21

Sep. 15, 2005

6:00 PF e^- ↔ KEKB e^-

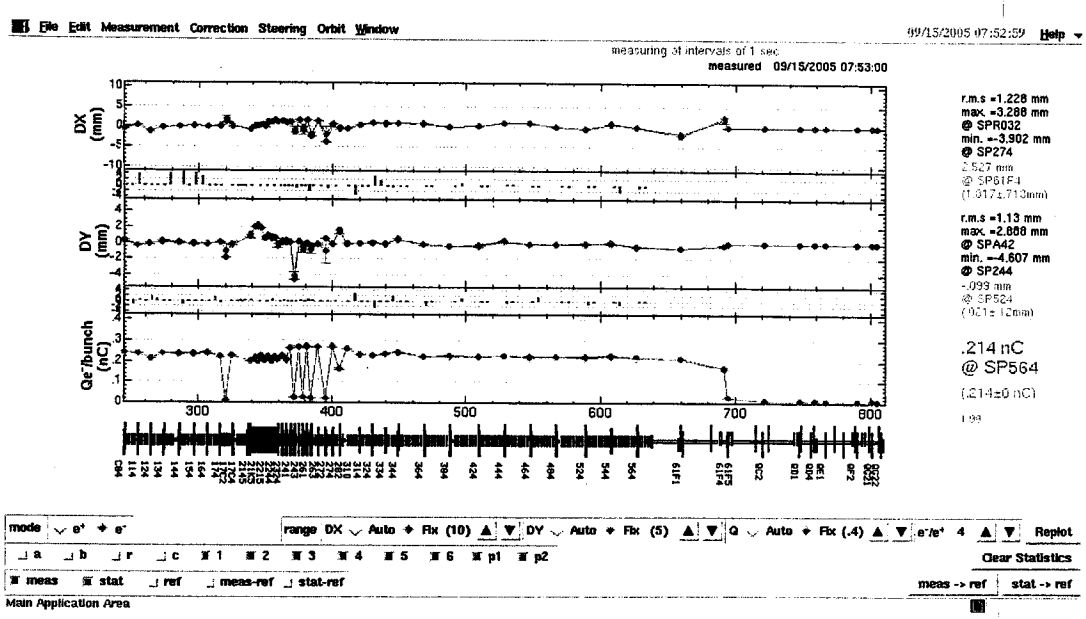
Beam の為 data 取り. Beam 再現性確認

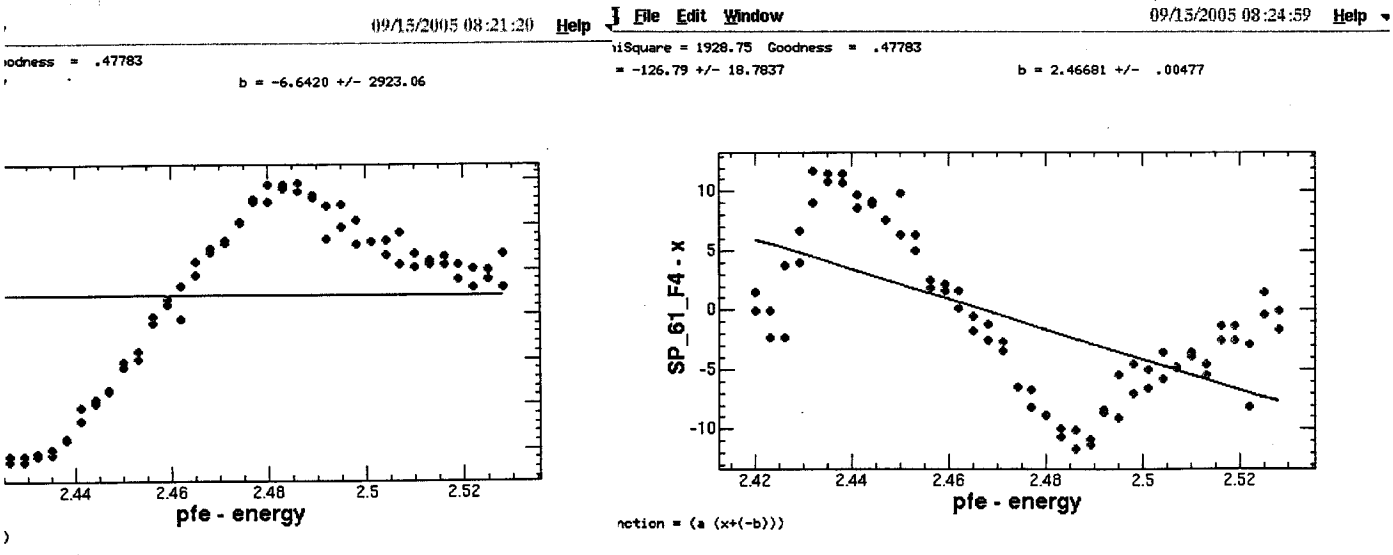
SB-1 phasing → Klystron phase −20deg

kekbet beam は未確認

Data 取り

~8:30





2005.9.17 準夜シフト.

KEKB e- モードにおいて OVERALL_C ～ OVERALL_5 の測定実施。

Sep17 22:11:16 S(

KL_A1_RF	97589 ns		
OVERALL_A	49042 ns	→	
OVERALL_B	49091 ns	→	
OVERALL_C	50889 ns	→	50844 ns
OVERALL_1	72889 ns	→	72852 ns
OVERALL_2	72763 ns	→	72716 ns
OVERALL_3	72724 ns	→	72678 ns
OVERALL_4	72833 ns	→	72789 ns
OVERALL_5	72894 ns	→	72847 ns

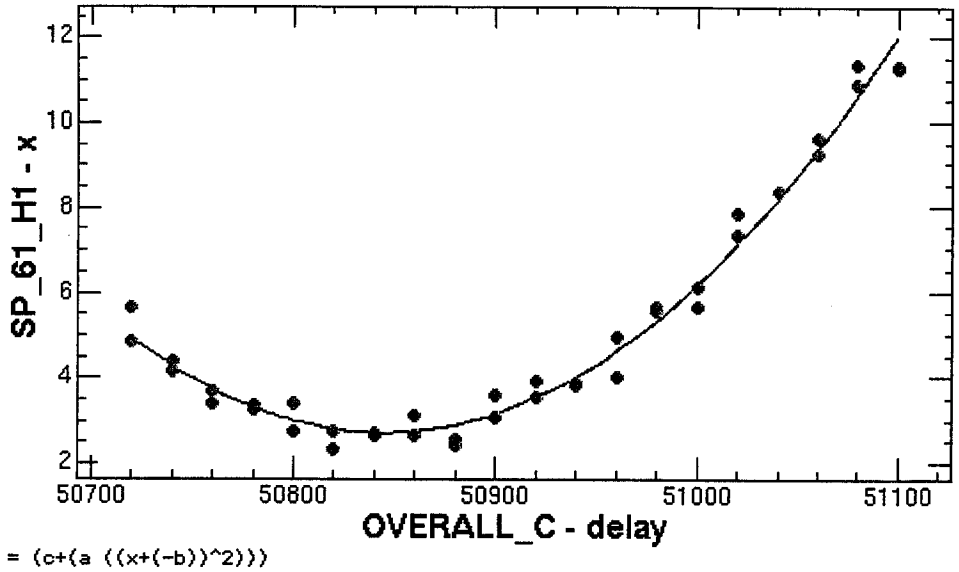
(設定値) (測定値)

ImageMagick

File Edit Window 09/17/2005 23:04:41 He

ChiSquare = 5.39428 Goodness = .46907

a = 1.43E-4 +/- 5.09E-6 b = 50844.4 +/- 2.96765 c = 2.72274 +/- .08323



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

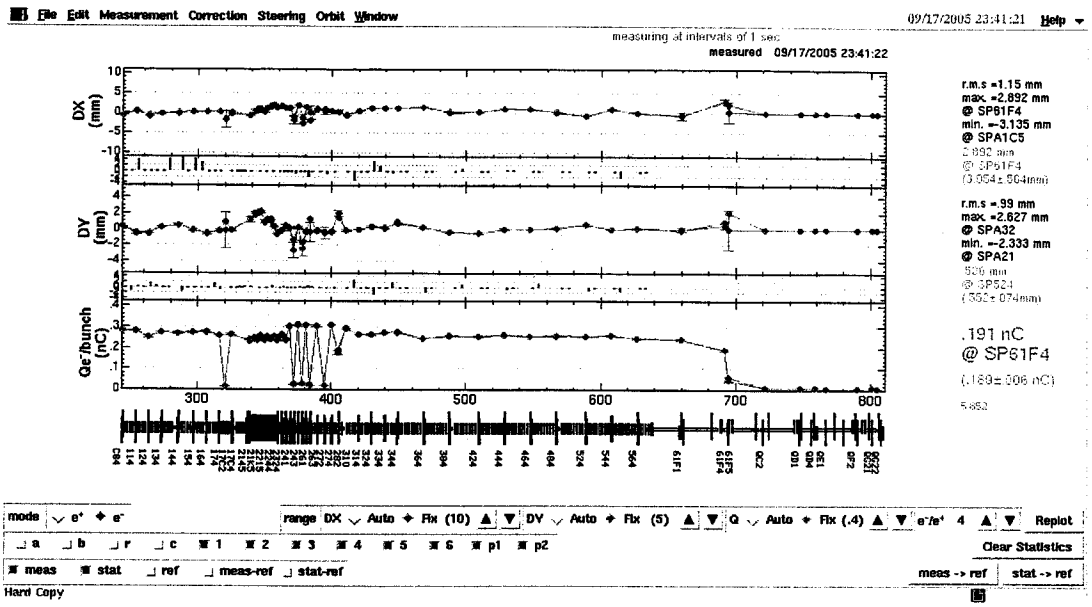
Main Application Area

Main Application Area

Main Application Area

23

23:25 PF-e Energy Feedback 動作確認

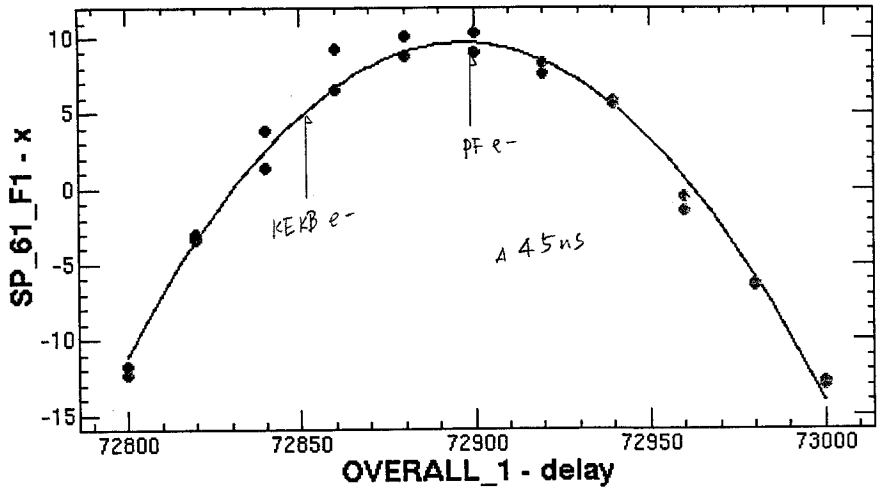


Feedback START後のOrbit

SC-61-F4

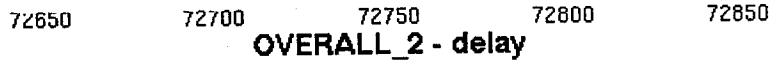
File Edit Window 09/18/2005 01:41:17 Help

ChiSquare = 24.3680 Goodness = .45684
a = -.00224 +/- 6.83E-5 b = 72896.5 +/- .85761 c = 9.72061 +/- .36437



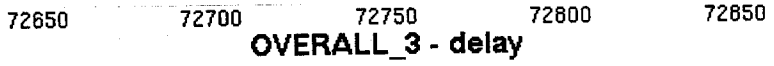
Function = (c+(a ((x+(-b))^2)))

Main Application Area



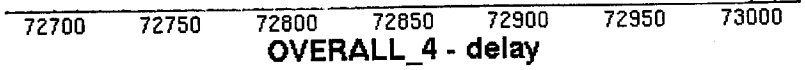
Function = (c+(a ((x+(-b))^2)))

Hard Copy



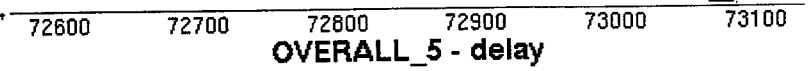
Function = (c+(a ((x+(-b))^2)))

Hard Copy



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

Hard Copy



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

Hard Copy

25

Sep. 19, 2005

軌道補正のテスト

KEKB e+　　3, 4, 5 ⇒ O.K.

A, D ⇒ first のみ O.K.

both だと悪化

↳ A1_G0, G1, G4, D4 を外したら O.K.

R ⇒ 無理

C ⇒ そのままだと STC 振り切れ

SP_C3_4 のオフセットを加えて改善 (Horizontal)

C, 1 ⇒ O.K.

→ BPM の調整が必要
○ STC 振り切れ

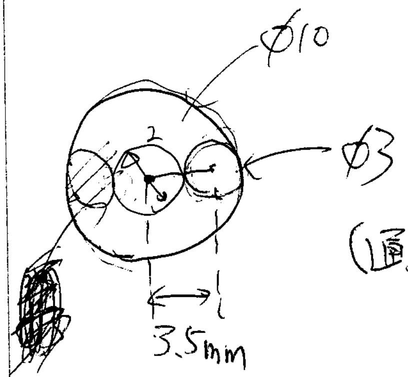
KEKB e−　　R も 5箇所 offset を入力

⇓

R, C, 1, 2, 3, 4, 5 ⇒ O.K.

[2005/10/19(水)] (穴あき e+ target Study) 小川, 佐藤,

15:40



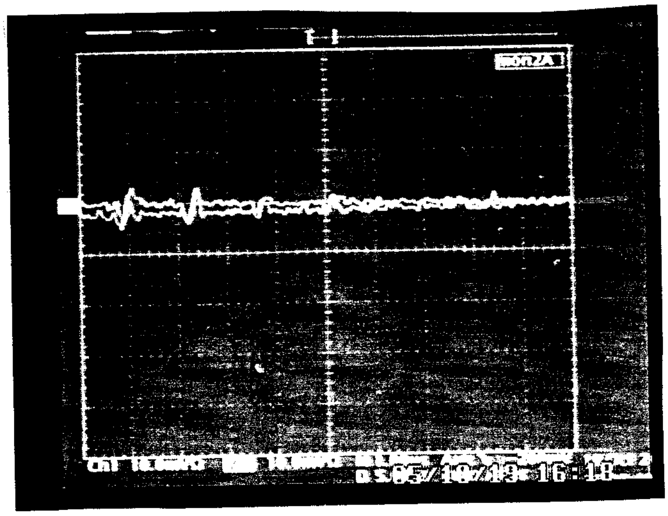
•Pulsed Coil

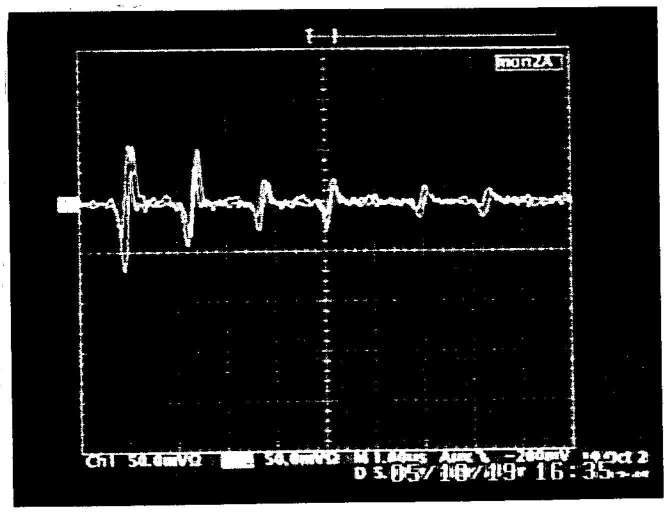
15:50

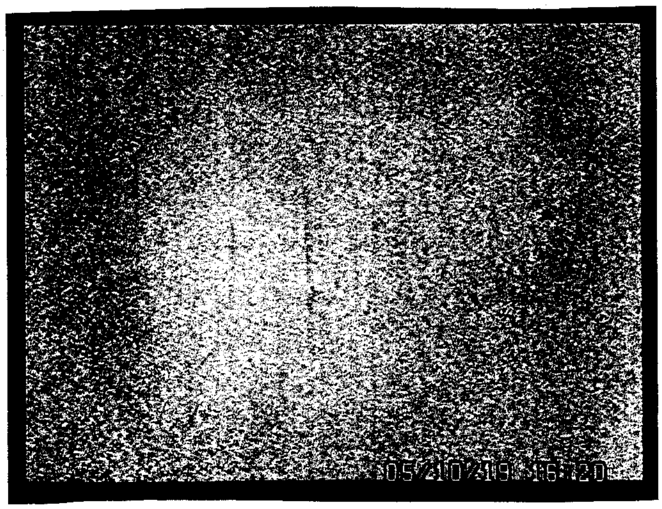
- 2~5セクターの { phase / mag / Acc. mode } を last の kbe load.
- KL_18 を Standby.
- First Only.
- SX17_3 -2.071 ⇒ 2.93 ⇒ -2.071 (元)
- BX_17_4 0.162 ⇒ -2.438 ⇒ 1.862
- BX_17_C5 -3.668 ⇒ -3.668 (元)

- BX17_4 1.862 ⇒ 1.0.
- BX_17_C5 -3.668 ⇒ -2.068.
- BX17_4 1.0 ⇒ 2.2.
- BX_17_C5 -2.068 ⇒ +3.034.

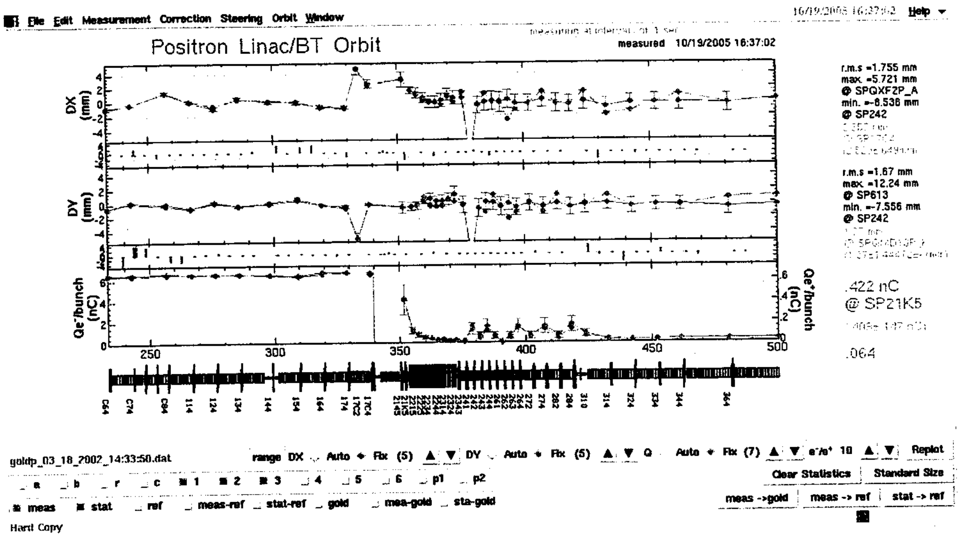
- SX-21-1 : -2.665 ⇒ -3.665 ⇒ -5.
  31 : 0.026 ⇒ -4.974
  41 : 1.183 ⇒







Sc-21-45



[2005/10/20(木)] (e+モードにて. Study) ・穴あきe+ target

- target XYe+ FB Stop
- Orbit 5,6 FB Stop
- Energy 5,6 e+ stop
- Pulse Coil off

QX / QF 17_C4/5 off

- 2~5 Sector Mag, Phase, Acc-mode をe-にした.
- KL_18, 28 → STB

- BX_17-4 : =0.294 → 1.206.
- BX-17-C5 : -3.668 → 2.363. → 2.330

17-4 : 1.206 → 2.805 [illegible].

17-5 : 2.330 → -1.570.

- SB2 : 99.2 → 180 変化なし. (元)

- ~~BY~~_17_C5 : -1.304 → -0.004.
- QF_17_4 : 8.652 → 8.571
- QD_17_4 : 8.181 → 8.618

17:00 PF入射の為中断.

17:15 e- 122 study 再開.

BX_17_4 : 0.055 → 3.055 → 1.756 → 0.757

BX_17_C5 : -1.294 →

- GU_A1 e+ FB stop
  - e- FB の Conf. 12. position 追加.

- 1回 target off する.

- BX_17_4 : ~~2.55~~ 2.355 → 2.855 → 3.356 → 3.857

  BX_17_C5 : -1.695 → 2.05 → -2.415 → 2.78

BX_17_4 : 1.855 ~~2.656~~ ~~2.25~~ 3.030.

BX_17_C5 : -1.335 -0.1217

BY_IN_4 : -0.258 → -1.078

BX_IN_4: 3.029 → 2.929
IN C5: -0.127 → -2.132

19:11 · QR_IN_C4/5 (8.142A)
· QF_IN_C4/5 (8.015A)

BX IN_4: 2.929 → 3.949
BX_IN C5: -2.134 → -2.234
BY IN 4 : -1.078 → 元

19:39 { QR IN C4/5
QF IN C4/5 ON.

{ BX_IN_4 3.950 ——→ 2.9 → 4.42 (X + 6mm)
BX_IN_C5 -2.232 → -2.182 → -1.283 → -3.384

(X +6.5mm)
→ 5 → 4.7 → 4.1
→ -4.885 → -3.889 → -2.763 (charge 0.28)

BY IN 4
-1.078