$\phi_{SB1} + \phi_{17} = 125.4°$

$\phi_{21} = 288.1°$

$\phi_{SB1} + \phi_{18} = 117.0° \rightarrow \phi_{18} = 117° - 115° = 2°$

$\phi_{SB2} + \phi_{22} =$ 100° 34.6° 134.6°

$\phi_{22} = 12.5°$

$\phi_{SB2} = 122.1°$

$\phi_{SB2} =$

3 =

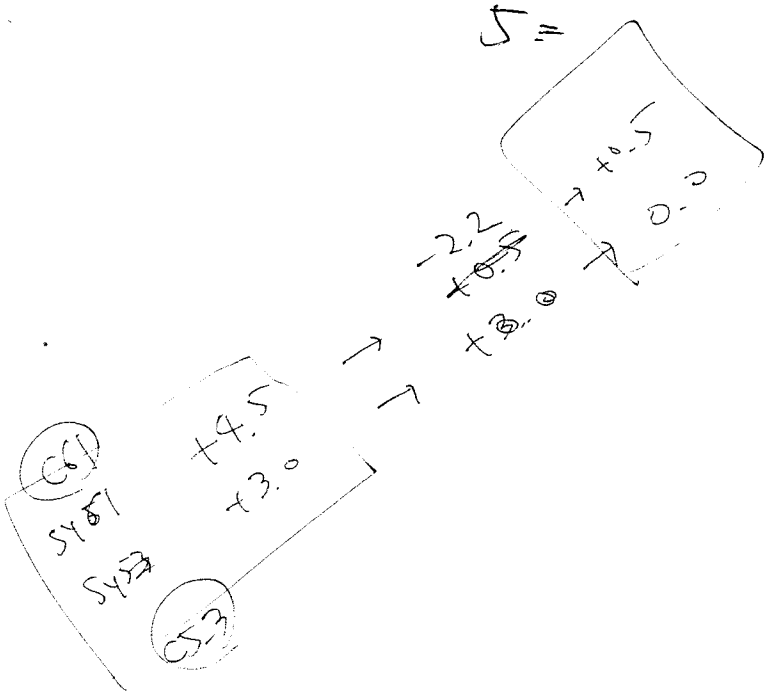
4 =

5 =

$\phi_{SB3} =$ "

$\phi_{SB4} =$ "

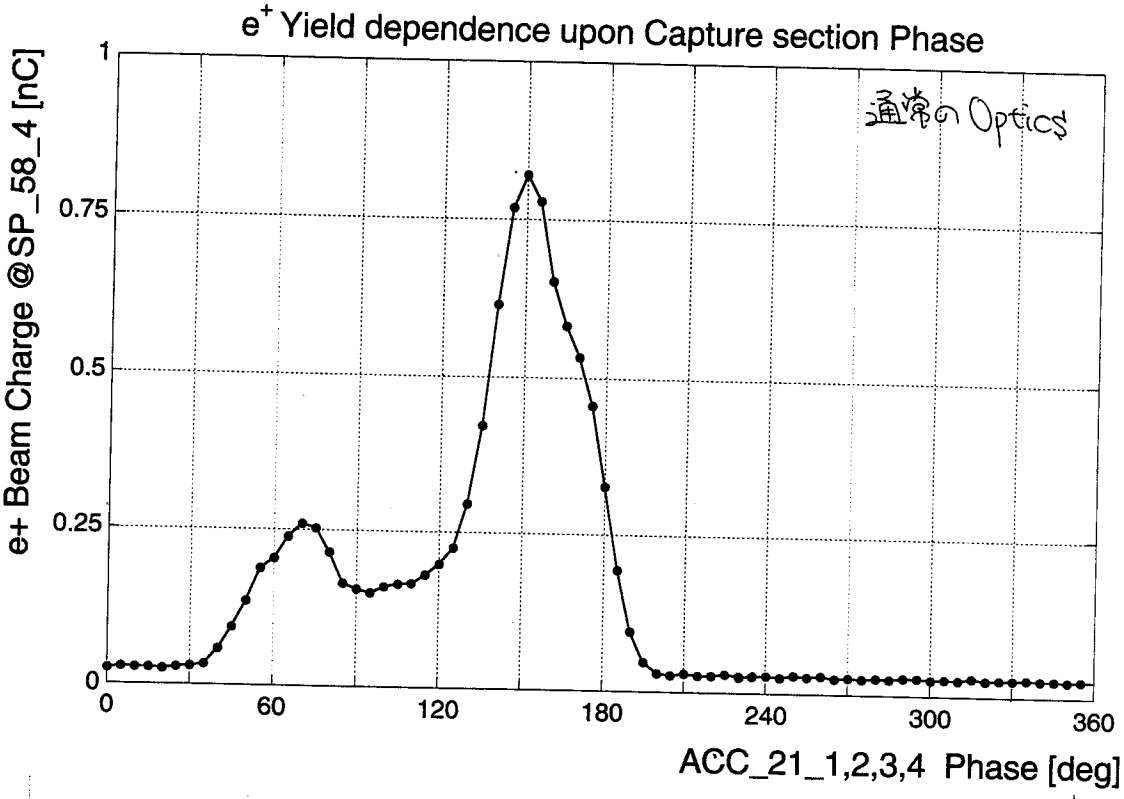
$\phi_{SB5} =$ "



2001.07.09 減速位相 e^+ study

① 現在の Optics で data taking

21:56. ② 減速位相用 Optics で 〃



φKLY 18 = 71.5

chicane

BM_21

SX_21_1 0.758 SY_21_1 −0.260
2 0.065

Sidewid.

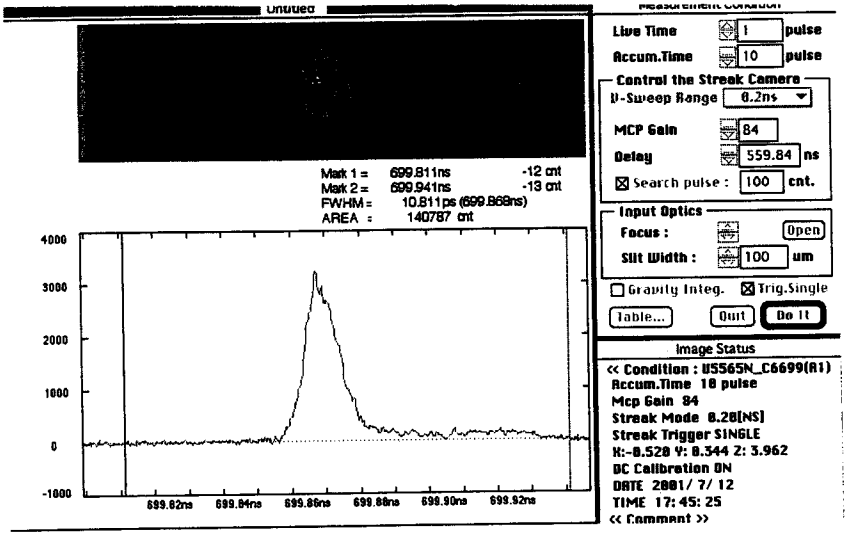
QM_21_15

01.07.12(木) 2バンチスタディー

7:14

① サテライトバンチが居るような気がするのでストリーク確認

A2の Es を変えたら. J-arcの通過率が悪い。
A2の Es. φを戻しても やはり Energy Spread fun。
ストリーク



③ φA2 = 2 = 225°

Es=34 → 30 kV
φA2=225 → 267

E=1.63GeV → 1.72GeV

下に広がっている。

② Gun パルス電圧 1 φ5Aφ ~~0.35~~ 0.41 kV
〃 2 φ999 0.41 kV → φ95φ 0.43 kV

③ Gun delay 1 φ82B 0.76 nsec
〃 2 φCEF 1.76 nsec

delay FB止める こと!!

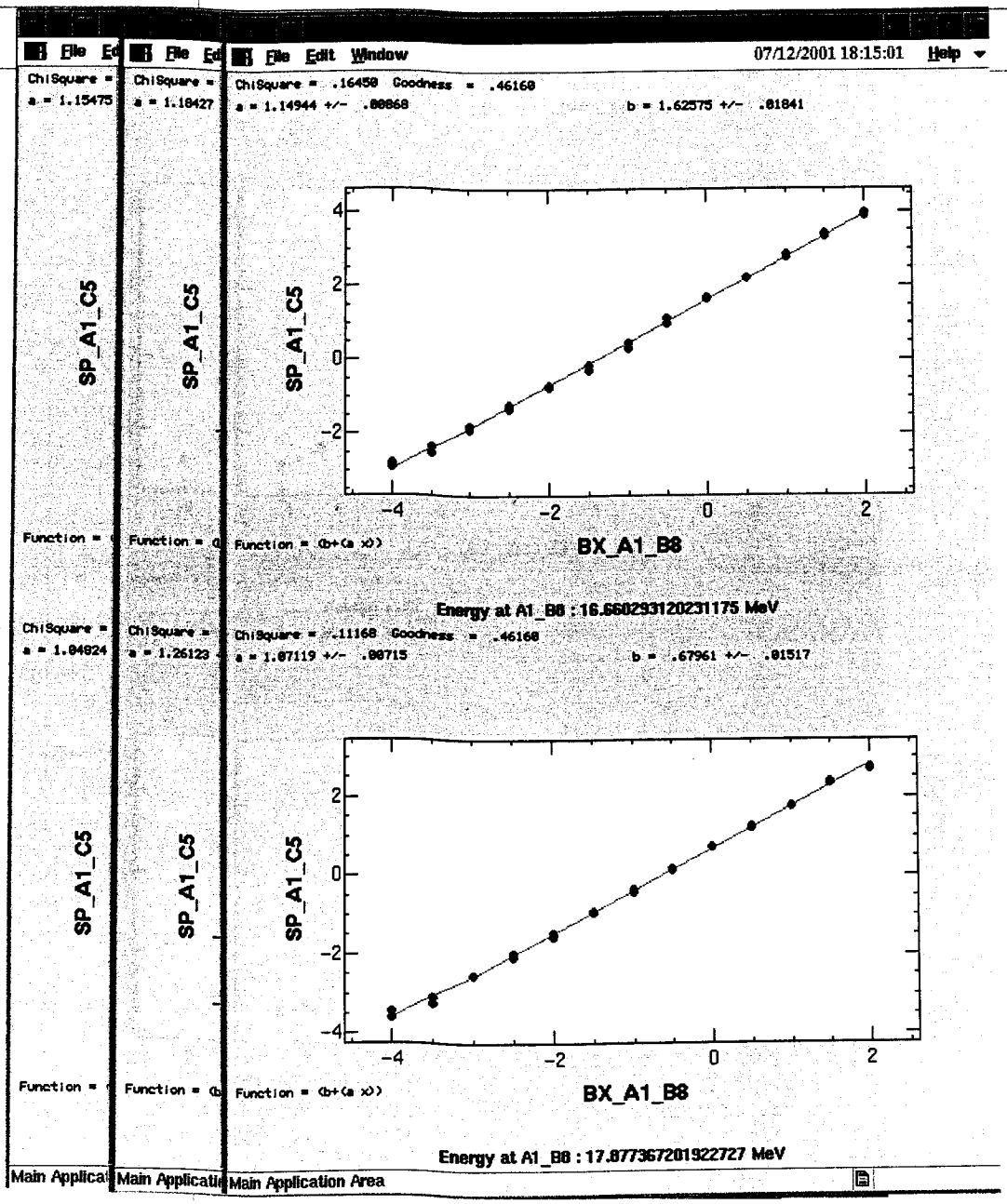
Energy 測定 (Gun delay 2 により) 1st B & 2nd B の Buncher 出口のエネルギーを一致させる

		1st B	2nd B
φCEF	1.76 ns	16.58	18.27
φCEφ	1.74 ns	16.66	17.88
φCDφ	1.72 ns	16.33	17.61
φCBφ	1.68 ns	16.59	16.54 ← ここにセットする!
φC9φ	1.64 ns	16.17	15.18

軌道FB止める こと!!

18:28

KEKB 入射のため中断.


File Edit Window
07/12/2001 18:15:01
Help
ChiSquare = .16450 Goodness = .46160
a = 1.14944 +/- .00868
b = 1.62575 +/- .01841
SP_A1_C5
BX_A1_B8
Function = (b+(a x))
Energy at A1_B8 : 16.660293120231175 MeV
ChiSquare = .11168 Goodness = .46168
a = 1.07119 +/- .00715
b = .67961 +/- .01517
SP_A1_C5
BX_A1_B8
Function = (b+(a x))
Energy at A1_B8 : 17.877367201922727 MeV
Main Application Area

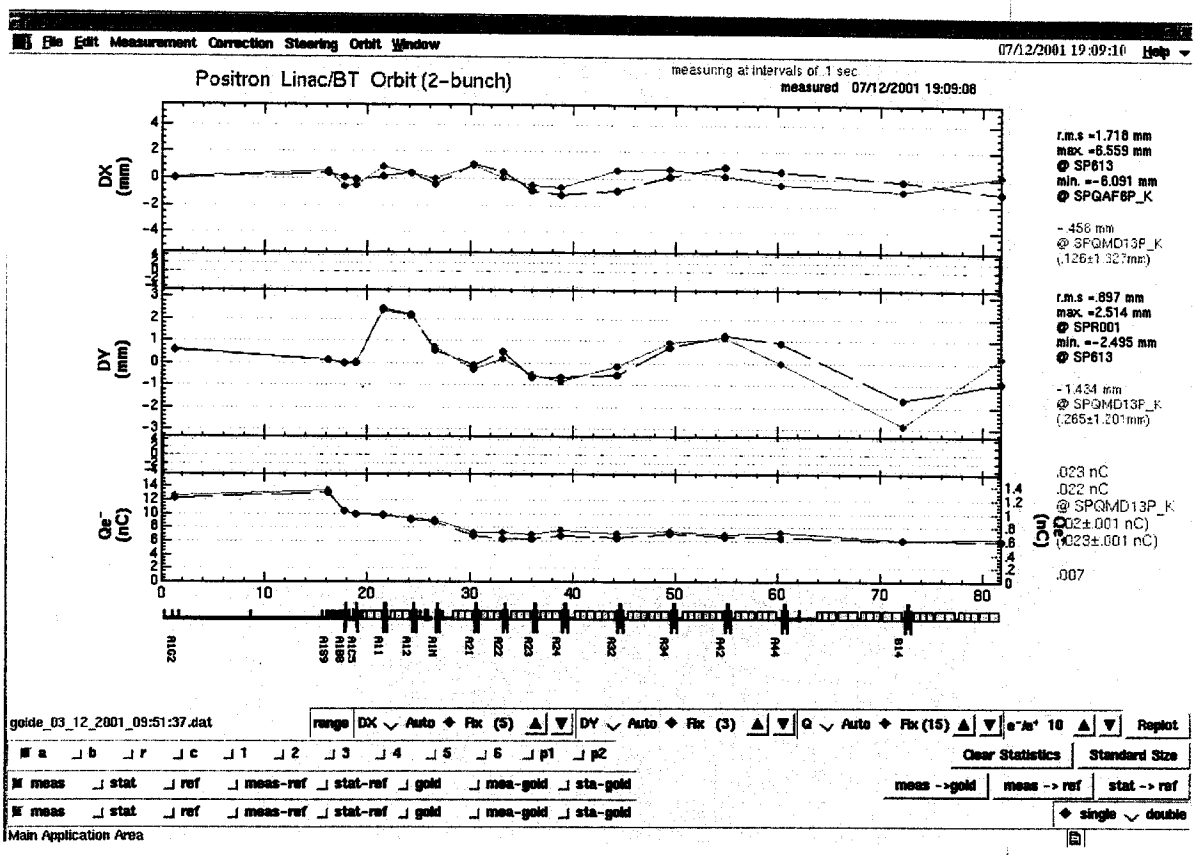
④ A1-RF timing 変更

delay	width
4.53	0.34
4.59	
(4.61)	
4.65	

β tron振動を測定

⑤ SCED A,B timing.

今日の状態をSave
data35_delay



⑤ A1→A2 ∩ optics manual matching

QF_A1_2 = 4.427 → 4.208A

⑥ SCED timing.

△SB_A	+53 ns	→	+70ns?
△SB_B	+53 ns	→	+70ns?

QF A1 2
4.427

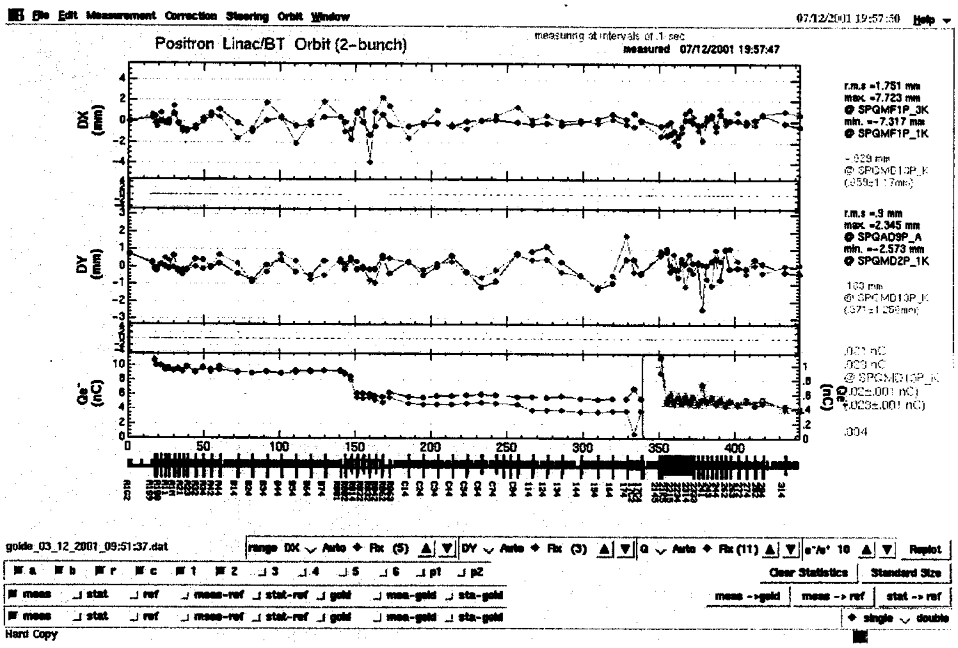
⑦ A.B-sector 軌道

⑧ SB_A.B phase. δφ SB-A +10.0°
〃 B +10.0°

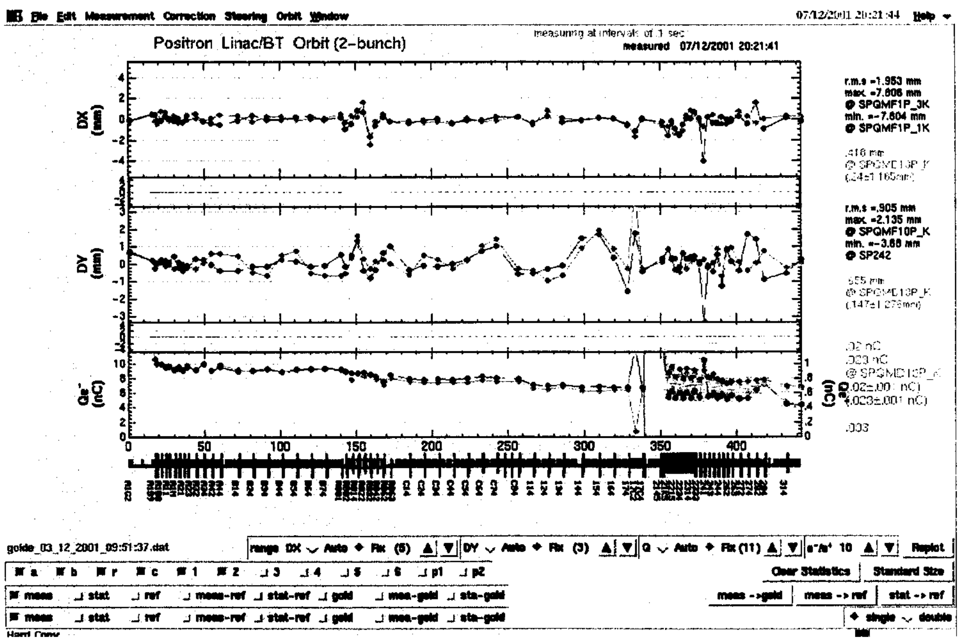
⑨ J-arc Optics manual matching

QD_R0_01 9.333A → そのまま.
QF_R0_02 20.645A →

⑩ J-arc Wire Scanner matching



Matching前.

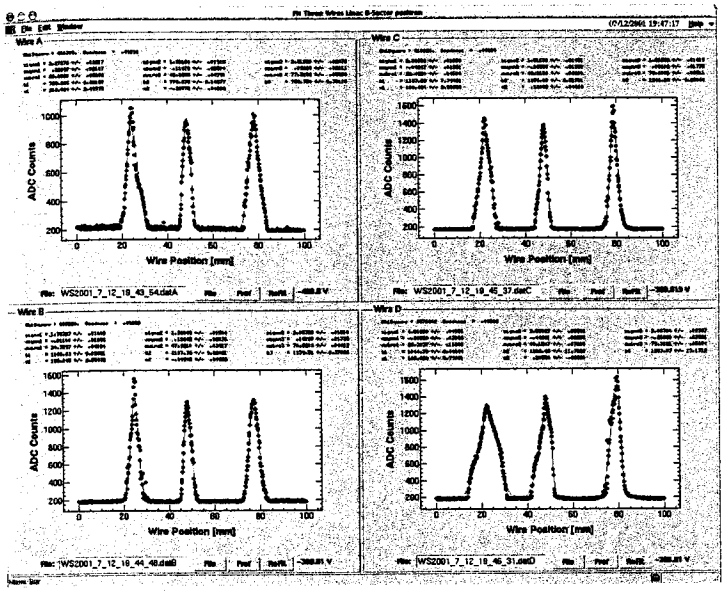


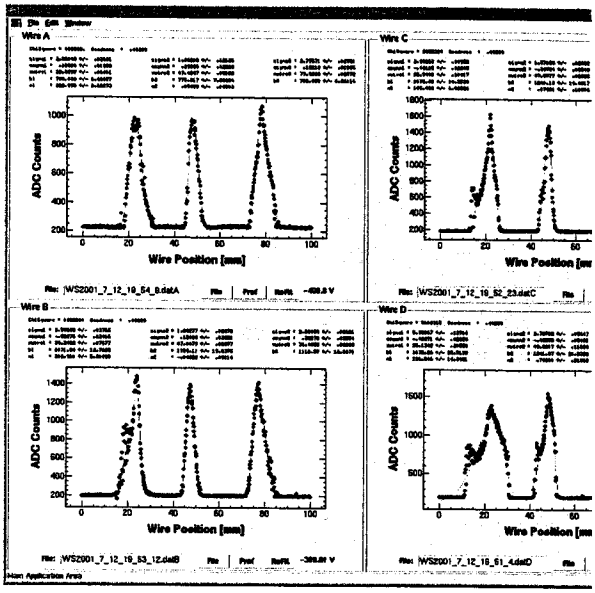
Matching後

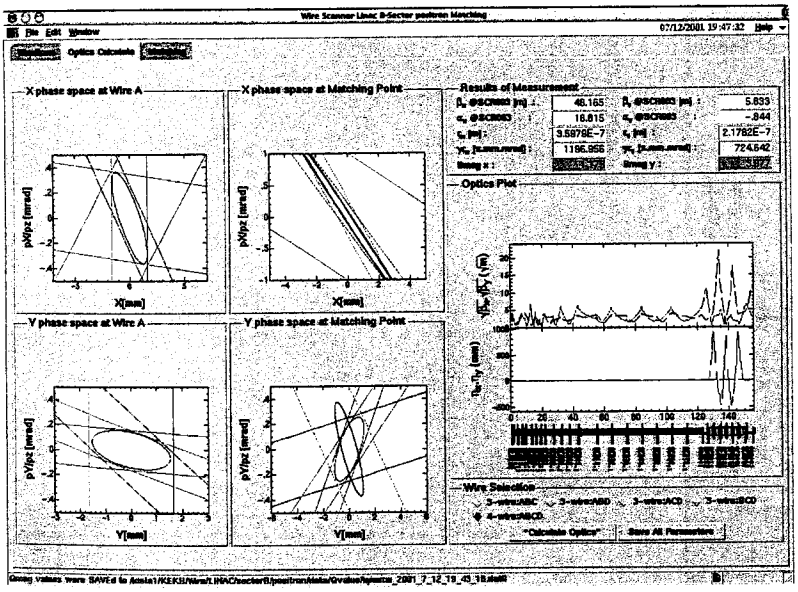
J-arc 透過率 改善

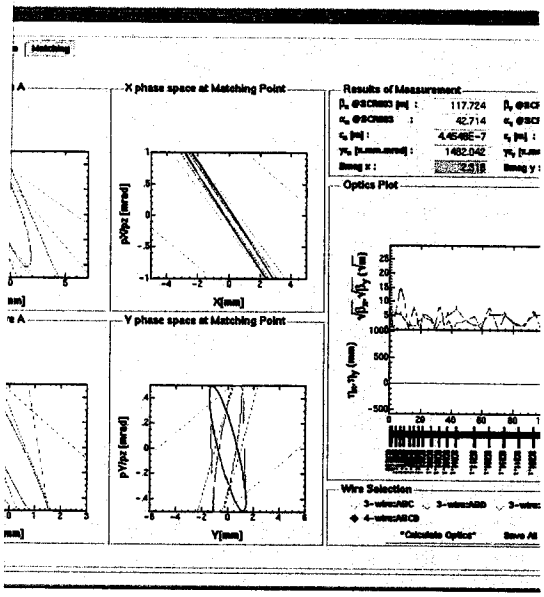
1st Bunch

2nd Bunch



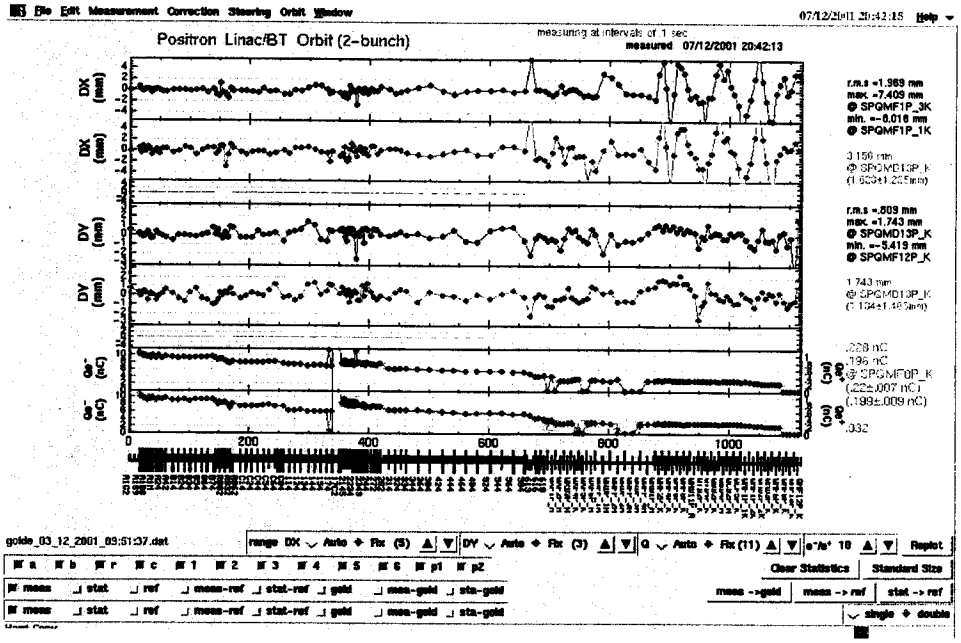


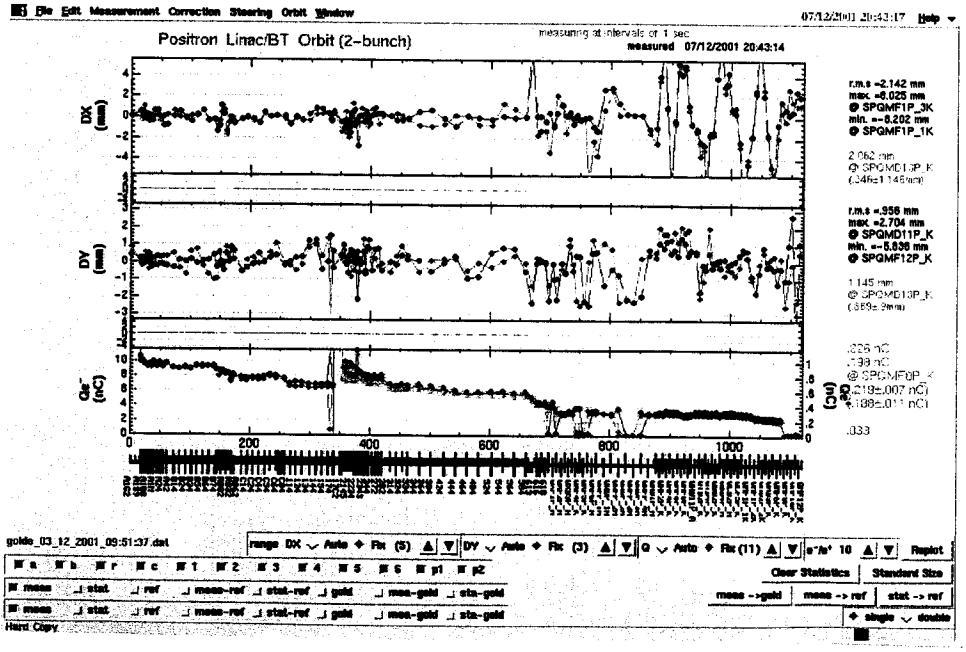




⑪ SLED timing C, 1, 2~5

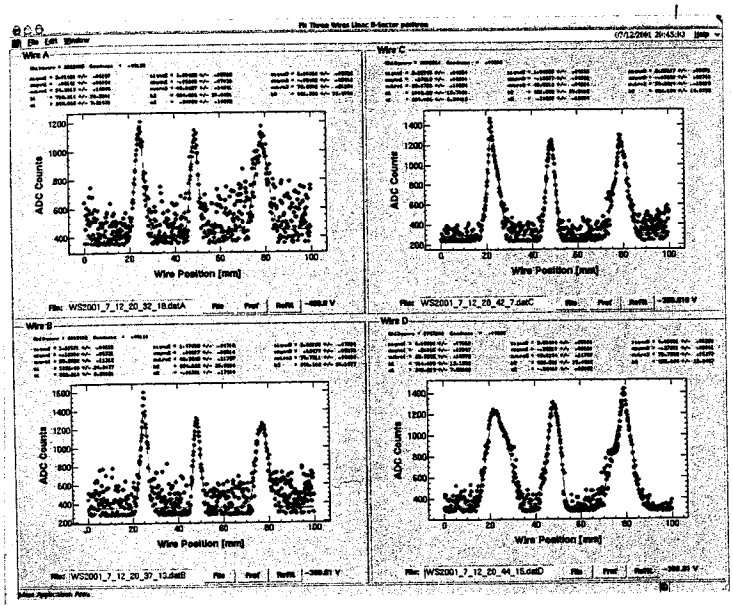
timing	C	+44ns		
〃	1	+44ns		
timing	2	+18	-18	+9
〃	3	+18	〃	〃
〃	4	+18	〃	〃
〃	5	+18	〃	〃
		(分布状態)	(分布)	OK!



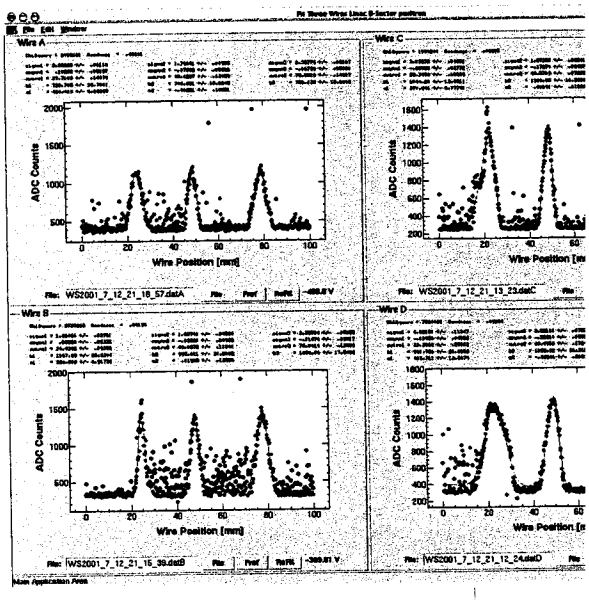


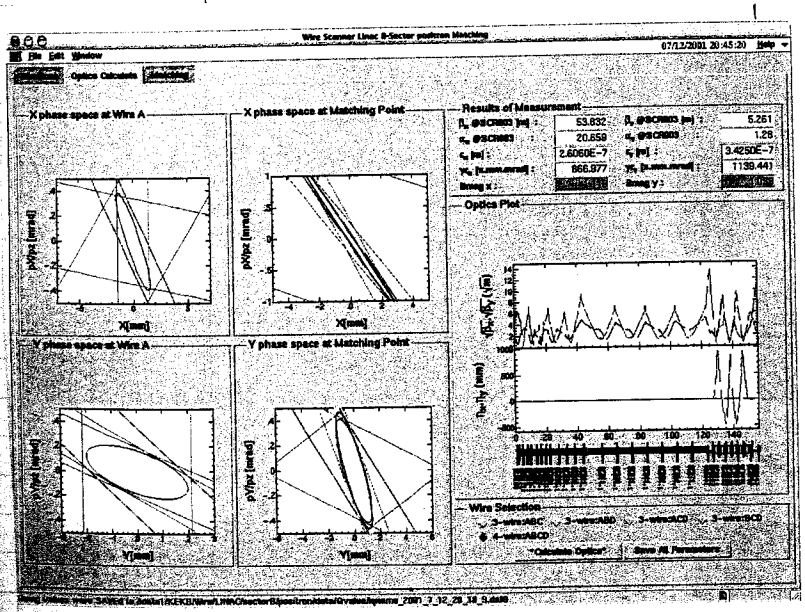
Matching 後 再測定

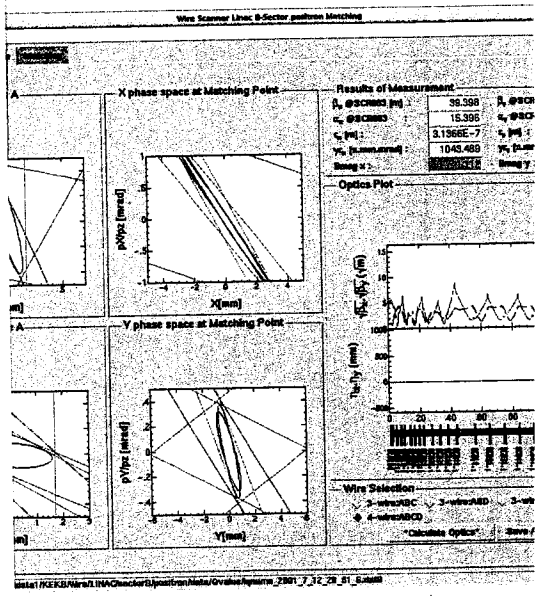
1st Bunch



2nd Bunch







7.13 大電流 HER 入射スタディー

1nC 0.55 mA/s 1Hz 100%
(2.9 mA/s 50Hz 100%)

3nC 0.07 mA/s 1Hz 60%

φSB C.1.~4 -5.0
φSB A.B +6.0

エネルギー幅変動 何故?

40%

BX_58_4 0.093.
KL_36 を ACC

エネルギー足りない

0.08 mA/s
~ 0.1 mA/sec 80%

・オシロのレンジ Linac
・ 〃 BT