

109/3/2

- Bセグ- Matching 前  
(20090226-16:50 a file & 170)
- ~~20090302-09:52~~  
"20090302-10:08" 1=save
- Jセグ- Matching 後  
(20090227-17:30 頃 a file)
- Cセグ- Matching 前 後  
(20090227-~~12:00~~ 頃 a ~~file~~ file)  
12:10  
"20090302-11:08:24" 1=save

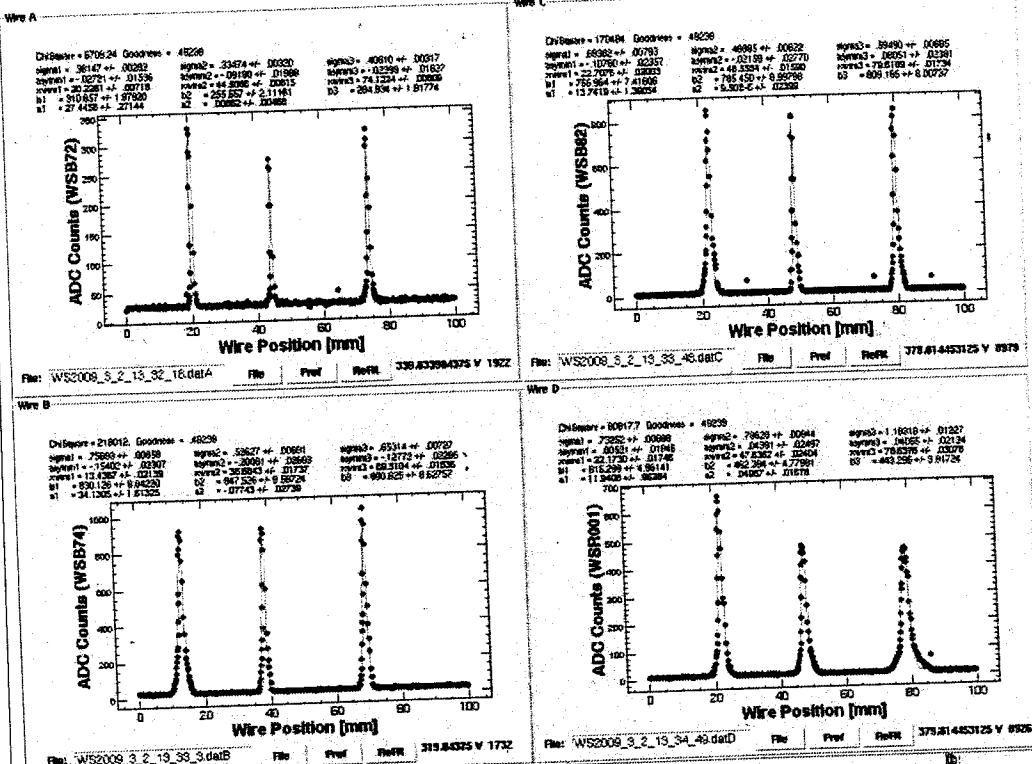
- ② { Bセグ- HER 2 Matching by 牛草  
Cセグ- HER 2 Matching

3.mode 2 軌道補正後 Q.St &amp; save

Q:	"20090302-15:50:58"	
St	" " -15:51:00"	1=save

- PT. HER 2 P.S. 2 軌道補正後 P.S. file & 12  
"20090302-160831" 1=save

# B079- EHER i Matching



Main Application Area

4/2/02 12:26:26

The EHR Window

Wire Scan    Optics Calculators    **Matching**

X phase space of Wire A

X phase space at Matching Point

Y phase space of Wire A

Y phase space at Matching Point

Results of Measurement

$R_x$ @ SCRD03 [mm]	35.452	$R_y$ @ SCRD03 [mm]	4.767
$C_x$ @ SCRD03	13.416	$C_y$ @ SCRD03	1.453
$C_x$ [mm]	1.9482E-8	$C_y$ [mm]	1.2460E-8
$\gamma_{C_x}$ [1/mm.mrad]	64.632	$\gamma_{C_y}$ [1/mm.mrad]	41.451
EDring x:	3.000	EDring y:	3.000
EDring x:	0.000	EDring y:	0.000
$\gamma$ EDring x:	0.000	$\gamma$ EDring y:	0.000

Optics Plot

Wire Selection

3-wire:ARC    3-wire:ABD    3-wire:ACD    3-wire:BCD

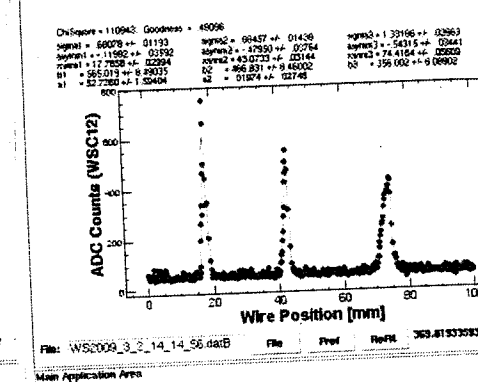
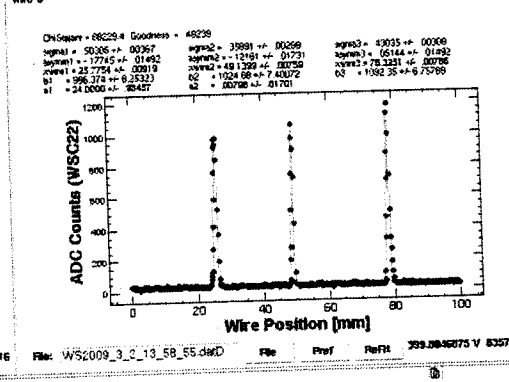
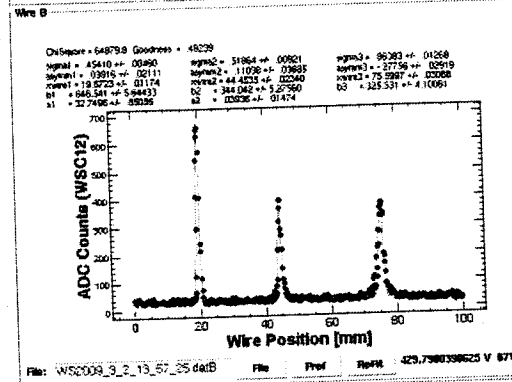
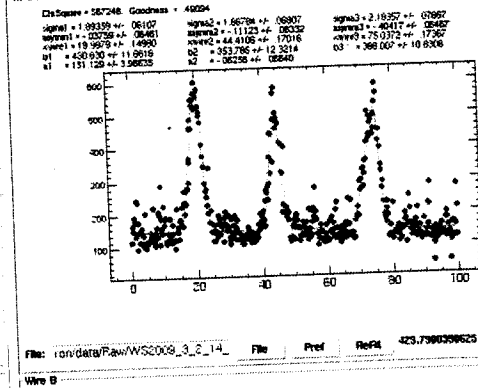
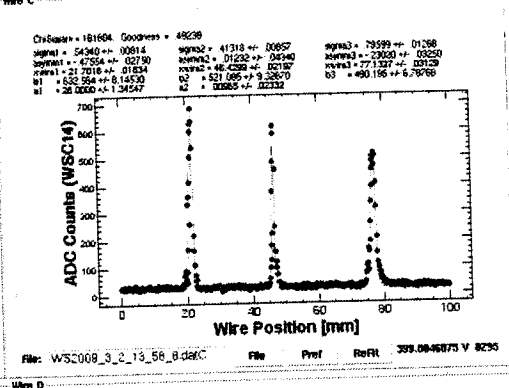
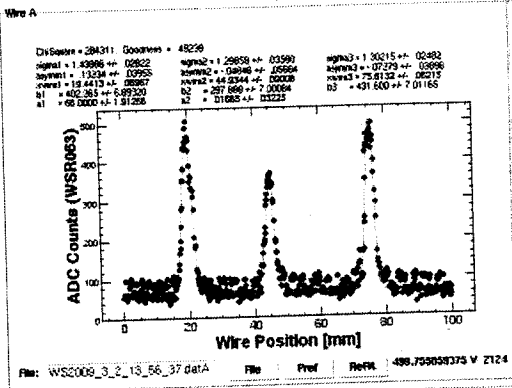
4-wire:ABCD

Fit: LinearFit    Err(mass), nG on    Err(opt) (%)

Calculate Optics    Show All Parameters

All information are SAVED to Match/PEER/Result/Match/Status/Data/Match/Result/WIRE\_2WD\_3\_2\_13\_35\_0

HER



Main Application Area

File Edit Window

Wire Scan    Optics Calculator    Matching

X phase space at Wire A    X phase space at Matching Point

Results of Measurement

$R_x @ QDC24$ [mm]	6.961	$R_y @ QDC24$ [mm]	12.091
$C_x @ QDC24$	-2.43	$C_y @ QDC24$	-1.062
$C_x$ [mm]	1.9804E-8	$C_y$ [mm]	1.9839E-8
$\gamma_{Cx}$ [1/mm.mrad]	78.637	$\gamma_{Cy}$ [1/mm.mrad]	78.778
Beam x:	1.000	Beam y:	1.000
EBmag x:	1.9804E-8	EBmag y:	1.9839E-8
$\gamma_{CBmag}$ x:	78.637	$\gamma_{CBmag}$ y:	78.778

Optics Plot

Wire Selection

3-wire:ABC    3-wire:ABD    3-wire:ACD    3-wire:BCD  
 4-wire:ABCD  
 NonLinearFit    Em(meas),MC        Em(opt) (%)   

Calculate Optics    Save All Parameters

All informations are SAVED to Mdata1/KEKB/Wire/LINAC/sector/elec/beamdata/MatchResult/WSLC\_2009\_3\_2\_13\_59\_39

Main Application Area

File Edit Window

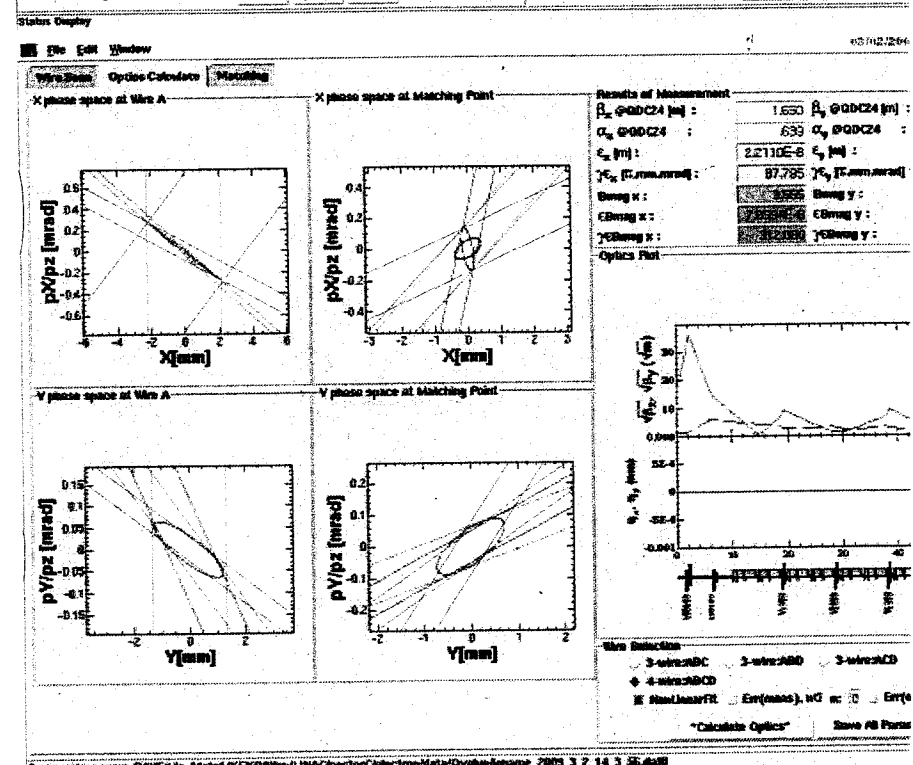
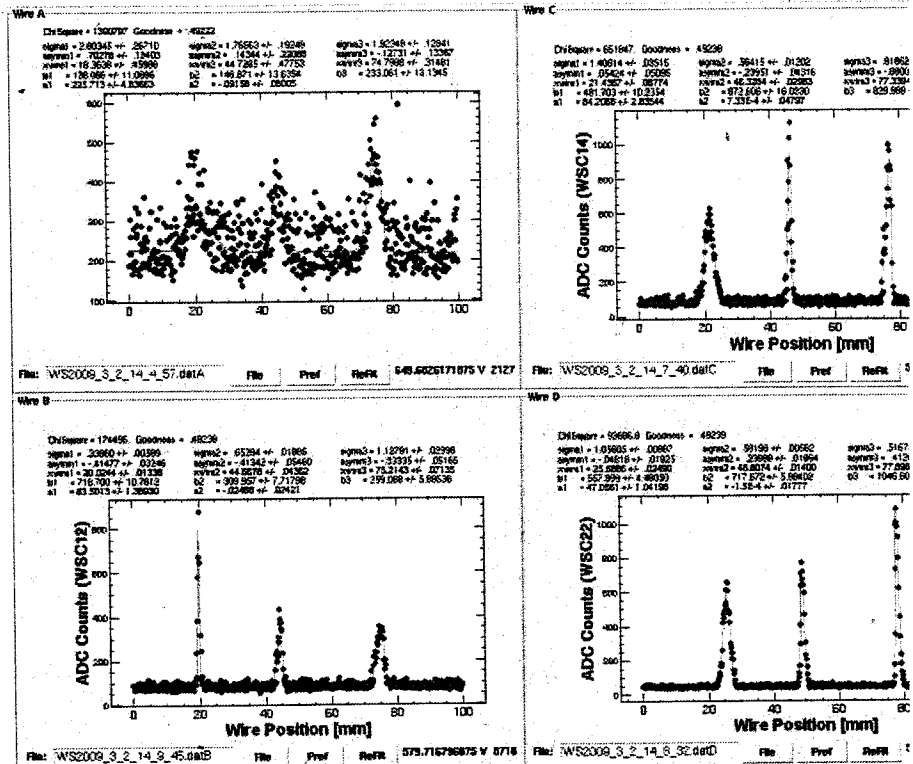
Wire Scan    Optics Calculator    Matching

X phase space at Wire A    X phase space at Matching Point

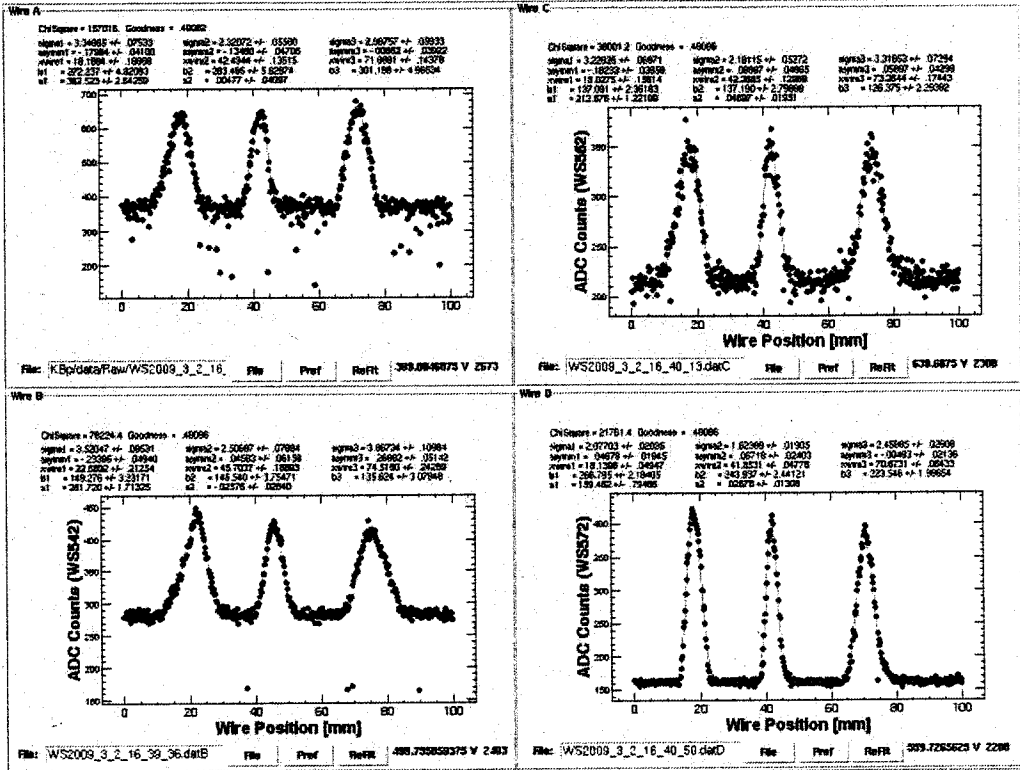
Y phase space at Wire A    Y phase space at Matching Point

All informations are SAVED to Mdata1/KEKB/Wire/LINAC/sector/elec/beamdata/MatchResult/WSLC\_2009\_3\_2\_13\_59\_39

PT-A1



# 5079- LER Matching 後



Main Application Area

File Edit Window 03/02/2009 16:15:51 Help

Wire Show 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

$\beta_x @ BM11P [m]$	19.802	$\beta_y @ BM11P [m]$	17.957
$\alpha_x @ BM11P$	1.704	$\alpha_y @ BM11P$	-153
$c_x [m]$	2.2202E-7	$c_y [m]$	2.1902E-7
$\gamma_x [1/m]$	1520.263	$\gamma_y [1/m]$	1499.493
Beam x :	3.025	Beam y :	3.070
CBeam x :	2.378E-7	CBeam y :	2.342E-7
YCBeam x :	1.654E-5	YCBeam y :	1.674E-5

Optics Plot

Wire Selection

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

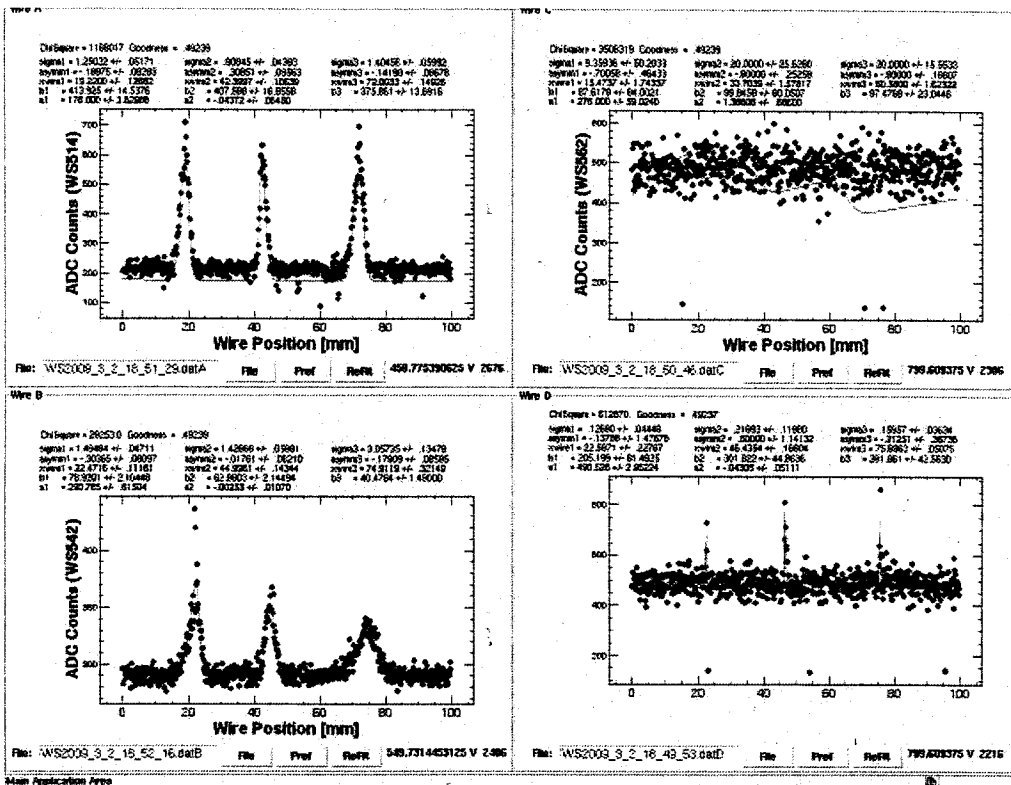
4-wire:ABCD

NonLinearFit  Err(mass), nG =  Err(opt) (%)

Calculate Optics Save All Parameters

All Informations are SAVED to K:\data1\KEKB\Area\JMACSector5\KEKB\data\MatchResult\WSSp\_2009\_3\_2\_16\_43\_25

2009/03/02 A shift 5-Sec e+ 25Hz 1st 鈴木



Bセクターを、LERでMatching後、CセクターをHERでMatching

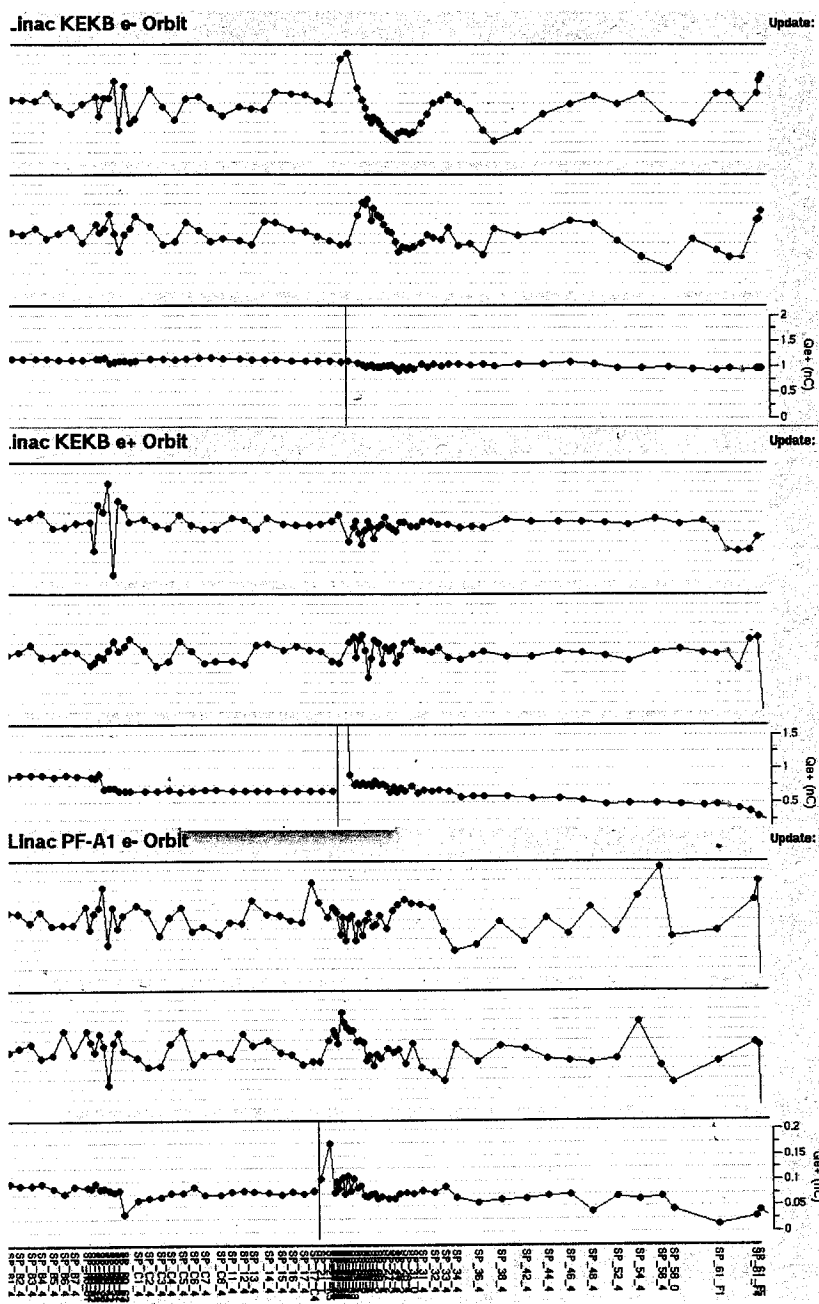
	LER		HER		PF	
	x	y	x	y	x	y
BMAG	1.000	1.010	1.000	1.000	3.208	1.024
$\gamma \epsilon$	57.72	70.82	112.4	461.2	163.4	1.28.8

Bセクターは、HER/LER共通Optics、CセクターをHERでMatching

	HER/LER		HER		PF	
	x	y	x	y	x	y
BMAG	1.000	1.000	2.571	1.000	4.524	1.000
$\gamma \epsilon$	44.793	62.645	85.971	109.925	315.322	144.034

Bセクターを、HERでMatching後、CセクターをHERでMatching

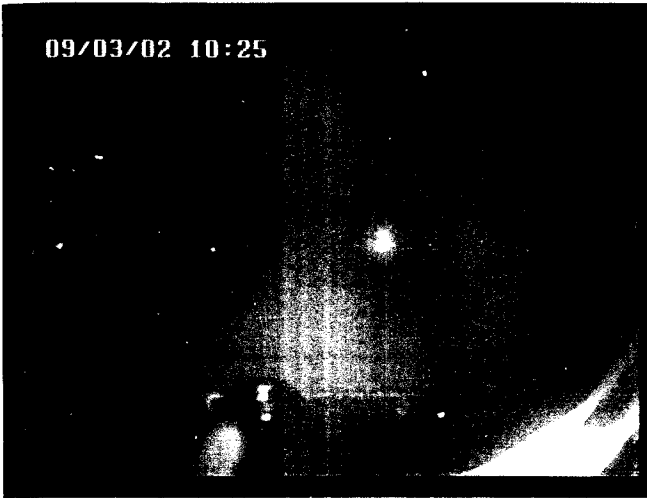
	HER		HER		PF	
	x	y	x	y	x	y
BMAG	1.000	1.000	1.022	1.286	3.555	1.000
$\gamma \epsilon$	78.637	78.778	273.713	284.209	87.895	172.746



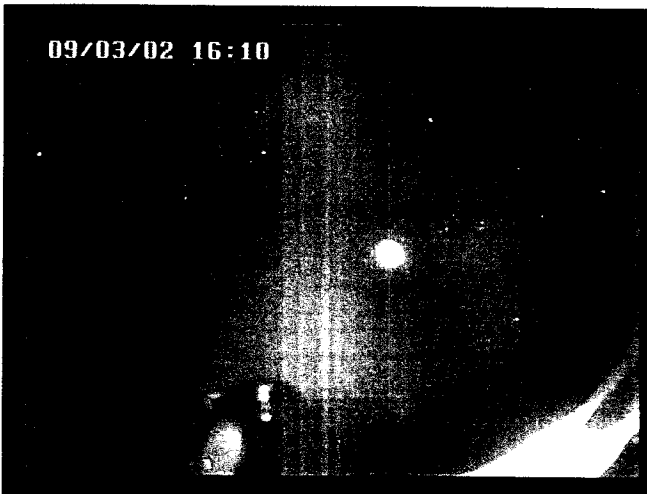
5セクターを、  
LERでMatching後

5セクターまで  
各ModeでBeamが  
通っている。  
SC57\_1でのPF像も  
十分小さい。

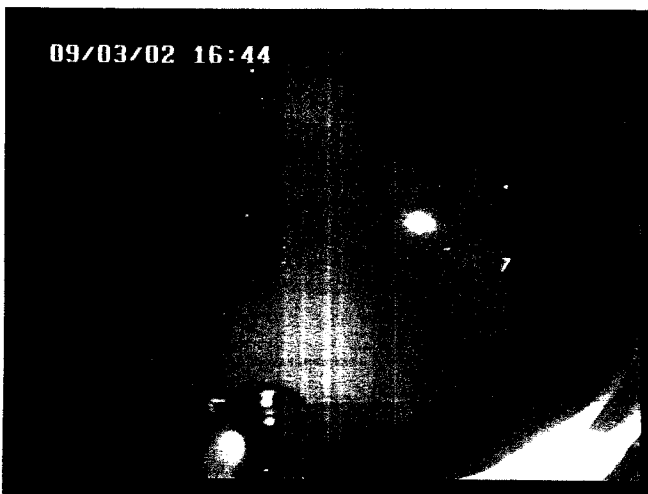
PFで5セクターの  
Wire scannerで  
測れないが、  
DC steeringで軌道を  
きれいにして測って  
みたい。



Matching ~~前~~ PF 57-2



B.Ce79-~~i~~ HTR Matching ~~後~~ PF 57-2



5e79- e+~~r~~ Matching ~~後~~ PF 57-2

↑  
Spot ~~前~~ #2263



5e79-  
~~←~~ e~~r~~ Matching ~~後~~ PF 57-2



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109/3/3

BT/dump mode

小川. 菊池. 飯田. 豊富

① PF-A1, HER, LER の Energy 確認.

② BT/BPM

• PF

(1) ECS  $\Sigma$  2.5 GeV  $\left[ -366.30 \text{ A} \right]$   
 BM6L15  $\Sigma$  -110.11 A  $\wedge$ .

(2) 584  $\Sigma$  SC上の線力  $\rightarrow$  U3  $\rightarrow$  2u  $\rightarrow$  2u  $\rightarrow$  2u  $\rightarrow$  2u

QD/F 564, 584  $\Sigma$  -9A  $\rightarrow$  FITR  
 (4台)

(3) SC61H  $\Sigma$  4  $\Sigma$ 

(SB-4.5  $\Sigma$  (-15 $\circ$ ) 286.5 $\circ$   $\rightarrow$  271.5 $\circ$ ) =  
 Energy  $\Sigma$  2.61 GeV  $\rightarrow$  2.70 GeV  
 (+110 MeV)