

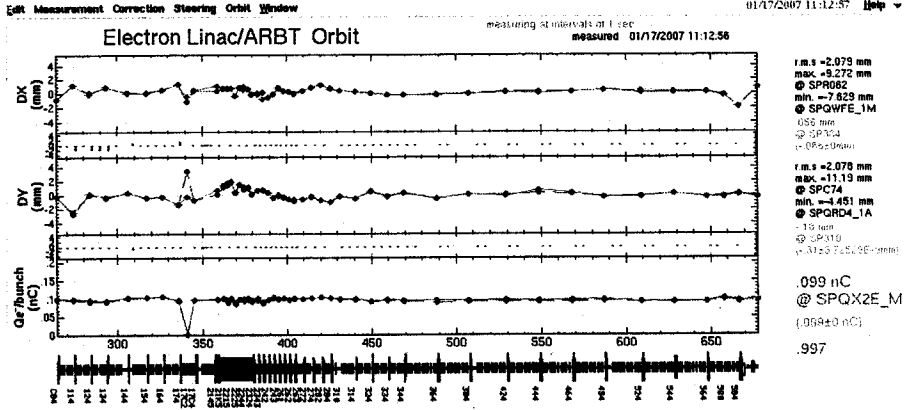
'07/1/17
10:40

AR 調整 紙谷 飯田 工藤

5セクタの ST を ϕ に.

5セクタの 軌道 F.B. を 止めた

4セクタから 5セクタ ST を ϕ にしてから 軌道補正可



Magnet							
X				Y			
Name	Dec	Adc	Status	Name	Dec	Adc	Status
	-0.131	-0.132		BY 38 4	-0.248	-0.242	
SX 41 3	0.001	0.005		SY 41 3	0.001	0.005	
SX 43 1	0.001	0.000		SY 43 1	0.001	0.000	
SX 43 3	0.001	0.000		SY 43 3	0.001	0.005	
SX 45 1	0.001	0.000		SY 45 1	0.001	0.000	
SX 45 3	0.001	0.002		SY 45 3	0.001	0.007	
SX 47 1	-1.200	-1.201		SY 47 1	-1.198	-1.196	
SX 47 3	0.001	0.008		SY 47 3	0.001	0.002	

Magnet							
X				Y			
Name	Dec	Adc	Status	Name	Dec	Adc	Status
	-0.131	-0.132		BY 48 4	0.001	0.002	
SX 51 3	0.001	-0.002		SY 51 3	0.001	0.000	
SX 53 1	-1.701	-1.699		SY 53 1	-1.198	-1.196	
SX 53 3	0.001	-0.002		SY 53 3	0.001	0.000	
SX 55 1	-1.501	-1.501		SY 55 1	0.001	0.000	
SX 55 3	0.001	-0.002		SY 55 3	0.001	0.002	
SX 57 1	0.001	0.000		SY 57 1	0.001	0.000	
SX 57 3	0.001	-0.002		SY 57 3	0.001	0.000	
BX 58 4	-0.806	-0.840		BY 58 4	-0.716	-0.693	

BX-58-4 の -0.8 A 17. Energy に 17. との位か?
SC-61-H1 7 の dispersion 17.
 $\eta_x = 0.331 \text{ m}$

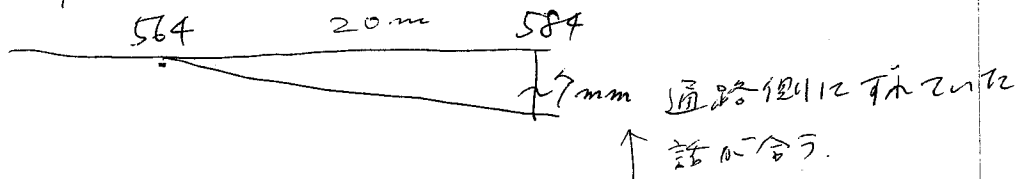
o BX-58-4 [A]	SP-61-H1 [mm]
-0.806	-0.53
0.	1.0

$$\delta = \frac{1.53 \times 10^{-3}}{0.331} = 0.462\%$$

- o ECS 第1 Bend e⁻ (KFKB) の Angle 17.
82 mrad

$$82 \text{ mrad} \times 4.62 \times 10^{-3} = 0.379 \text{ mrad} \leftarrow \begin{array}{l} \text{BX-58-4の} \\ -0.804[A] \end{array}$$

- o Q(DF)564 と Q(DF)584 との Geometry の関係.
12/27 以前は.



$$20 \text{ m} \times 0.379 \times 10^{-3} = 7.58 \text{ mm}$$

1:54

BT dispersion ϵ_{BT}

$kn \cdot b = 2.8937$
 $\begin{cases} + 0.0120 \\ - 0.0120 \end{cases}$

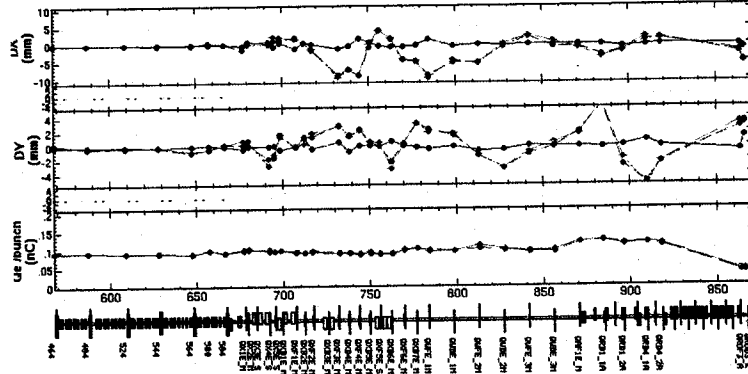
BX-58-9
0.007
BA

Measurement Correction Steering Orbit Window

01/17/2007 13:52:23 Help

Electron Linac/ARBT Orbit

measuring at intervals of 1 sec
measured 01/17/2007 13:52:21



r.m.s = 2.255 mm
 max = 4.005 mm
 @ SPQXF5E_S
 min = -0.936 mm
 @ SPQXF5E_M
 697 mm
 @ SP334
 (-1.1) 31709E-9mm
 r.m.s = 2.154 mm
 max = 11.089 mm
 @ SPC54
 min = -11.555 mm
 @ SPC74
 -1.39 mm
 @ SP316
 (-1.1) 134E0mm
 .04 nC
 @ SPQROD3_I
 (0.4) 0 nC
 .412

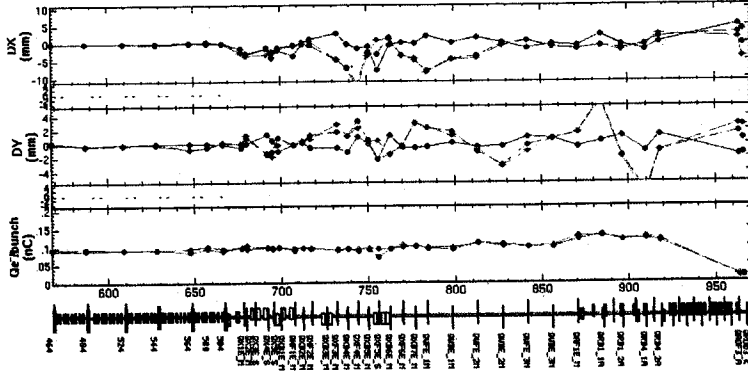
$\Delta E = 0$

Measurement Correction Steering Orbit Window

01/17/2007 13:51:21 Help

Electron Linac/ARBT Orbit

measuring at intervals of 1 sec
measured 01/17/2007 13:51:21



r.m.s = 2.829 mm
 max = 3.128 mm
 @ SPB34
 min = -11.907 mm
 @ SPQXF4E_M
 693 mm
 @ SP334
 (-1.1) 31709E-9mm
 r.m.s = 2.514 mm
 max = 11.089 mm
 @ SPC54
 min = -11.679 mm
 @ SPC74
 -1.36 mm
 @ SP316
 (-1.1) 134E0mm
 .016 nC
 @ SPQROD3_I
 (0.1) 0 nC
 .17

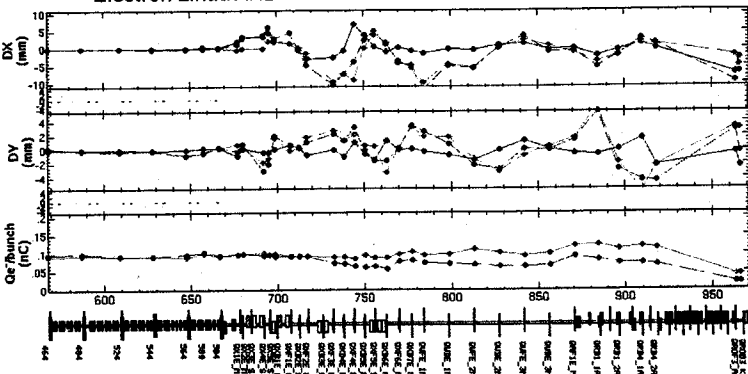
$\Delta E = +0.0\%$

Measurement Correction Steering Orbit Window

01/17/2007 13:53:08 Help

Electron Linac/ARBT Orbit

measuring at intervals of 1 sec
measured 01/17/2007 13:53:08

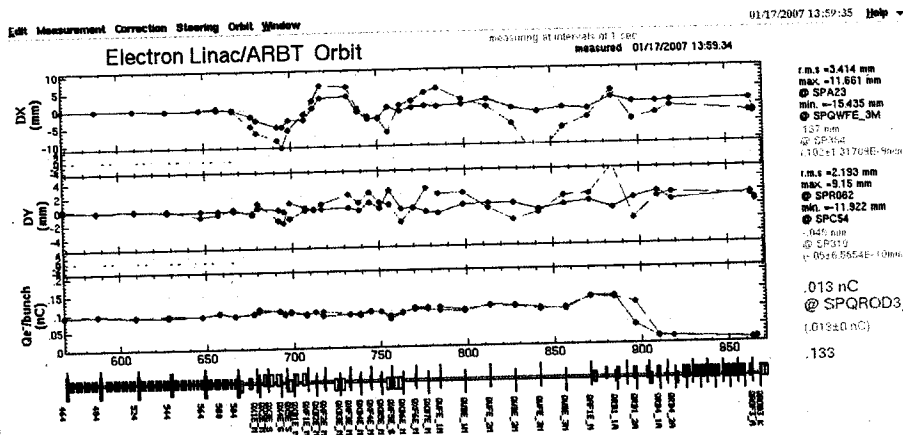
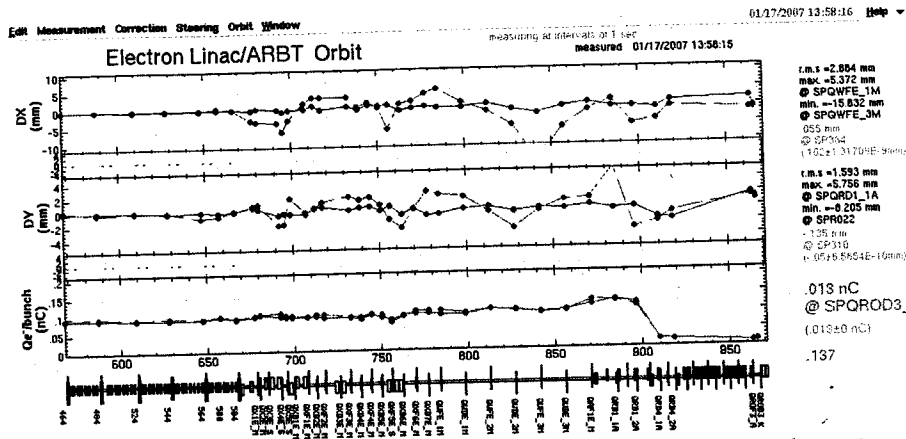


r.m.s = 2.094 mm
 max = 3.272 mm
 @ SPR082
 min = -11.671 mm
 @ SPQWFE_1M
 693 mm
 @ SP334
 (-1.1) 31709E-9mm
 r.m.s = 2.1 mm
 max = 9.15 mm
 @ SPR082
 min = -11.922 mm
 @ SPC54
 -1.24 mm
 @ SP316
 (-1.1) 134E0mm
 .022 nC
 @ SPQROD3_I
 (0.1) 0 nC
 .224

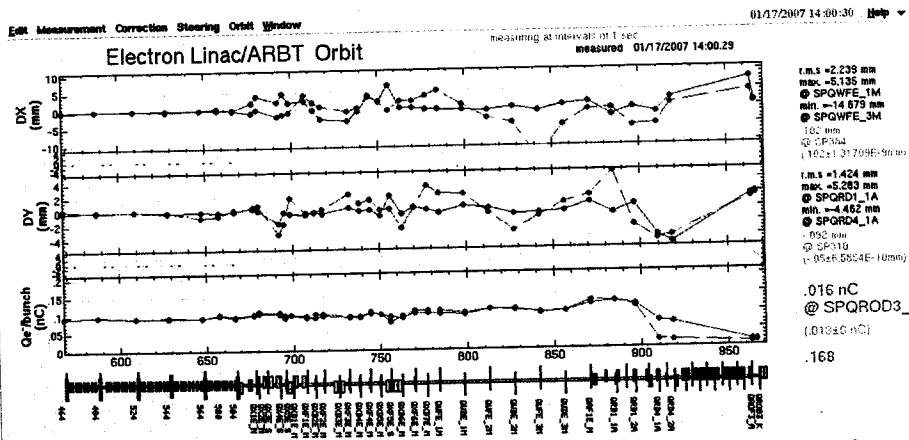
$\Delta E = -0.0\%$

BX-SF-4
-0.796[A]
(前期
運転値

$\Delta E = 0$



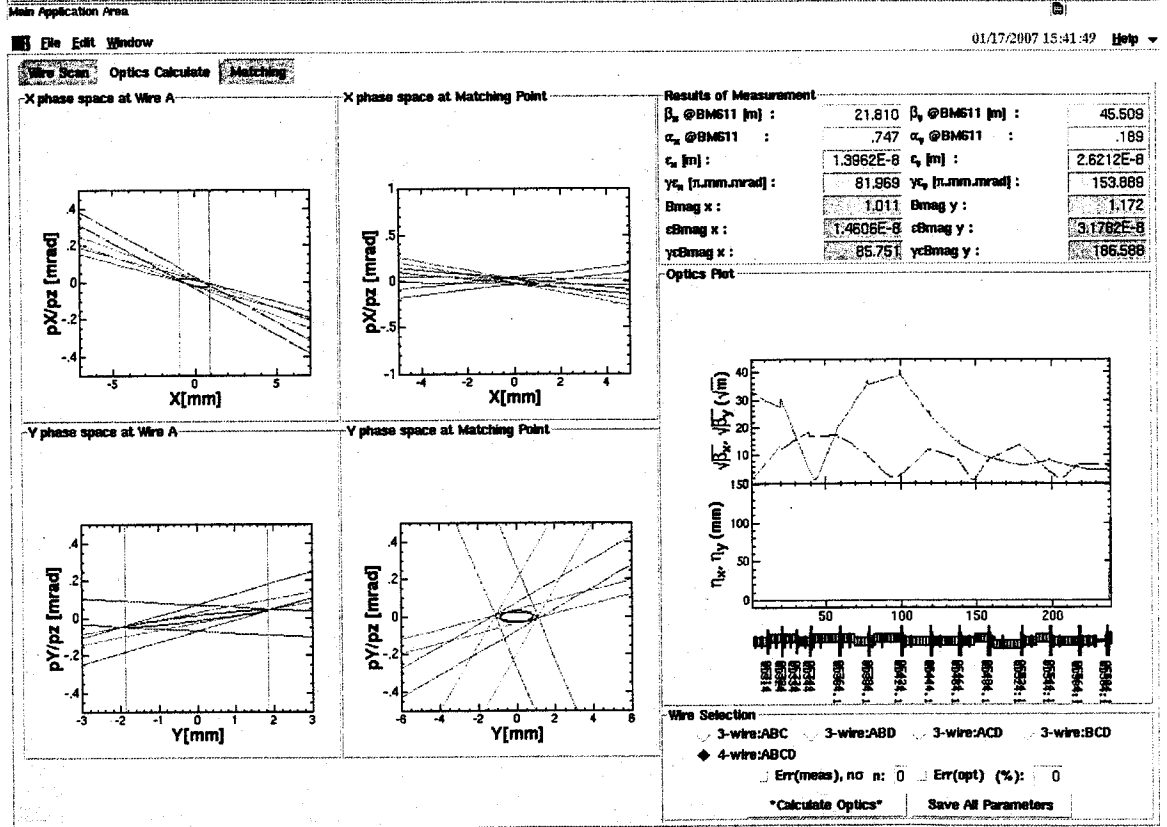
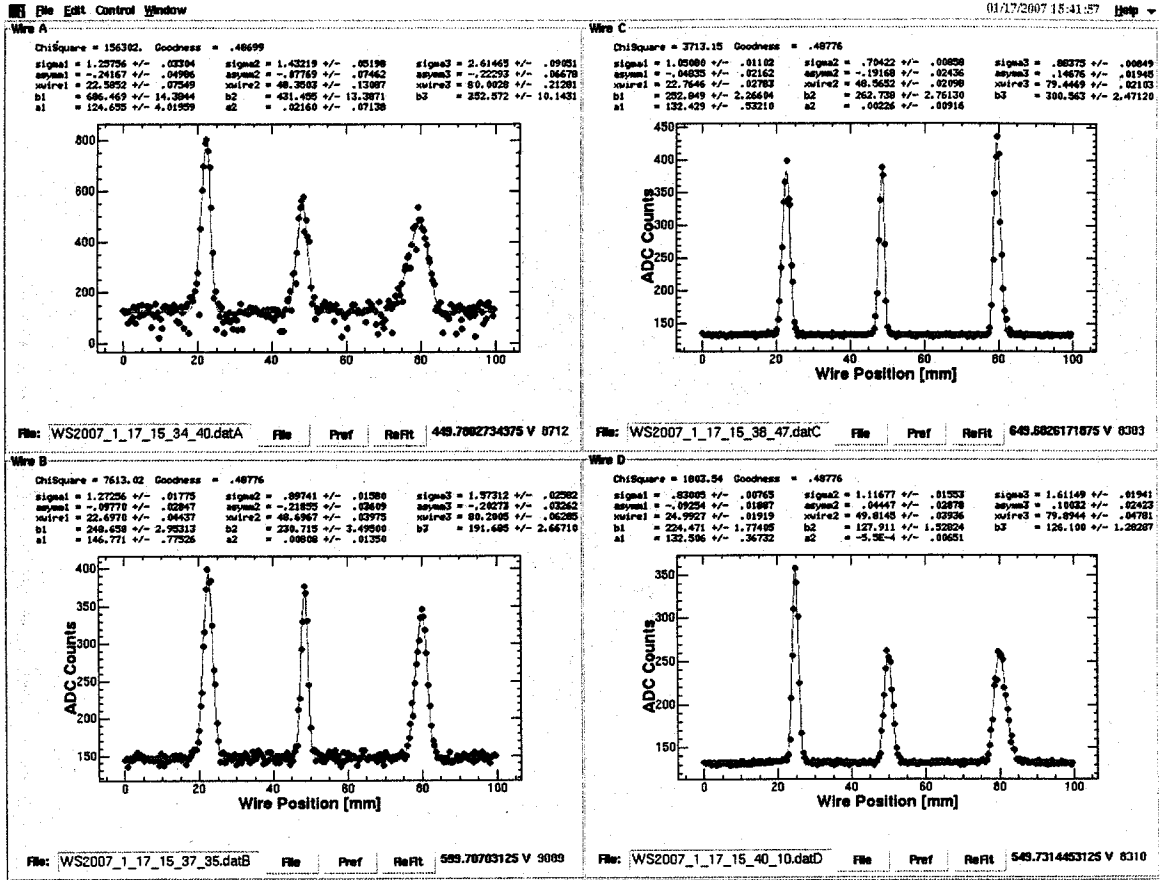
$\Delta E = +0.0120$



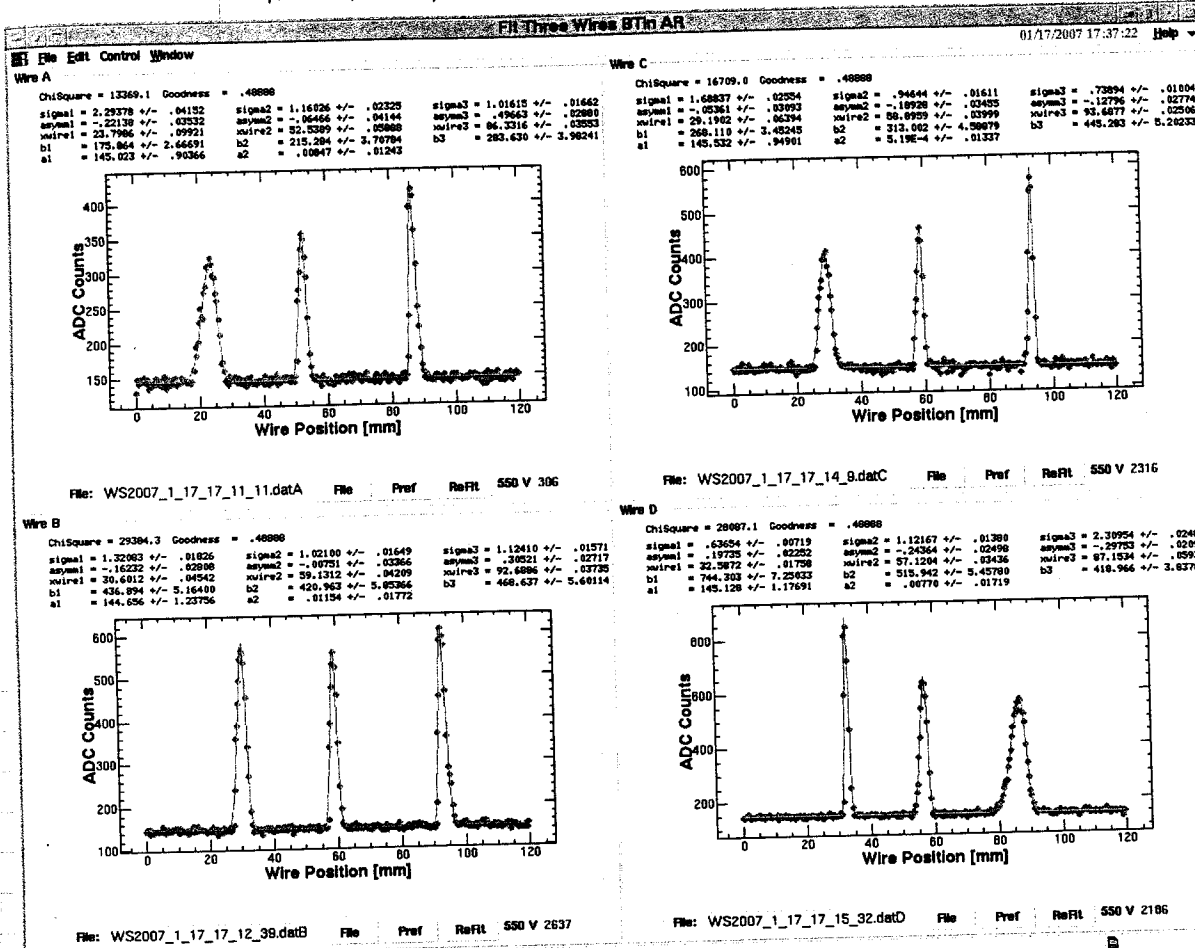
$\Delta E = -0.120$

15:10

PT_用のSB Timing と Parameter と 合わせ



BT Wire Scanner
 1" BTaPS20070117_1543"



Status Display

01/17/2007 17:37:22

File Edit Window

Wire Scan Optics Calculats 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 @MW.1 [m] :	21.473	β_y @MW.1 [m] :	124.607
α_x @MW.1 :	-.068	α_y @MW.1 :	4.660
ϵ_x [m] :	2.3729E-8	ϵ_y [m] :	2.1725E-8
γ_x [r.mm.mrad] :	139.512	γ_y [r.mm.mrad] :	127.542
Bmag x :	1.688	Bmag y :	2.123
cBmag x :	4.0079E-8	cBmag y :	4.6124E-8
ycBmag x :	285.262	ycBmag y :	270.787

Optics Plot

Wire Selection

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

4-wire:ABCD

Err(mess), nσ n: 0 Err(opt) (%): 0

Calculate Optics Save All Parameters

All informations are SAVed to f\data1/KEKB/WireBTin/AR\data/MatchResult/WSBTAR_2007_1_17_17_36_49

01/17/2

Calculation

Matching Condition

Beam Matching

Over Calculation

Set Calculation

Set

Read&Write

Q-Mag from File

Q-Mag to File

Matching Conditions

1E: $\beta_x <$

2E: $\beta_y <$

3E: $\beta_x <$

4E: $\beta_y <$

5E: $\beta_x <$

6E: $\beta_y <$

7E: $\beta_x <$

8E: $\beta_y <$

9E: $\beta_x <$

10E: $\beta_y <$

11E: $\beta_x <$

12E: $\beta_y <$

13E: $\beta_x <$

14E: $\beta_y <$

15E: $\beta_x <$

16E: $\beta_y <$

17E: $\beta_x <$

18E: $\beta_y <$

19E: $\beta_x <$

20E: $\beta_y <$

21E: $\beta_x <$

22E: $\beta_y <$

23E: $\beta_x <$

24E: $\beta_y <$

25E: $\beta_x <$

26E: $\beta_y <$

27E: $\beta_x <$

28E: $\beta_y <$

29E: $\beta_x <$

30E: $\beta_y <$

31E: $\beta_x <$

32E: $\beta_y <$

33E: $\beta_x <$

34E: $\beta_y <$

35E: $\beta_x <$

36E: $\beta_y <$

37E: $\beta_x <$

38E: $\beta_y <$

39E: $\beta_x <$

40E: $\beta_y <$

41E: $\beta_x <$

42E: $\beta_y <$

43E: $\beta_x <$

44E: $\beta_y <$

45E: $\beta_x <$

46E: $\beta_y <$

47E: $\beta_x <$

48E: $\beta_y <$

49E: $\beta_x <$

50E: $\beta_y <$

51E: $\beta_x <$

52E: $\beta_y <$

53E: $\beta_x <$

54E: $\beta_y <$

55E: $\beta_x <$

56E: $\beta_y <$

57E: $\beta_x <$

58E: $\beta_y <$

59E: $\beta_x <$

60E: $\beta_y <$

61E: $\beta_x <$

62E: $\beta_y <$

63E: $\beta_x <$

64E: $\beta_y <$

65E: $\beta_x <$

66E: $\beta_y <$

67E: $\beta_x <$

68E: $\beta_y <$

69E: $\beta_x <$

70E: $\beta_y <$

71E: $\beta_x <$

72E: $\beta_y <$

73E: $\beta_x <$

74E: $\beta_y <$

75E: $\beta_x <$

76E: $\beta_y <$

77E: $\beta_x <$

78E: $\beta_y <$

79E: $\beta_x <$

80E: $\beta_y <$

81E: $\beta_x <$

82E: $\beta_y <$

83E: $\beta_x <$

84E: $\beta_y <$

85E: $\beta_x <$

86E: $\beta_y <$

87E: $\beta_x <$

88E: $\beta_y <$

89E: $\beta_x <$

90E: $\beta_y <$

91E: $\beta_x <$

92E: $\beta_y <$

93E: $\beta_x <$

94E: $\beta_y <$

95E: $\beta_x <$

96E: $\beta_y <$

97E: $\beta_x <$

98E: $\beta_y <$

99E: $\beta_x <$

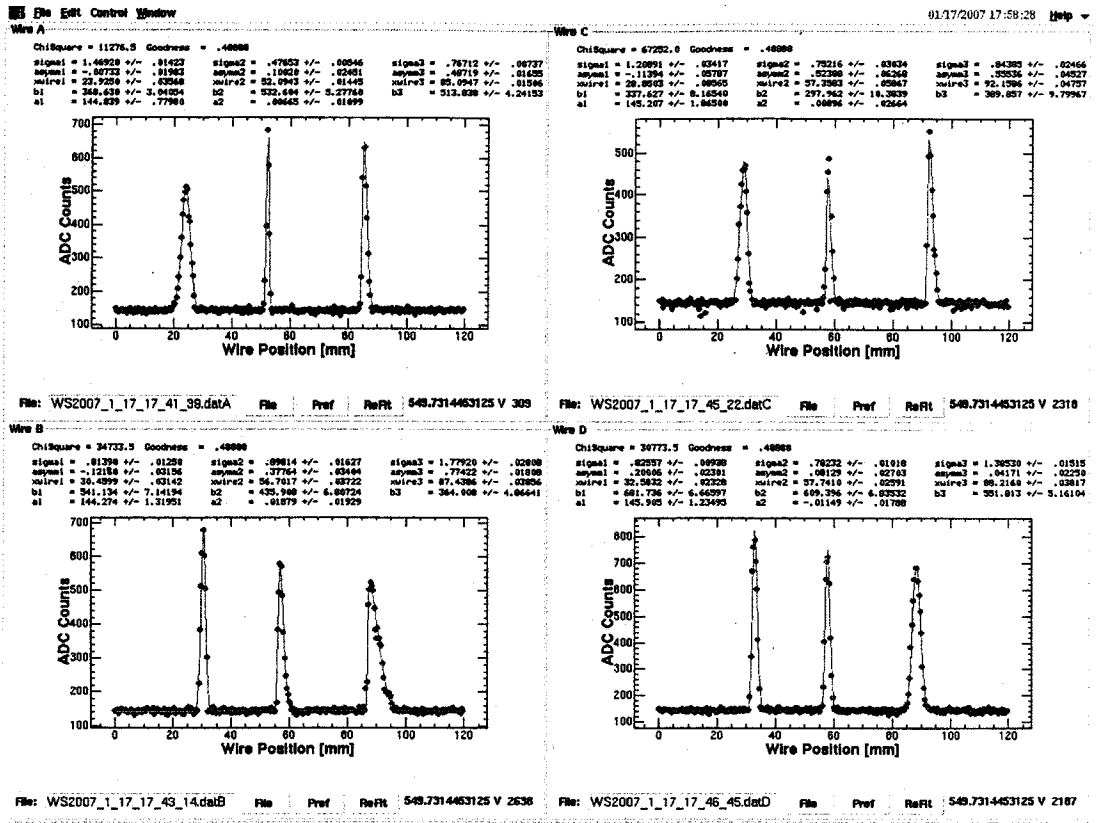
100E: $\beta_y <$

QXD6E: $\eta_{in} <$

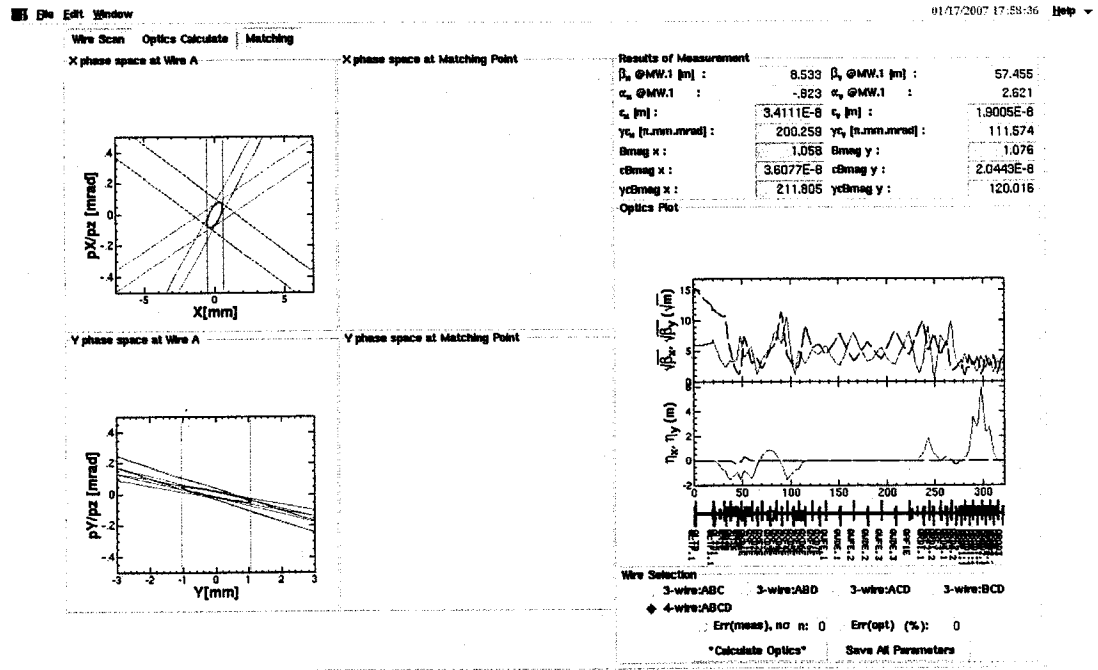
Ok

Plus

Matching 2 "BSTAPS 20070117-1739"

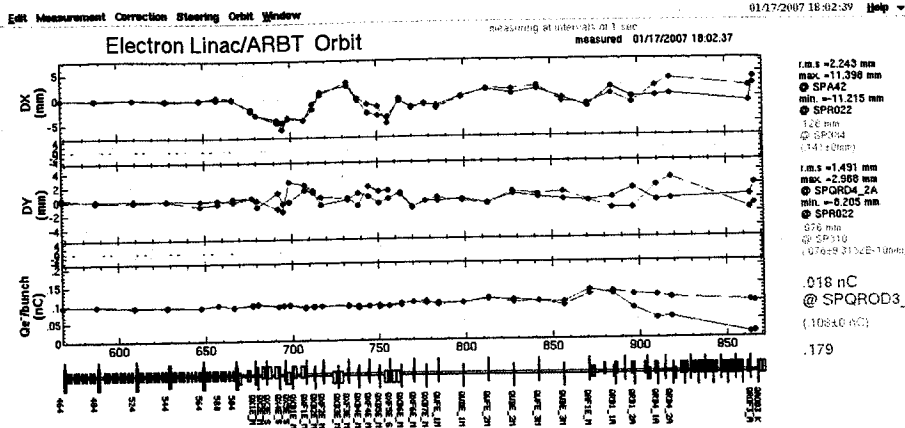


Hard Copy

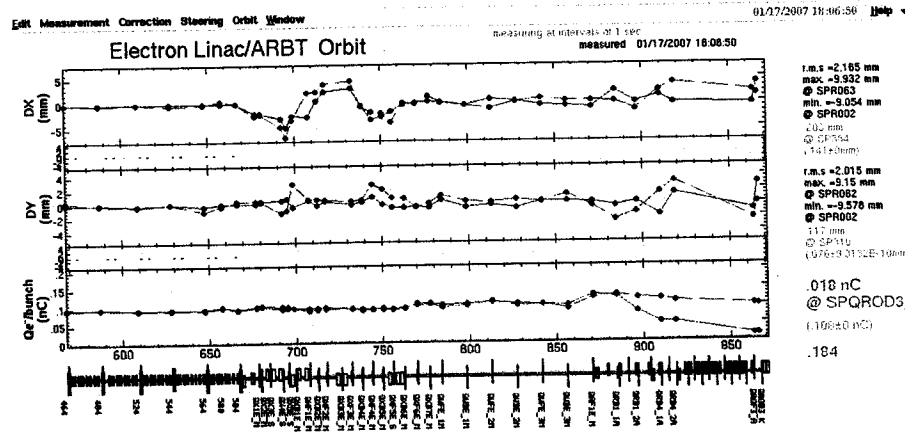


All informations are SAVED to Adata1/KEKB/Wire/BTm/AR/data/MatchResult/WSBTAR_2007_1_17_17_48_15

η. 測定



Matching 後
 $\sigma = +0.416\%$



Matching 前

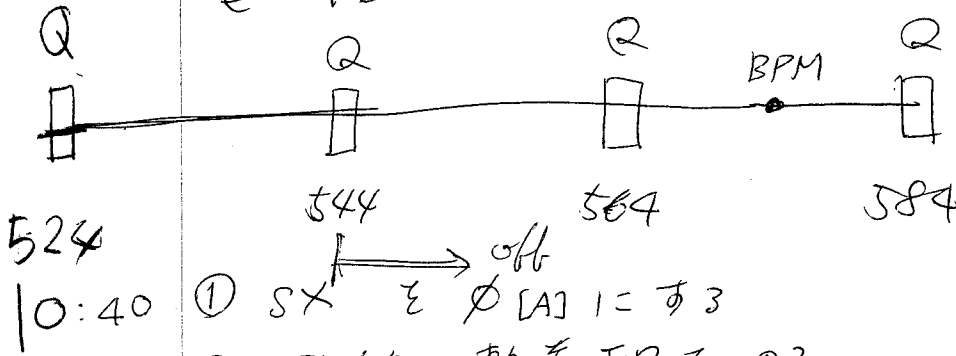
Matching が 3% dispersion の ため。
と 7 及び 7. Matching 前 の parameter は ため。

07/1/22

5077- Alignment check

紙谷 飯田 豊富

e⁻ KEKB



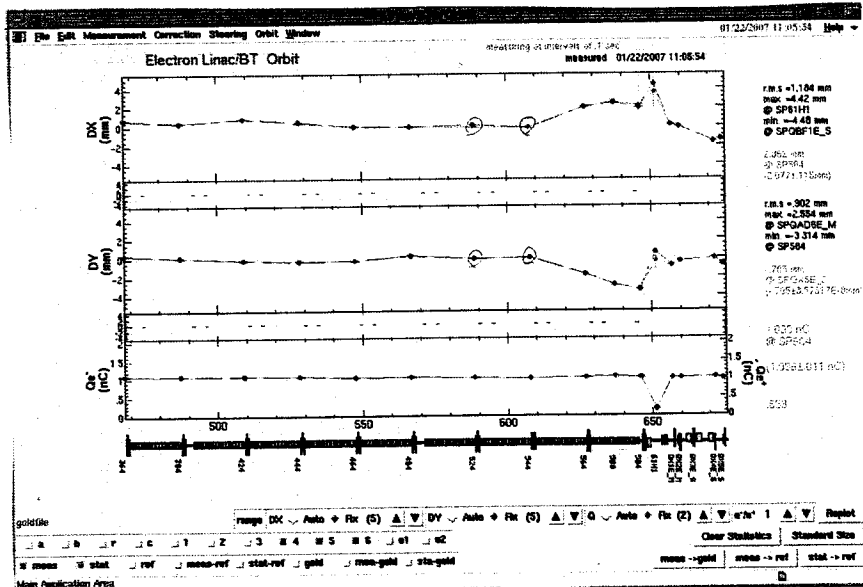
- ① SX Σ ϕ [A] に ϕ 3
- ② 5077- 軌道 FB Σ TP3.
- ③ 2544 以降 Σ ϕ [A] に ϕ 3
- ④ Acc 55, 56 Σ Stab y に ϕ 3.
(57. ~~58~~ 17. Σ ϕ Stab y に ϕ 3.)

(1) ⑤ 524 と 544 Σ ϕ [mm] に ϕ 3 ϕ 3 に 軌道 不補正.

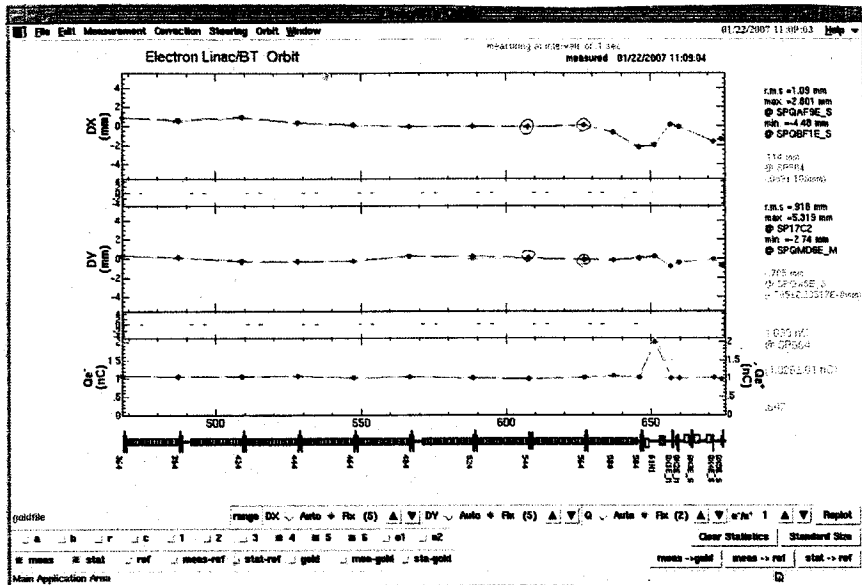
SX-53-1	-3.801
SY-53-1	-3.000

Acc 53, 54 Σ Stab y に ϕ 3.

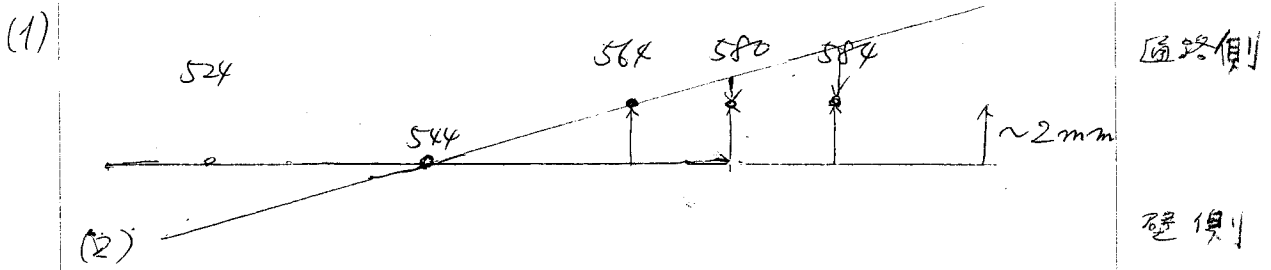
→ E \approx 7.4 GeV
a177"



11:10 (2) 544 & 564 T ϕ [mm] = (F) 891C Corr.
 (SX-55-1 -3.100
 SY-55-1 2.101



Horizontal



Vertical

