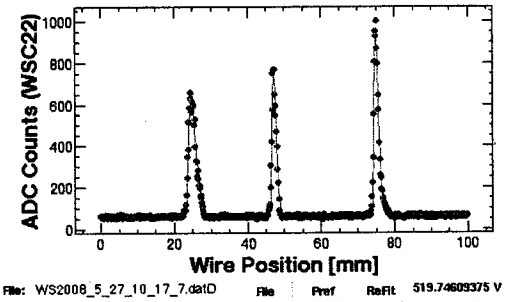


File: WS2008_5_27_10_15_24.datB File Pref ReFit 549.7314453125 V 8154

Wire D

ChiSquare = 80555.5 Goodness = .49239

sigma1 = .99759 +/- .00861 sigma2 = .56370 +/- .00537 sigma3 = .59562 +/- .00421
asymm1 = .40658 +/- .01825 asymm2 = .25163 +/- .01861 asymm3 = .34683 +/- .01372
xwire1 = 24.4223 +/- .01985 xwire2 = 47.0426 +/- .01331 xwire3 = 74.8172 +/- .01001
b1 = 575.529 +/- 4.25823 b2 = 696.540 +/- 5.54156 b3 = 903.957 +/- 5.49463
a1 = 60.6512 +/- .96411 a2 = .02962 +/- .01644



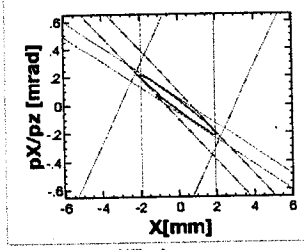
File: WS2008_5_27_10_17_7.datD File Pref ReFit 519.74609375 V 7812

05/27/2008 10:17:56 Help

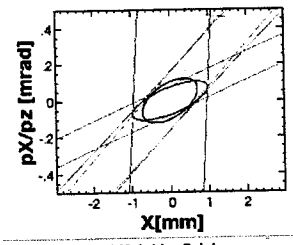
File Edit Window

Wire Scan | Optics Calculate | Matching

X phase space at Wire A



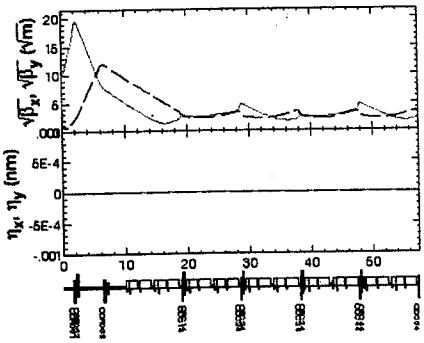
X phase space at Matching Point



Results of Measurement

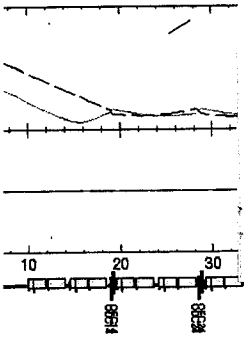
β_x @QDC24 [m] :	12.896	β_y @QDC24 [m] :	11.691
α_x @QDC24 :	-.966	α_y @QDC24 :	-1.060
ε_x [m] :	7.4118E-8	ε_y [m] :	3.0494E-8
$\gamma\varepsilon_x$ [π.mm.mrad] :	295.868	$\gamma\varepsilon_y$ [π.mm.mrad] :	121.727
Bmag x :	1.206	Bmag y :	1.001
εBmag x :	8.9373E-8	εBmag y :	3.0528E-8
γεBmag x :	356.764	γεBmag y :	121.864

Optics Plot

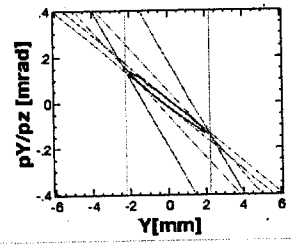


Matching

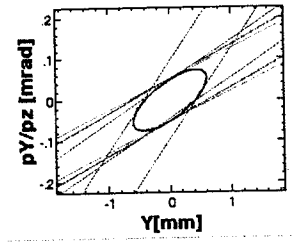
Matching Residual =



Y phase space at Wire A



Y phase space at Matching Point



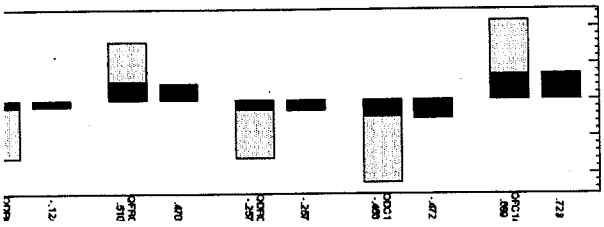
Wire Selection

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

◆ 4-wire:ABCD

NonlinearFit Err(meas). nσ n: 0 Err(opt) (%): 0

Qmag (QX*)



Matching Calculation

Calc Matching

Recover Calculation

Reset Calculation

Q-mag Set

Q-mag Read&Write

Read Q-Mag from File

Save Q-Mag to File

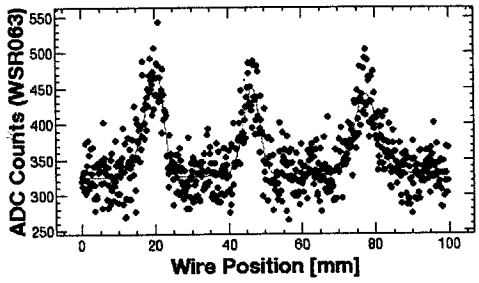
← set

再測定

Wire A

ChiSquare = 467921. Goodness = .49239

sigma1 = 2.63035 +/- .14749	sigma2 = 2.21089 +/- .15126	sigma3 = 3.12176 +/- .20582
asymm1 = -.36461 +/- .10103	asymm2 = -.11813 +/- .13803	asymm3 = .05541 +/- .12791
xwire1 = 20.7295 +/- .32523	xwire2 = 46.5455 +/- .37357	xwire3 = 77.2606 +/- .40838
b1 = 143.427 +/- 6.58754	b2 = 122.083 +/- 7.07318	b3 = 111.806 +/- 6.04648
a1 = 325.057 +/- 2.84394	a2 = .05574 +/- .04804	

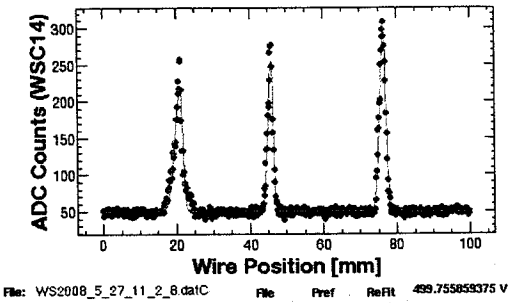


File: WS2008_5_27_11_0_42.datA File Pref ReRt 649.6826171875 V 1449

Wire C

ChiSquare = 26029.8 Goodness = .49239

sigma1 = 1.10516 +/- .01791	sigma2 = .72008 +/- .01133	sigma3 = .85116 +/- .01040
asymm1 = -.38190 +/- .03086	asymm2 = .26512 +/- .03156	asymm3 = -.20316 +/- .02473
xwire1 = 21.0155 +/- .04152	xwire2 = 45.6319 +/- .02785	xwire3 = 76.3785 +/- .02576
b1 = 166.789 +/- 2.30191	b2 = 209.362 +/- 2.83777	b3 = 249.779 +/- 2.61692
a1 = 50.4511 +/- .56103	a2 = -.01491 +/- .00955	

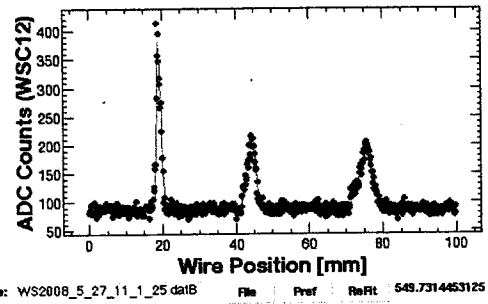


File: WS2008_5_27_11_2_8.datC File Pref ReRt 499.755859375 V 7770

Wire B

ChiSquare = 42922.5 Goodness = .49239

sigma1 = .60155 +/- .00943	sigma2 = 1.12873 +/- .03200	sigma3 = 1.80486 +/- .04764
asymm1 = .34761 +/- .03065	asymm2 = -.22117 +/- .05733	asymm3 = -.21673 +/- .05237
xwire1 = 18.7351 +/- .02260	xwire2 = 44.5555 +/- .07925	xwire3 = 75.9281 +/- .11575
b1 = 286.385 +/- 3.99256	b2 = 119.743 +/- 2.91506	b3 = 103.746 +/- 2.32355
a1 = 67.6196 +/- .70570	a2 = -.00666 +/- .01233	

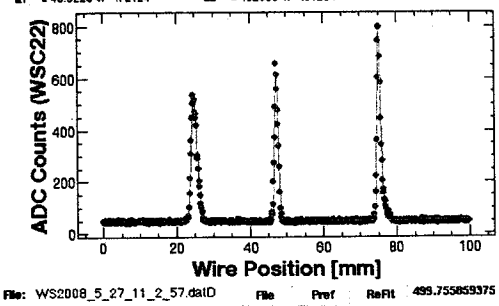


File: WS2008_5_27_11_1_25.datB File Pref ReRt 549.7314453125 V 6155

Wire D

ChiSquare = 45841.9 Goodness = .49239

sigma1 = .82010 +/- .00699	sigma2 = .50404 +/- .00466	sigma3 = .51158 +/- .00361
asymm1 = .29376 +/- .01690	asymm2 = .13957 +/- .01907	asymm3 = .31337 +/- .01386
xwire1 = 24.5219 +/- .01698	xwire2 = 47.1473 +/- .01177	xwire3 = 74.9914 +/- .00867
b1 = 483.343 +/- 3.53595	b2 = 564.131 +/- 4.49811	b3 = 735.926 +/- 4.47195
a1 = 48.5223 +/- .72124	a2 = .02598 +/- .01234	



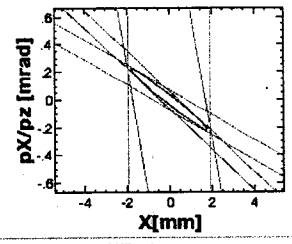
File: WS2008_5_27_11_2_57.datD File Pref ReRt 499.755859375 V 7813

Select Matching zone on localhost:14.0

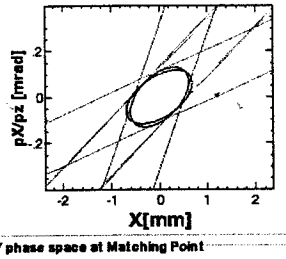
File Edit Window

Wire Scan | Optics Calculate | Matching

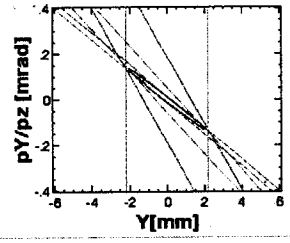
X phase space at Wire A



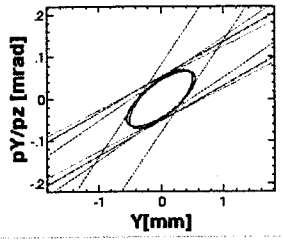
X phase space at Matching Point



Y phase space at Wire A



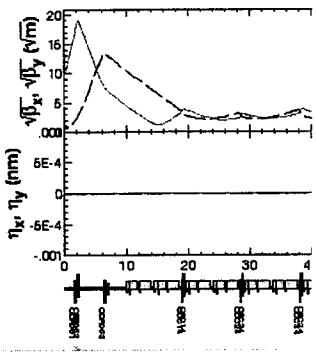
Y phase space at Matching Point



Results of Measurement

β_x @QDC24 [m] :	5.418	β_y @QDC24 [m	
α_x @QDC24 :	-.588	α_y @QDC24	
ε_x [m] :	6.7223E-8	ε_y [m] :	
$\gamma\varepsilon_x$ [π.mm.mrad] :	268.342	$\gamma\varepsilon_y$ [π.mm.mrad	
Bmag x :	1.039	Bmag y :	
εBmag x :	6.9831E-8	εBmag y :	
γεBmag x :	278.753	γεBmag y :	

Optics Plot



Wire Selection

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

◆ 4-wire:ABCD

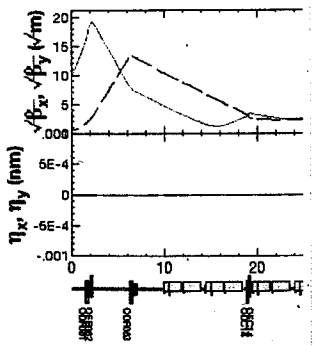
NonLinearFit Err(meas), no n: 0 En

"Calculate Optics" Save All Par

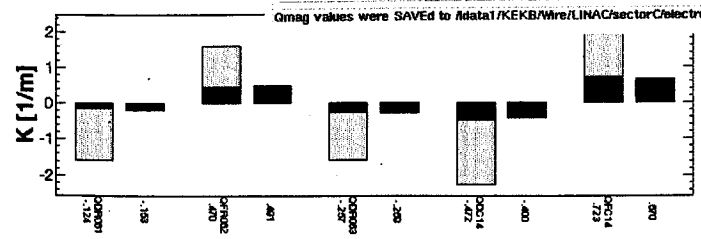
File Edit Window

Wire Scan | Optics Calculate | Matching

Matching R



Strength of Free Qmag (QX*)



Qmag values were SAVEd to /data1/KEKB/Wire/LINAC/sector/electron/data/Qvalue/qname_2008_5_27_11_0_23.dat0

Reset Calculation

Q-mag Set

Q-mag Read&Write

Read Q-Mag from File

Save Q-Mag to File

values were SET and saved to file and sad.

147

5t79-

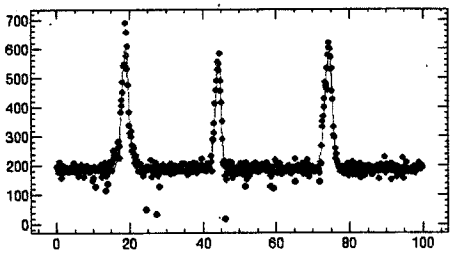
pfa1

File Edit Control Window 05/27/2008 11:14:32 Help

Wire A

ChiSquare = 173710. Goodness = .49232

sigma1 = .92918 +/- .01714	sigma2 = .78325 +/- .01720	sigma3 = 1.01210 +/- .01835
asymm1 = -.10868 +/- .03772	asymm2 = -.27146 +/- .04426	asymm3 = -.20268 +/- .03686
xwire1 = 18.8360 +/- .04292	xwire2 = 44.3262 +/- .04233	xwire3 = 74.4715 +/- .04525
b1 = 415.584 +/- 6.54813	b2 = 376.384 +/- 7.10702	b3 = 407.484 +/- 6.28079
a1 = 191.644 +/- 1.47323	a2 = -.05724 +/- .02502	

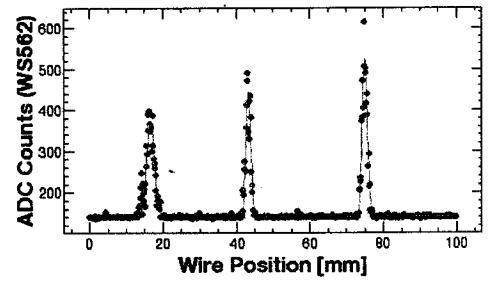


File: /PF/data/Raw/WS2008_5_27_11 File Pref ReRt 499.755859375 V 1901

Wire C

ChiSquare = 113116. Goodness = .49239

sigma1 = 1.07391 +/- .02711	sigma2 = .66647 +/- .01567	sigma3 = .70600 +/- .01279
asymm1 = -.02419 +/- .05155	asymm2 = .06532 +/- .04869	asymm3 = .00271 +/- .03749
xwire1 = 16.4951 +/- .06793	xwire2 = 43.0579 +/- .03991	xwire3 = 74.9233 +/- .03250
b1 = 226.996 +/- 4.86947	b2 = 303.292 +/- 8.14756	b3 = 384.907 +/- 5.97396
a1 = 141.973 +/- 1.17969	a2 = -.01153 +/- .01998	

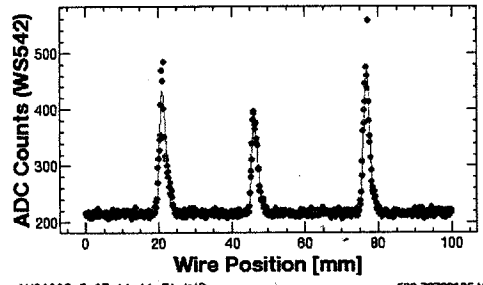


File: WS2008_5_27_11_12_35.datC File Pref ReRt 879.5703125 V 1657

Wire B

ChiSquare = 46433.9 Goodness = .49239

sigma1 = .85798 +/- .01603	sigma2 = .80682 +/- .01950	sigma3 = .81085 +/- .01325
asymm1 = .21862 +/- .03766	asymm2 = .31178 +/- .04785	asymm3 = .08020 +/- .03375
xwire1 = 20.8948 +/- .03958	xwire2 = 45.3920 +/- .04726	xwire3 = 78.7703 +/- .03351
b1 = 217.588 +/- 3.46352	b2 = 171.370 +/- 3.58167	b3 = 255.497 +/- 3.58055
a1 = 215.849 +/- .73602	a2 = .00570 +/- .01262	

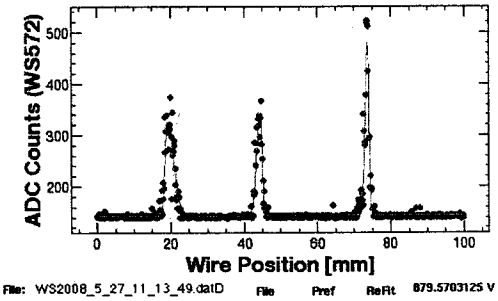


File: WS2008_5_27_11_11_51.datB File Pref ReRt 599.70703125 V 1726

Wire D

ChiSquare = 111153. Goodness = .49239

sigma1 = 1.21162 +/- .03482	sigma2 = .77739 +/- .02505	sigma3 = .53440 +/- .01244
asymm1 = .40929 +/- .05377	asymm2 = -.33327 +/- .06320	asymm3 = -.23799 +/- .04707
xwire1 = 19.0786 +/- .07960	xwire2 = 44.3952 +/- .08017	xwire3 = 73.6863 +/- .03061
b1 = 185.887 +/- 4.55075	b2 = 203.466 +/- 5.64518	b3 = 339.550 +/- 6.80817
a1 = 140.943 +/- 1.16668	a2 = .02300 +/- .01961	

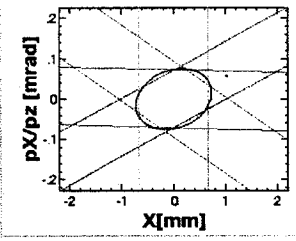


File: WS2008_5_27_11_13_49.datD File Pref ReRt 879.5703125 V 1605

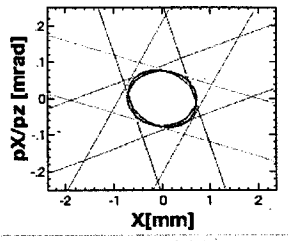
File Edit Window 05/27/2008 11:14:52 Help

Wire Scan | Optics Calculate | Matching

X phase space at Wire A



X phase space at Matching Point

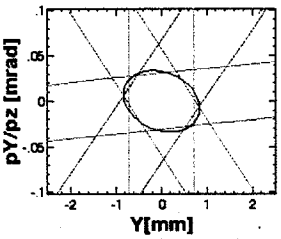


Results of Measurement

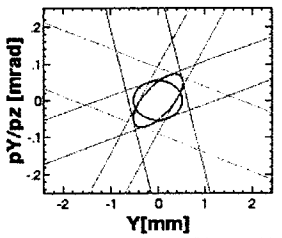
β_x @AC574+1 [m] :	9.030	β_y @AC574+1 [m] :	9.945
α_x @AC574+1 :	.199	α_y @AC574+1 :	-.936
ε_x [m] :	5.3750E-8	ε_y [m] :	2.7522E-8
$\gamma\varepsilon_x$ [π.mm.mrad] :	262.967	$\gamma\varepsilon_y$ [π.mm.mrad] :	134.649
Bmag x :	1.021	Bmag y :	1.428
εBmag x :	5.4887E-8	εBmag y :	3.9296E-8
γεBmag x :	268.528	γεBmag y :	192.251

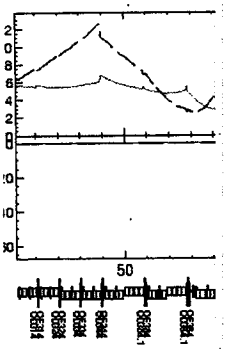
Optics Plot

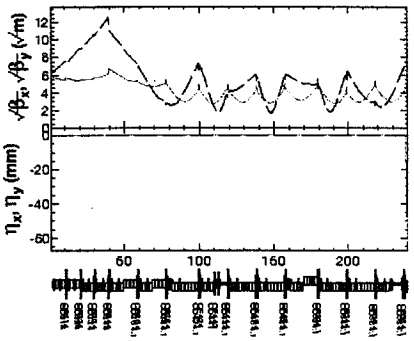
Y phase space at Wire A



Y phase space at Matching Point







Wire Selection

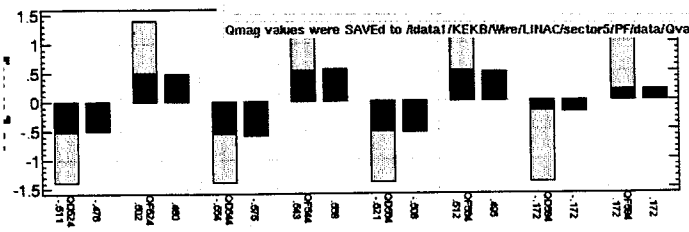
3-wire:ABC 3-wire:ABD 3-wire:ACD 3-wire:BCD

4-wire:ABCD

NonLinearFit Err(meas), nσ n: 0 Err(opt) (%): 0

"Calculate Optics" Save All Parameters

ength of Free Qmag (QX*)



Qmag values were SAVEd to /data1/KEKB/Wire/LINAC/sector5/PF/data/Qvalue/lqname_2008_5_27_11_10_12.dat0

Reset Calculation

Q-mag Set

Q-mag Read&Write

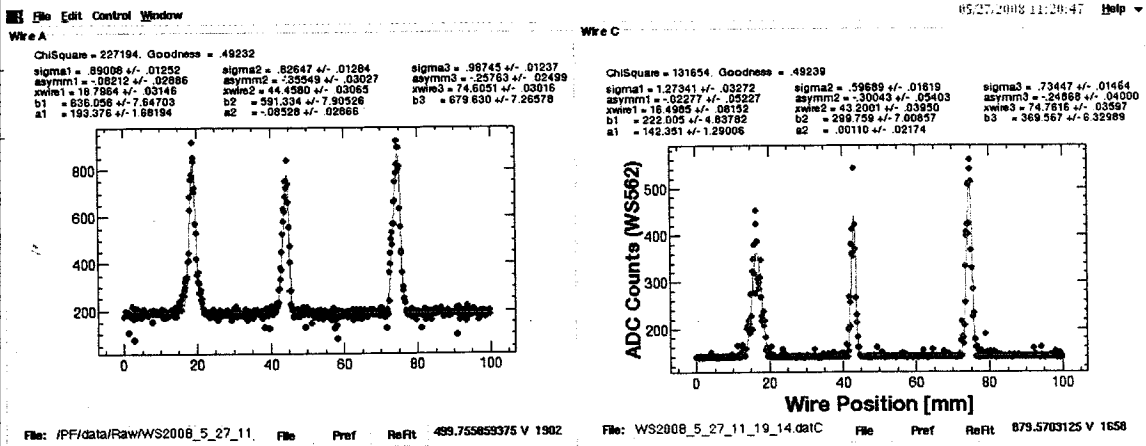
Read Q-Mag from File

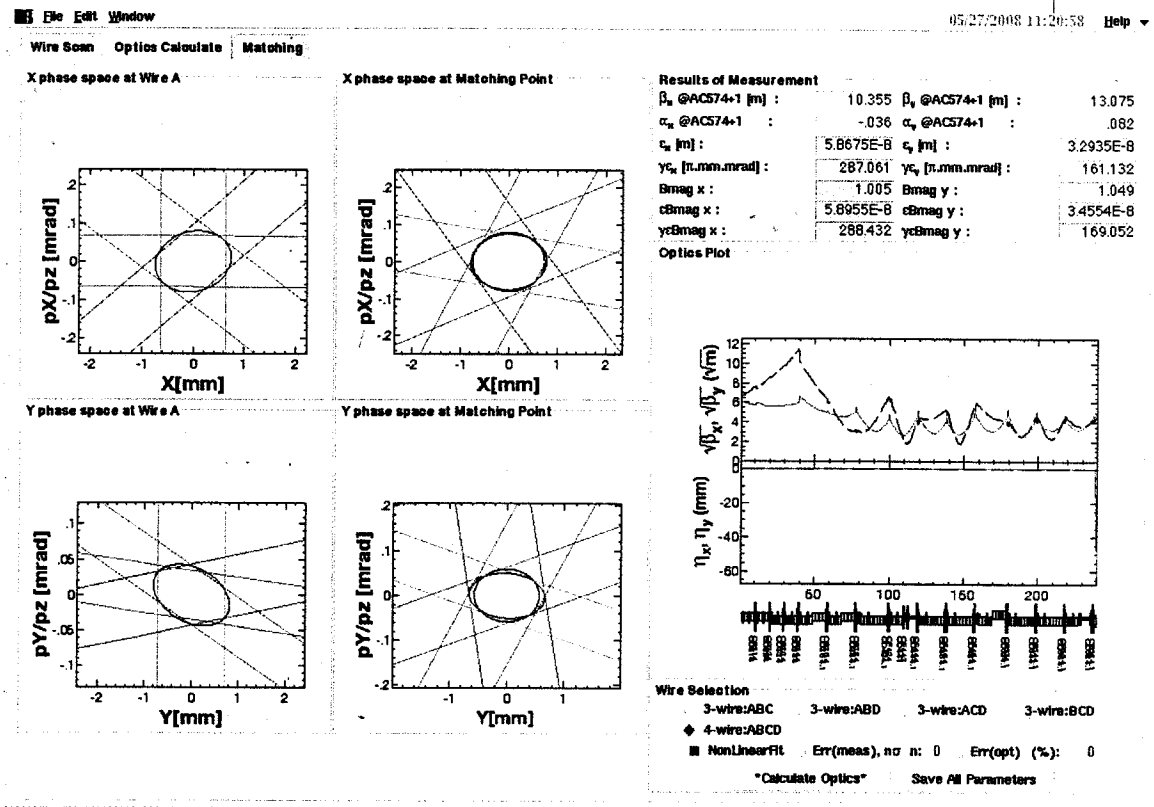
Save Q-Mag to File

← set

Ed to /data1/KEKB/Wire/LINAC/sector5/PF/data/Qvalue/lqname_2008_5_27_11_10_12.dat0

再測定





2D527 set
-0.47602
-0.47591
RB

QF524
0.47975
0.47909

2D544
-0.57512
-0.57517

QD544
0.55761
0.55771

2D564
-0.50826
-0.50825

QF564
0.49491
0.49494

judge factorを入れた後、set値と読み取りが10⁻⁴の精度で一致した。→ OK!

21:00の時入射で 1mA/s であった。

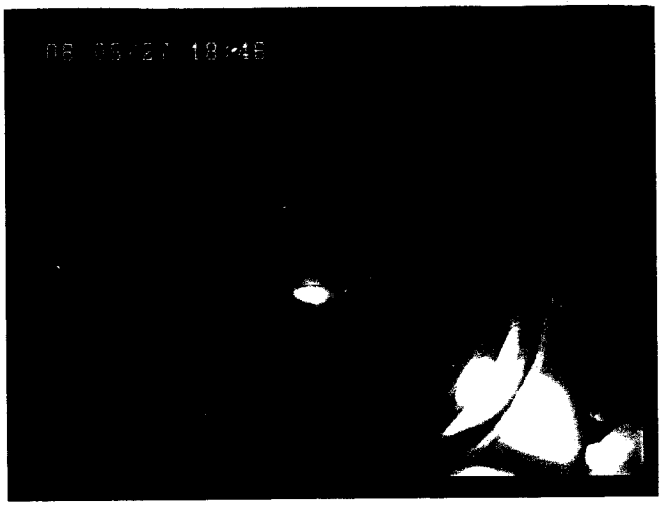
149

'08.5.29 18:40

PF-KEKB 同時入射 Study

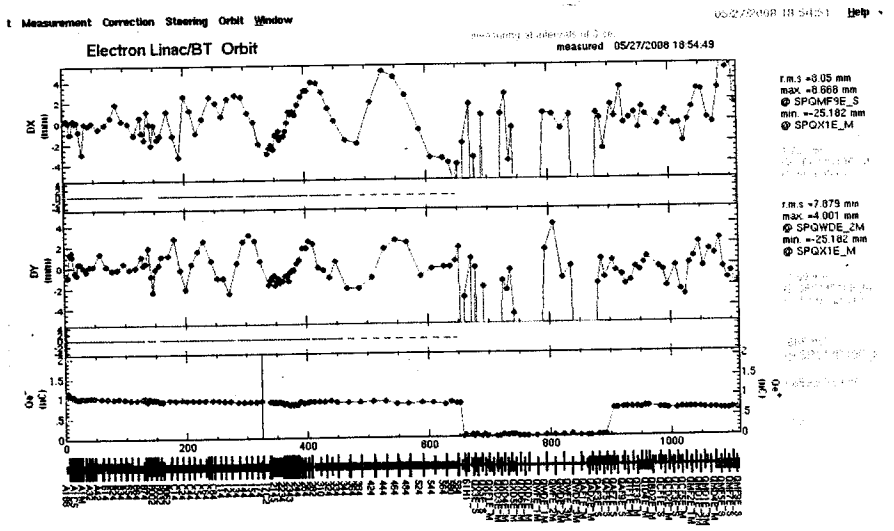
菊池・飯田

- 2.5 GeV PF a1 で 11:20 頃のビームを確認.
  PF-BT のスクリーンでは beam profile は問題なさそう.
- PF-a1 なのに. スクリーン 58-4 で. ダークカレントがみえる



ダーク・カレント

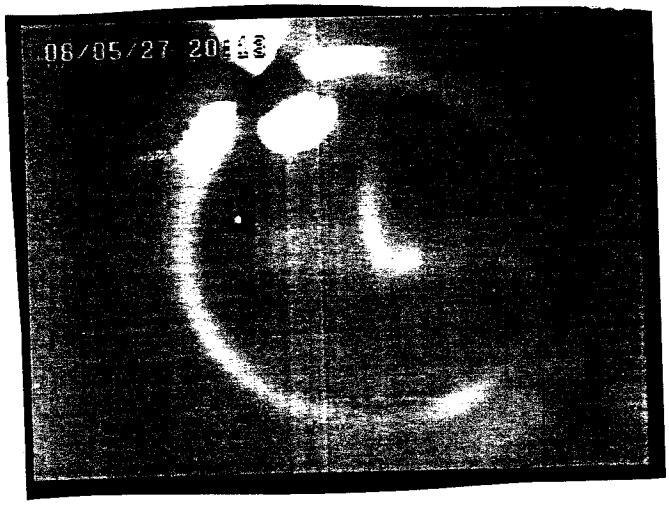
- 8 GeV に切りかえた. (KEKB e⁻ のパラメーターに. PF a1 の電磁石の電流値を set した.)



→ 軌道は. あまり乱れない.

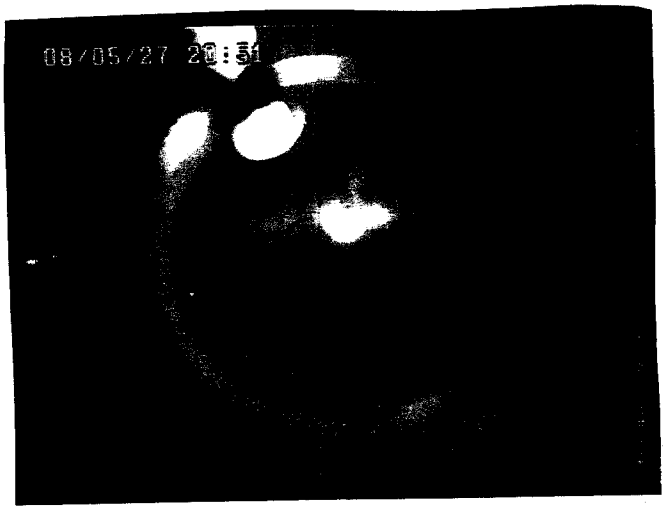
BT e^- dump mode

軌道を平らにしたが. profilが 良くない

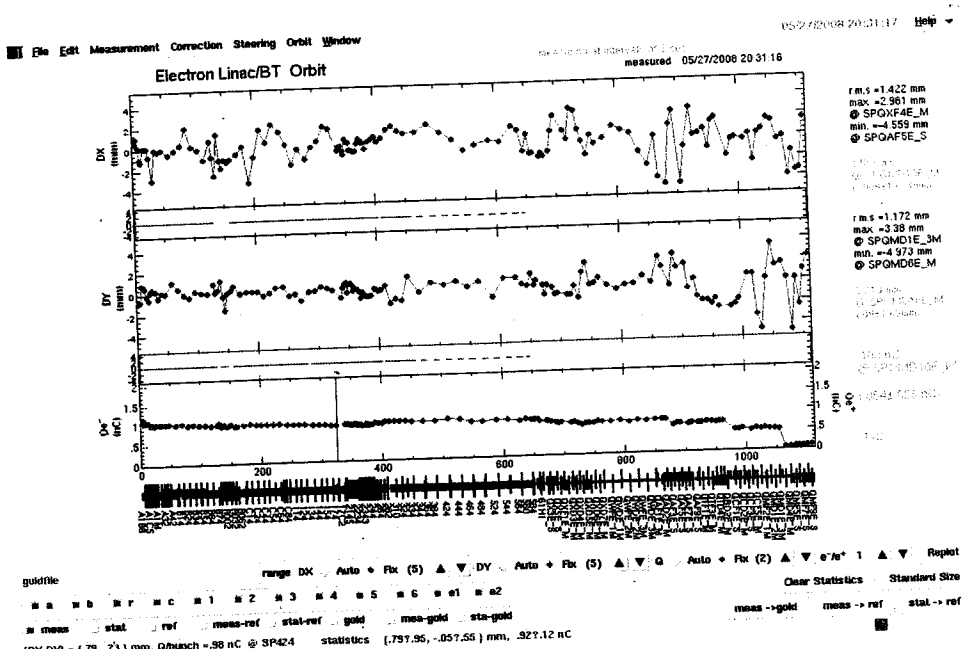


← MSE-4.
丸い形ではない。

20:18. C,1 セクターから軌道補正する。



← MSE-4
形が丸くなった.



C,1 セクターは
吉田 自由軌道
補正
2セクター以降は
工藤氏の手で
補正

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BTe matching

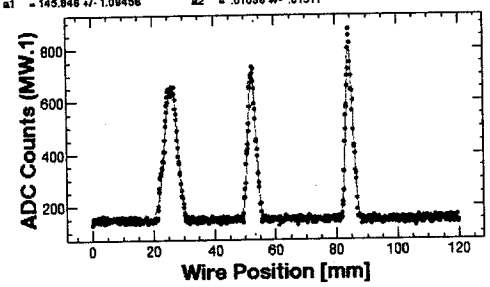
File Edit Control Window

05/27/2008 20:37:12 Help

Wire A

ChiSquare = 132461. Goodness = .49307

sigma1 = 2.03363 +/- .01623 sigma2 = 1.27514 +/- .01167 sigma3 = 1.14212 +/- .00937
asymm1 = -.09031 +/- .01606 asymm2 = -.01123 +/- .01897 asymm3 = .11908 +/- .01668
xwire1 = 25.9542 +/- .04004 xwire2 = 52.3763 +/- .02963 xwire3 = 84.1713 +/- .02361
b1 = 520.105 +/- 3.50498 b2 = 556.675 +/- 4.39011 b3 = 659.119 +/- 4.64083
a1 = 145.846 +/- 1.09456 a2 = .01036 +/- .01511

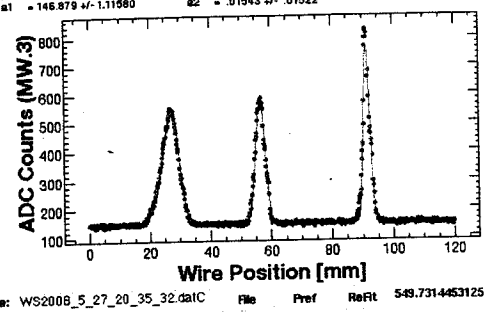


File: WS2008_5_27_20_33_49.datA File Pref ReFit 499.755859375 V 1205

Wire C

ChiSquare = 127167. Goodness = .49307

sigma1 = 2.78486 +/- .02523 sigma2 = 1.59133 +/- .01681 sigma3 = 1.07949 +/- .00956
asymm1 = -.17078 +/- .01776 asymm2 = -.02786 +/- .02182 asymm3 = .16991 +/- .01802
xwire1 = 27.3105 +/- .06054 xwire2 = 56.5039 +/- .04253 xwire3 = 91.1567 +/- .02382
b1 = 390.241 +/- 2.94963 b2 = 425.902 +/- 3.85485 b3 = 617.160 +/- 4.66095
a1 = 146.879 +/- 1.11580 a2 = .01543 +/- .01522

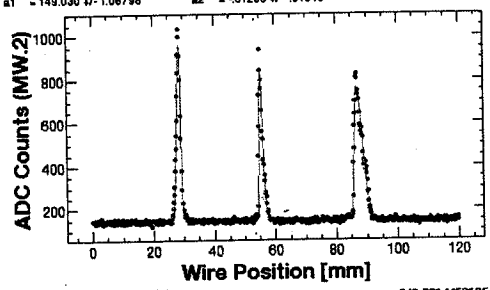


File: WS2008_5_27_20_35_32.datC File Pref ReFit 549.7314453125 V 3112

Wire B

ChiSquare = 147620. Goodness = .49307

sigma1 = .87800 +/- .00810 sigma2 = .83337 +/- .00895 sigma3 = 1.33456 +/- .01150
asymm1 = -.25087 +/- .01812 asymm2 = .48990 +/- .01990 asymm3 = .60340 +/- .01412
xwire1 = 28.4791 +/- .01504 xwire2 = 54.8621 +/- .01542 xwire3 = 88.3697 +/- .02308
b1 = 820.763 +/- 6.35017 b2 = 892.980 +/- 8.56823 b3 = 616.381 +/- 4.53743
a1 = 149.030 +/- 1.06798 a2 = .01208 +/- .01545

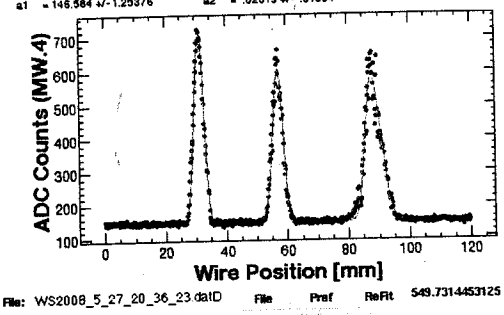


File: WS2008_5_27_20_34_42.datB File Pref ReFit 549.7314453125 V 3498

Wire D

ChiSquare = 186684. Goodness = .49307

sigma1 = 1.59878 +/- .01549 sigma2 = 1.68868 +/- .01947 sigma3 = 2.54869 +/- .02584
asymm1 = -.03271 +/- .01986 asymm2 = -.05825 +/- .02378 asymm3 = .24904 +/- .01978
xwire1 = 31.1365 +/- .03888 xwire2 = 57.0030 +/- .04918 xwire3 = 87.4535 +/- .06173
b1 = 565.788 +/- 4.87244 b2 = 459.101 +/- 4.53509 b3 = 435.983 +/- 3.71878
a1 = 146.584 +/- 1.25376 a2 = .02019 +/- .01804



File: WS2008_5_27_20_36_23.datD File Pref ReFit 549.7314453125 V 2961

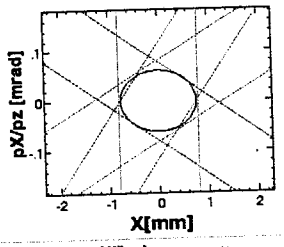
Select Matching zone on localhost:16.0

05/27/2008 20:37:03 Help

File Edit Window

Wire Scan Optics Calculate Matching

X phase space at Wire A

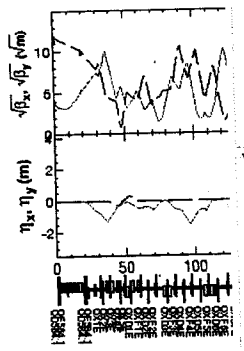


X phase space at Matching Point

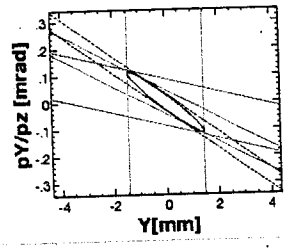
Results of Measurement

β_x @MW.1 [m] :	12.593	β_y @MW.1 [m] :	50.003
α_x @MW.1 :	.009	α_y @MW.1 :	3.779
ε_x [m] :	4.6712E-8	ε_y [m] :	4.2481E-8
$\gamma\varepsilon_x$ [π.mm.mrad] :	743.228	$\gamma\varepsilon_y$ [π.mm.mrad] :	675.905
Bmag x :	1.264	Bmag y :	1.657
εBmag x :	5.9029E-8	εBmag y :	7.0379E-8
γεBmag x :	939.202	γεBmag y :	1119.783

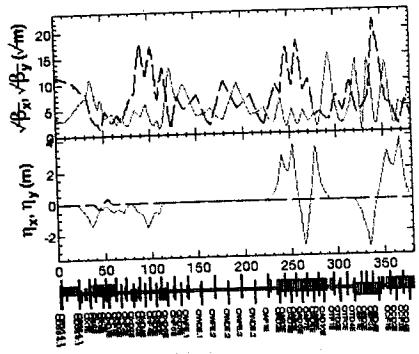
Optics Plot



Y phase space at Wire A



Y phase space at Matching Point

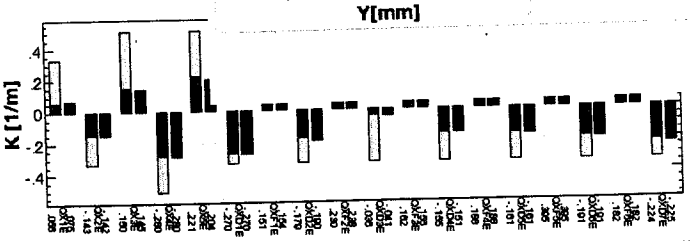


Wire Selection

3-wire:ABC 3-wire:ABD 3-wire:ACD 3-wire:BCD
4-wire:ABCD
NonLinearFit Err(meas), mc n: 0 Err(opt) (%): 0

"Calculate Optics" Save All Parameters

Strength of Free Qmag (QX')



Q-mag Read&Write
Read Q-Mag from File
Save Q-Mag to File

← set

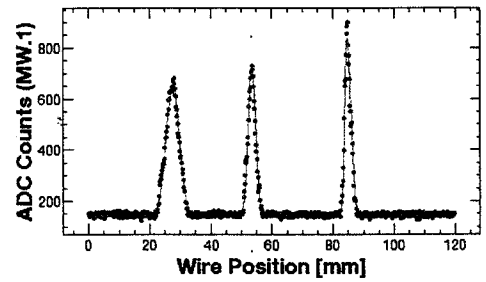
再測定

File Edit Control Window

Wire A

ChiSquare = 89466.6 Goodness = .49307

sigma1 = 2.11256 +/- .01449	sigma2 = 1.23372 +/- .00986	sigma3 = 1.00141 +/- .00716
asymm1 = -.06176 +/- .01386	asymm2 = -.00321 +/- .01661	asymm3 = .21999 +/- .01450
xwire1 = 27.6385 +/- .03586	xwire2 = 53.4611 +/- .02510	xwire3 = 84.5858 +/- .01776
b1 = 513.918 +/- 2.97945	b2 = 562.186 +/- 3.86671	b3 = 697.147 +/- 4.29256
a1 = 146.738 +/- .94417	a2 = -5.2E-4 +/- .01303	

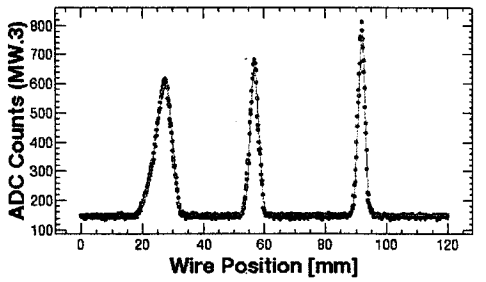


File: WS2008_5_27_20_39_36.datA File Pref ReFit 499.755859375 V 1206

Wire C

ChiSquare = 60029.5 Goodness = .49307

sigma1 = 2.67039 +/- .01475	sigma2 = 1.39295 +/- .00904	sigma3 = 1.11234 +/- .00661
asymm1 = -.27656 +/- .01058	asymm2 = -.03017 +/- .01344	asymm3 = -.12647 +/- .01217
xwire1 = 27.7586 +/- .03456	xwire2 = 58.7579 +/- .02293	xwire3 = 91.9862 +/- .01656
b1 = 448.211 +/- 2.06659	b2 = 507.731 +/- 2.82868	b3 = 623.045 +/- 3.16921
a1 = 147.308 +/- .76035	a2 = .00495 +/- .01043	

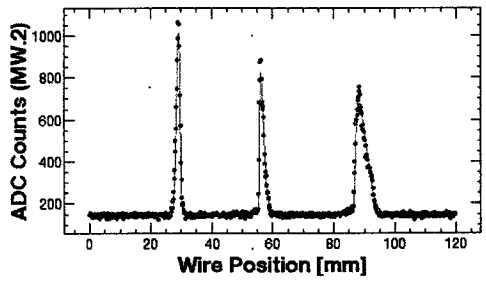


File: WS2008_5_27_20_41_28.datC File Pref ReFit 549.7314453125 V 3113

Wire B

ChiSquare = 118957. Goodness = .49307

sigma1 = .62256 +/- .00495	sigma2 = .71862 +/- .00677	sigma3 = 1.71793 +/- .01340
asymm1 = -.31151 +/- .01576	asymm2 = .66156 +/- .01520	asymm3 = .61511 +/- .01258
xwire1 = 29.2514 +/- .01204	xwire2 = 55.8491 +/- .01342	xwire3 = 87.7129 +/- .02648
b1 = 869.177 +/- 5.94391	b2 = 680.793 +/- 5.53074	b3 = 543.331 +/- 3.59683
a1 = 148.149 +/- .95731	a2 = .00168 +/- .01400	

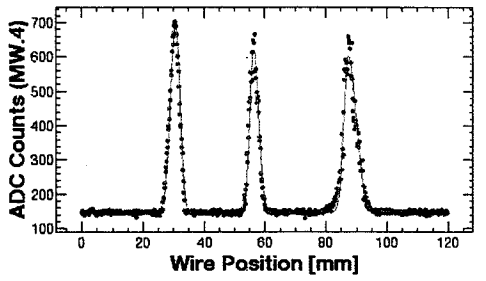


File: WS2008_5_27_20_40_31.datB File Pref ReFit 549.7314453125 V 3499

Wire D

ChiSquare = 171361. Goodness = .49307

sigma1 = 1.57371 +/- .01532	sigma2 = 1.45108 +/- .01674	sigma3 = 2.01927 +/- .02092
asymm1 = -.11270 +/- .01982	asymm2 = .06992 +/- .02364	asymm3 = .29864 +/- .02012
xwire1 = 30.5227 +/- .03821	xwire2 = 58.2973 +/- .04236	xwire3 = 87.1989 +/- .04976
b1 = 544.003 +/- 4.51143	b2 = 473.051 +/- 4.68271	b3 = 454.477 +/- 3.98963
a1 = 146.414 +/- 1.19881	a2 = .02433 +/- .01711	



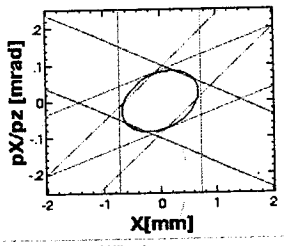
File: WS2008_5_27_20_42_18.datD File Pref ReFit 549.7314453125 V 2962

05/27/2008 20

File Edit Window

Wire Scan | Optics Calculate | Matching

X phase space at Wire A



X phase space at Matching Point

Results of Measurement

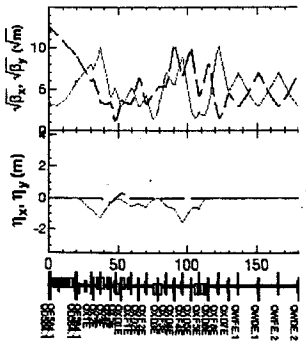
β_x @MW.1 [m] :		8.430	β_y @MW.1 [m] :
α_x @MW.1 :		-.327	α_y @MW.1 :
ε_x [m] :		5.3566E-8	ε_y [m] :
$\gamma\varepsilon_x$ [π.mm.mrad] :		852.279	$\gamma\varepsilon_y$ [π.mm.mrad] :
Bmag x :		1.025	Bmag y :
εBmag x :		5.4914E-8	εBmag y :
γεBmag x :		873.729	γεBmag y :

Optics Plot

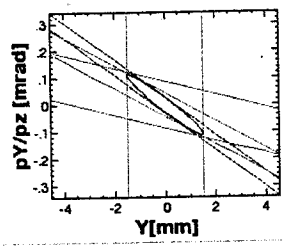
Window

Optics Calculate Matching

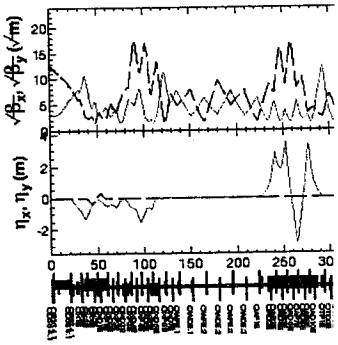
Matching Resi



Y phase space at Wire A



Y phase space at Matching Point



Wire Selection

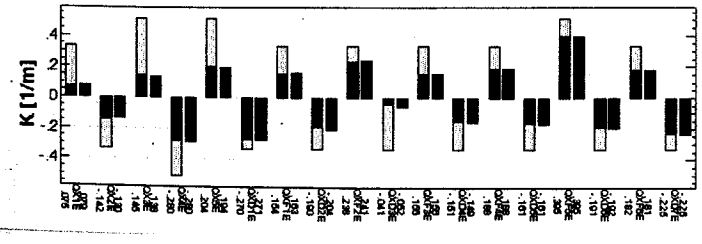
3-wire:ABC 3-wire:ABD 3-wire:ACD

◆ 4-wire:ABCD

NonLinearFit Err(meas), nc n: 0 Err(opt)

"Calculate Optics" Save All Paramet

Strength of Free Qmag (QX*)



Matching Calculation

Calc Matching

Recover Calculation

Reset Calculation

Q-mag Set

Q-mag Read&Write

Read Q-Mag from File

Save Q-Mag to File

←set