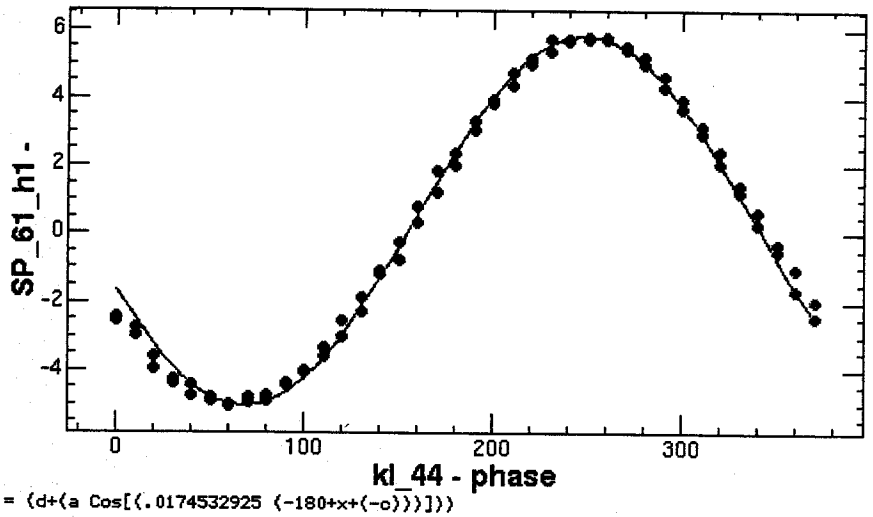
kl_44 6600ns
kl_44_width = 2325nsec..

File Edit Window 04/27/2006 19:59:00 Help

ChiSquare = 5.96125 Goodness = .47799
a = -5.4255 +/- .04714 c = 967.920 +/- .48369 d = .38001 +/- .03287



Function = (d+(a Cos[(.0174532925 (-180+x+(-c)))]))

データの再現性の確認、(18:50:16と同じ状態) 70.8°c

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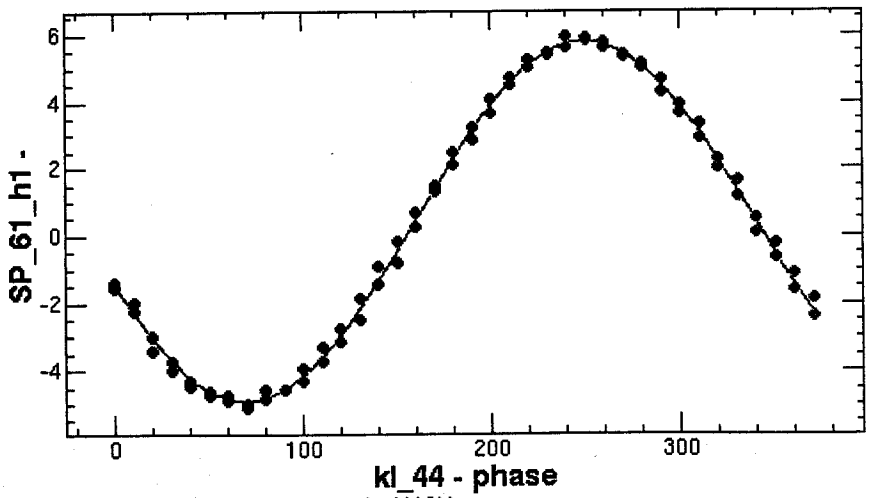
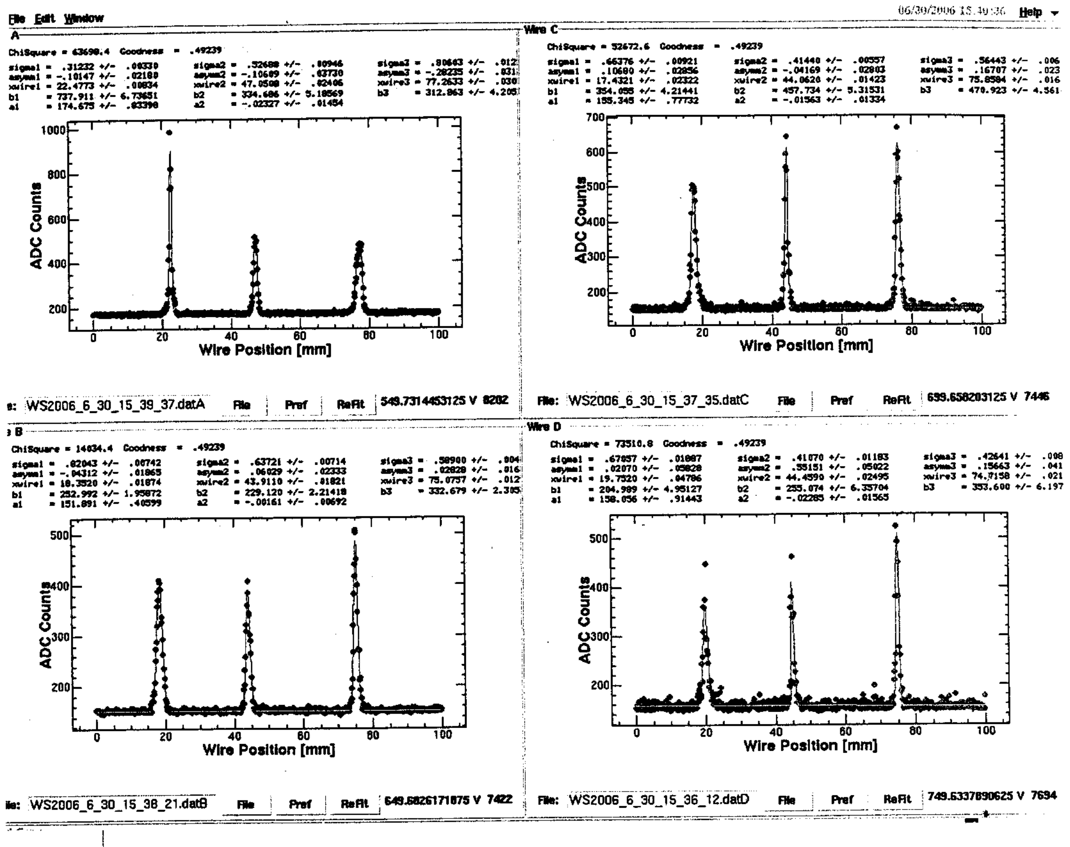
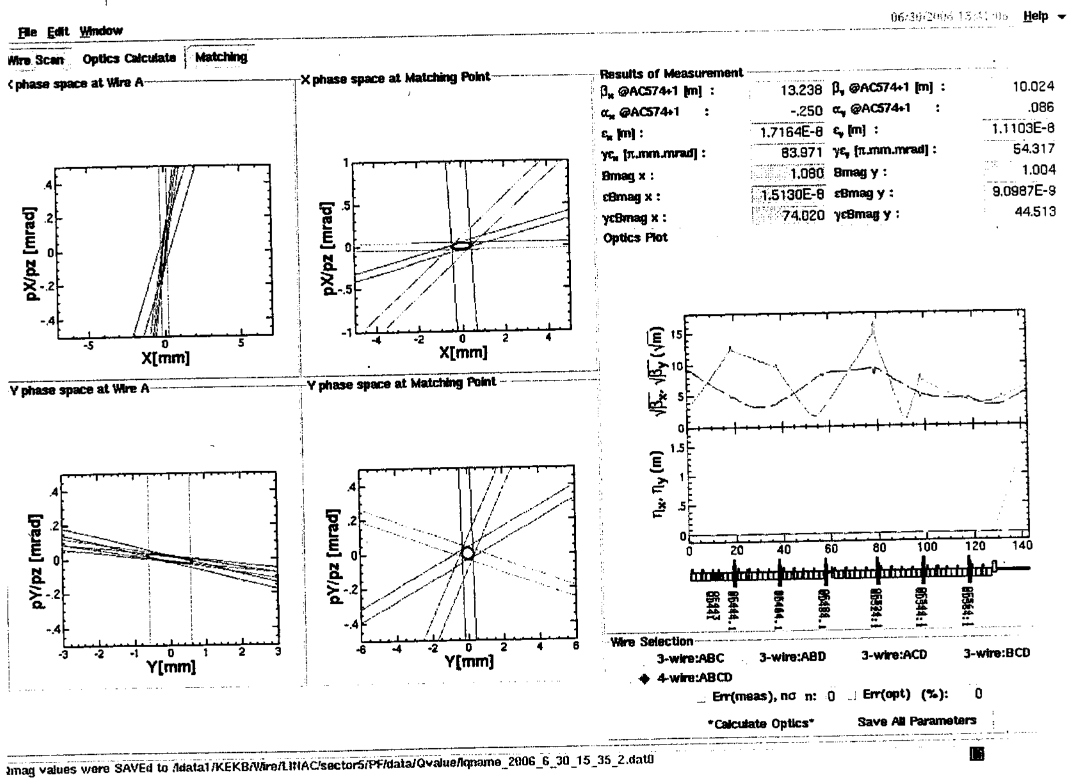
ChiSquare = 2.80688 Goodness = .47799
a = -5.3534 +/- .03238 c = 1329.40 +/- .33603 d = .44467 +/- .02255



Function = (d+(a Cos[(.0174532925 (-180+x+(-c)))]))

'06/6/30　A1 GUNより PF 2.5GeV（減速）　（飯田）





5セクターワイヤーScannerでMatching結果

abotを使用。　Matching Zone を5-Sector PFと呼ぶこと。

一 減速 Study 用の ワイヤースキャナー(モニター) の Soft は.

KBL の中の

Beam Transport / Wire Scanners / Wire Scanner Matching (Studies)

で起動させる. (その前に abot を実行すること。)

06.6.30

20:53 AI GUN より PF 2.5 GeV 入射スタディ用各パラメータセーブ.

RF-Phase: data/637.phase.all
Mag : data/4262.all
Trig-Delay: data/312.delay.all
Acc-Mode: data/288.mode.all

それぞれのパラメータのコメントに "AI GUN PF Study final" と記載

にセーブ.

※. 入射は KEKB 同期で実施.

- GU_AI パラメータ 060306-0.2nC をロード
- PF Energy Feedback gain 0.0008 → -0.0008 に変更.
  (ただし、LINAC Mode で Beam ON 時のみ 作動する. (PF-Mode では作動しない)
  PF Energy Feedback Beam Condition 画面にて. Beam CT ON のチェックを外し. Beam AI ON をチェック.
- LINAC Orbit にて. SP_61_F5 より後ろはデータ見えず.
- BPM は KEKB e⁻ (Mode 0) を選択 (KEKB 同期のため)

2006.7.2.(日) 9:00〜　紙谷，杉村，横山，大西

C-band 加速試験.

trig get

Kl-44		6614 ns	(変更前)
Kl-44 -	phase ○	2300 ns	1751 ns
	delay ○	2500 ns	2225 ns
	width ○	2826 ns	3300 ns
	sb	28 ns	

} 6/29(金) に変更した。

① KEKB e^- モード　ビーム調整.

8GeV, 1nc, 5Hz

tesh spdata -6 -f1

② SP-61-h1

	x	Y	I	dx	dY	dI
SP-61-h1	0.041mm	1.1	0.88	0.02	0.04	0.01

~~0.0~~ ±0.1mm 変動している

スポット確認

③ KL-44　STB → Acc

④ "KL-44" を取って，timing を見る。Simple Correlation Plot をとる。

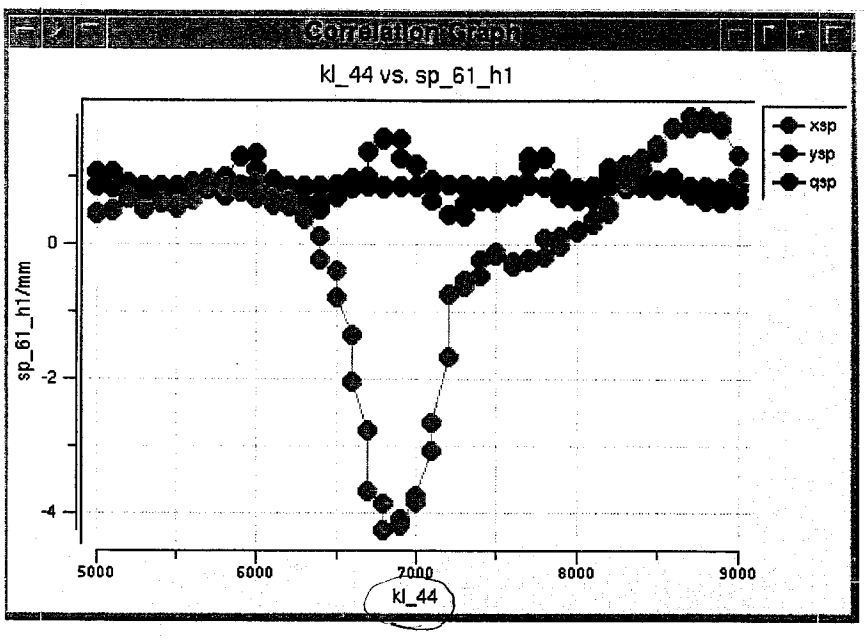
→ KL-44　6820 にセット。

$E_f = 44.1$ kV
$P_f = 37.6$ MW

→ $21.9\sqrt{P_f}$
= 134.3

$$\frac{5.2\,\text{mm}}{307.5\,\text{mm}} \times 8000 = 135.284\ \text{MeV}$$

$$\frac{135.284}{0.96225 \times 4} = 35.1\ \text{MV/m}$$



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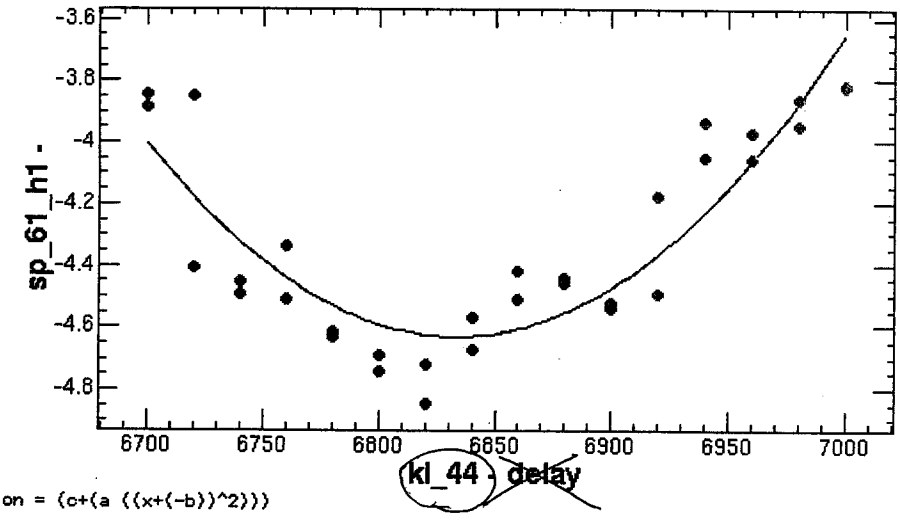
ChiSquare = .68864 Goodness = .46507

a = 3.53E-5 +/- 3.60E-6 b = 6833.24 +/- 4.51585 c = -4.6317 +/- .04055

6820.
6830



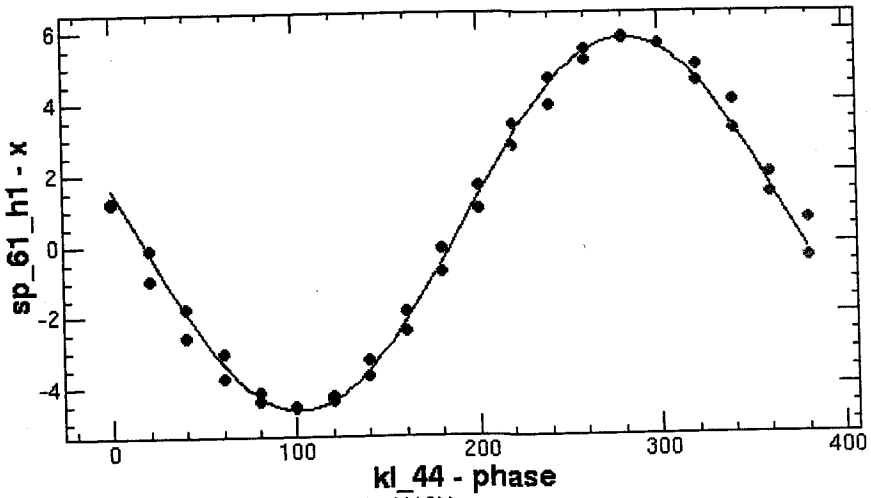
Function = (c+(a ((x+(-b))^2)))

159

data 1. Es = 44.1 kV, Pf = 37.6 MW, 135.3 MeV, 35.1 MV/m ±2.2 MeV

File Edit Window 07/02/2006 11:20:52 Help

ChiSquare = 4.57281 Goodness = .46907
a = 5.20068 +/- .08258 c = 101.426 +/- .83552 d = .54842 +/- .05608



Function = (d+(a Cos[(.0174532925 (-180+x+(-c)))]))

$\frac{0.08\,mm}{307.5\,mm} \times 8000 = 2.1\ MeV$

data 2. Es = 45.5 kV, fp = 40.1, 140.45 MeV, 36.49 MV/m

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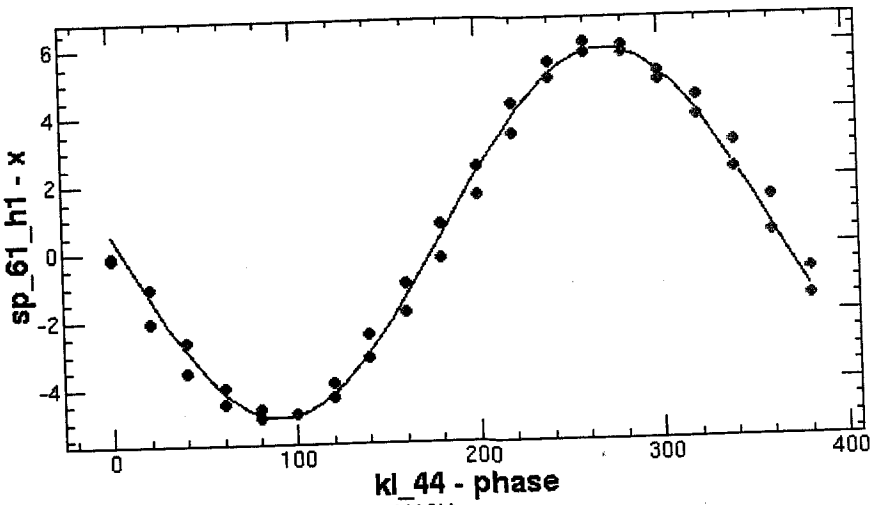
ChiSquare = 6.58203 Goodness = .46907
a = 5.39859 +/- .09888 c = 90.6700 +/- .96862 d = .47449 +/- .06729

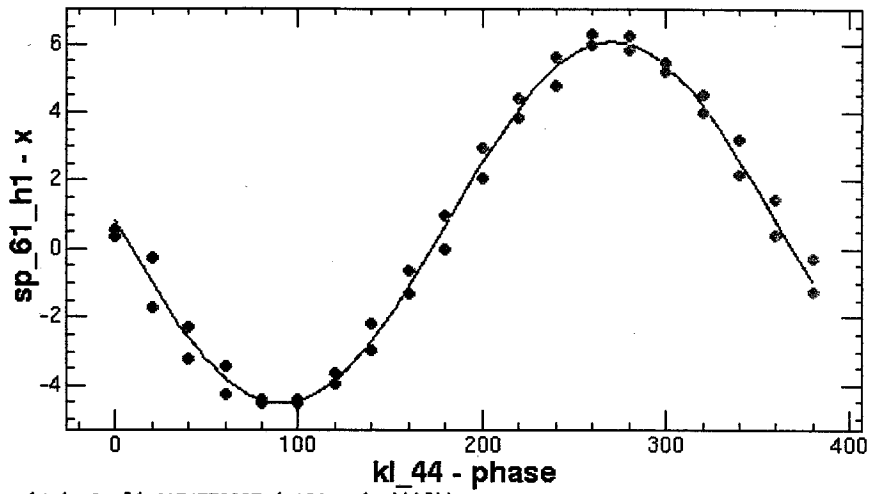


Function = (d+(a Cos[(.0174532925 (-180+x+(-c)))]))

data3
data2の取り直し

File Edit Window 07/02/2006 11:41:20 Help

ChiSquare = 6.37312 Goodness = .46907
a = 5.30271 +/- .09729 c = -1709.4 +/- .97544 d = .75833 +/- .06621



Function = (d+(a Cos[(.0174532925 (-180+x+(-c)))]))

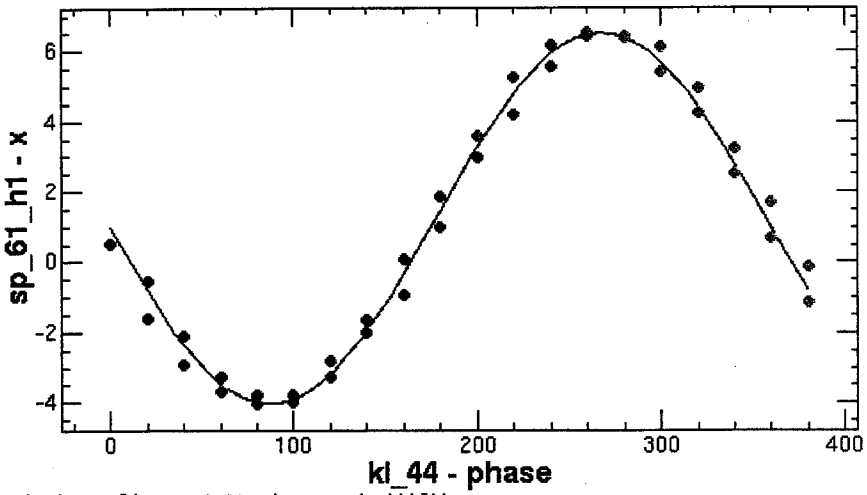
5XYが Feedback ONになっていた。→OFFにする。

data4

File Edit Window 07/02/2006 12:30:50 Help

ChiSquare = 5.75285 Goodness = .46907
a = 5.27637 +/- .09227 c = 447.187 +/- .92792 d = 1.22645 +/- .06291

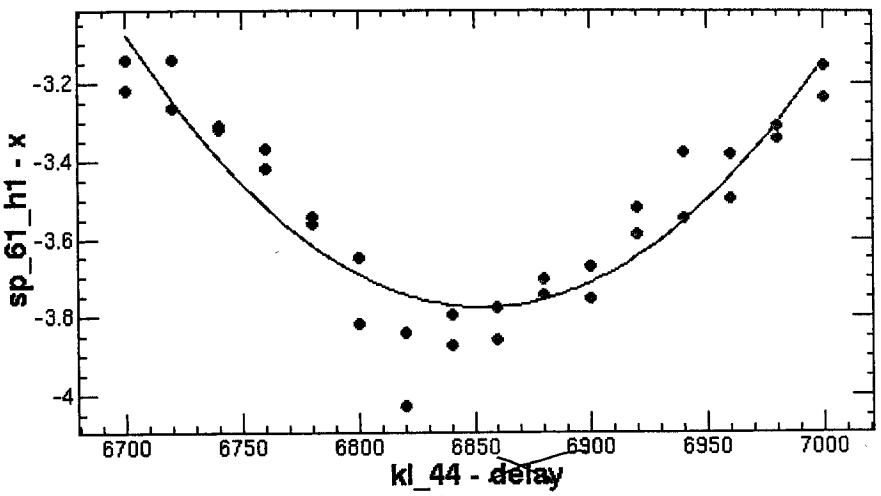
$E_0 = 45.5\,kV$
$P_f = 40.3\,MW$



Function = (d+(a Cos[(.0174532925 (-180+x+(-c)))]))

File Edit Window 07/02/2006 12:36:16 Help

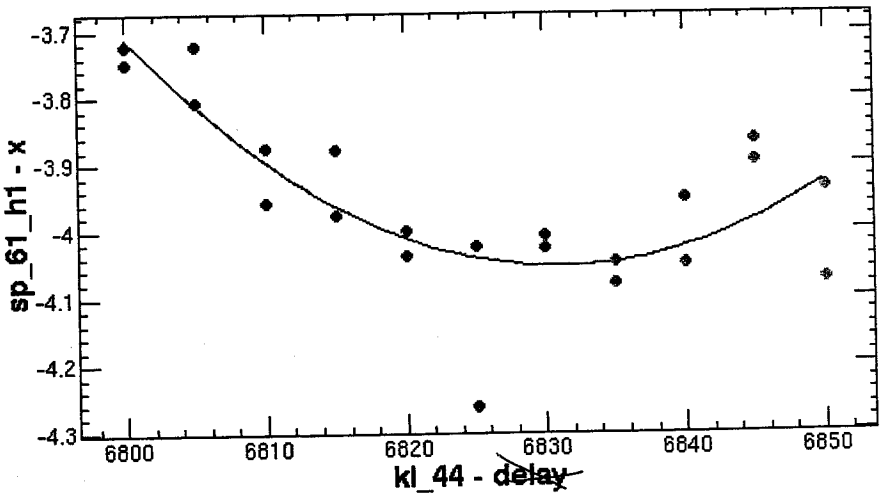
ChiSquare = .28895 Goodness = .46507
a = 2.96E-5 +/- 2.33E-6 b = 6853.44 +/- 3.23994 c = -3.7757 +/- .02654



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

File Edit Window 07/02/2006 12:39:23 Help

ChiSquare = .12579 Goodness = .45684
a = 3.57E-4 +/- 7.86E-5 b = 6830.96 +/- 2.02185 c = -4.0544 +/- .02505



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

6825 にセット。

Es = 45.5 KV, Pf = 40.3 MW (現場), 138.2 MeV, 35.9 MV/m

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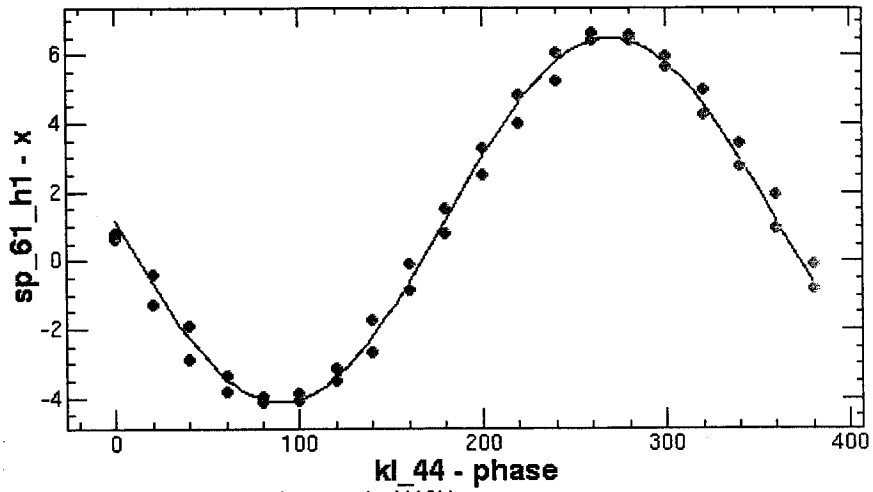
ChiSquare = 5.47297 Goodness = .46907
a = 5.31367 +/- .09012 c = 809.828 +/- .89738 d = 1.17036 +/- .06136



Function = (d+(a Cos[(.0174532925 (-180+x+(-c)))]))

Es	Pf	現場 Pf	a	
- 30	~~降らず~~ 12.2	13.4 ~ 13.7	3.1251 ± 0.06333	81.3MeV
31	14.3	15.0 ~ 15.3		
32	16.0	16.7 ~ 16.9		
33	17.9	18.4 ~ 18.6		
34	19.4	20.0 ~ 20.3		
- 35	21.0	21.9 ~ 22.1		
36	22.8	23.6 ~ 23.9		
37	24.6	25.3 ~ 25.7		
38	26.3	27.2 ~ 27.5		
39	28.1	29.0 ~ 29.3		
⇨40	30.2	30.8 ~ 31.1	4.77889 ± 0.07484	124.3MeV
41	31.7	32.5 ~ 32.8		
⇨42	33.4	34.4 ~ 34.7	4.91574 ± 0.08064	127.9MeV
43	35.6	36.2 ~ 36.6		
⇨44	37.5	38.2 ~ 38.6	5.29601 ± 0.14910	137.7MeV
- 45			5.18618 ± 0.08923	134.9MeV
45.5	40.3	41.42 ?		138.2MeV

$\frac{\text{現場 Pf}}{\text{~~現場~~ Pf}} = 1.0277$

Es = 40.0

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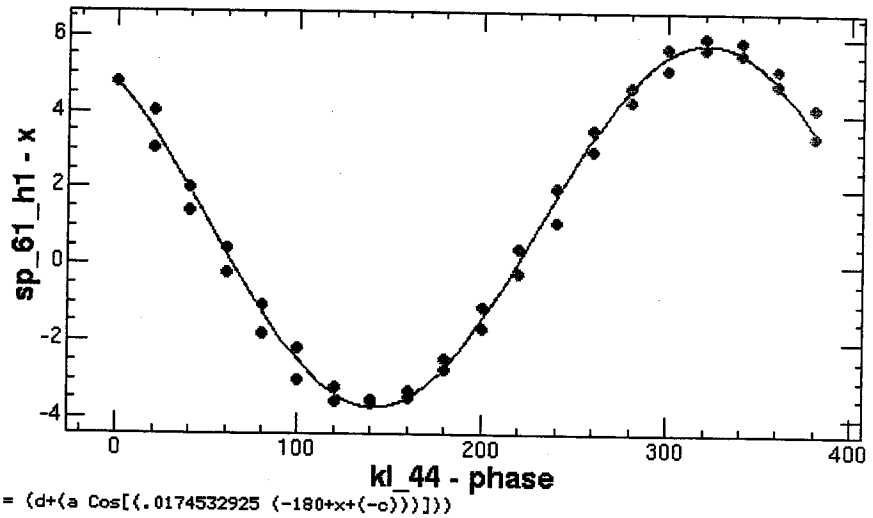
ChiSquare = 4.03133 Goodness = .46907
a = 4.77889 +/- .07484 c = 141.366 +/- .88766 d = 1.03802 +/- .05266



Function = (d+(a Cos[(.0174532925 (-180+x+(-c)))]))

Es = 42.0

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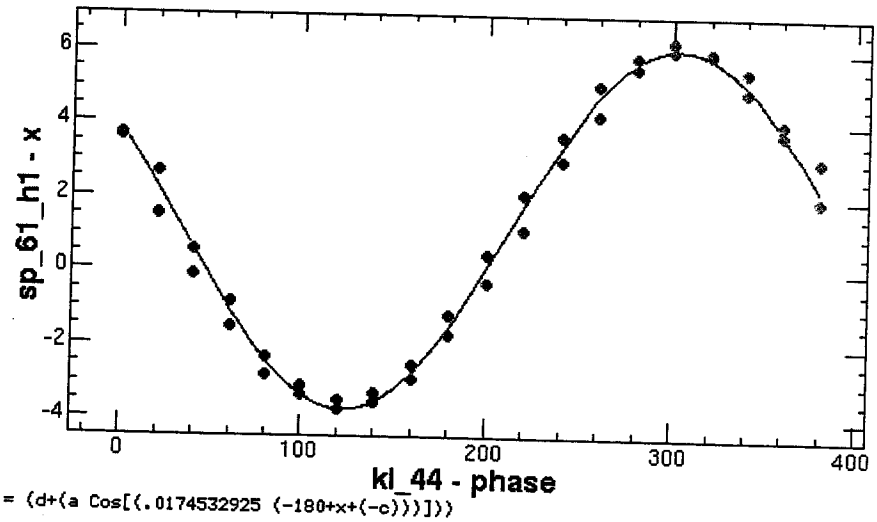
ChiSquare = 4.46412 Goodness = .46907
a = 4.91574 +/- .08064 c = 122.707 +/- .88549 d = 1.15087 +/- .05541



Function = (d+(a Cos[(.0174532925 (-180+x+(-c)))]))