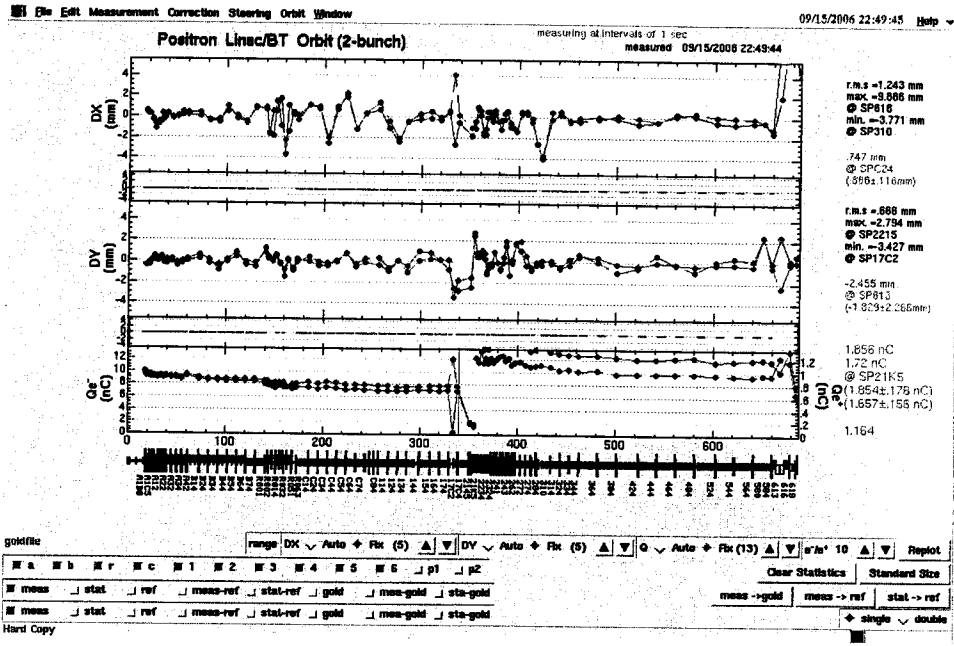


8/R



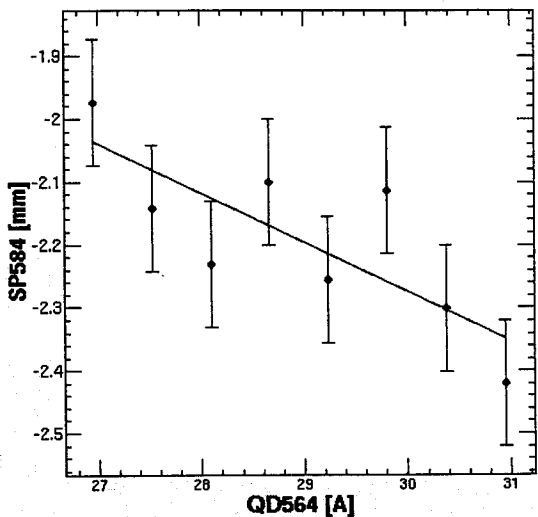
ECS
ECS 378
11

2006 10/31 (X) SP58-0 Quad BPM 5/7, 2/77

10=00 2/2=00 before the 2nd sp of 0a Quad BPM 3/7=2 4/7 12/7 2/7 2/7

File Edit Window

10/31/2006 11:59:58 Help



Condition

BPM to be Calibrated : SP580

Direction : Horizontal Vertical

Used Components :

BPM : SP580

Steering : {{"SX553",1}}

from : -2

to : 0

number : 4

Q magnet: QD564

from : -2

to : 2

number : 8

next remem. save

GO STOP READ

Display

BPM : SP584

Steering step : 1

Result

When the beam is at the Q center :

BPM reading [mm]: 2.6226

error [mm]: .91864

Last BPM taken into account : SP584

rel. curr. thresh. : .7

Fit Chk I Save

Help

1}}

-2

0

4

-2

2

8

ave

ID

0

4

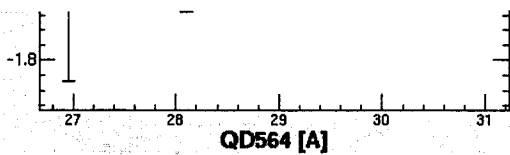
ep :

-2

2

8

Main Application Area



When the beam is at the Q center :

BPM reading [mm]: 2.6226

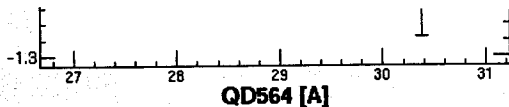
error [mm]: .91864

Last BPM taken into account : SP584

rel. curr. thresh. : .7

Fit Chk I Save

Hard Copy



error [mm]: 2.6226

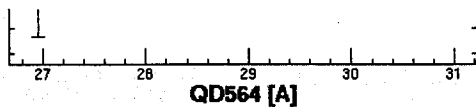
.91864

Last BPM taken into account : SP584

rel. curr. thresh. : .7

Fit Chk I Save

Hard Copy



error [mm]:

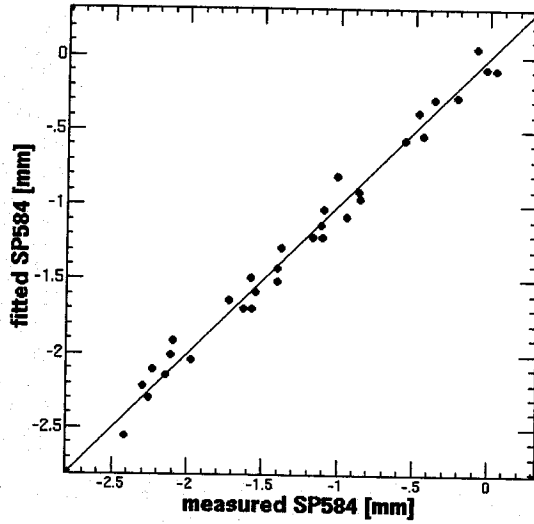
Last BPM taken into account : SP584

rel. curr. thresh. :

Fit Chk I S

Hard Copy

residual = .106 mm



Hard Copy

Condition
 BPM to be Calibrated : SP580
 Direction : Horizontal Vertical

Used Components :
 BPM : SP580
 Steering : {{"SX559",1}}
 from : -2
 to : 0
 number : 4
 Q magnet: QD564
 from : -2
 to : 2
 number : 8

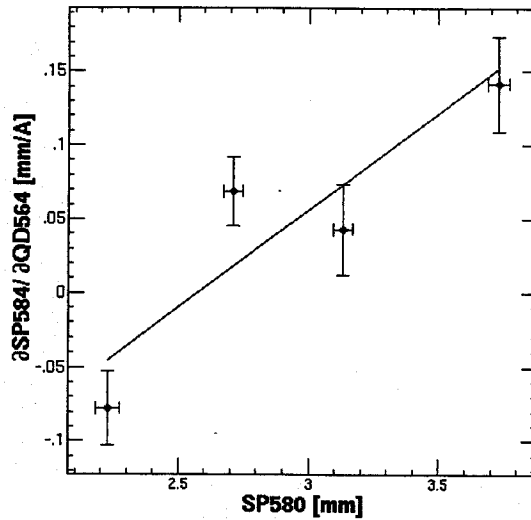
next remem. save

GO STOP READ

Display
 BPM : SP584 Steering step : Fit0

Result
 When the beam is at the Q center :
 BPM reading [mm]: 2.6226
 error [mm]: .91864
 Last BPM taken into account : SP584
 rel. curr. thresh. : .7

Fit Chk I Save



Hard Copy

Condition
 BPM to be Calibrated : SP580
 Direction : Horizontal Vertical

Used Components :
 BPM : SP580
 Steering : {{"SX559",1}}
 from : -2
 to : 0
 number : 4
 Q magnet: QD564
 from : -2
 to : 2
 number : 8

next remem. save

GO STOP READ

Display
 BPM : SP584 Steering step : Fit

Result
 When the beam is at the Q center :
 BPM reading [mm]: 2.6226
 error [mm]: .91864
 Last BPM taken into account : SP584
 rel. curr. thresh. : .7

Fit Chk I Save

File Edit Window

10/31/2006

Condition
 BPM to be Calibrated :
 SP580
 Direction :

File Edit Window

10/31/2006 11:50:00 Help

Condition
 BPM to be Calibrated :
 SP580
 Direction :
 Horizontal Vertical
 Used Components :

File Edit Window

10/31/2006 11:50:07 Help

Condition
 BPM to be Calibrated :
 SP580
 Direction :

3,1}}
 -1
 3
 4
 -2
 2
 3,1}}
 save
 LEAD
 step :
 -1
 2
 enter :
 -21566
 .0286
 :
 .7
 Save

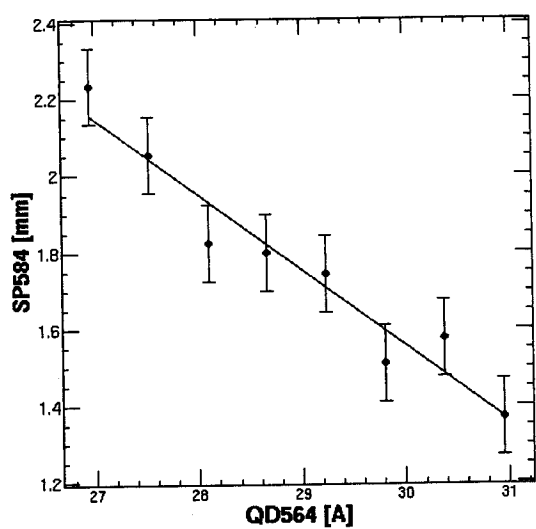
File Edit Window

10/31/2006 11:50:14 Help

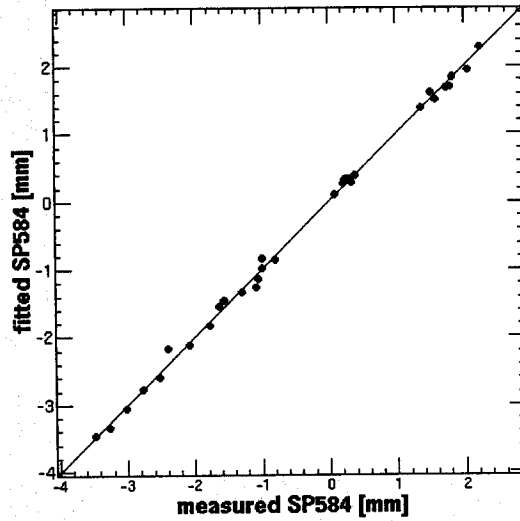
Condition
 BPM to be Calibrated :
 SP580
 Direction :
 Horizontal Vertical
 Used Components :
 BPM : SP580
 Steering : {{("SY553",1}}
 from -1
 to 3
 number 4
 Q magnet: QD564
 from -2
 to 2
 number 2
 next remem. save
 GO STOP READ

Display
 BPM : SP584
 Steering step : 4

Result
 When the beam is at the Q center :
 BPM reading [mm]: -21566
 error [mm]: .0286
 Last BPM taken into account :
 SP584
 rel. curr. thresh. : .7
 Fit Chk I Save



residual = .089 mm



Condition
BPM to be Calibrated :
SP580

Direction :
 Horizontal Vertical

Used Components :

BPM : SP580
Steering : {{("SY553",1)}}
from -1
to 3
number 4

Q magnet: QD564
from -2
to 2
number 4

next remem. save

GO STOP READ

Display
BPM : SP584 Steering step : Fit

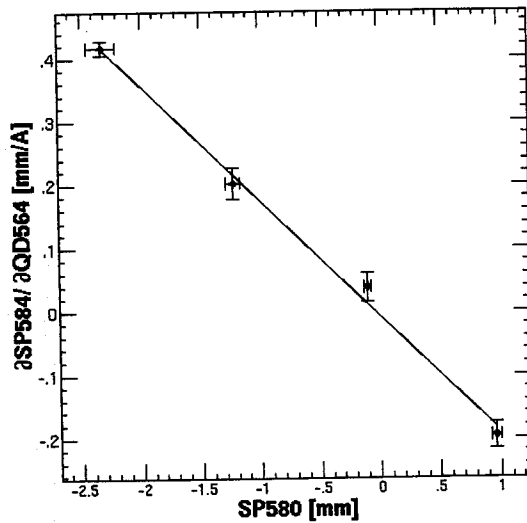
Result
When the beam is at the Q center :
BPM reading [mm]: -21566
error [mm]: .0286
Last BPM taken into account :
SP584
rel. curr. thresh. : .7

Fit Chk I Save

Hard Copy

File Edit Window

10/31/2006 11:50:24 Help



Condition
BPM to be Calibrated :
SP580

Direction :
 Horizontal Vertical

Used Components :

BPM : SP580
Steering : {{("SY553",1)}}
from -1
to 3
number 4

Q magnet: QD564
from -2
to 2
number 4

next remem. save

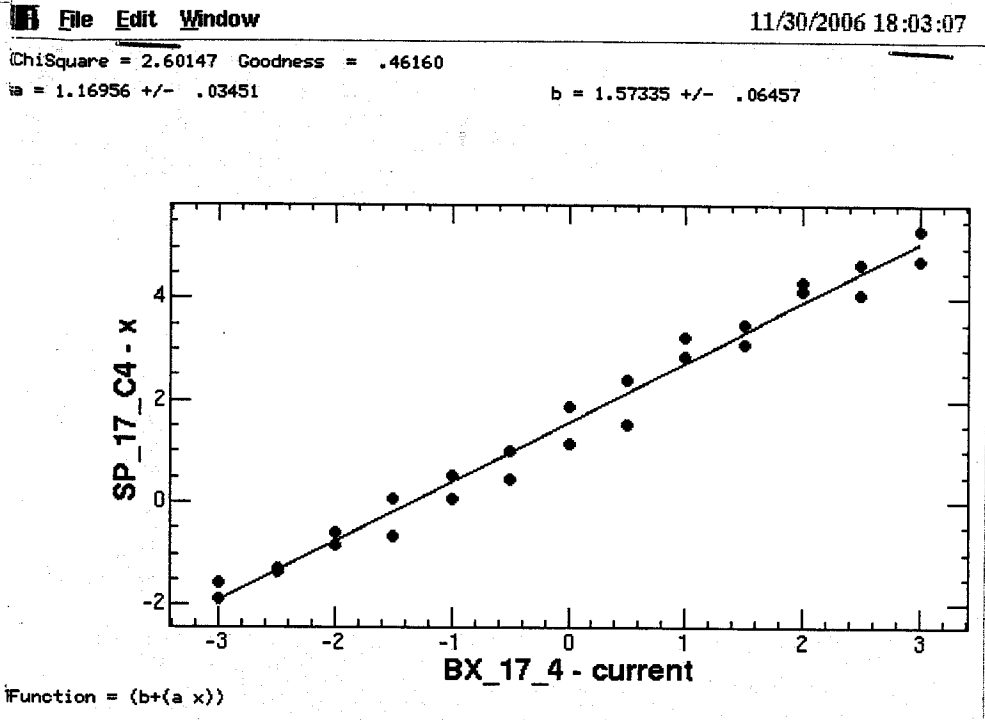
GO STOP READ

Display
BPM : SP584 Steering step : Fit

Result
When the beam is at the Q center :
BPM reading [mm]: -21566
error [mm]: .0286
Last BPM taken into account :
SP584
rel. curr. thresh. : .7

Fit Chk I Save

Nov.30.2006 (木)



et Target 2 の Position と Angle の 固定 12 方向

tkfb-orbit [XY]pk (2 軸 計 測)

B[XY]-17-4 ⇒ SP-17-C4

の 代 換 12

tkfb-orbit [XY]pk 正 作 成

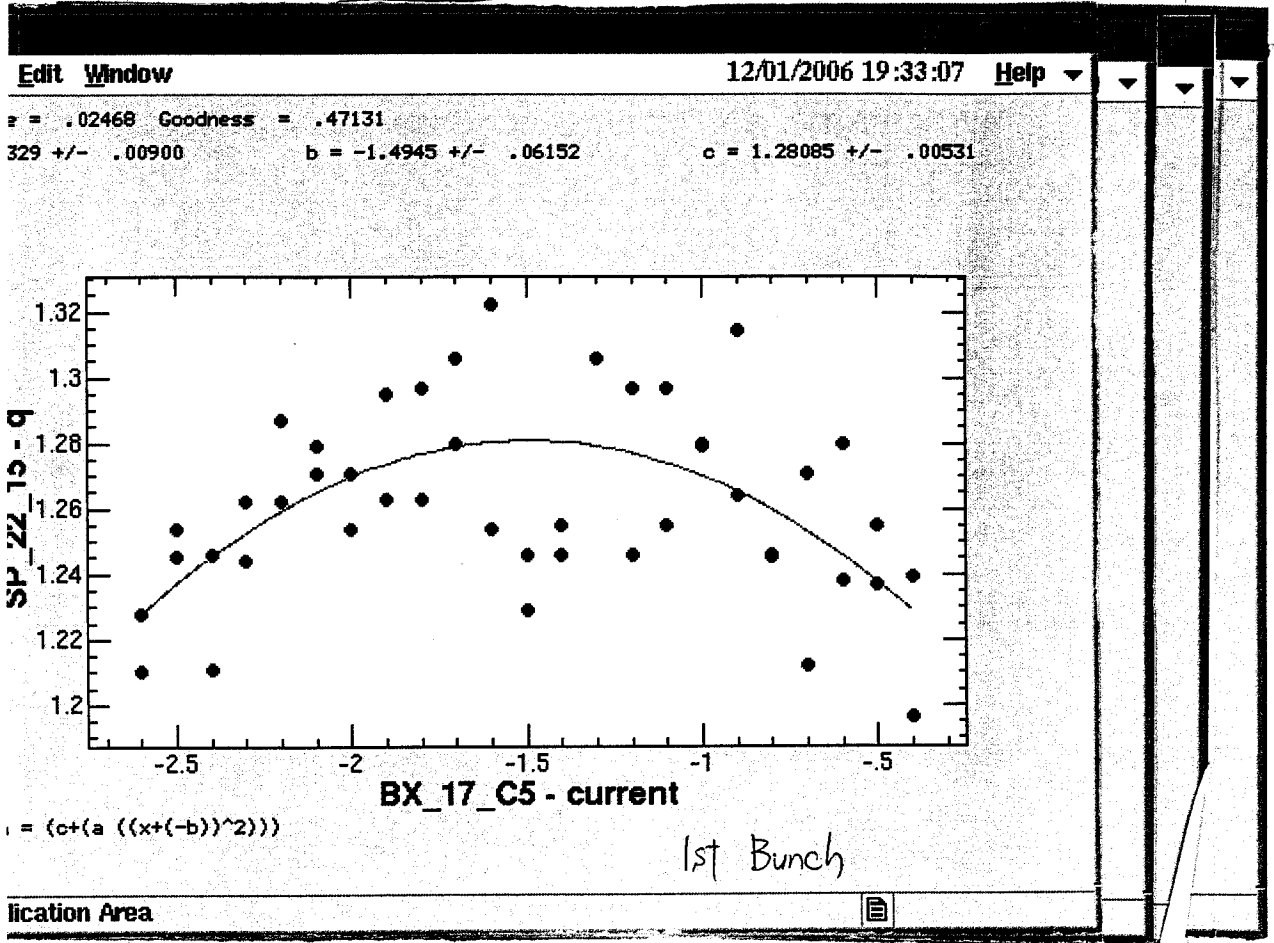
S[XY]-16-3 ⇒ SP-17-4

B[XY]-17-4 ⇒ SP-17-C4

(menu 中 自 動 立 止 時 12 軸 登 録 済)

2006.12.1

--- ~~SP BX17_C5~~ BX/Y-17-C5 Simple Correlation Plot 実施 (vs SP-22-15)



22:30

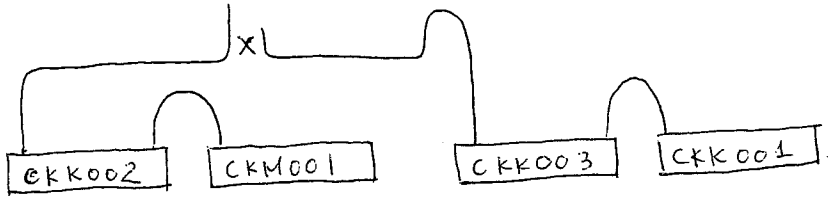
IX, IY e1 Orbit Feedback にて offset 1, 2 の値を 1 から

23:20

0, -1, 1 に ~~変化~~ 設定したが、キラー量が増加するポイントが
 なかったため、元値(0) に戻した。

2006/12/12 (木) C-band 4-4 unit E-4 加速試験

9:00 ~



計算で、加速ゲイン $\approx 22.36 \sqrt{Pf}$

tosh

trig get

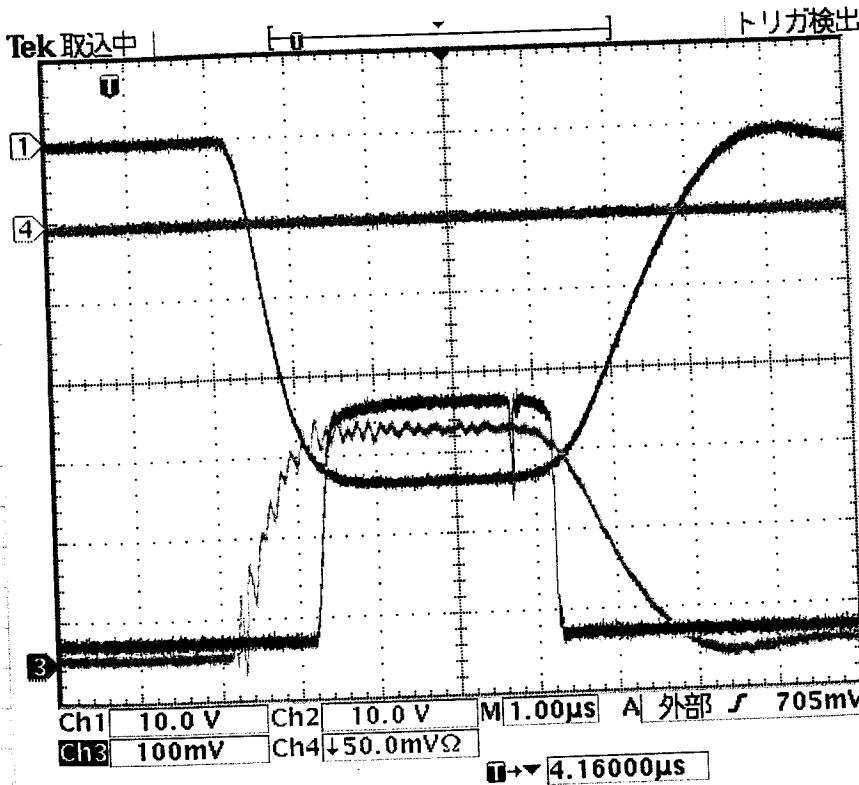
各パラメータ

K1-44	6280 ns	→	6614 ns
K1-44-phase	2750	→	2300
K1-44-delay	2500	→	2500
K1-44-width	3276	→	2836
-sb	177	→	28

~~2006/9/20の107x-9に出力~~

2006/9/13

6614	←	107x-9に出力
2750	←	}
2500	←	
3276	←	
28	←	



Es = 43 kV

Ch3 振幅 292mV

CT

Ch2 振幅 27.8 V

Pf VIDEO OUT

Ch1 振幅 43.0 V

CD

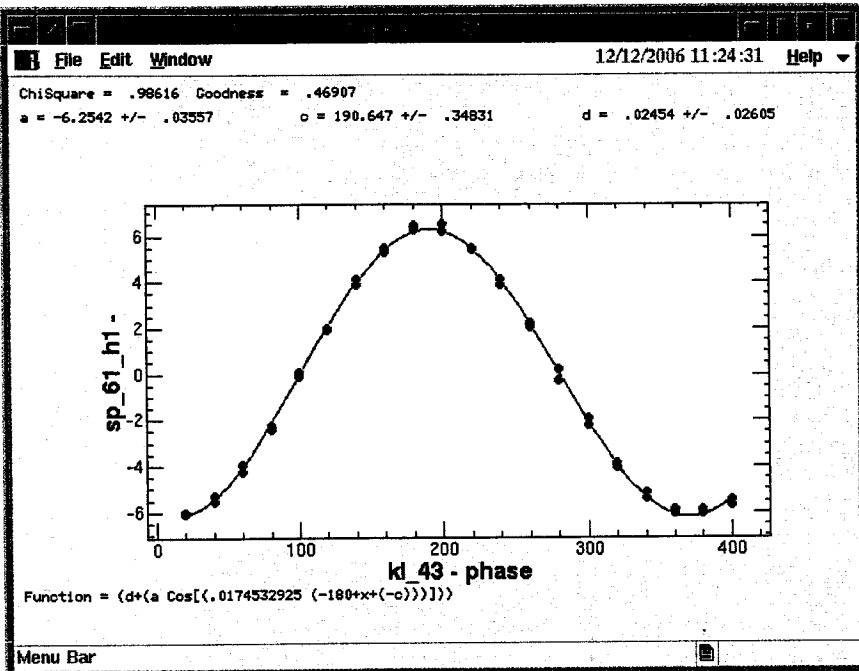
11 Dec 2006 15:44:42

KL-44-	6614
-phase	2750
-delay	2500
-width	3276
-sb	177

4-3, 4-5. S-band コーニトで 加速ゲイノの測定

- ① KEKB e⁻モード 8 GeV, 1nC, 5Hz
- ② SC-61-h で ビームスポット確認
- ③ 各種 フィードバック OFF
- ④ BPM 5 times Average Mode
- ⑤ SP-61-h1 で Position = 0 になるように、energy knob
energy knob 7.8539 → 8.0898
- ⑥ 吉田氏軌道ゲージを start
- ⑦ 4-3 Acc 1=セット
- ⑧ Simple Correlation

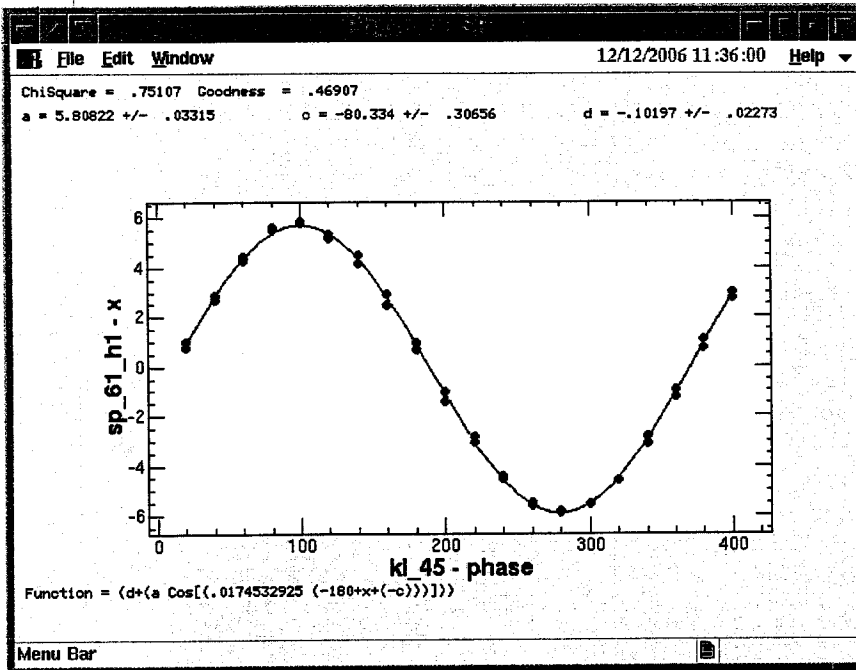
4-3



$$E_{gain} = 8.0 \times \frac{6.2542}{307.5} = 162.7 \text{ [MeV]}$$

$$E_s = 41 \text{ KV}$$

4-5



$$E_{gain} = 8.0 \times \frac{5.80822}{307.5} = 154.1 \text{ [MeV]}$$

$$E_s = 42 \text{ KV}$$