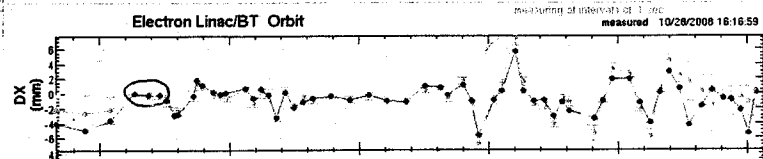


16:08

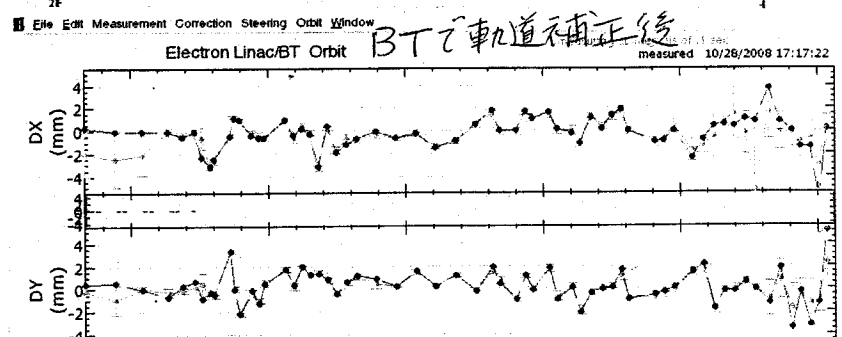
SP580 の X 方向に -1mm の offset を database に入れた
(位置修正に依頼) 650k

Quad	Read (I/B')	File (I/B')	Steering	Read (I)	File (I)		
QD/D_A1_1	1.885	1.9971	.000	.0000	BY_38_4	-.199	-.199
QF_A1_1	1.971	2.0898	.000	.0000	SX_41_3	.001	.001
QD/D_A1_M	2.821	3.8696	.000	.0000	SY_41_3	.001	.001
QF_A1_M	3.260	4.3318	.000	.0000	SX_43_1	1.501	1.501
QD/D_A1_2	1.297	1.8615	.000	.0000	SY_43_1	-2.800	-2.800
QF_A1_C5	2.513	2.1723	.000	.0000	SX_43_3	.001	.001
QF_A1_2	1.590	2.1681	.000	.0000	SY_43_3	-.299	-.299
QD/D_A1_B8	2.821	2.4294	.000	.0000	SX_45_1	-3.139	-1.400
QF_A1_B8	2.962	2.5477	.000	.0000	SY_45_1	.070	.602
QD_A1_C5	2.860	2.4620	.000	.0000	SX_45_3	.001	.001
QD/D_A2_1	10.747	7.6458	.000	.0000	SY_45_3	.001	.001
QF_A2_1	12.139	8.9917	.000	.0000	SX_47_1	-1.305	-1.700
QD/D_A2_2	15.179	10.7127	.000	.0000	SY_47_1	-2.145	-1.901
QF_A2_2	16.938	12.4714	.000	.0000	SX_47_3	.001	.001
QD/D_A2_3	21.363	14.7444	.000	.0000	SY_47_3	-.199	-.199
QF_A2_3	21.370	15.5900	.000	.0000	BX_48_4	.245	.433
QD/D_A2_4	13.993	8.5823	.000	.0000	BY_48_4	-.182	-.099
QF_A2_4	13.619	8.2548	.000	.0000	SX_51_3	-3.999	-3.999
QD/D_A3_2	15.062	9.2290	.000	.0000	SY_51_3	.601	.001
QF_A3_2	15.890	9.6169	.000	.0000	SX_53_1	-3.359	-3.400
QD/D_A3_4	15.853	9.7062	.000	.0000	SY_53_1	-1.190	-1.198
QF_A3_4	20.044	12.0960	.000	.0000	SX_53_3	.001	.001
QD/D_A4_2	9.560	5.8918	.000	.0000	SY_53_3	.001	.001
QF_A4_2	11.729	7.1198	.000	.0000	SX_55_1	-1.291	-1.349
QD/D_A4_4	18.425	11.2490	.000	.0000	SY_55_1	.040	.099
QF_A4_4	19.751	11.9219	.000	.0000	SX_55_3	.001	.001
QD/D_B1_4	4.005	13.8204	.000	.0000	SY_55_3	.001	.001
QF_B1_4	4.151	14.1191	.000	.0000	SX_57_1	.101	.101
QD/D_B2_4	4.830	16.7241	.000	.0000	SY_57_1	-.600	-.600
QF_B2_4	4.962	16.9022	.000	.0000	SX_57_3	.001	.001

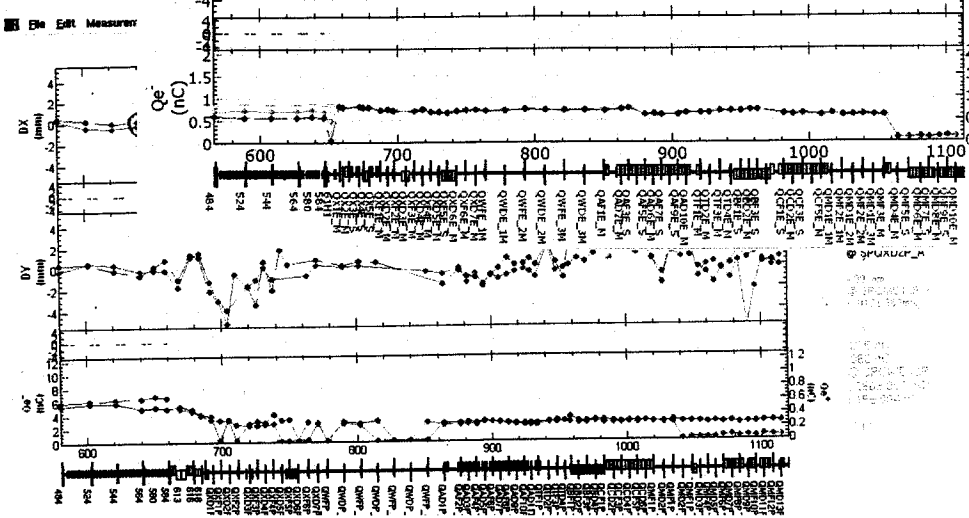
Read Select File Edit Measurement Correction Steering Orbit Window 10/28/2008 16:16:59 Help



e⁻ 2.17
564, 580, 584
が一箇線に
750k

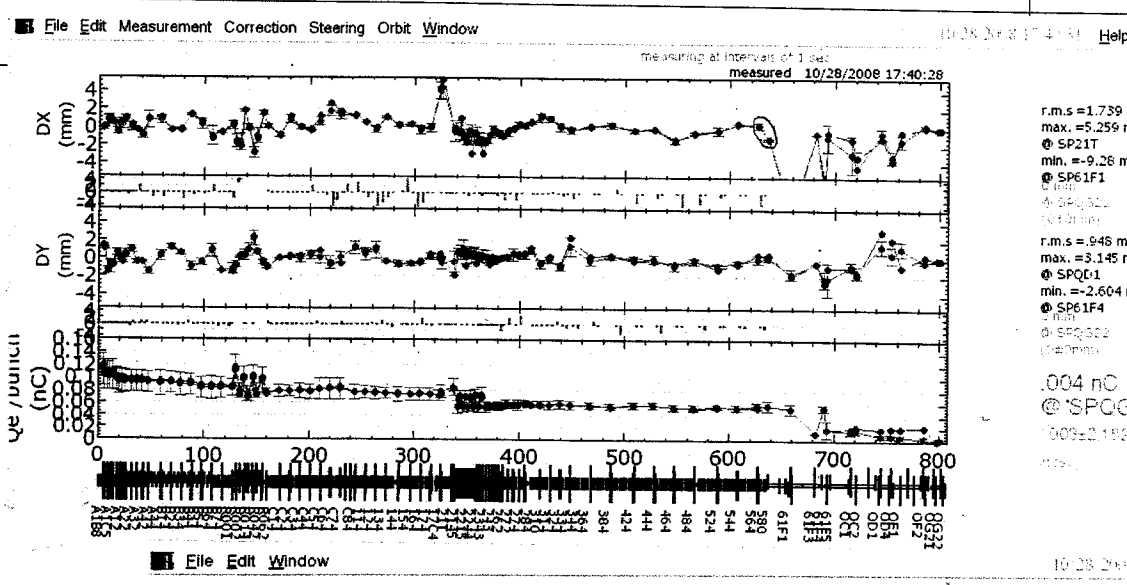


(時間によらずに)
e⁻ -0.5mm に見えるときは

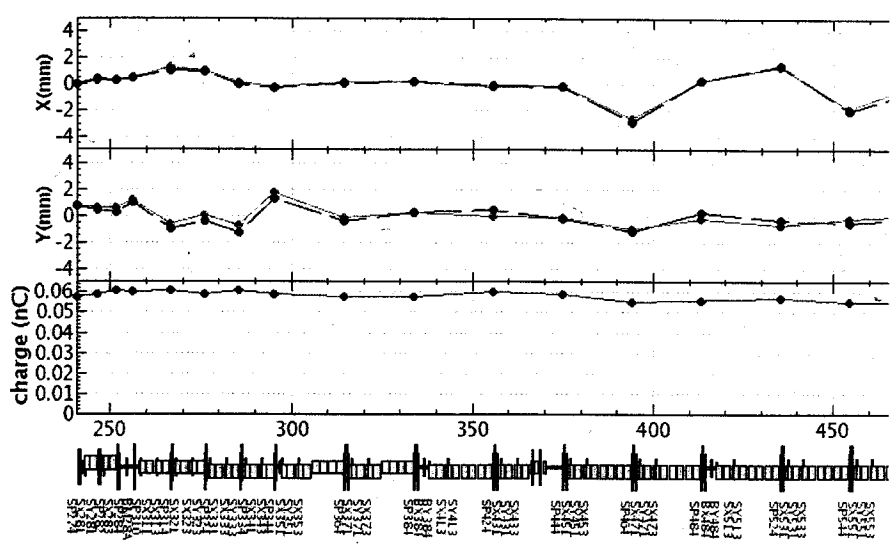


補
修正前

PTにSP580の修正をかける。

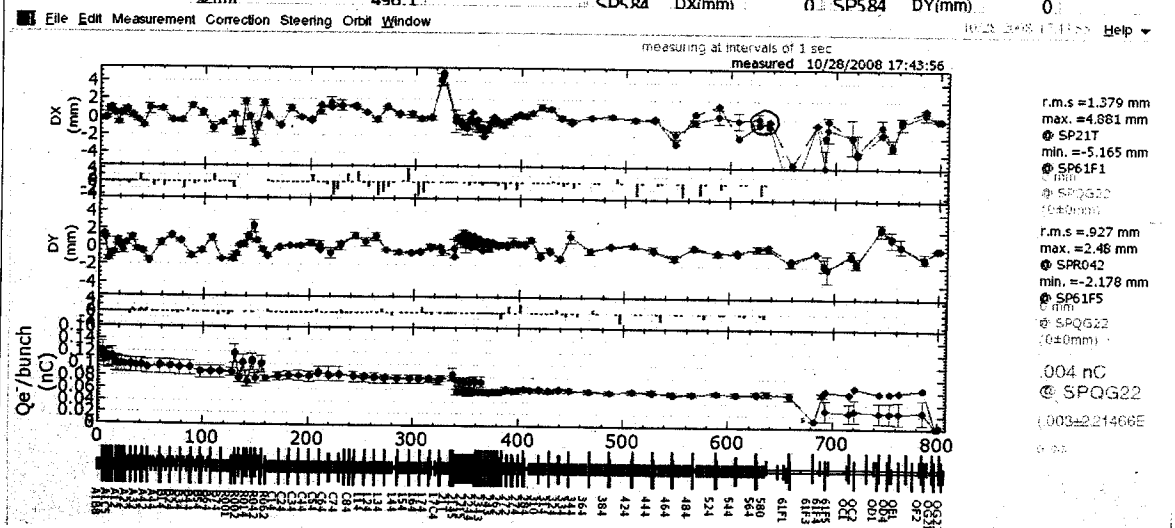


大西ハネにて
SP564,
SP580
εの修正
補正。

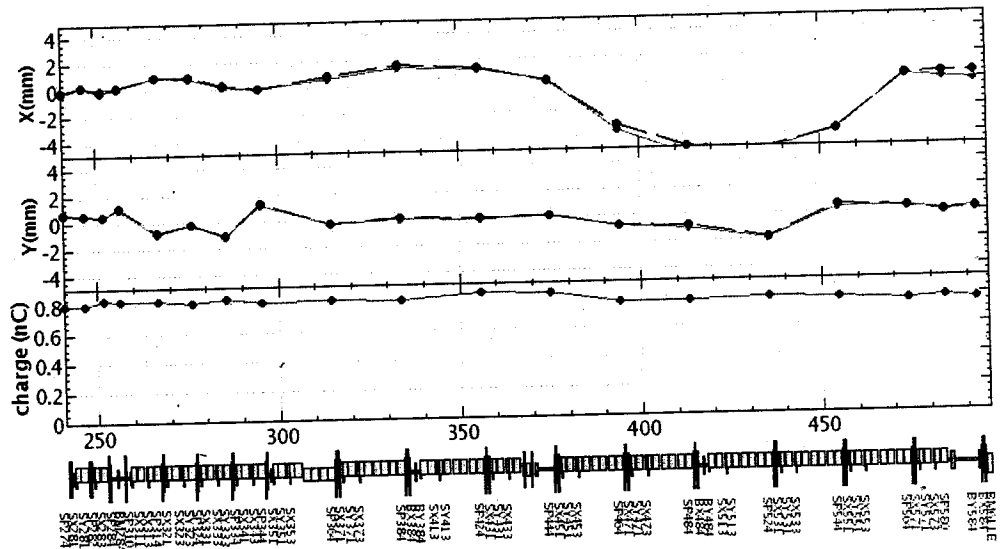


PFA1(2.5 GeV)		BPM		PF	PF	
PFA1 e-		Plot BPM	SP564 DX(mm)	-3	SP564 DY(mm)	0
KEKB e-		Set Ref BPM	SP580 DX(mm)	1.2	SP580 DY(mm)	0
s1(m)	240.0	Clear Ref BPM	KEKB e-		KEKB e-	
s2(m)	496.1	Steering	SP580 DX(mm)	0	SP580 DY(mm)	0
			CD5R4 DX(mm)	0	SP584 DY(mm)	0

補正後

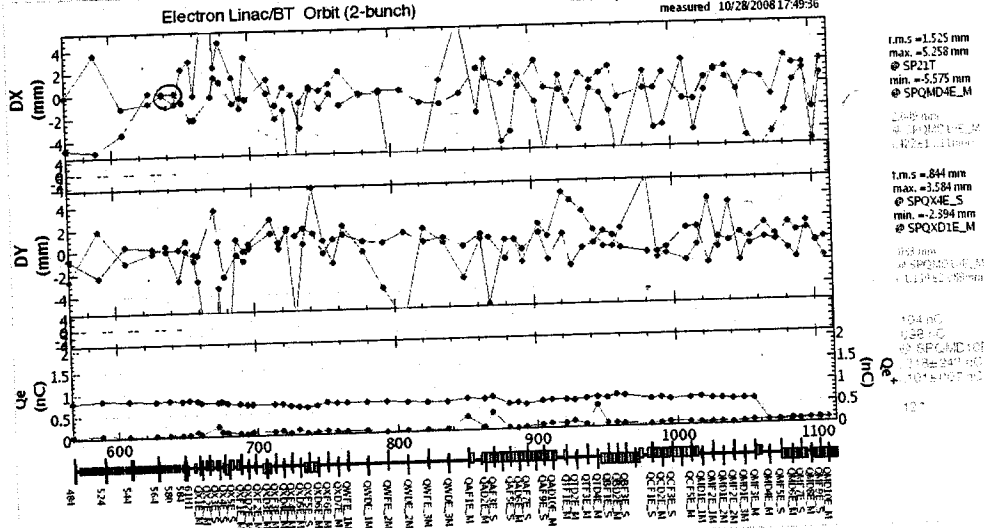


KEKB
 e^-
 τ^+
 { SP580 \rightarrow ϕ
 { SP384 \rightarrow \times
 に各5行に
 補正.

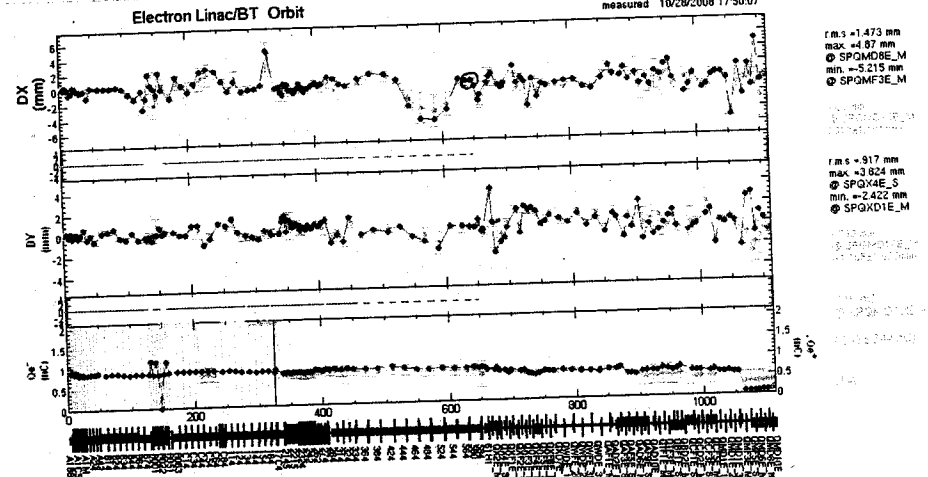


KEKB(8 GeV)	BPM:	PF	SP564 DX(mm)	-3	PF	SP564 DY(mm)	0
PFA1 e^-	Plot BPM	SP580 DX(mm)	1.2	SP580 DY(mm)	0		
KEKB e^-	Set Ref BPM	KEKB e^-	SP580 DX(mm)	.5	KEKB e^-	SP580 DY(mm)	0
s1(m)	Clear Ref BPM	SP584 DX(mm)	.5	SP584 DY(mm)	0		
s2(m)	Steering	Set Ref Steer					

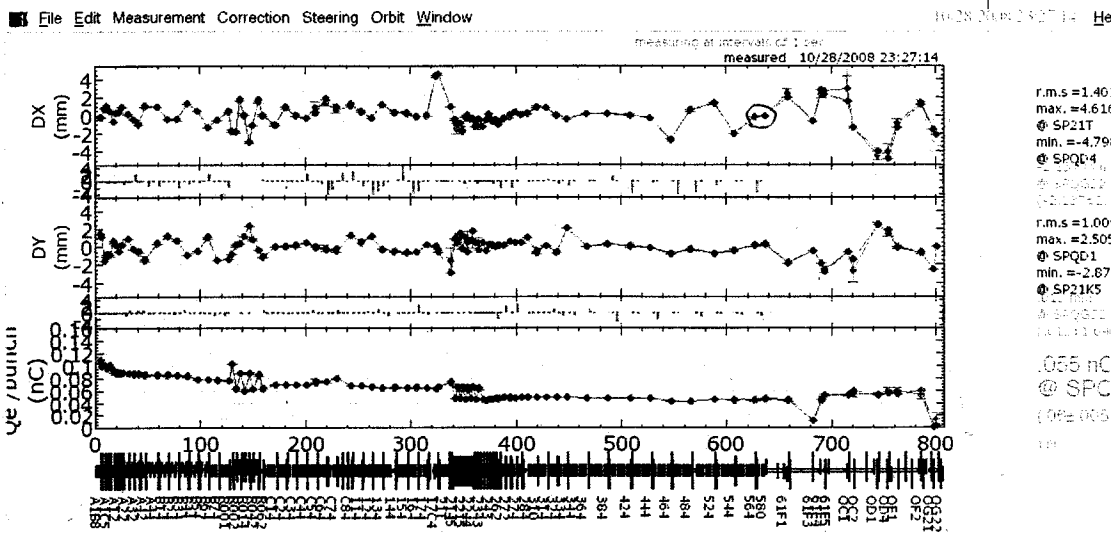
Electron Linac/BT Orbit (2-bunch)



Electron Linac/BT Orbit



KE
 last.com
 に save し
 運転に使う。
 Study 終了。
 今後 Pulse to = pulse τ^+



PT入射悪いため Pulse Bend と エネルギーで調整

Pulse Bend

DAC 2.797828KV → 2.80200KV

エネルギー

2.5197 → 2.5205

175

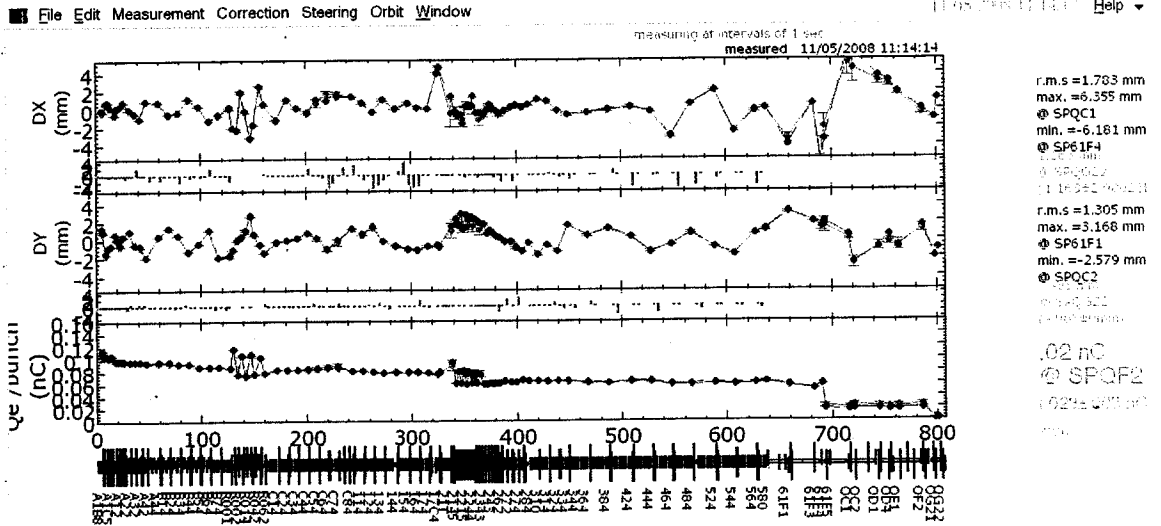
'08/11/5

0

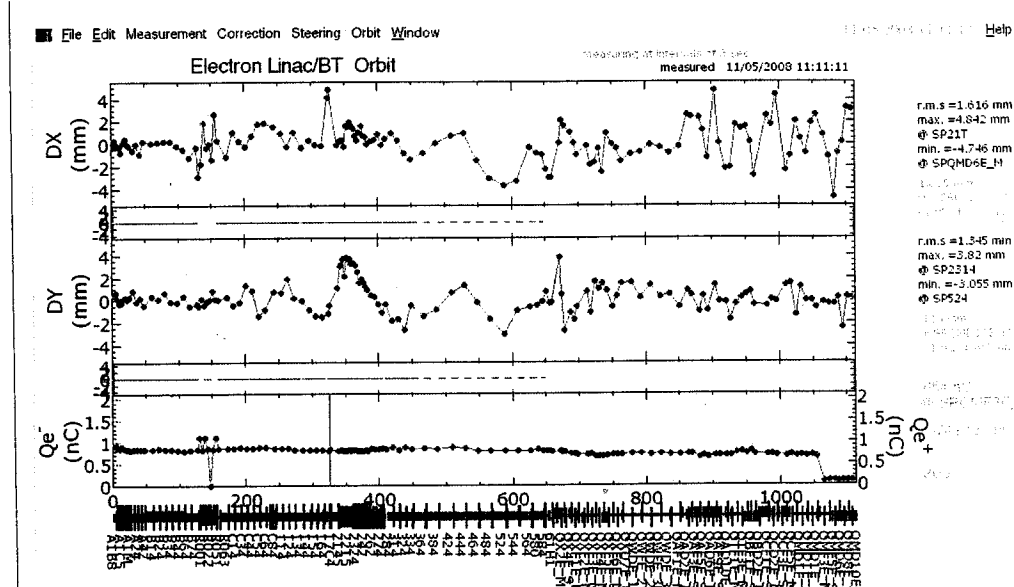
小川 吉川 菊池 紙谷 飯田 大西

PF/HER 同時入射 pulse-to-pulse Study

PF



HER
7Hz



SB-2 PF KEK e⁻
270 96 93°

Energy 2.5183 GeV

117

108/11/5

13:35-28 e^+ mode \bar{z} . St. Q save (by 大西氏)

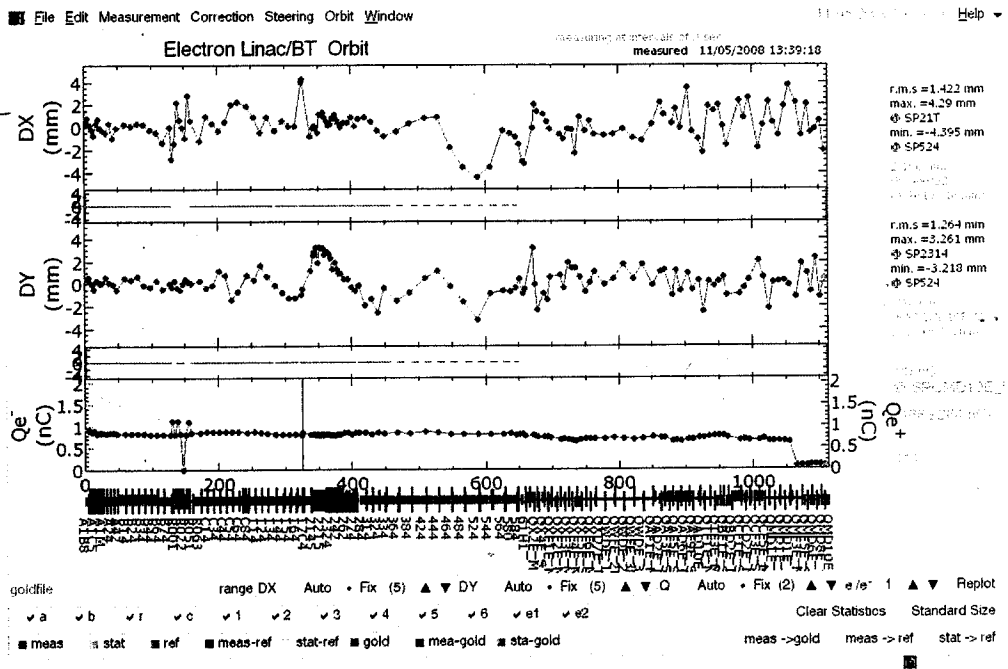
e^- mode \bar{z} Beam \bar{z} \bar{z} . 13:48

◎ St. Q 17. e^+ A parameter \bar{z} set

13:41 QDA1 ~ QDR0-03 set

13:44 Orbit FB. Energy FB \bar{z} \bar{z}

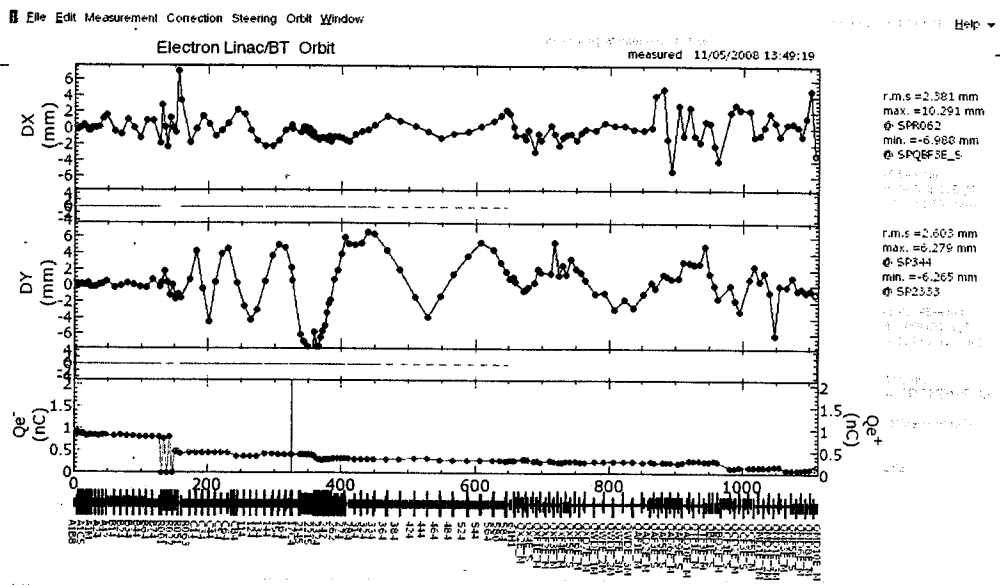
e^- 元軌道



13:48

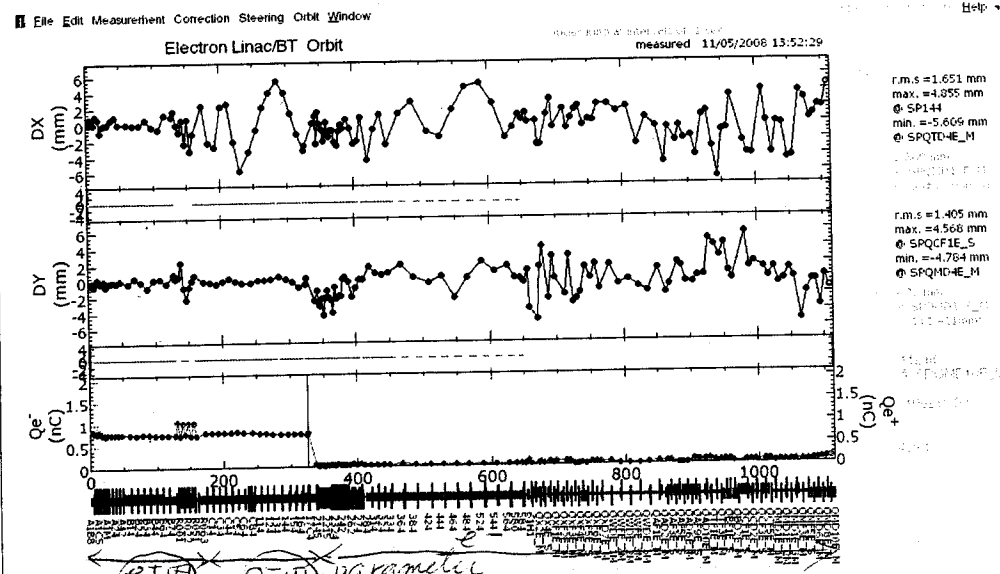
e^- mode \bar{z} . e^- parameter (kbe) \bar{z} \bar{z} save LTr.
 e^-
Q \bar{z} . e^+ parameter set
(QDA1 ~ QDR0-03)

Beam
e⁻



SX_A1_G0 ~ BYR0-63 付近
e⁺ の parameter

e⁻



Screen 7. e⁻ を確認. 通常の e⁻ 5ヶ くらい

13:54

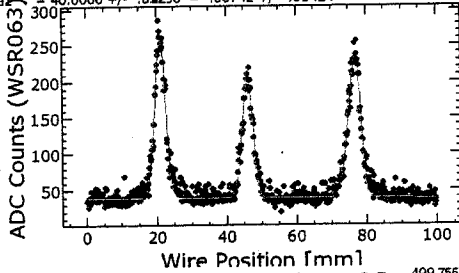
[AB 10nC
+
RC1-5 1nC] 2008/11/5 13:54 magnet panel "SAVE"

e-Beam
C検
ワイヤ
測定

Control Window

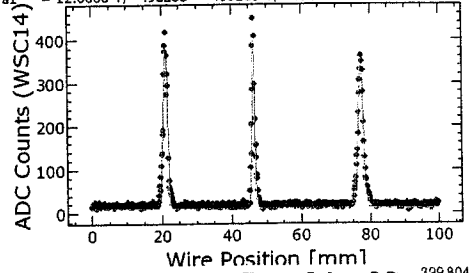
Wire C

ChiSquare = 54141.1 Goodness = .49239
 signal = 1.51343 +/- .41882 = 1.55249 +/- .41882
 asym1 = -0.02277 +/- .00002 = -0.02283 +/- .00002
 asym2 = 2.10784 +/- .00002 = 2.10790 +/- .00002
 wire1 = 21.0784 +/- .81258 = 21.0784 +/- .81258
 wire2 = 40.0000 +/- .81258 = 40.0000 +/- .81258
 wire3 = 59.9216 +/- .81258 = 59.9216 +/- .81258
 wire4 = 79.8432 +/- .81258 = 79.8432 +/- .81258



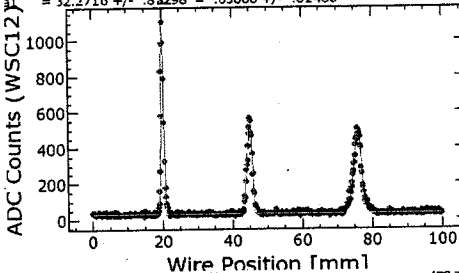
8_11_5_14_5_41.data

ChiSquare = 95802.5 Goodness = .49239
 signal = 6.2973 +/- .61062 = 6.3898 +/- .61062
 asym1 = -1.1181 +/- .00002 = -1.1181 +/- .00002
 asym2 = 3.69667 +/- .00002 = 3.69673 +/- .00002
 wire1 = 12.0000 +/- .98868 = 12.0000 +/- .98868
 wire2 = 36.0000 +/- .98868 = 36.0000 +/- .98868
 wire3 = 60.0000 +/- .98868 = 60.0000 +/- .98868
 wire4 = 84.0000 +/- .98868 = 84.0000 +/- .98868



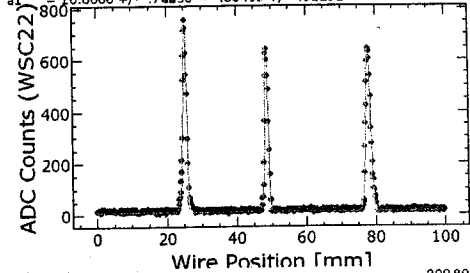
Wire D

ChiSquare = 65292.5 Goodness = .49239
 signal = 4.0200 +/- .60042 = 4.1420 +/- .60042
 asym1 = -0.0136 +/- .00002 = -0.0136 +/- .00002
 asym2 = 1.84117 +/- .00002 = 1.84123 +/- .00002
 wire1 = 18.0000 +/- .81258 = 18.0000 +/- .81258
 wire2 = 36.0000 +/- .81258 = 36.0000 +/- .81258
 wire3 = 54.0000 +/- .81258 = 54.0000 +/- .81258
 wire4 = 72.0000 +/- .81258 = 72.0000 +/- .81258



08_11_5_14_6_29.dataB

ChiSquare = 49976.9 Goodness = .49239
 signal = 5.5376 +/- .60042 = 5.6812 +/- .60042
 asym1 = -0.01781 +/- .00002 = -0.01781 +/- .00002
 asym2 = 2.72875 +/- .00002 = 2.72881 +/- .00002
 wire1 = 12.0000 +/- .98868 = 12.0000 +/- .98868
 wire2 = 36.0000 +/- .98868 = 36.0000 +/- .98868
 wire3 = 60.0000 +/- .98868 = 60.0000 +/- .98868
 wire4 = 84.0000 +/- .98868 = 84.0000 +/- .98868



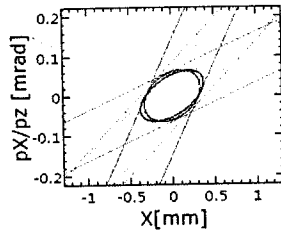
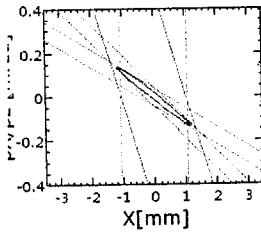
File WS2008_11_5_14_8_7.datD

File Edit Window

Wire Scan Optics Calculate Matching

phase space at Wire A

X phase space at Matching Point



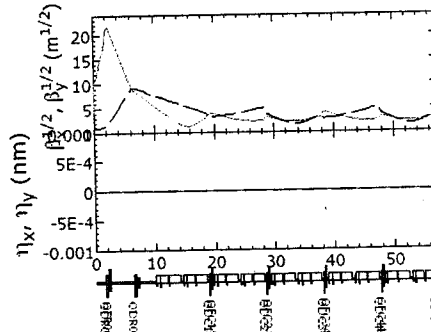
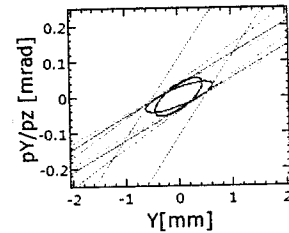
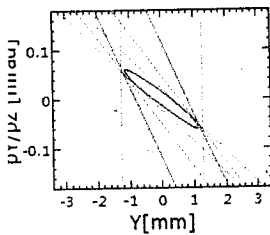
Results of Measurement

β_x @QDC24 [m]	5.448	β_y @QDC24 [m]	23.697
α_x @QDC24	-0.369	α_y @QDC24	-1.297
ϵ_x [m]	2.0109E-8	ϵ_y [m]	1.6456E-8
$\epsilon_{x,rms}$ [x.mmm.mrad]	80.311	$\epsilon_{y,rms}$ [x.mmm.mrad]	65.721
Bmag x	1.043	Bmag y	1.392
ϵ Bmag x	2.0965E-8	ϵ Bmag y	2.2911E-8
ϵ Bmag x	83.727	ϵ Bmag y	91.499

Optics Plot

phase space at Wire A

Y phase space at Matching Point



1.00 12.038929500788558
 0.00 12.557227617906079

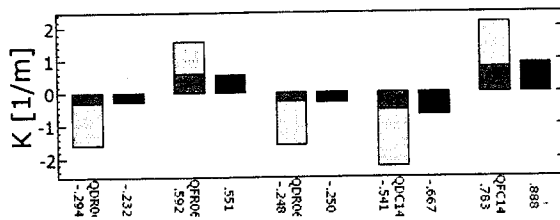
Wire Selection

3-wire:ABC 3-wire:ABD 3-wire:ACD 3-wire:BCD
 • 4-wire:ABCD

NonLinearFit Err(meas), no n: 0 Err(opt) (%): 0

Calculate Optics Save All Parameters

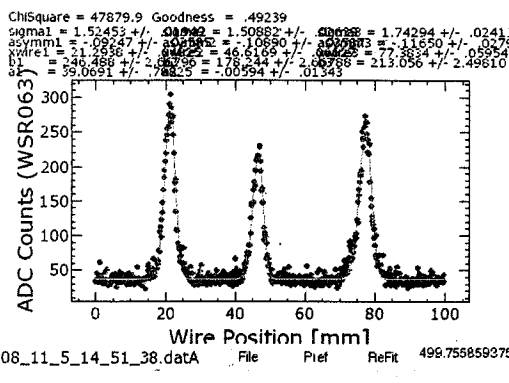
informations are SAVED to 1\data1\KEKB\Wire\LINAC\sectorC\electron\data\MatchResult\WSLC_2008_11_5_14_9_12
 Strength of Free Qmag (QX*)



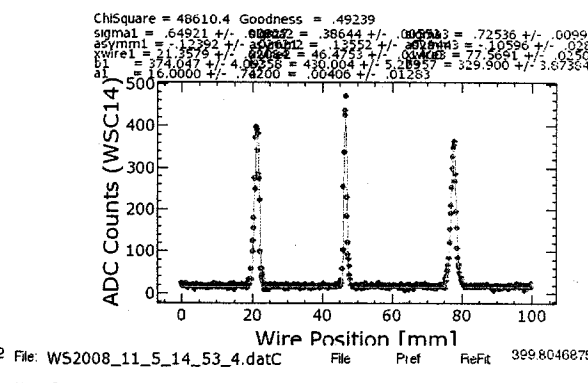
Matching Calculation

- Calc Matching
- Recover Calculation
- Reset Calculation
- Q-mag Set
- Q-mag Read&Write
- Read Q-Mag from File
- Save Q-Mag to File

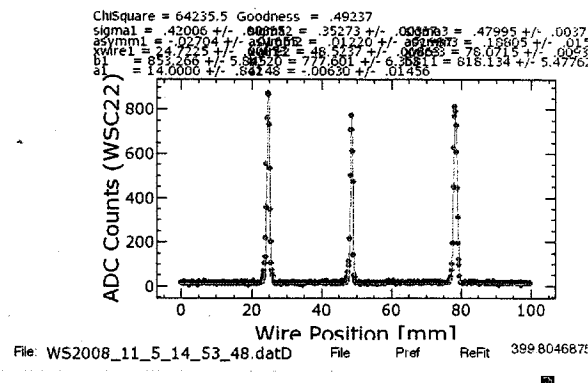
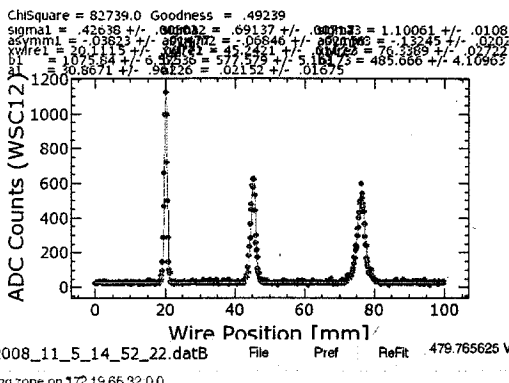
File Edit Window
 Wire Scan Optics Calculate Matching
 Control Window



Wire C
 File Edit Window
 Wire Scan Optics Calculate Matching
 Help



3.248
 1.013
 127E-8
 8.791
 1.014
 176E-8
 9.788



BCD
 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

ρ , @QDC24 [m] :	6.961	ρ , @QDC24 [m] :	12.180
α , @QDC24 :	-649	α , @QDC24 :	-1.054
ϵ , [m] :	1.2634E-8	ϵ , [m] :	1.8012E-8
ϵ , [x.m.mrad] :	50.451	ϵ , [x.m.mrad] :	71.929
Bmag x :	1.000	Bmag y :	1.000
ϵ Bmag x :	1.2634E-8	ϵ Bmag y :	1.8015E-8
ϵ Bmag x :	50.451	ϵ Bmag y :	71.940

Optics Plot

Wire Selection
 3-wire:ABC 3-wire:ABD 3-wire:ACD 3-wire:BCD
 4-wire:ABCD
 NonLinearFit Err(meas, no n: 0 Err(opt) (%): 0
 Calculate Optics Save All Parameters

Omega values were SAVED to /data1/EKKB/Wire/LINAC/sectorC/electron/data/Qvalue/qname_2008_11_5_14_51_5.dat0

14:56 parameter save. (kbe)