Multi energy linac
HER

2006/12/12

8 GeV

8GeV 2.5 GeV

2.5 GeV

8 GeV   2.5 GeV

4 mA/s   HER

File   Edit   Window

| Wire Scan | Optics Calculate | Matching |

X phase space at Wire A

pX/pz [mrad]

.4 .2 0 -.2 -.4

X[mm]   -5   0   5

X phase space at Matching Point

pX/pz [mrad]

1 .5 0 -.5 -1

X[mm]   -4 -2   0   2   4

Y phase space at Wire A

pY/pz [mrad]

.4 .2 0 -.2 -.4

Y[mm]   -3 -2 -1   0   1   2   3

Y phase space at Matching Point

pY/pz [mrad]

.4 .2 0 -.2 -.4

Y[mm]   -6 -4 -2   0   2   4   6

Results of Measurement

β_x @QDC24 [m] :	11.040	β_y @QDC24 [m] :	33.392
α_x @QDC24 :	.533	α_y @QDC24 :	-4.099
ε_x [m] :	4.3464E-8	ε_y [m] :	2.2961E-8
$\gamma\varepsilon_x$ [π.mm.mrad] :	173.408	$\gamma\varepsilon_y$ [π.mm.mrad] :	91.606
Bmag x :	1.833	Bmag y :	1.680
εBmag x :	9.5565E-8	εBmag y :	4.6271E-8
γεBmag x :	381.274	γεBmag y :	184.608

Optics Plot

$\sqrt{\beta_x}, \sqrt{\beta_y}$ (√m)

15 10 5 .000

η_x, η_y (nm)

5E-4 .000 -5E-4 -.001

0   10   20   30   40   50

QDR063 QDE14 QDE24 QDE34 QDE44 QDC54

Wire Selection

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

◆ 4-wire:ABCD

☐ Err(meas), nσ n: [0]   ☐ Err(opt) (%): [0]

| *Calculate Optics* | Save All Parameters |

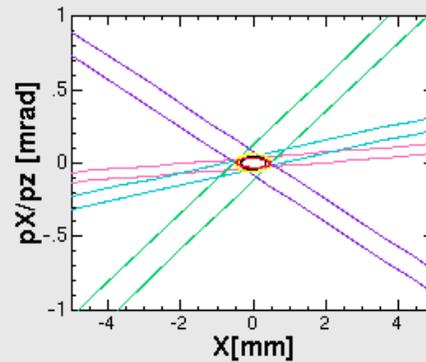Qmag values were SAVEd to /data1/KEKB/Wire/LINAC/sectorC/electron/data/Qvalue/lqname_2006_12_12_20_48_45.dat0

Wire Scan | Optics Calculate | Matching

X phase space at Wire A

X[mm]

pX/pz [mrad]

X phase space at Matching Point

X[mm]

pX/pz [mrad]
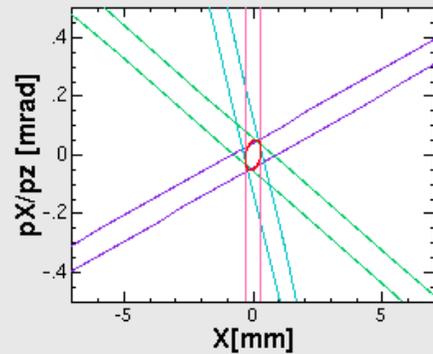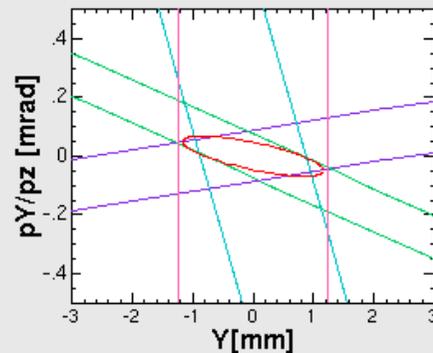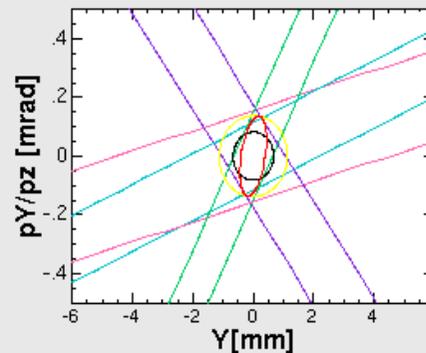
Results of Measurement

β_x @AK574.2+1 [m] :	15.400	β_y @AK574.2+1 [m] :	3.532
α_x @AK574.2+1 :	.175	α_y @AK574.2+1 :	-.443
ϵ_x [m] :	1.5141E-8	ϵ_y [m] :	5.5107E-8
$\gamma\epsilon_x$ [π.mm.mrad] :	74.075	$\gamma\epsilon_y$ [π.mm.mrad] :	269.605
Bmag x :	1.258	Bmag y :	1.593
ϵBmag x :	1.4992E-8	ϵBmag y :	6.9127E-8
$\gamma\epsilon$Bmag x :	73.347	$\gamma\epsilon$Bmag y :	338.194

Optics Plot

$\sqrt{\beta_x}$, $\sqrt{\beta_y}$ ($\sqrt{m}$)

η_x, η_y (mm)

Y phase space at Wire A

Y[mm]

pY/pz [mrad]

Y phase space at Matching Point

Y[mm]

pY/pz [mrad]

Wire Selection

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

◆ 4-wire:ABCD

☐ Err(meas), nσ n: [0] ☐ Err(opt) (%): [0]

[*Calculate Optics*] [Save All Parameters]