15:02

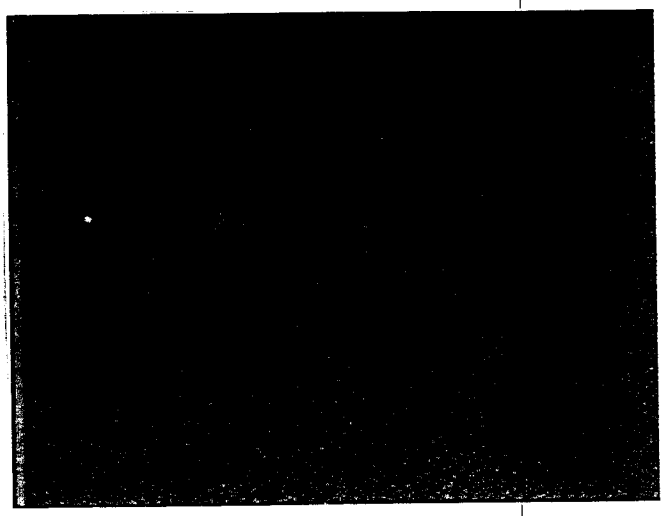
① 4-4 unit の Es = 28.30 、 Power for Eg = 12.0
Pf = 8.8 ~ 9.0

① ARモードの e⁻ビームに切り替えた。
ビーム調整開始 : 5Hz .

61-H で ビームスポット確認.

~~3.159 GeV~~ BM-61-1 132.845A 3.0019GeV

BPM . SP-61-H1.



ARモード X(mm) Y(mm)
-0.9 ~ -1.509 4.578~4.973
Δ 0.6mm
BPMの変動が大きい.

I(nC)	dX(mm)	dY(mm)	dI(nC)
0.098	1.309	0.262	0.038

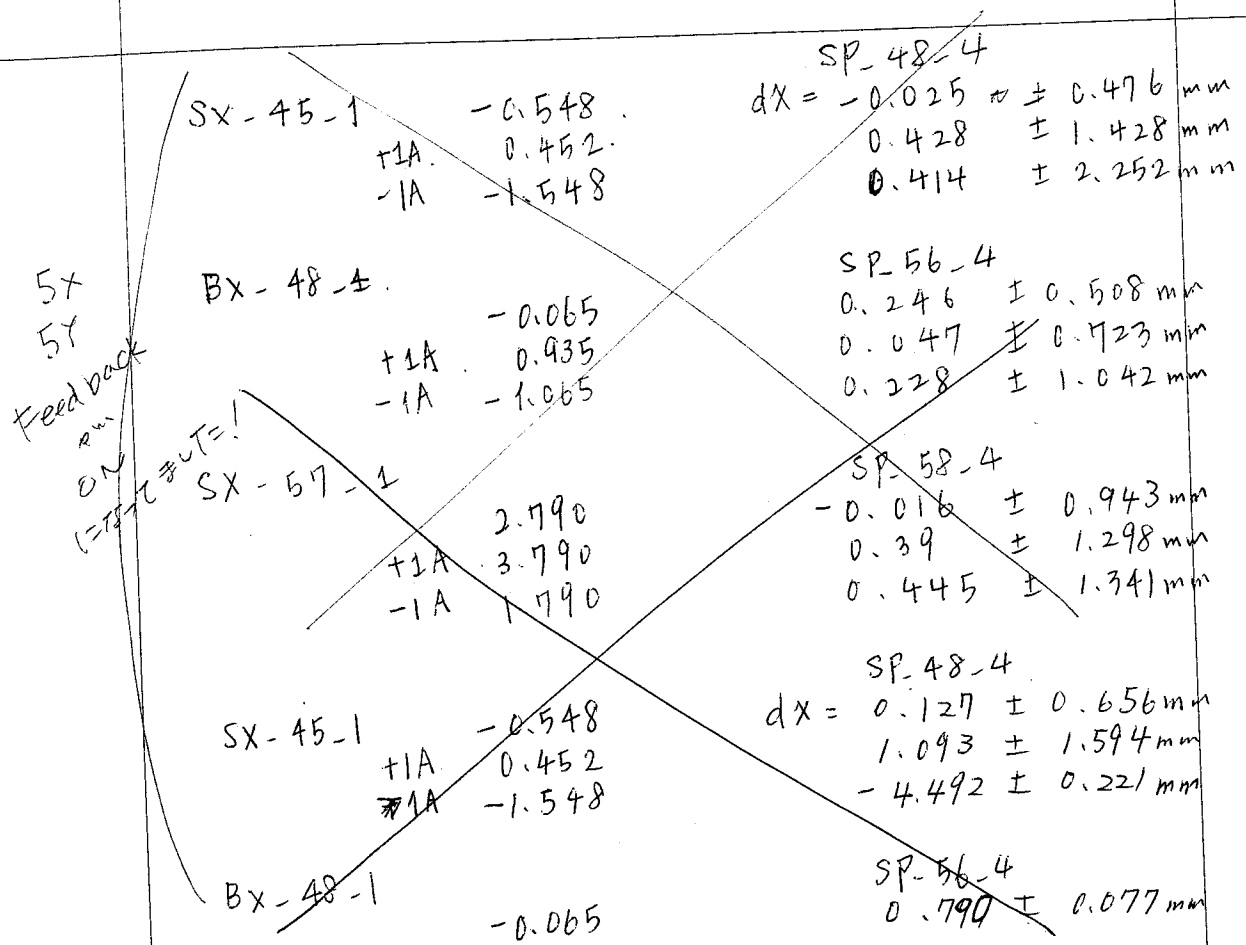
PFモード X(mm) Y(mm)
1.578
-1.429 ~ ~~1.4~~ 0.323~0.362

I(nC)	dX(mm)	dY(mm)	dI(nC)
0.140	0.123	0.081	0.002

② ~~Feedb~~ Feedback OFF AR Energy , 5X , 5Y パネル

③ ~~4-4 KL-44 STB → ACC~~
Energy knob で SP-61-H1 X position を 0 にする。
3.1417 → 3.0876 ~~± 0.08~~ −0.08 ~ +0.02

Es = 28.56 12.4 , 9.2



5X
5Y
feedback
ON
にしてました!

SX-45-1

-0.548A
+1A 0.452
-1A -1.548

$\frac{\delta X_{pos}}{\delta I} = 3.669$

SP-48-4
dX = 0.601 ± 0.129 mm
4.275 ± 0.667
-3.663 ± 0.173

BX-48-1

~~+0.1A -0.065A~~
~~+1A 0.935 0.035~~
~~-0.065A~~ -0.065
+0.1A 0.035
-0.1A -0.165

$\frac{\delta X_{pos}}{\delta I} = 26.705$

~~SP-56-4~~
~~dX = 0.138 ± 0.107 mm~~
dX = 0.286 ± 0.126 mm
2.891 ± 0.071
-2.450 ± 0.159

SX-57-1

2.790
+1A 3.790
-1A 1.790

$\frac{\delta X_{pos}}{\delta I} = 1.5965$

SP-58-4
dX = 0.121 ± 0.215 mm
1.519 ± 0.158
-1.674 ± 0.266

③ もう一度 3.0876 → 3.0902

X position -0.035 ~ ~~-0.031~~ +0.003

④ BPM を 5time Average にセット。

⑤ 4-4 KL-44 STB → ACC +2.234 H1 SP-61-~~H~~ Energy 下がった。

⑥ Simple Correlation Plot
20° → 380° ~~#~~5° step. Interval 3
注意：S-band用ほので 180°

3GeV × 3.727 / 309.5 = 36.369 MeV

36.369 / 0.96225 = 37.796 MV/m

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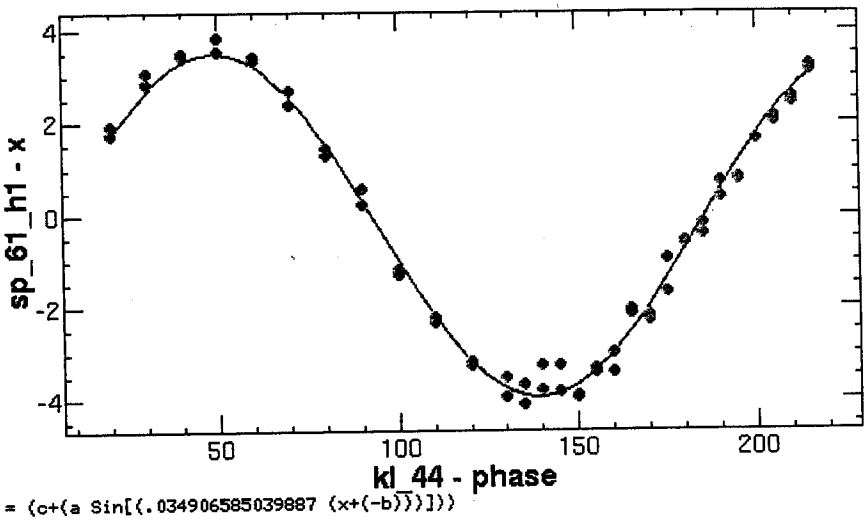
ChiSquare = 3.64514 Goodness = .47464
a = 3.72784 +/- .04813 b = 184.058 +/- .39105 c = -.22654 +/- .03595

ES=28.56



Function = (c+(a Sin[(.034906585039887 (x+(-b)))]))

Status Display

184.058 − 45 = 139.058°

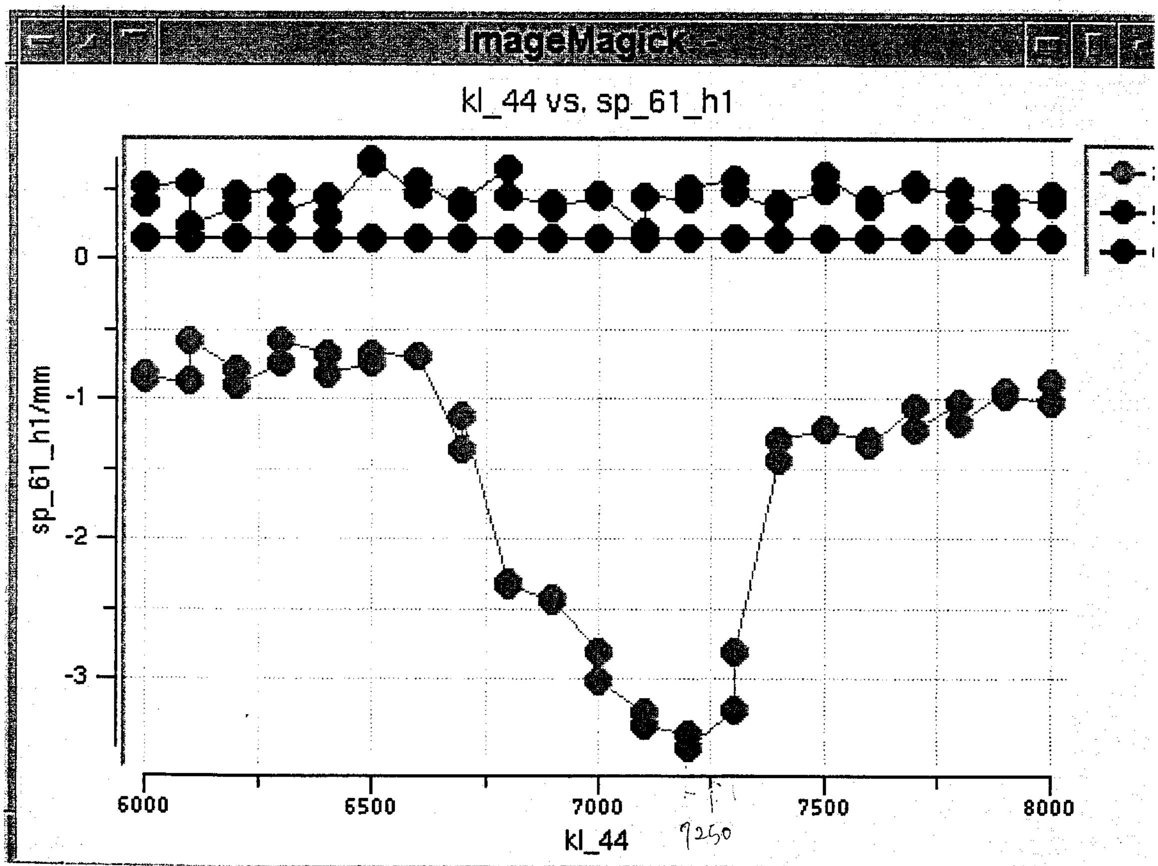
⑪ KL-44 Phase 20.8 → 139° にセット

⑧ BEAMRFMON-4 ~~[illegible]~~
KL-44-RF
KL-44-RF2
PULSEDELAY-4 ← 押しちゃだめ。 4セクターのklyがすべておち

KL-44 <u>7190 ns</u>

ACL、STBの切り替えで Delay 値が変わるものをえらぶ?
→リストからは Delayの変化はみえないので無効

KL-44 ダウン不調なので Es=25 kV で Delay scan
Phase 139° → 170.2° にセット.



KL_44 <u>7180 ns</u>

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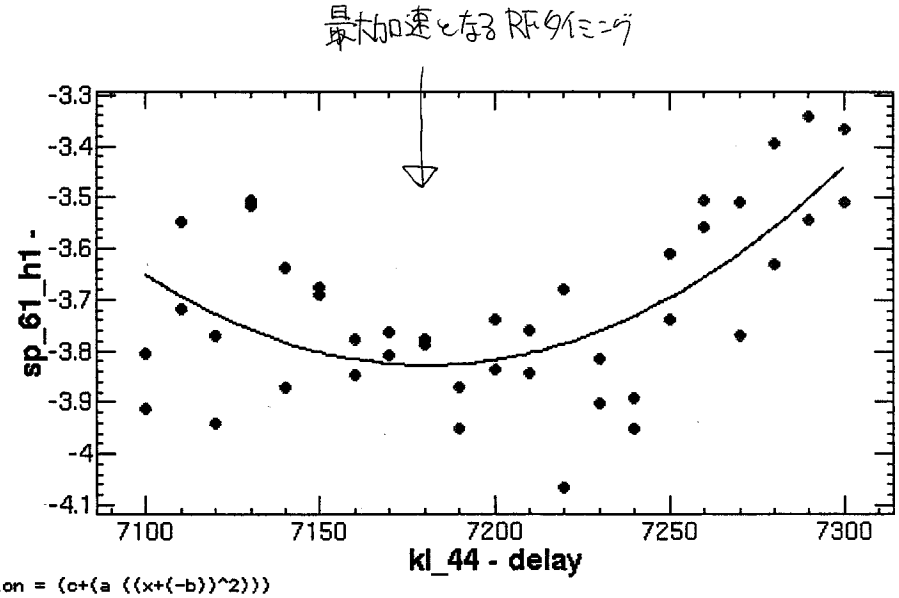
ChiSquare = .71355 Goodness = .46988

a = 2.73E-5 +/- 6.39E-6 b = 7180.45 +/- 7.78857 c = -3.8282 +/- .03035



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

Hard Copy

IP=192.168.240.96

RFに設定

① CD 高圧
② SB の RF
③ 位相反転
④ 4-5 a trigger timing

20:32

knob	3.4069	→ 3.4082	→ 3.3850
61-H1	-3.466	-0.028	

Energy Spred の確認後、

KL_44 STB → ACC に切り変え.

軌導補正を行う。 BPM 5time Average.

ES = 28.0 kV, 11.6, 9.1

Oct. 6, 2004 18:30 KL-44のEsup待ち.
PFModeでのSLED gain peak search

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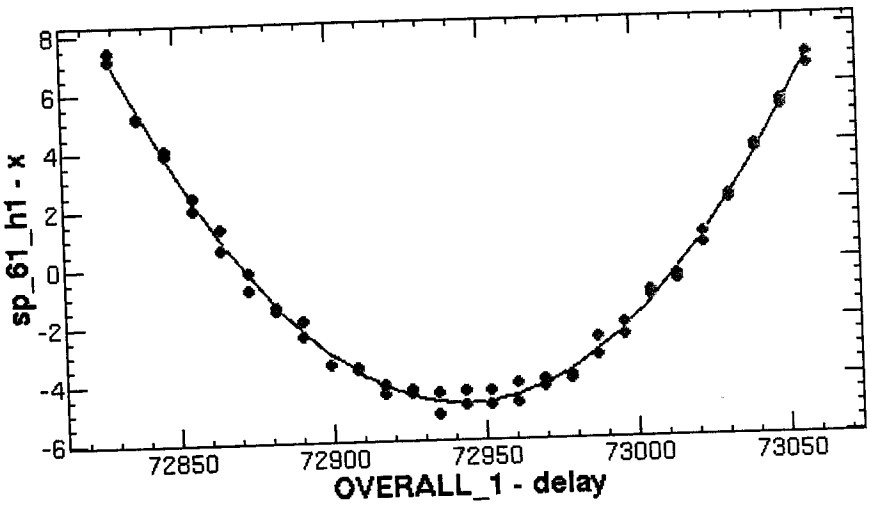
ChiSquare = 3.70456 Goodness = .47366
a = 9.07E-4 +/- 8.75E-6 b = 72943.6 +/- .29504 c = -4.8207 +/- .05508



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

同時にoverall_[1-5]を振い, SP_61_H1を測定
Peakは 72944ns.

同様にAR-Mode

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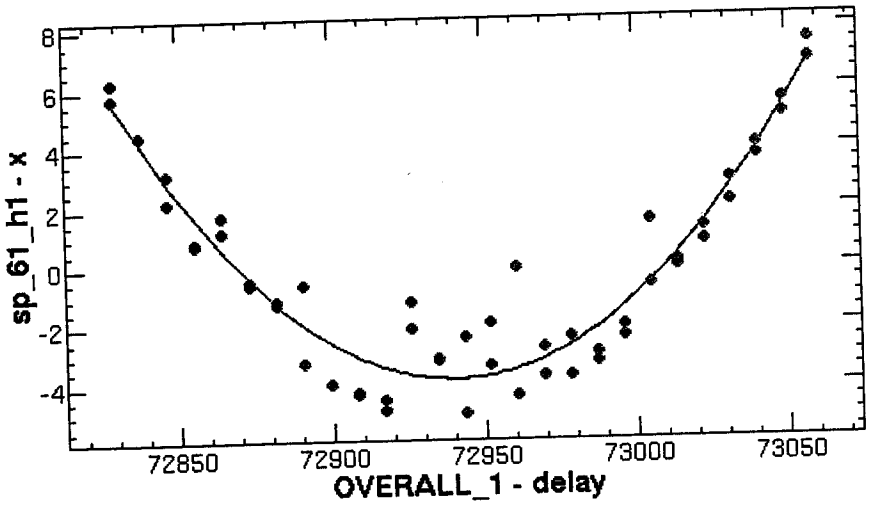
ChiSquare = 57.6786 Goodness = .47366
a = 7.67E-4 +/- 3.45E-5 b = 72939.9 +/- 1.38456 c = -3.8265 +/- .21715



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

mon 6Aのtimingがよくない. → 調整

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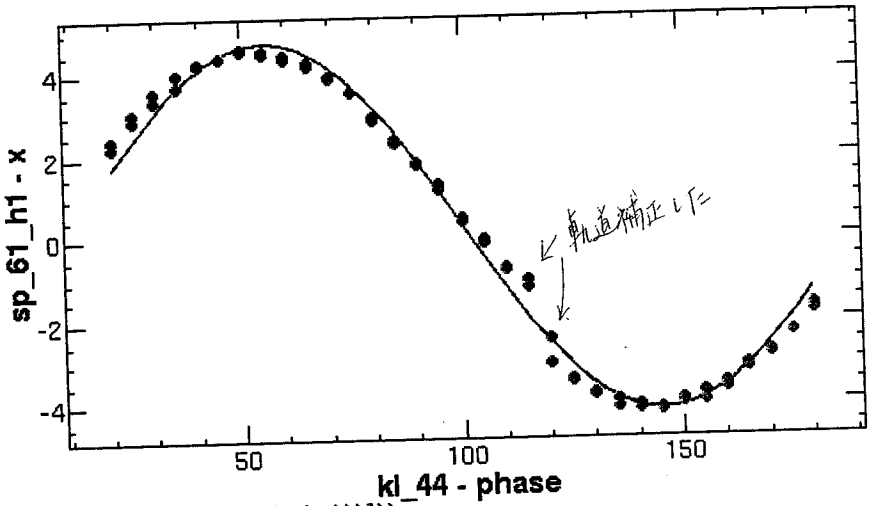
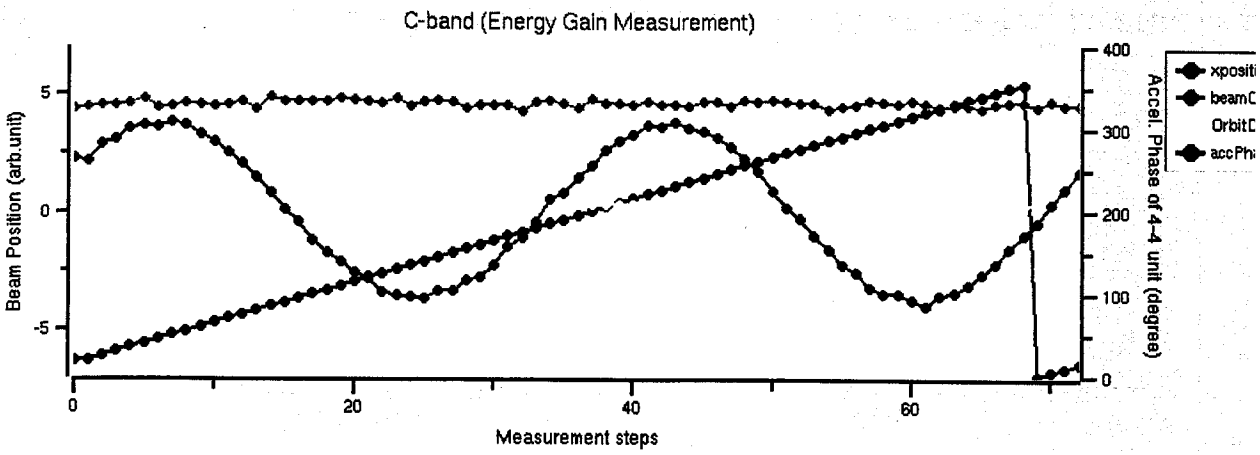
ChiSquare = 6.18861 Goodness = .47630
a = 4.44879 +/- .05232 b = 190.257 +/- .37105 c = .27868 +/- .03893

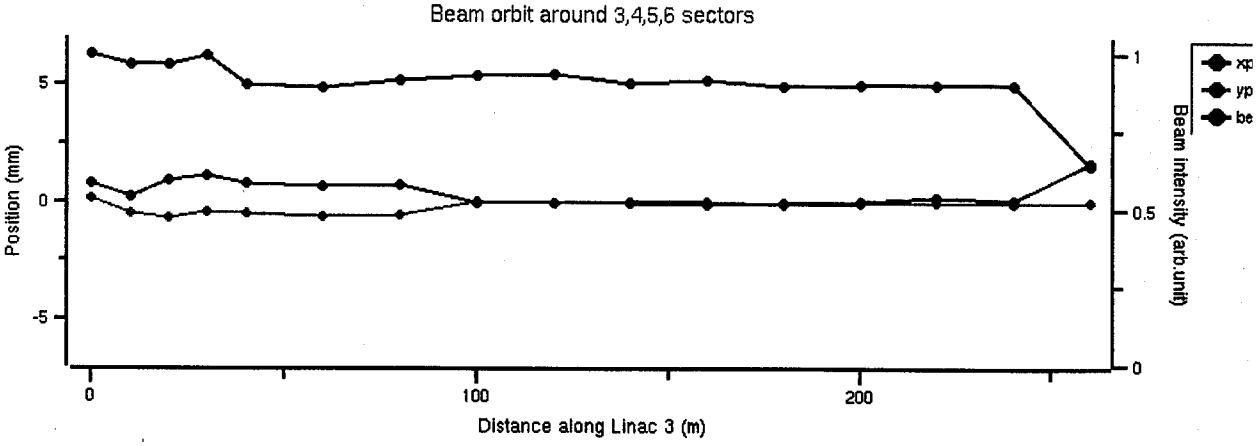


Function = (c+(a Sin[(.034906585 (x+(-b)))]))

Hard Copy

43.40 MV
45.11 MV/m





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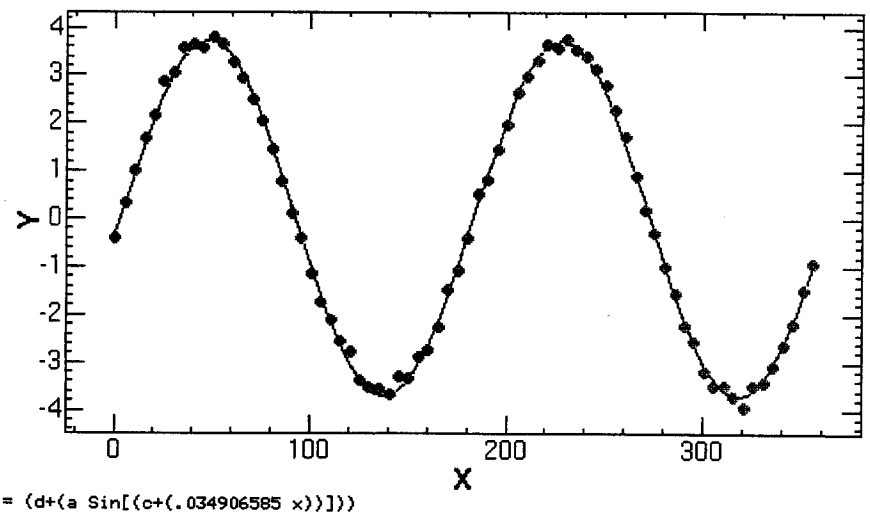
ChiSquare = .97313 Goodness = .47736

a = 3.71602 +/- .01979 c = -.10052 +/- .00533 d = -.00673 +/- .01400

37.69 MV

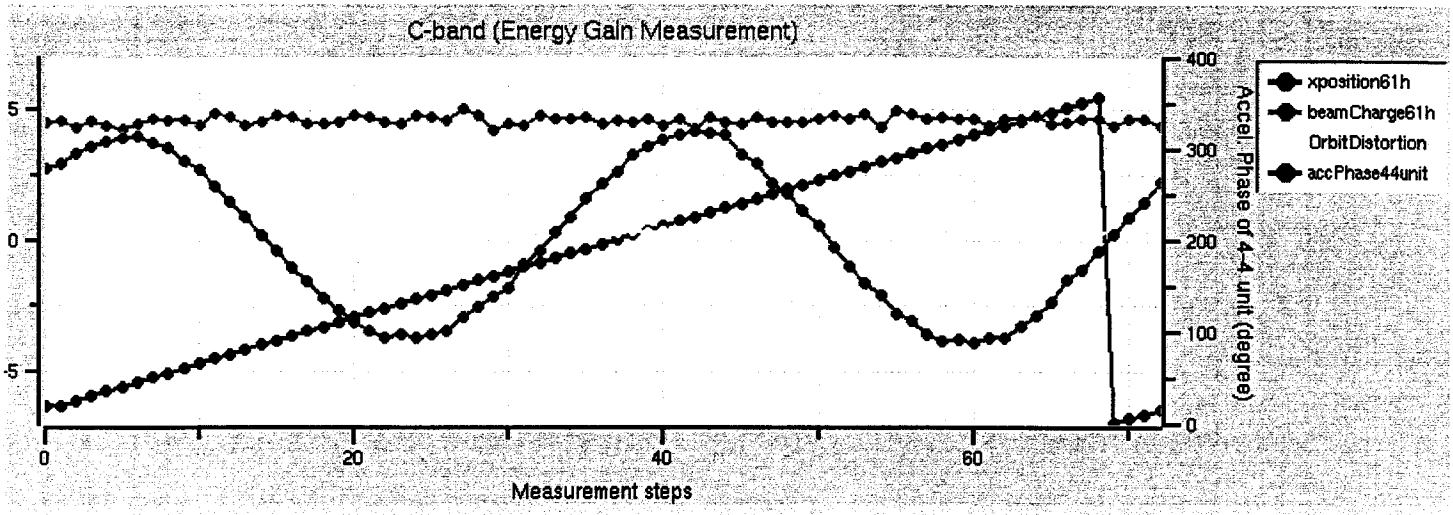
Es = 28.0 kV

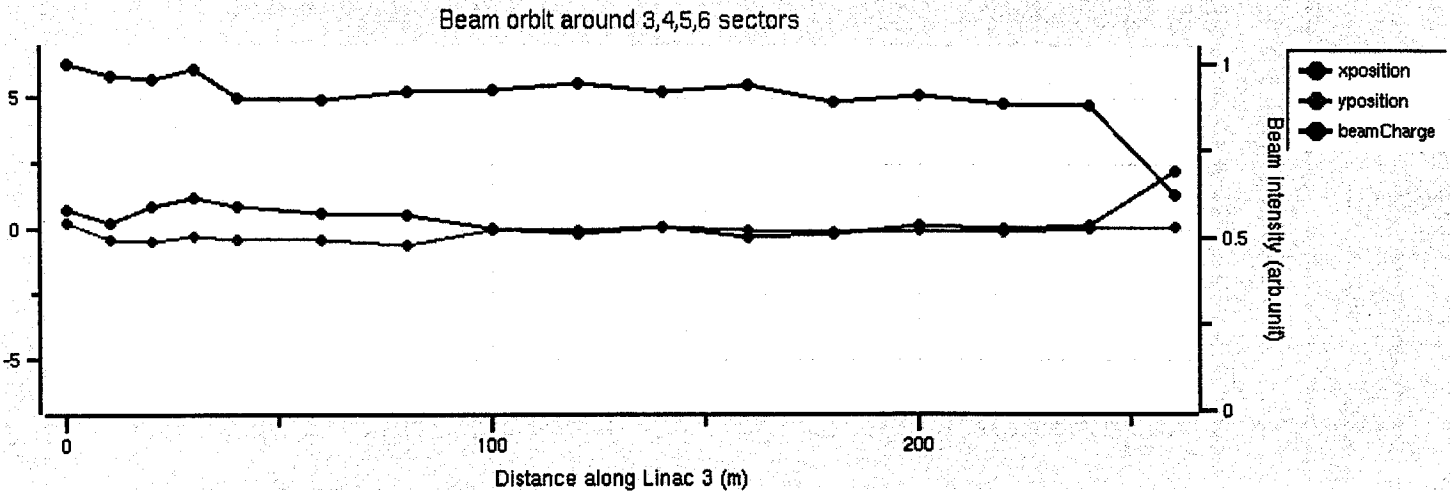
Pf = 9.1 MW



Function = (d+(a Sin[(c+(.034906585 x))]))

Hard Copy





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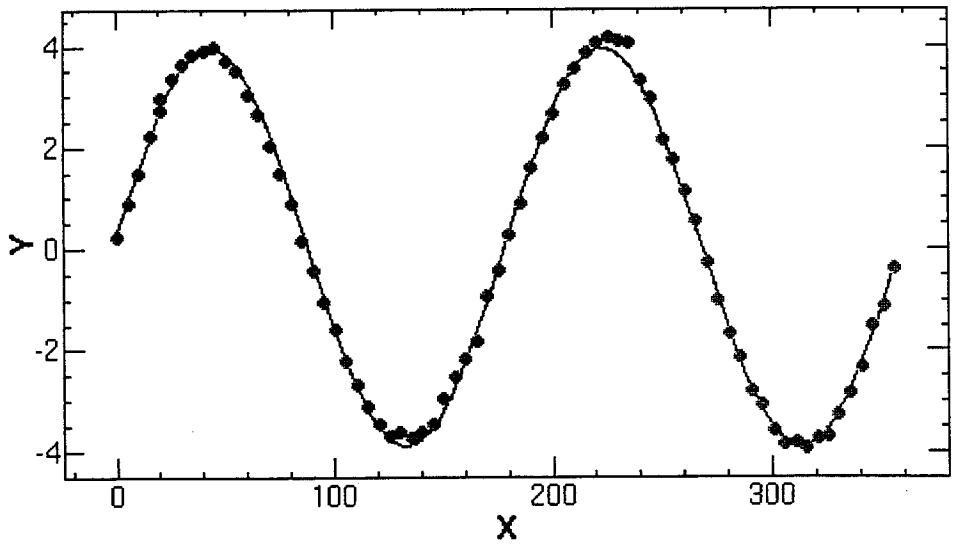
ChiSquare = 1.44311 Goodness = .47752

a = 3.91354 +/- .02377 c = .06147 +/- .00607 d = .02473 +/- .01681

39.69 MV/m

Es = 28.56 kV

Pf = 9.4 MW



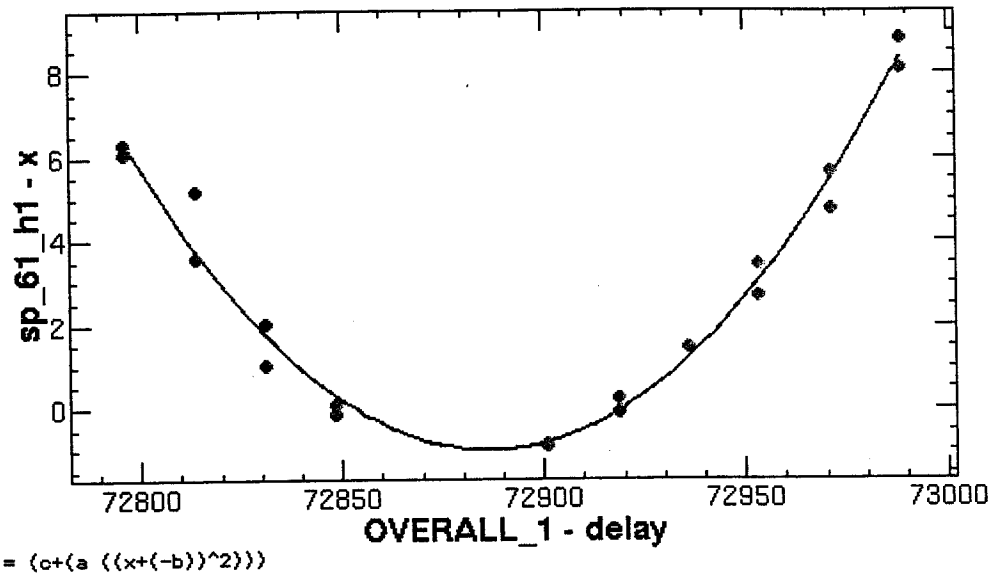
Function = (d+(a Sin[(c+(.034906585 x))]))

KBE mode で Overall_[C1-5] を振る.

File Edit Window 10/06/2004 22:26:44 Hel

ChiSquare = 4.06409 Goodness = .45437

a = 9.02E-4 +/- 3.48E-5 b = 72886.4 +/- .94020 c = -1.0023 +/- .18574



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

Peak at 72886. Operation at 72934

↓

(peakとの差) −53 MeV = 0.66 %

(dispersion 307.5mm)

時間もみ.