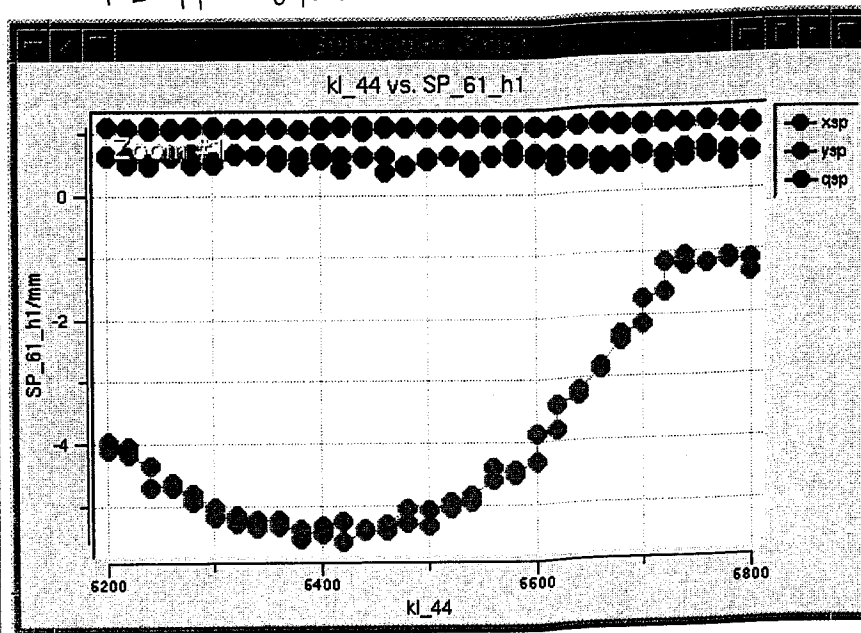


S = 42.0 kV, Pf = 36.00 MW, 現場 Pf = 45.6 ~ 46.1 MW → 計算 151 MeV
 → 154 MeV
 KL-44 6420

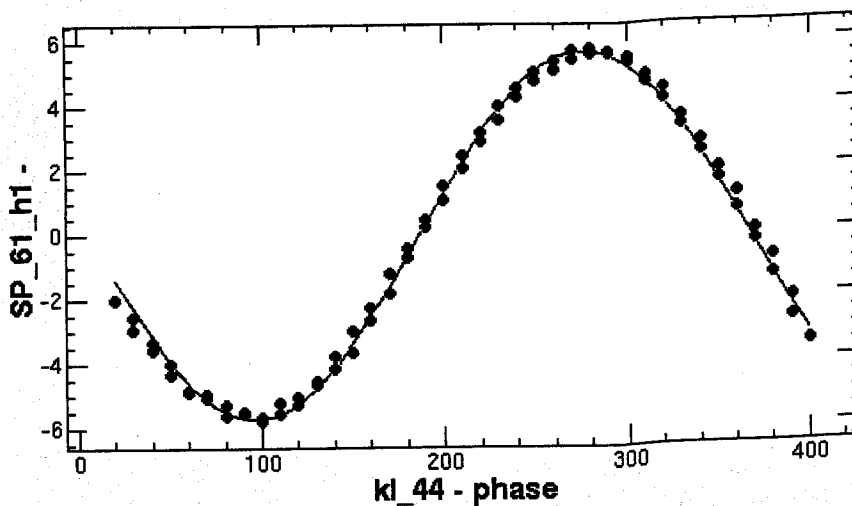


le Edit Window

12/12/2006 14:02:32 Help ▾

are = 5.27620 Goodness = .47828
 70948 +/- .04367 c = 96.1834 +/- .41861 d = -.00815 +/- .03020

$$E_{gain} = 8 \times \frac{5.709}{307.5} = 148.5 \text{ [MeV]}$$



$$\frac{148.5}{0.962 \times 4} = 38.59 \text{ MW/M}$$

$$\frac{52.48}{3} \times 55 = 962.13331$$

ion = (d+(a Cos[({.0174532925 (-180+x+(-c))})]))

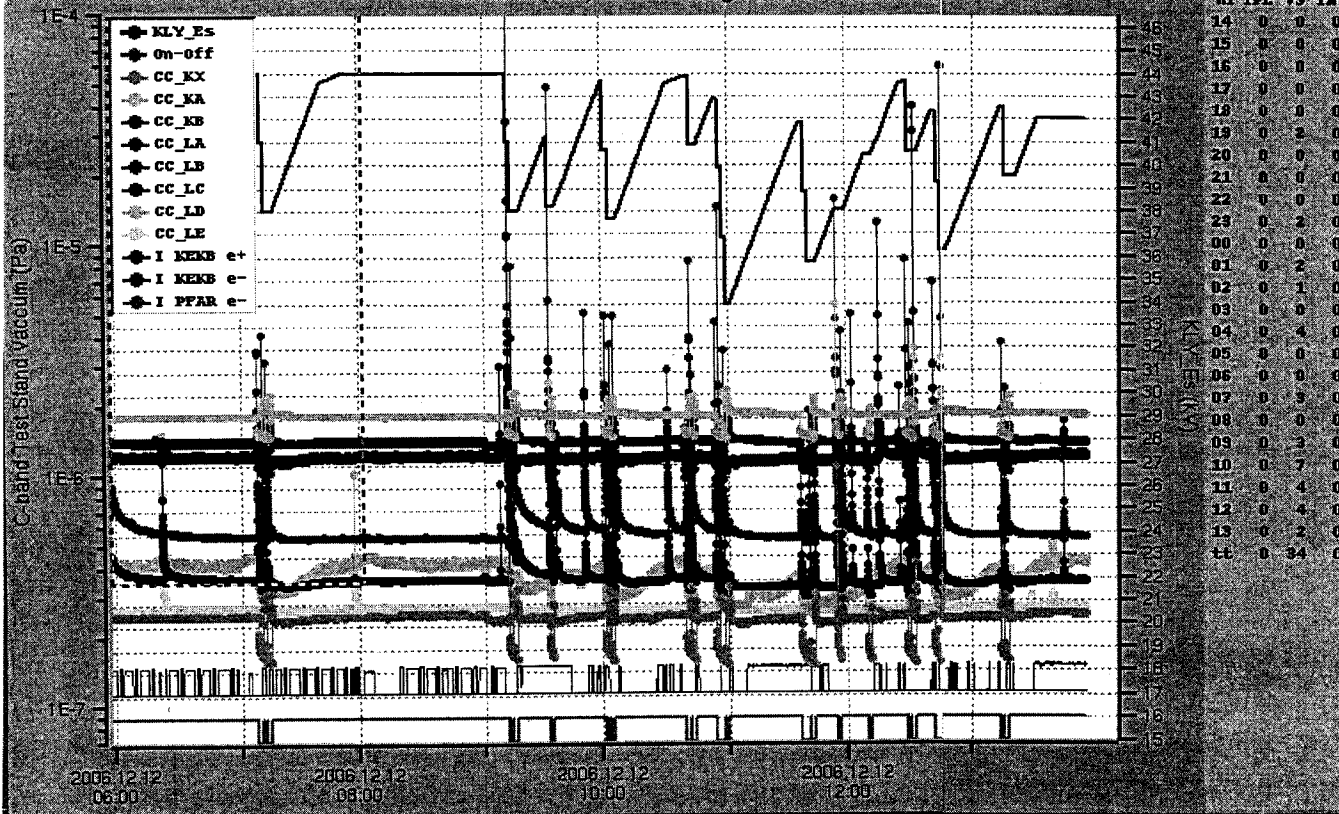
kamitan's X desktop (avocado77)

2006.12.12-13:58:18 Taking data !! PlotSpan: 10mins 1hour 8hours 1day Opt Exit

Es: 42.020 Power: 37.0 Pr: 35.9 Pb: 0.0 VSWR: 1.00 FCS: Normal Es-max: 44.060 history

| | | | | |
|---|---------------------|----------------|----------------|---|
| LV: <input type="checkbox"/> OK <input type="checkbox"/> ON | Auto-Es-Up OFF | IP_KX 9.46e-07 | CC_KX 2.43e-07 | Recent Trips: |
| HV: <input type="checkbox"/> OK <input type="checkbox"/> ON | Auto-RF-ON ON | IP_KA 2.87e-06 | CC_KA 1.79e-06 | 12/12-11:39 VSWR= 2.14 :Pf= 0.0 :Pb= 0.0 @Es=41.800 |
| TG: <input type="checkbox"/> OK <input type="checkbox"/> ON | FailCount 1032 | IP_KB 1.65e-06 | CC_KB 1.37e-06 | 12/12-11:41 VSWR= 1.46 :Pf= 0.0 :Pb= 0.0 @Es=38.800 |
| RF: <input type="checkbox"/> OK <input type="checkbox"/> ON | HaltTime(sec) 11194 | IP_LA 8.79e-07 | CC_LA 5.27e-07 | 12/12-11:54 VSWR= 1.64 :Pf= 0.0 :Pb= 0.0 @Es=38.000 |
| Beam Status | KeepTime(min) 1032 | IP_LB 1.45e-06 | CC_LB 1.20e-06 | 12/12-12:09 VSWR= 1.72 :Pf= 0.0 :Pb= 0.0 @Es=40.440 |
| KEKB e- <input type="checkbox"/> ON(A) | StepUp(sec) 39153 | IP_LC 4.44e-07 | CC_LC 3.39e-07 | 12/12-12:28 VSWR= 1.39 :Pf=39.1 :Pb= 0.0 @Es=43.600 |
| 1.063 0.009 nC | -dV(volt) 1032 | IP_LD 4.69e-07 | CC_LD 4.15e-07 | 12/12-12:30 VSWR= 1.84 :Pf=39.7 :Pb= 5.6 @Es=43.600 |
| | Goal-Es(kV) 40153 | IP_LE 9.93e-07 | CC_LE 2.62e-07 | 12/12-12:42 VSWR= 1.42 :Pf= 0.0 :Pb= 0.0 @Es=42.240 |
| | | | | 12/12-13:16 VSWR= 1.59 :Pf=37.0 :Pb= 3.0 @Es=42.520 |
| | | | | 12/12-13:18 VSWR= 1.92 :Pf=37.7 :Pb= 6.2 @Es=42.540 |

C-band unit (4-4) Conditioning status



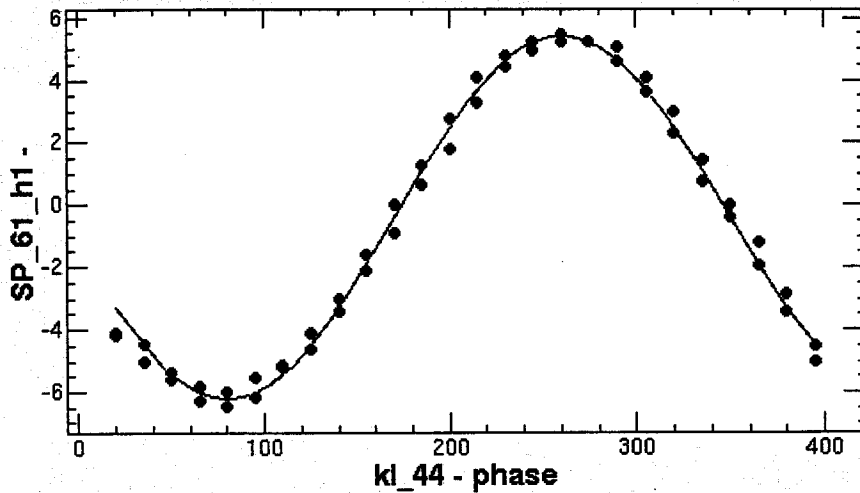
$E_s = 44.0 \text{ kV}$, $P_f = 39.6 \text{ MW}$, $P_f = 50.6 \sim 51.1 \text{ MW}$ (現場) \rightarrow 計算 158 MeV
 $\rightarrow 159 \text{ MeV}$

le Edit Window 12/12/2006 14:38:50
 iare = 6.29249 Goodness = .47313
 .82305 +/- .07128 c = 440.014 +/- .68898 d = -.40242 +/- .04997

$$E_{\text{gain}} = 8 \times \frac{5.823}{307.5} = 151.5 \text{ MeV}$$

39.37 MW/m

KI-44 6420



ion = (d+(a Cos[({.0174532925 (-180+x+(-c))}))])

dit Window 12/12/2006 14:58:48 5:13
 1.20237 Goodness = .46865
 +/- .04169 c = 1336.83 +/- .40746 d = -.51392 +/- .02942 02636

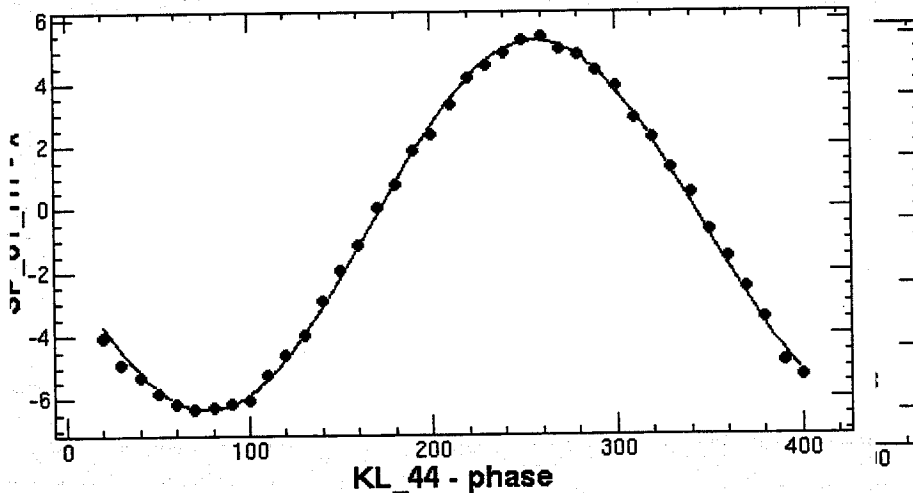
$$E_{\text{gain}} = 8 \times \frac{5.809}{307.5} = 151.1 \text{ MeV}$$

data点 8点だけ Fit
 した場合、

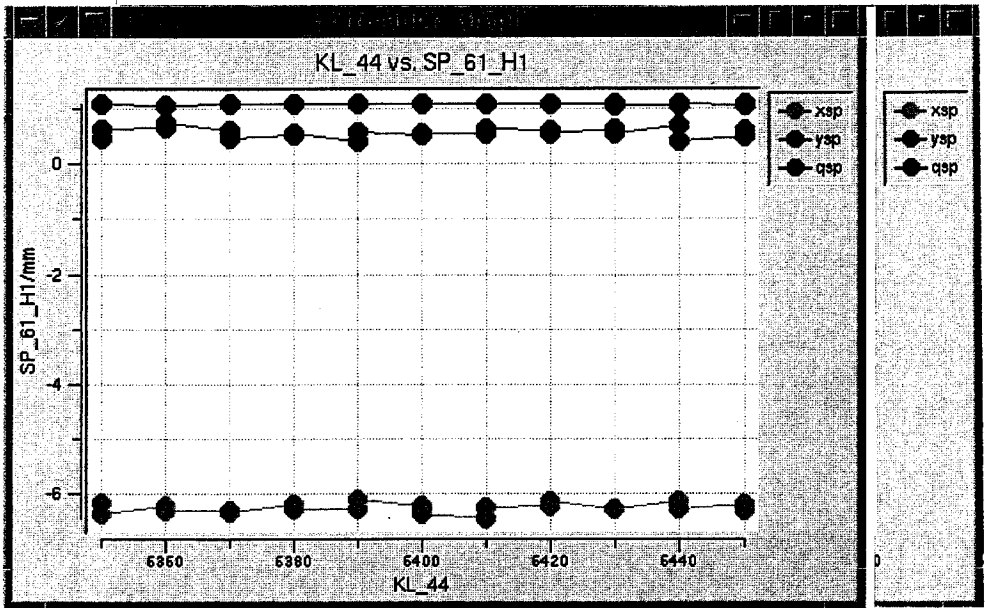
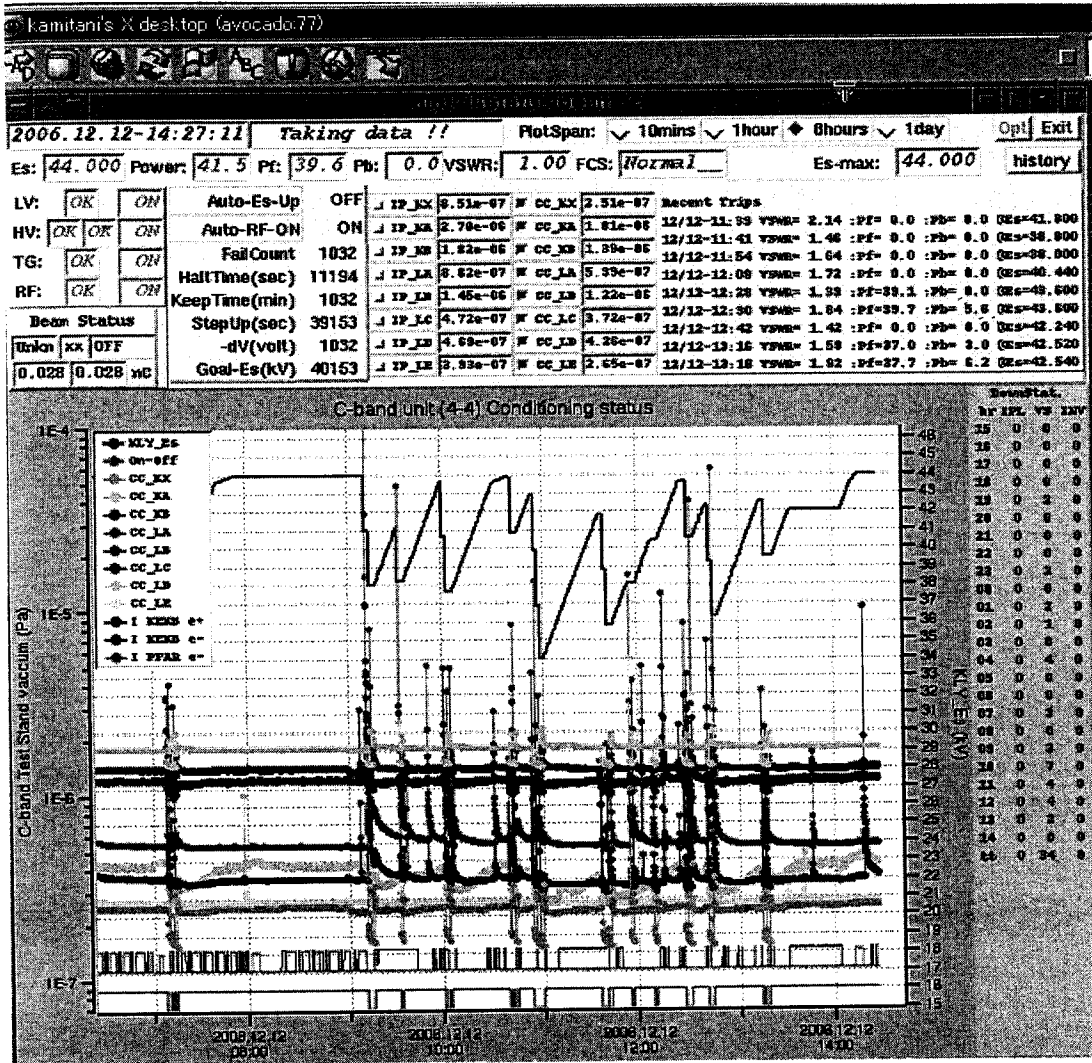
$$E_{\text{gain}} = 8 \times \frac{5.837}{307.5} = 151.8 \text{ MeV}$$

39.45 MW/m

KI-44 6410

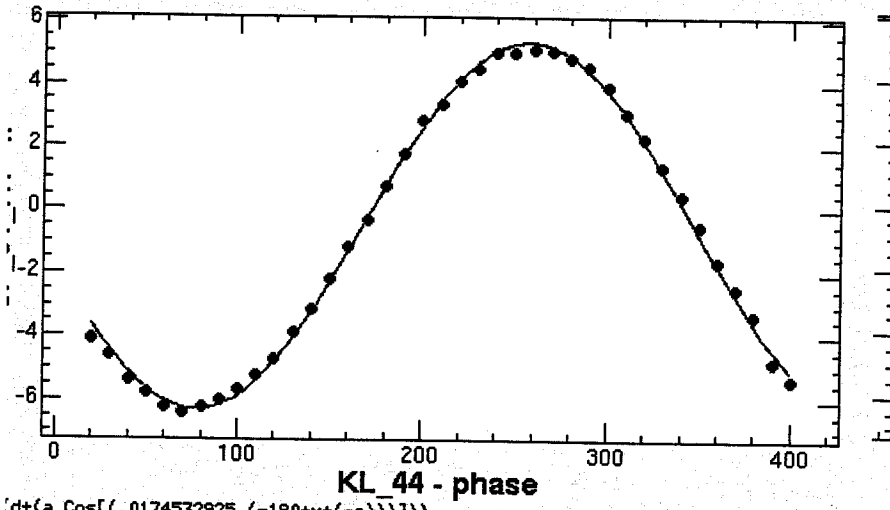


(d+(a Cos[({.0174532925 (-180+x+(-c))}))])



KL-44
6410

1.35316 Goodness = .46865
 +/- .04426 c = 437.360 +/- .43382 d = -.49635 +/- .03121 760



$$E_{\text{gain}} = 8 \times \frac{5.827}{307.5}$$

$$= 151.5 \text{ MeV}$$

data点E 1点 だけのFit
 (E=場合、

$$E_{\text{gain}} = 8 \times \frac{5.813}{307.5}$$

$$= 151.2 \text{ MeV}$$

39.29 MeV/m

106

12/12

Multi Energy Study for KEKB e^-

菊池 大西 飯田

17:25

[目的]

1 mC の PF e^- を 減速 phase で 1 作してKEKB e^- に 入射する。

(HER)

1. ECS を 2.5 GeV に set し Energy を 確認する

KLY 3-1 を Stand by にする

SB 3, 4, 5 $\Delta\phi = +13^\circ$

2.

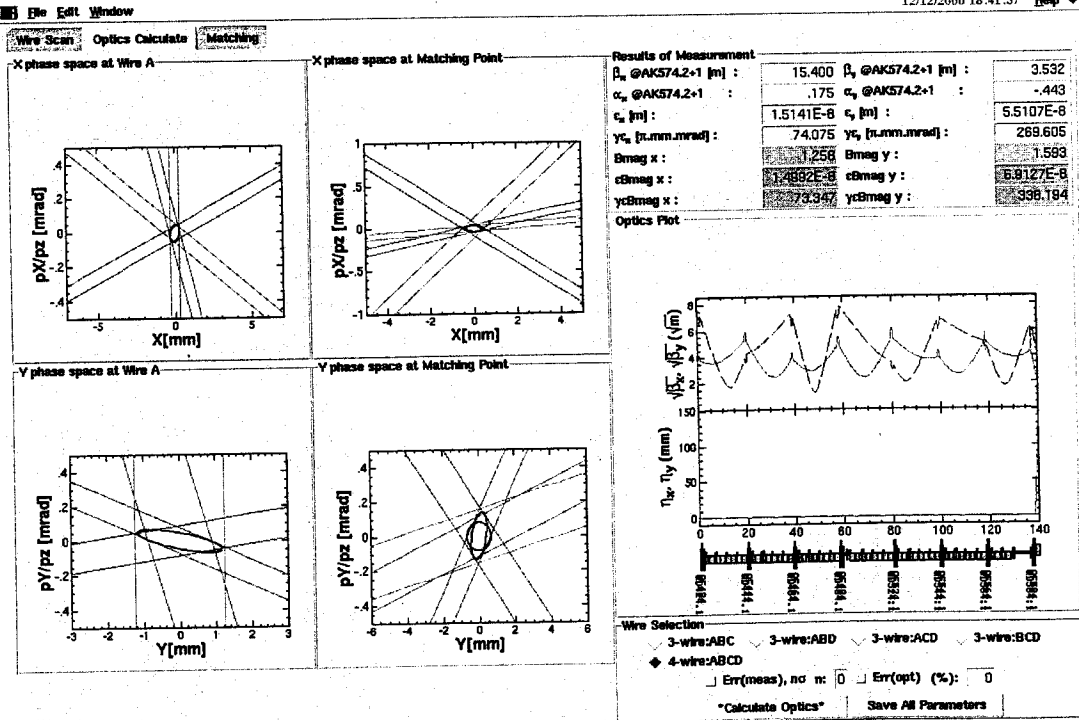
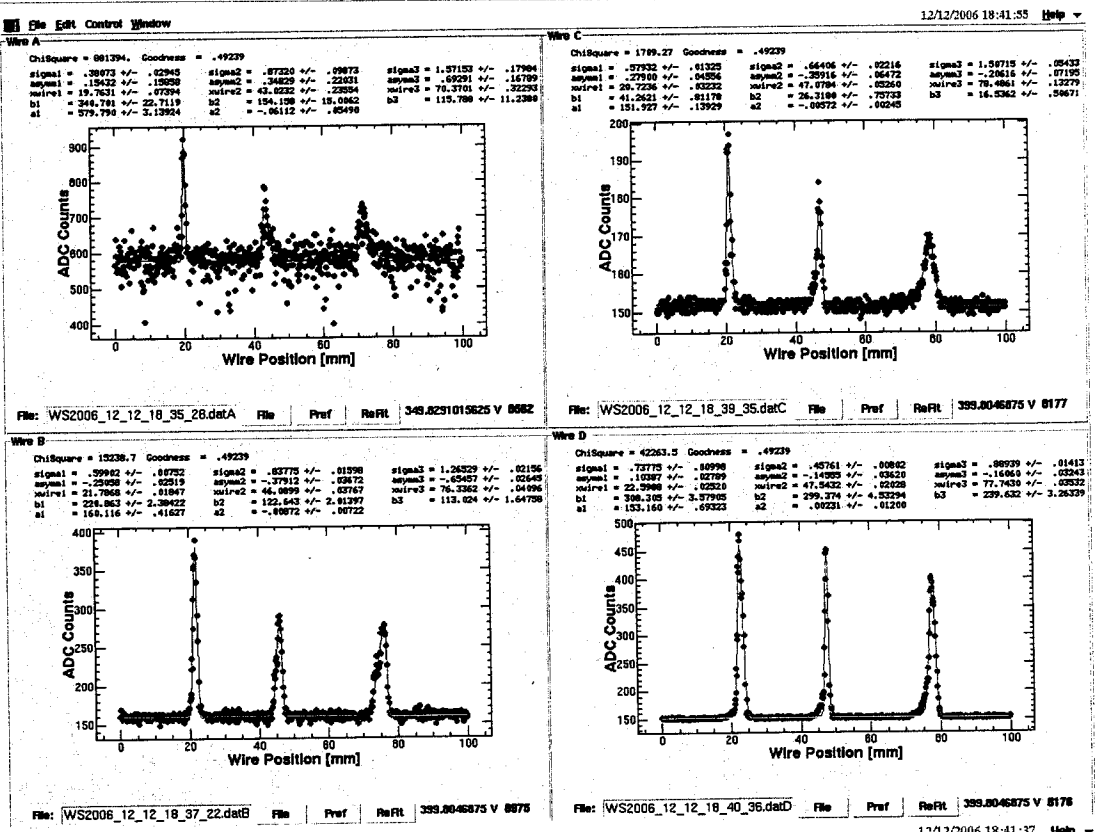
• 3, 4, 5 セクタ - 0.5 減速位相

ECS 初期化 パネル
(Ecm) $E_{set} = \underline{3.308}$ GeV である。 $E_{beam} = 2.5$ GeV になる。③ ~~3~~ セクタ 以降の Q mag を set した。

3

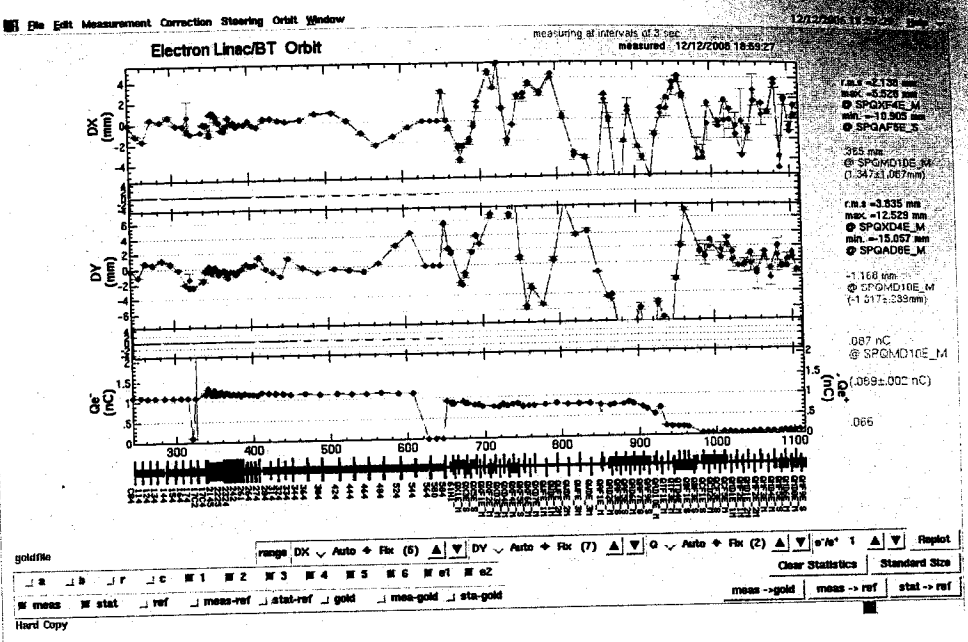
Matching 値に

PH 2.5 GeV 1nC Beam

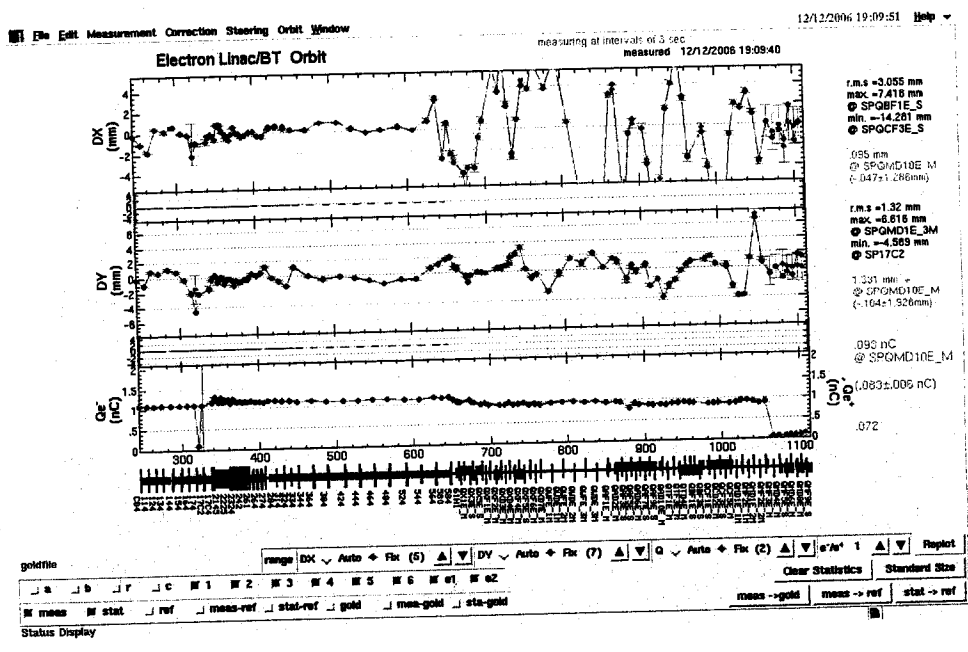


Qmag values were SAVED to /data1/KEKB/Wire/LINAC/sectors/PP/data/qvalue/qname 2006 12 12 18 23 48.dat0

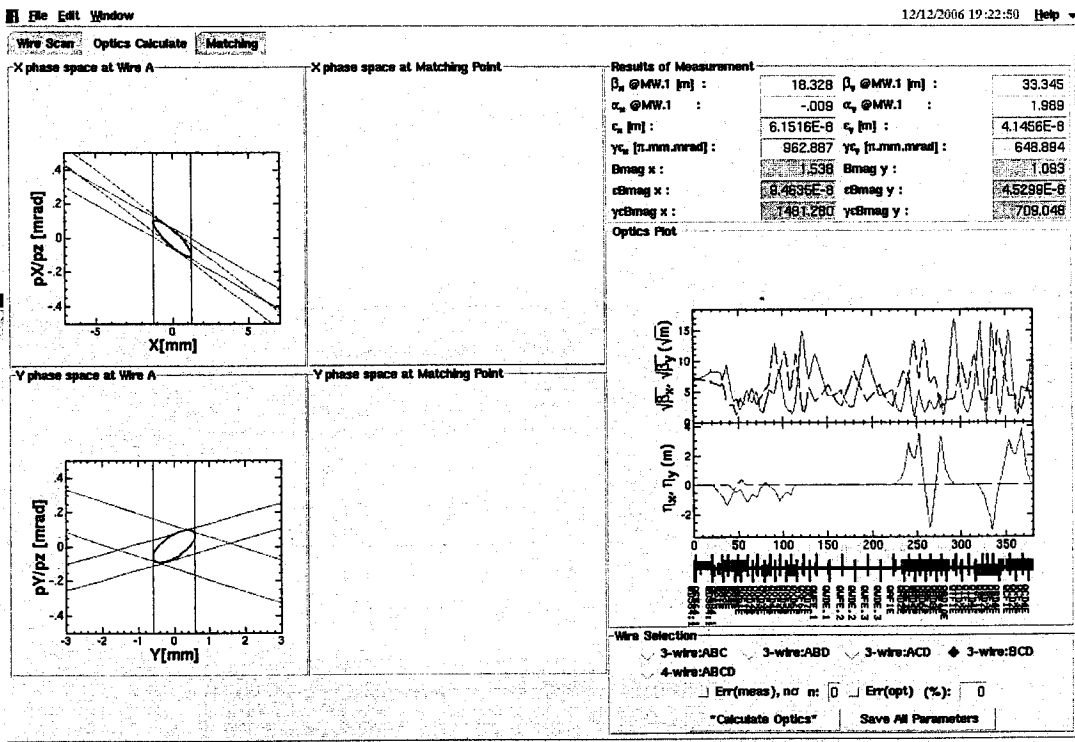
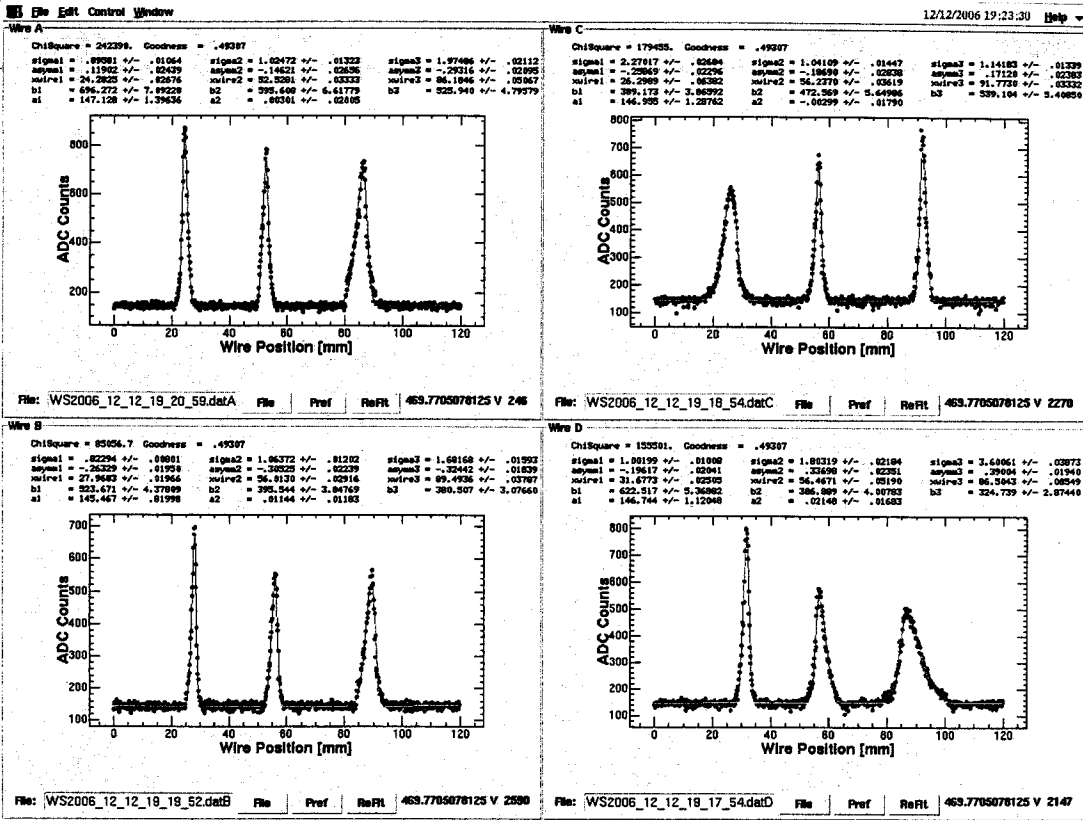
. 8GeV に BTe を通す



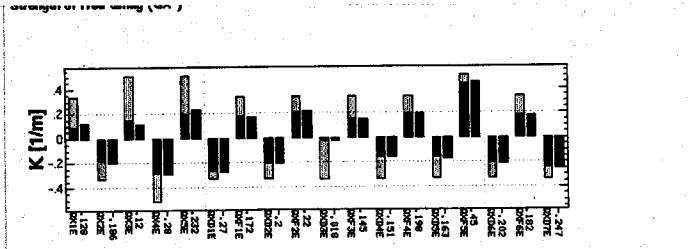
. LINAC 軌道を補正完了



"BTe|2_12_2006_19:12:53" = steering to 0.00e
19:23:23" = Q magnet & save



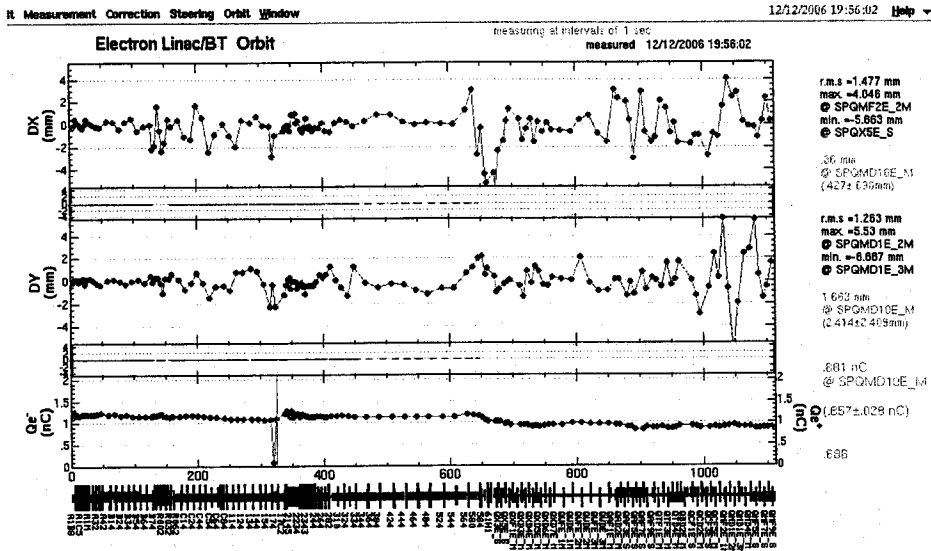
Omag values were SAVED to #data1/KEKB/Wire/BTm/electron/Data/Gvalue/qname_2006_12_19_14_12.dat0



KEKB-HERへ入射. 4.0 mA/s @ 50Hz.

(軽く Septum 調整したのちに入射)

Energy を調整して, BT 第1 Arc の軌道を補正した.



20:35 @ C277-p-5. Matching (to Optics & load

• 8GeV.

Command Set Magnet Plot SAD Matching Window 12/12/2006 20:43:58
C-5 sector (Multi Mode)

2used Acc

