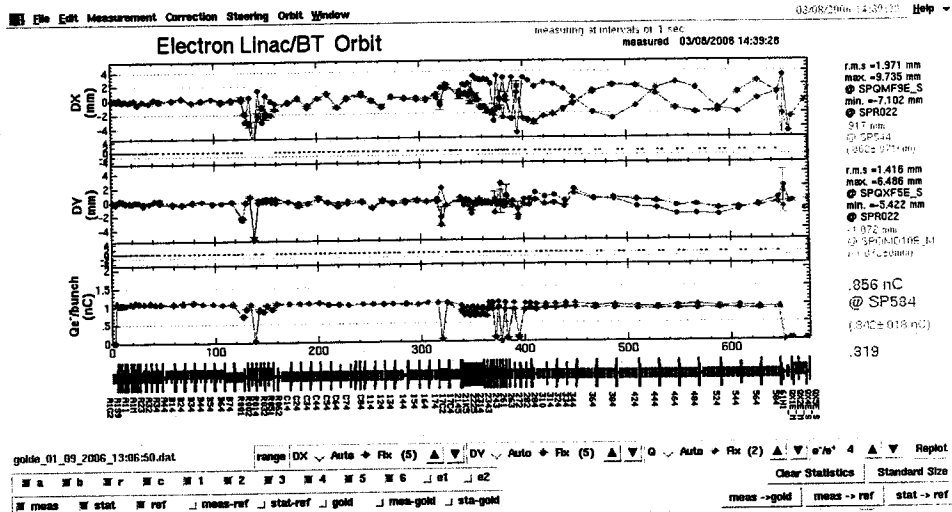
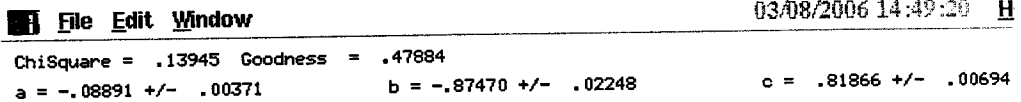


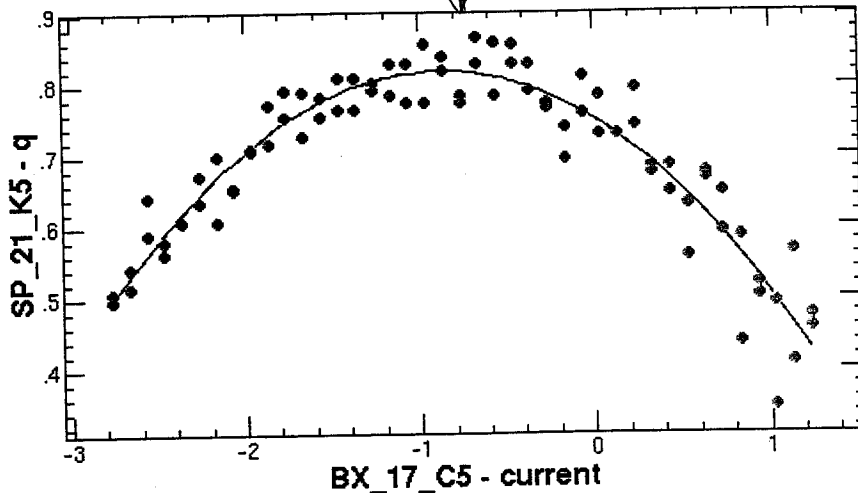
東西 optics 2 & target bump 最適化. 1通 Scan 後



target 以降の軌道が出た SX-17-C5 値が変ったため。
 → SX-17-C5 のみ もう一度 scan する。



局前の最適値に戻す



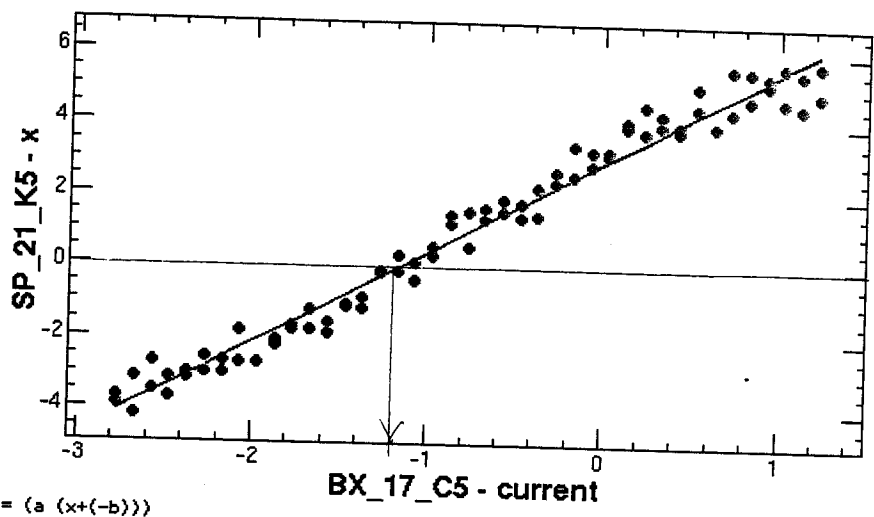
Function = (c+(a ((x+(-b))^2)))

File Edit Window

03/08/2006 14:50:29 H

ChiSquare = 18.5452 Goodness = .47897
 a = 2.54961 +/- .04494

b = -1.1566 +/- .02730

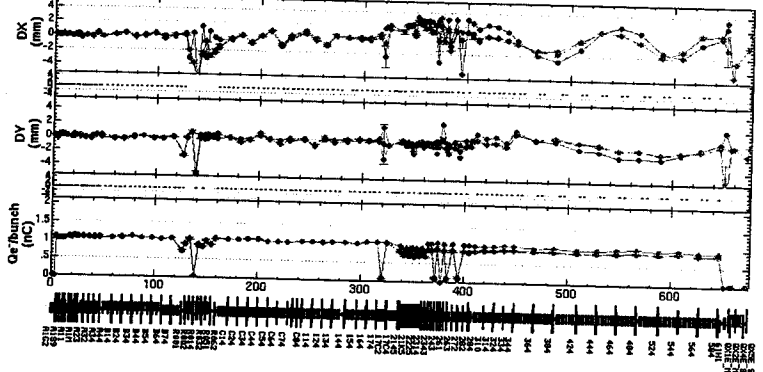


Function = (a (x+(-b)))

File Edit Measurement Correction Steering Orbit Window

03/08/2006 14:54:28 Help

Electron Linac/BT Orbit



measured 03/08/2006 14:54:28
 f.m.s = 1.893 mm
 max = 3.735 mm
 min = -6.238 mm
 SPQMF5E_S
 SPQ022
 1.895 mm
 SP511
 -1.047 mm
 f.m.s = 1.603 mm
 max = 6.486 mm
 min = -5.226 mm
 SPQMF5E_S
 SP61H1
 -1.672 mm
 SPQMF5E_M1
 -1.992 mm
 .942 nC
 @ SP584
 (RC) = RC (1 nC)
 .806

golke_01_09_2006_13:06:50.dat

range DX Auto Fix (5) DY Auto Fix (5) Q Auto Fix (2) e/e* 4 Replot

Clear Statistics Standard Size

meas -> gold meas -> ref stat -> ref

target XRFの Orbit はおたおたに合った。

Magnet Parameter SAVE → data 4133.all

43

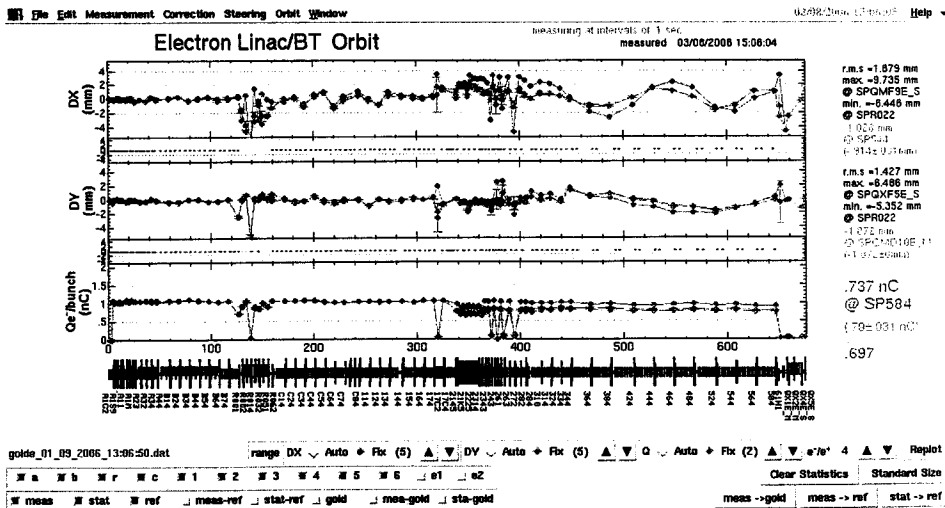
KEKB optics 2 と KEKB e⁻ optics の比較

bt data (save) 14:10 03/08/06

MAGNET NAME	DAC /ADC	DAC /ADC	DAC-REF	ADC-REF
FC_CT_G7/8	9.265/9.141	9.265/9.243	0.0	-0.102
FC_CT_P1/2	19.906/19.303	19.906/19.807	0.0	-0.504
QD_C8_4	7.763/7.712	7.763/7.646	0.0	0.066
QF_C8_4	7.783/7.666	7.783/7.881	0.0	-0.215
QD_15_4	8.598/8.587	6.561/6.551	2.037	2.036
QF_15_4	8.604/8.590	6.617/6.604	1.987	1.986
QD_16_4	9.008/8.994	7.768/7.758	1.24	1.236
QF_16_4	9.020/9.003	8.029/8.010	0.991	0.993
QD_17_4	8.618/8.604	8.611/8.594	0.007	0.01
QF_17_4	8.571/8.555	8.569/8.557	0.002	-0.002
BX_17_4	2.199/2.310	2.341/2.458	-0.142	-0.148
BY_17_4	-1.400/-1.487	-1.168/-1.243	-0.232	-0.244
BY_17_CS	-0.806/-0.820	-0.864/-0.889	0.058	0.069

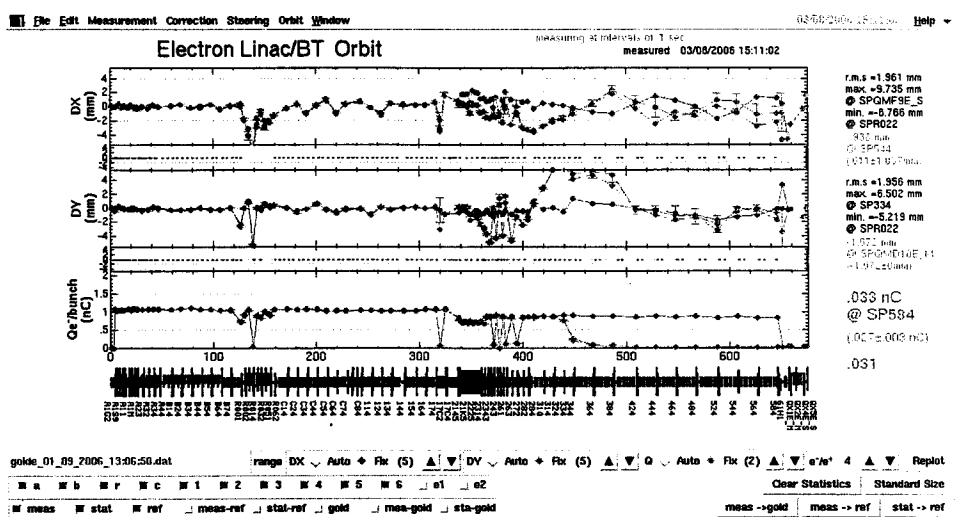
Close

③ target 以降 e⁻ 専用 optics に変更 (KEKB の n 2, 3, 4-sector での sector selective load) (KEKB e⁻ optics N-2 の状態)



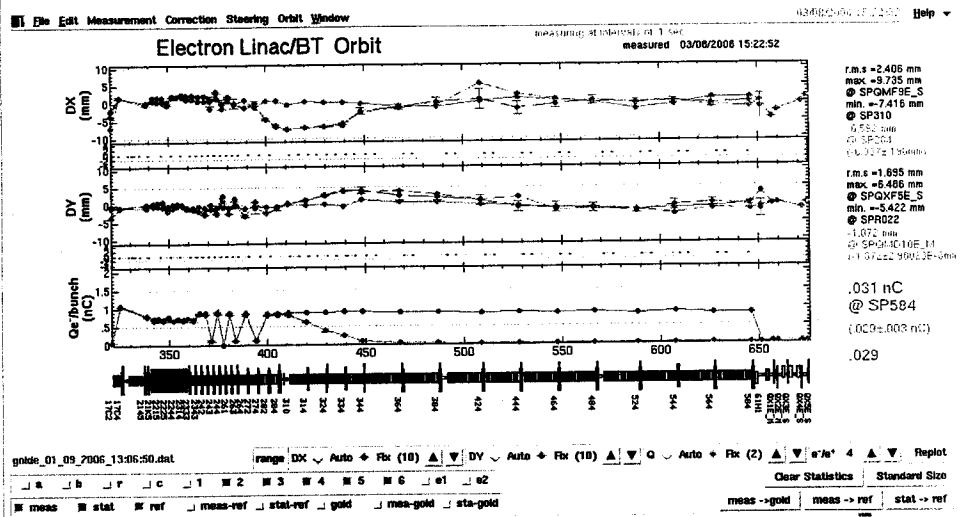
→ 2/18 ref OK
1 = SAVE

KEKB et optics (2,3,4-sectm not)



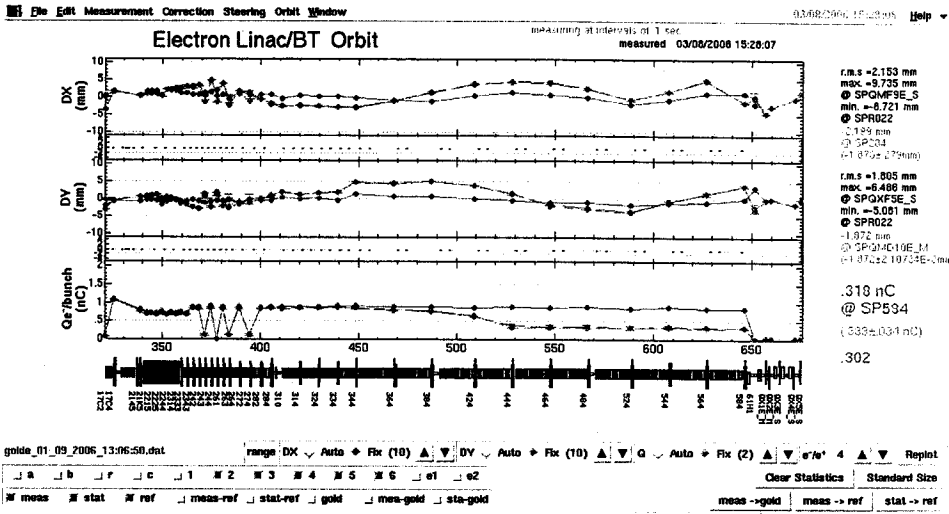
BX-21-155	0.573	→	4.500 A) = KEKB 2,3,4 for 2,3,4
BY "	-0.373	→	4.500 A	
BX-22-32	-1.713	→	0.888 A	
SX-31-1	-3.5	→	0	

2.3.4.5-sectm ^{all} ST zero A set 前

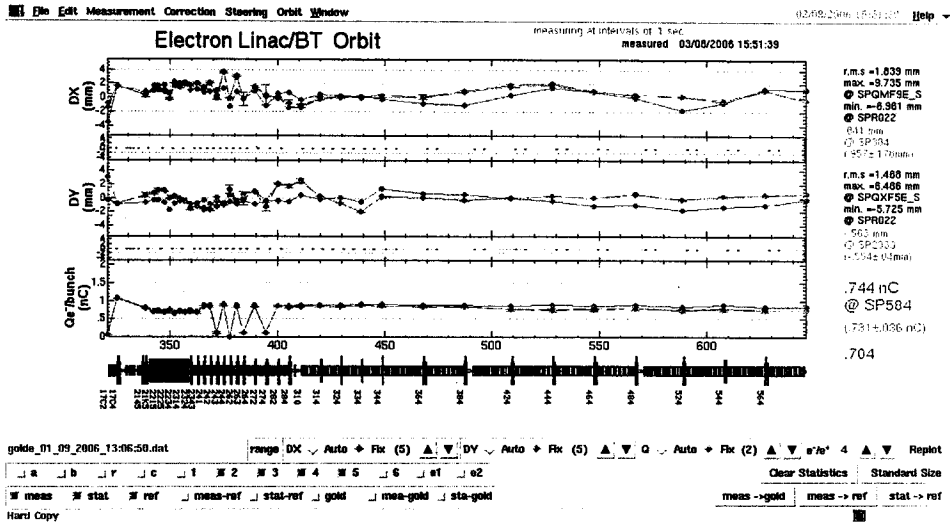


45

ST zero A sec 後

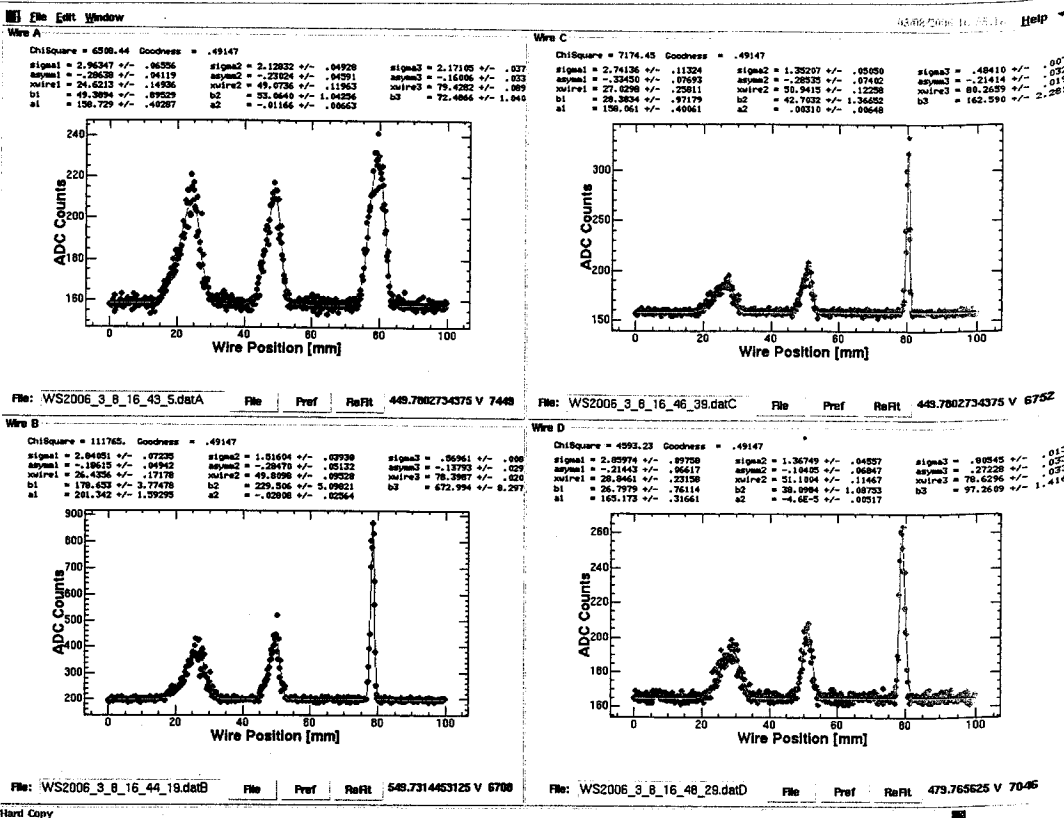


ST manual 調整後 (1)

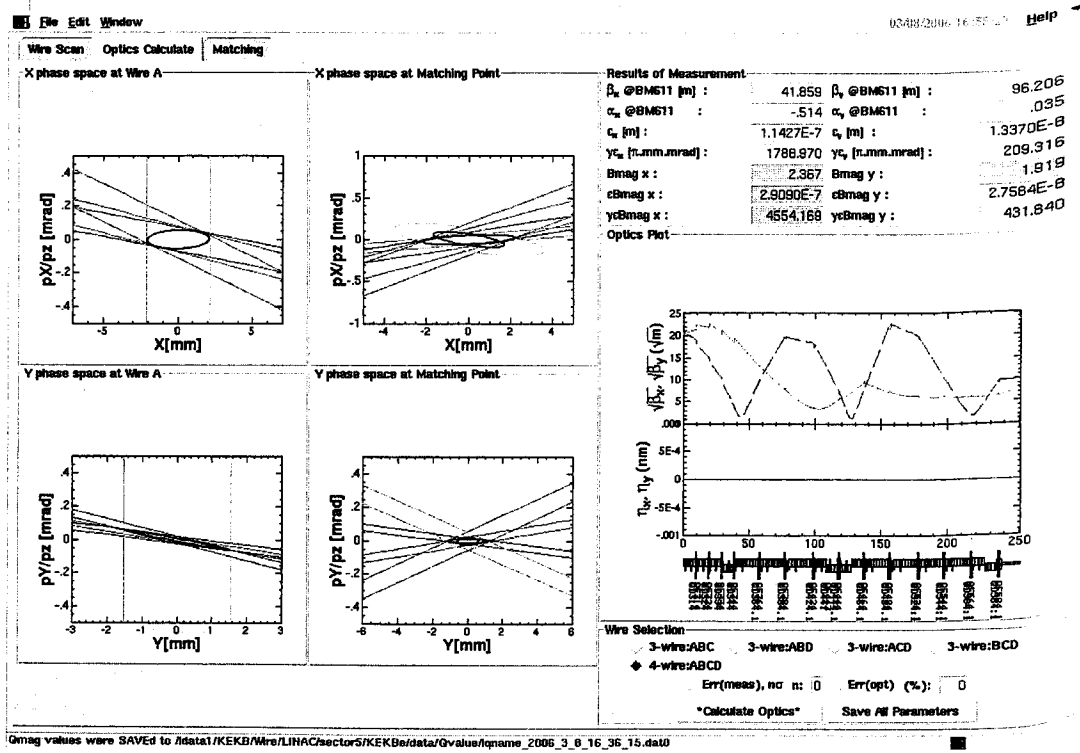


data 4135.all

(OM:Sector) & Set (K7)



Hard Copy



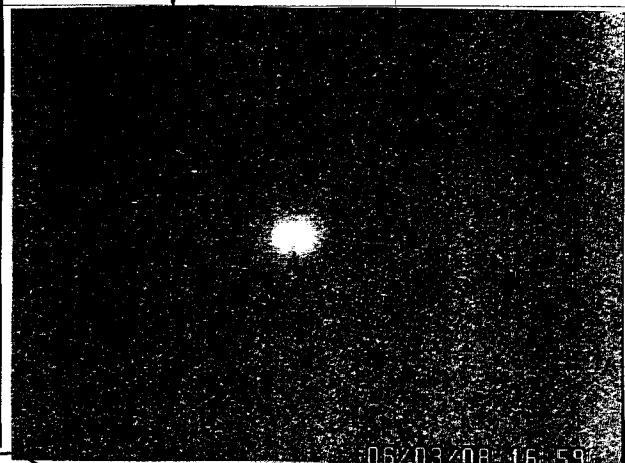
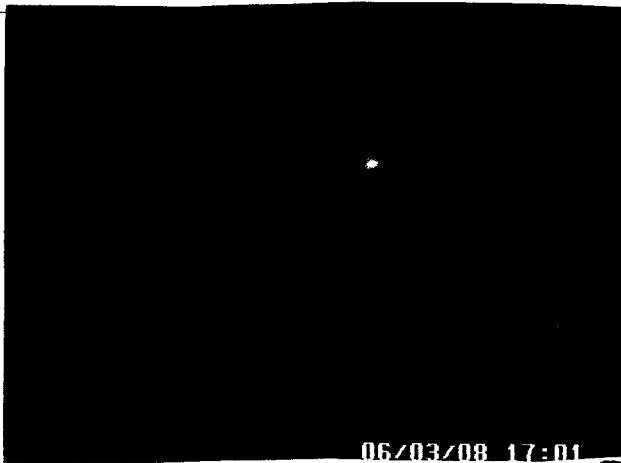
4135.all

→ data 4136.all

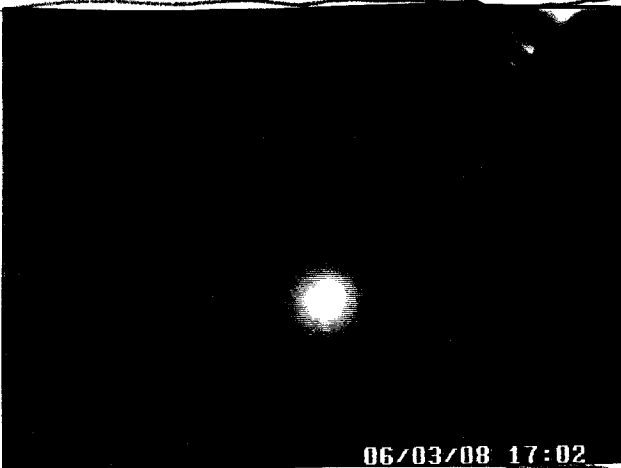
47

21-45

21-K6

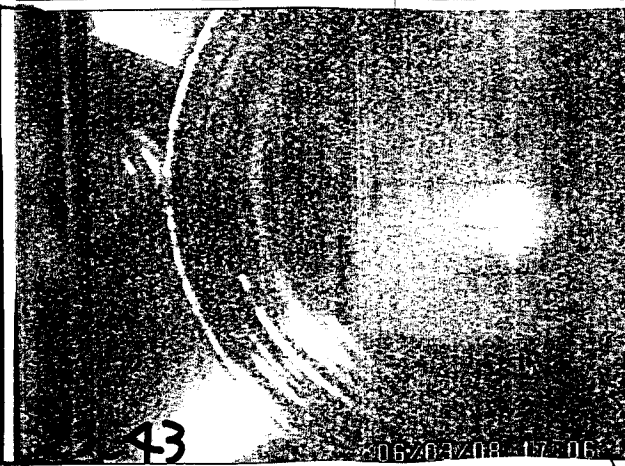


22-44

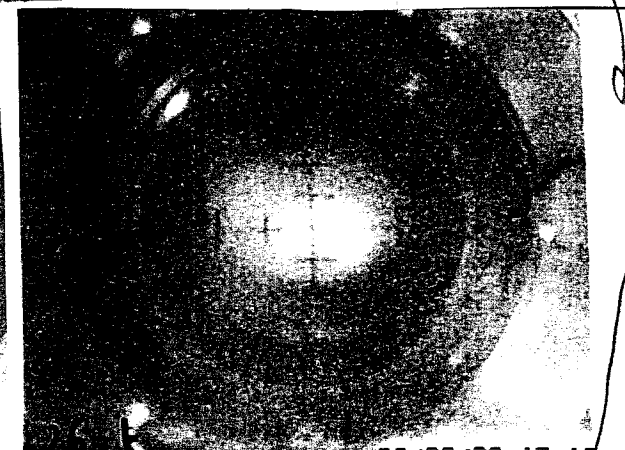


22-25

22-44



27-24



24-1

26-1

23-43

27-4

32-2

48



2

2

37-2

41-2

45-2

53-2

51-2

17:25 ④ 10nC e⁻ を 3 束に分けて通す。

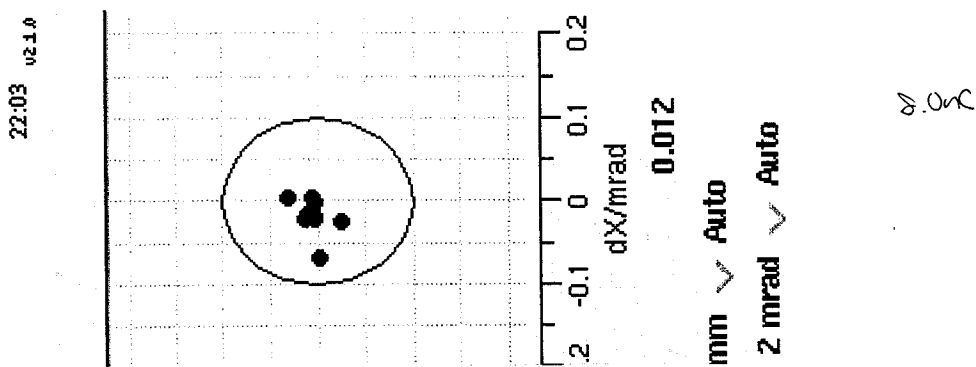
- KEKB e⁻ 1nC 用 (10¹⁰ 束) (target bump あり) data4132.all
- Gun 設定 を 10nC 用 に 変更
- RFI phase. (A ~ 1-sec) を selector selective had (Kbp 用)
- Trigger delay (Kbp 用) 2.11
- Magnet parameter (A, B, R) を Kbp 用 と set
- 電圧 < 1Hz. 1/2 分 = 1
- BPM 用 1 = 17.0 L = 2.11 分 = 1.0

Bea

- ϕ SBLA
- Energy

Cha

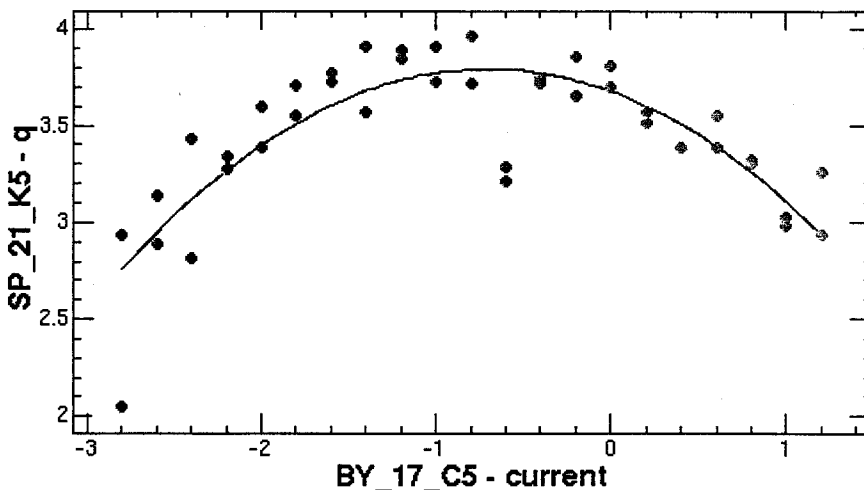
Gun



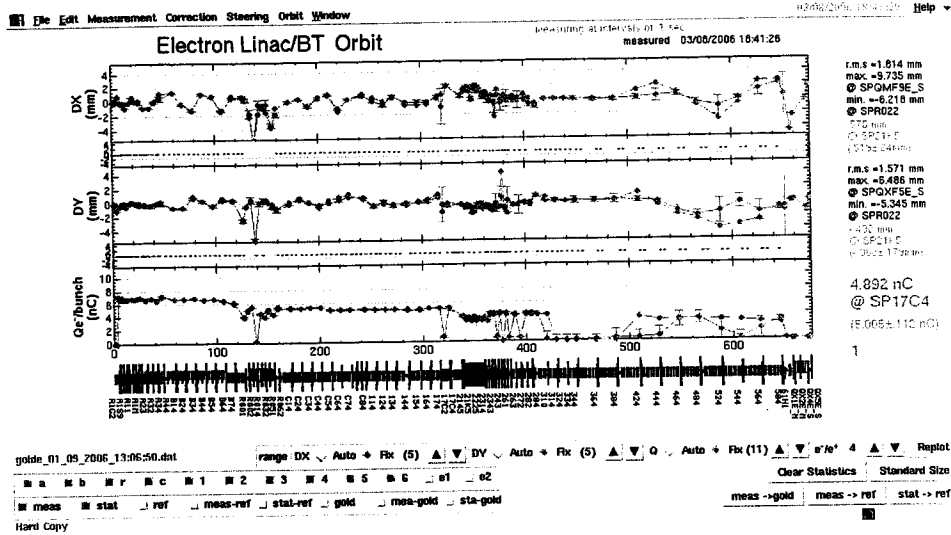
File Edit Window 03/08/2006 18:26:04 Help Help Help Help

ChiSquare = 1.88477 Goodness = .46988

a = -.23633 +/- .02595 b = -.70593 +/- .06015 c = 3.79435 +/- .05088 104 1373 5



Function = (c+(a ((x+(-b))^2)))



data 4137.all

18:50

BT. phase. trigger. Gun 13X-9 & SAVECt.

BT : data 4137.all (anaaki target study (SP17C4 bunch))
 φ : data 1600.phase.all (")
 Trig: data 284.delay.all (")
 Gun: 060308-5nC@SP17C5

poplar		poplar	
BEAM POSITION MONITOR DATA 2006-03-08 18:50:33		BEAM POSITION MONITOR DATA 2006-03-08 18:50:33	
I (nC)	0-----5-----10-----15	I (nC)	0-----1-----2-----3-----4-----5
SP_A1_G2	0.000	SP_21_K5	3.688
SP_A1_S9	0.000	SP_22_15	3.276
SP_A1_B8	7.144	SP_22_26	3.416
SP_A1_C5	6.792	SP_22_34	3.141
SP_A1_1	6.751	SP_22_44	3.470
SP_A1_2	6.715	SP_23_14	3.125
SP_A1_M	6.706	SP_23_24	3.372
SP_A2_1	6.808	SP_23_33	3.190
SP_A2_2	6.817	SP_23_43	3.375
SP_A2_3	6.815	SP_24_1	3.123
SP_A2_4	6.875	SP_24_2	4.013
SP_A3_2	6.592	SP_24_3	4.032
SP_A3_4	6.827	SP_24_4	0.509
SP_A4_2	6.596	SP_26_1	4.175
SP_A4_4	6.968	SP_26_2	0.032
SP_B1_4	6.741	SP_26_3	4.023
SP_B2_4	6.634	SP_26_4	0.568
SP_B3_4	6.810	SP_27_2	3.877
SP_B4_4	6.485	SP_27_4	0.568
SP_B5_4	6.634	SP_28_2	4.009
SP_B6_4	6.361	SP_28_4	4.116
SP_B7_4	6.043	SP_31_0	3.975
SP_R0_01	3.879	SP_31_4	sp v3.0d: Oscilloscope over-range detected
SP_R0_02	4.917	SP_32_4	sp v3.0d: Oscilloscope over-range detected
SP_R0_14	0.262	SP_33_4	sp v3.0d: Oscilloscope over-range detected
SP_R0_22	0.292	SP_34_4	sp v3.0d: Oscilloscope over-range detected
SP_R0_32	4.426	SP_36_4	sp v3.0d: Oscilloscope over-range detected
SP_R0_42	3.922	SP_38_4	sp v3.0d: Oscilloscope over-range detected
SP_R0_51	4.810	SP_42_4	sp v3.0d: Oscilloscope over-range detected
SP_R0_62	4.269	SP_44_4	sp v3.0d: Oscilloscope over-range detected
SP_R0_63	5.018	SP_46_4	3.312
SP_C1_4	5.189	SP_48_4	3.321
SP_C2_4	5.180	SP_52_4	3.209
SP_C3_4	5.254	SP_54_4	sp v3.0d: Oscilloscope over-range detected
SP_C4_4	5.268	SP_56_4	sp v3.0d: Oscilloscope over-range detected
SP_C5_4	4.857	SP_58_4	2.865
SP_C6_4	4.925	SP_61_3	0.112
SP_C7_4	4.862	SP_61_6	2.850
SP_C8_4	4.866	SP_61_8	3.307
SP_11_4	4.864	SP_61_D1	3.154
SP_12_4	4.939	SP_61_O2	2.758
SP_13_4	4.870	SP_61_H1	0.065
SP_14_4	4.895	SP_61_F1	0.032
SP_15_4	4.827	SP_61_F4	0.148
SP_16_4	5.023	SP_61_F5	0.113
SP_17_4	4.988		
SP_17_C2	0.638		
SP_17_C4	4.978		