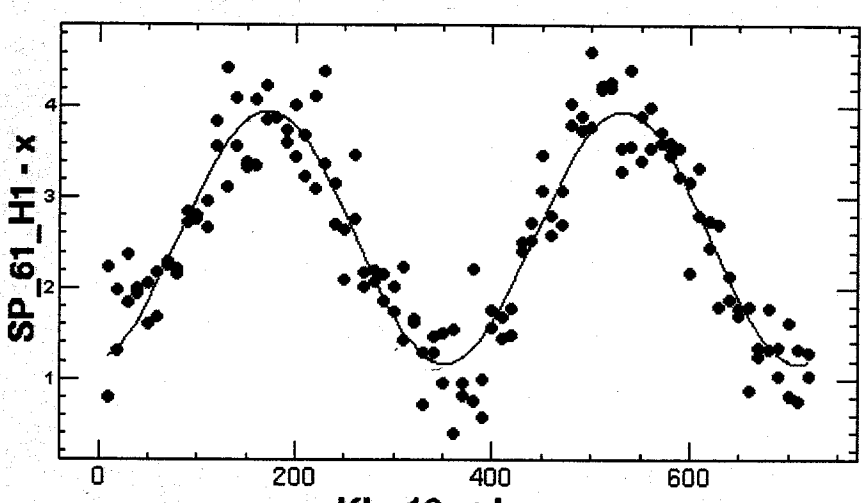
File Edit Window 02/06/2009 15:19:29 Help

ChiSquare = 22.5951 Goodness = .48416
a = -1.3904 +/- .04718 c = 171.236 +/- 1.94401 d = 2.55831 +/- .03336



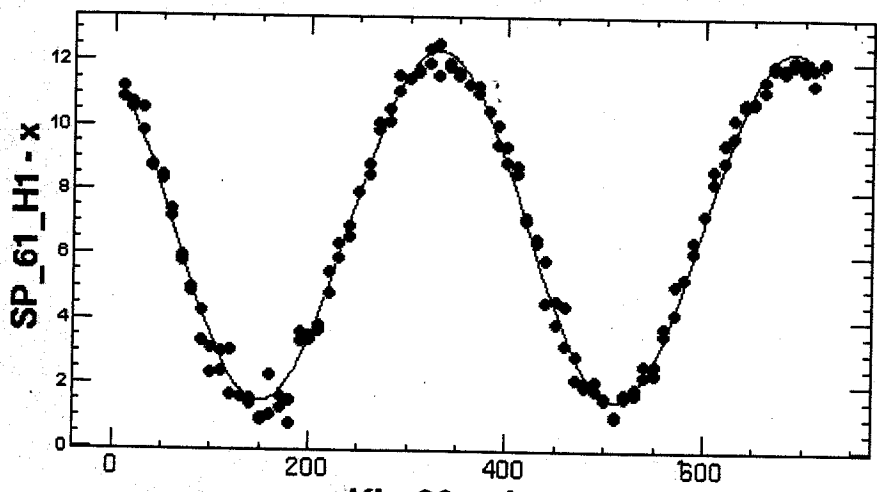

Function = (d+(a Cos[(.0174532925 (-180+x+(-c)))]))

KL_18vsSP_61_H1 on 172.19.66.32:0.0

reference KL-22 の gain を決定

File Edit Window 02/06/2009 15:29:46 Help

ChiSquare = 25.6904 Goodness = .48416
a = 5.44010 +/- .05030 c = 150.019 +/- .52993 d = 6.92690 +/- .03557

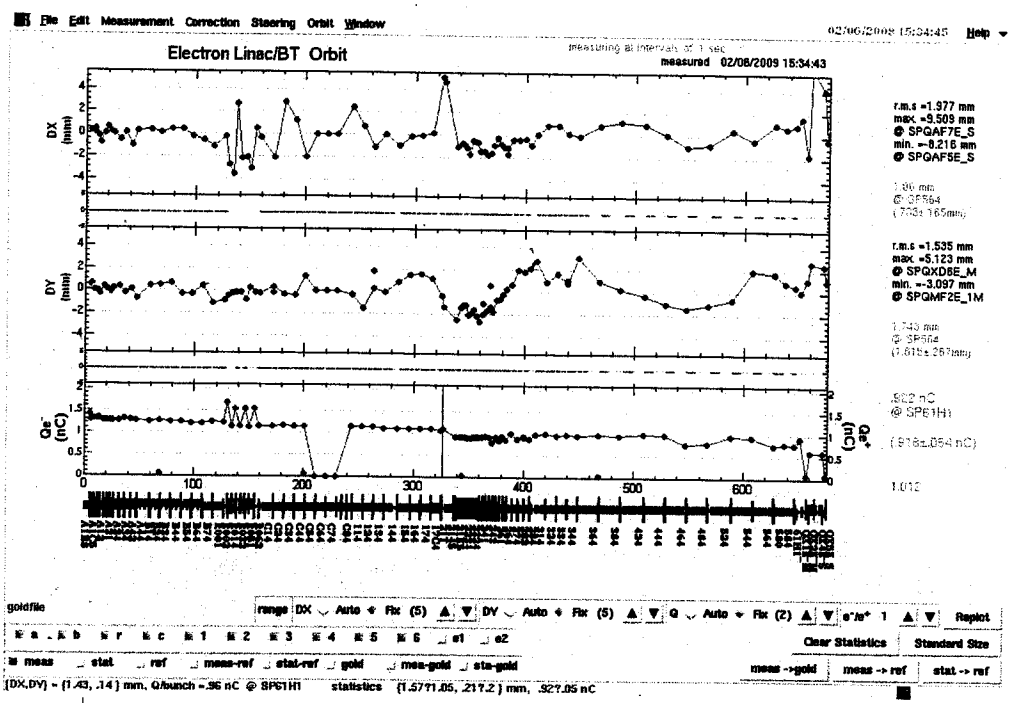



Function = (d+(a Cos[(.0174532925 (-180+x+(-c)))]))

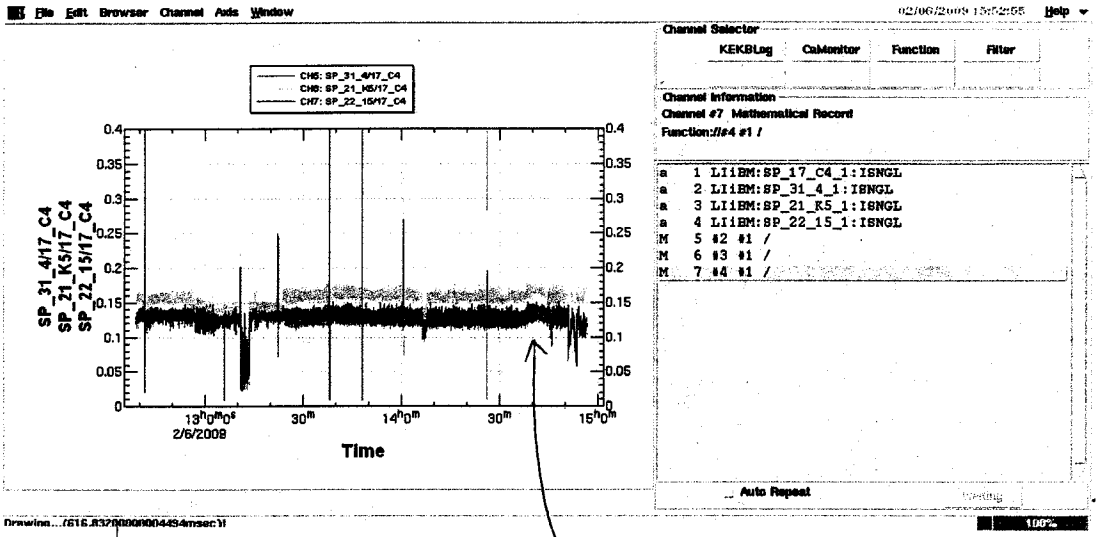
KL_22vsSP_61_H1 on 172.19.66.32:0.0

KL-22が160 MeVで守ると

$160 \times \frac{1.39}{5.44} = 40.9$ MeV　パルス幅を広げるを捨うにおもた



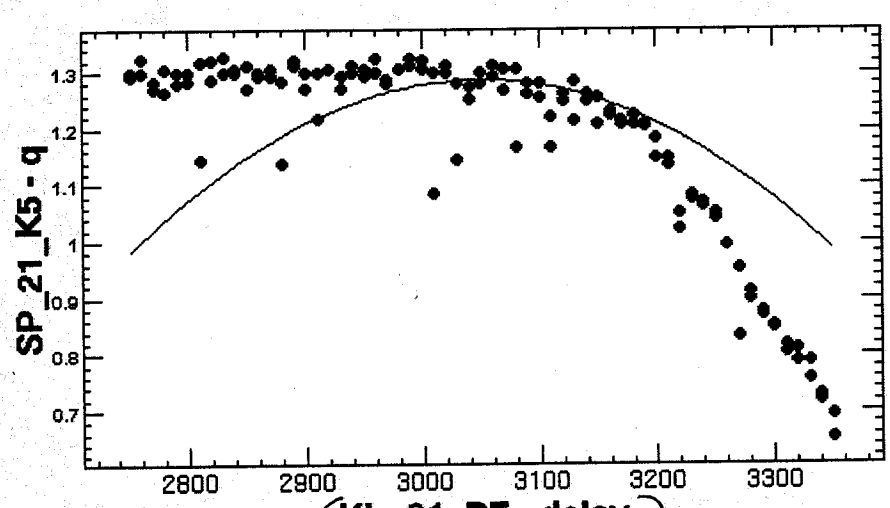

この軌道で Energy 測定




KL-18 パルス巾 1μs に広げた時

File Edit Window 02/06/2009 16:03:30 Help

ChiSquare = 2.68844 Goodness = .48276
a = -3.4E-6 +/- 4.91E-7 b = 3049.99 +/- 11.4637 c = 1.28699 +/- .02042




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

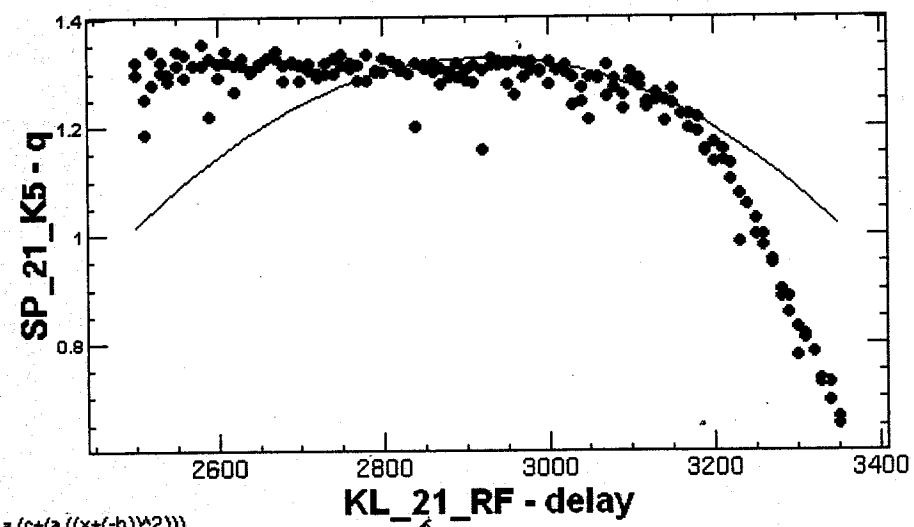
KL-18-RF Timing

KL_21_RFvsSP_21_K5 on 172.19.66.32:0.0

KL-18. RF ± 300 ns Scan

File Edit Window 02/06/2009 16:12:32 Help

ChiSquare = 3.02891 Goodness = .48553
a = -1.7E-6 +/- 1.85E-7 b = 2925.00 +/- 11.8725 c = 1.32911 +/- .01531




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

18

KL_21_RFvsSP_21_K5 on 172.19.66.32:0.0

KL-18, 21 の φE 同時に 15 deg ずつ Scan して

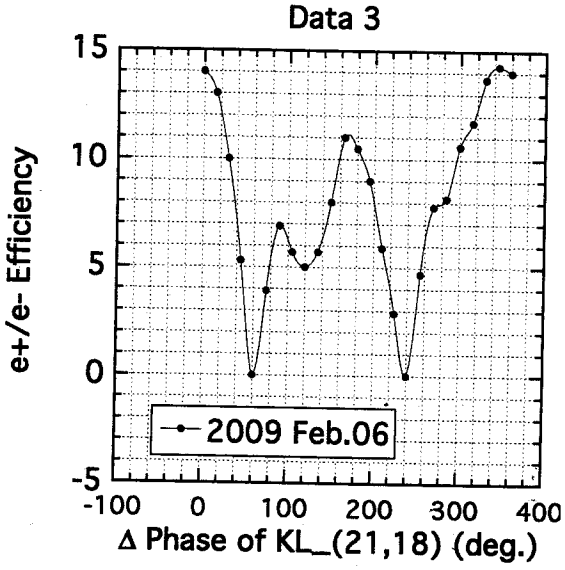
SP_22-15 の生成効率を測定

def. KL-18 θ = 165.5

〃 KL-21 θ = 305.2

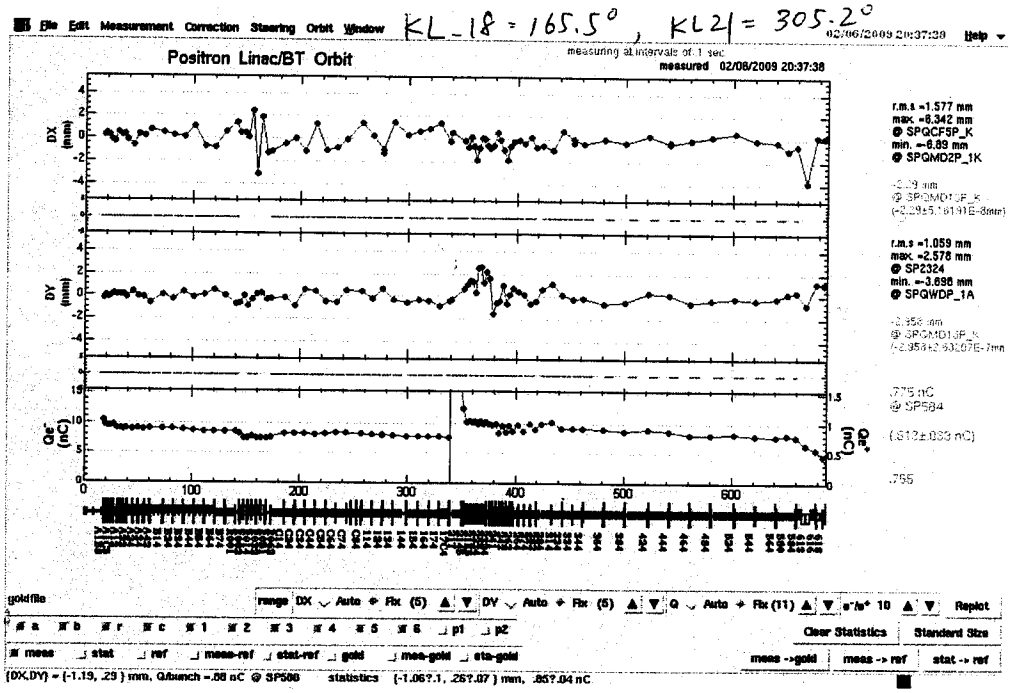
| | | | |
|---|---|---|---|
| Δθ= 0° | SP 22-15 | 14 % | |
| Δθ=+15° | 〃 | 13 % | |
| 30° | 10 % | 270° | 7.8 % |
| 45° | 5.3 % | 285° | 8.2 % |
| 60° | 0 % | 300° | 10.6 % |
| 75° | 3.9 % | 315° | 11.7 % |
| 90° | 6.9 % | 330° | 13.7 % |
| 105° | 5.7 % | 345° | 14.3 % |
| 120° | 5.0 % | 360° | 14 % |
| 135° | 5.7 % | | |
| 150° | 8.0 % | | |
| 165° | 11 % | | |
| 180° | 10.5 % | | |
| 195° | 9.0 % | | |
| 210° | 5.9 % | | |
| 225° | 2.9 % | | |
| 240° | 0 % | | |
| 255° | 4.7 % | | |

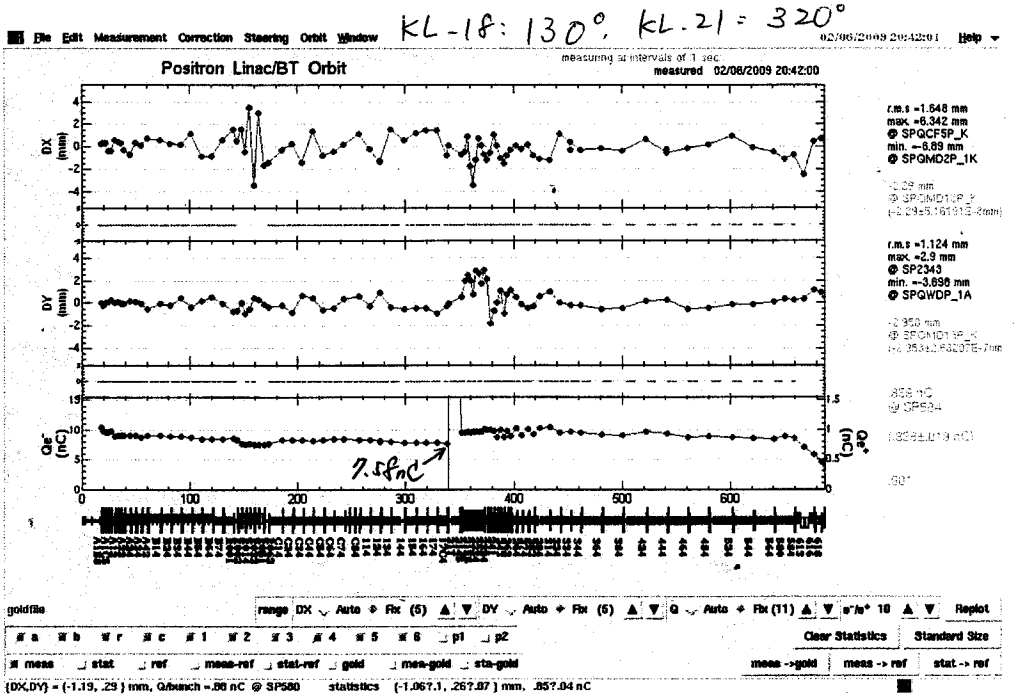
2山になっている ⇒ パルスコイルの極性まちがっていない



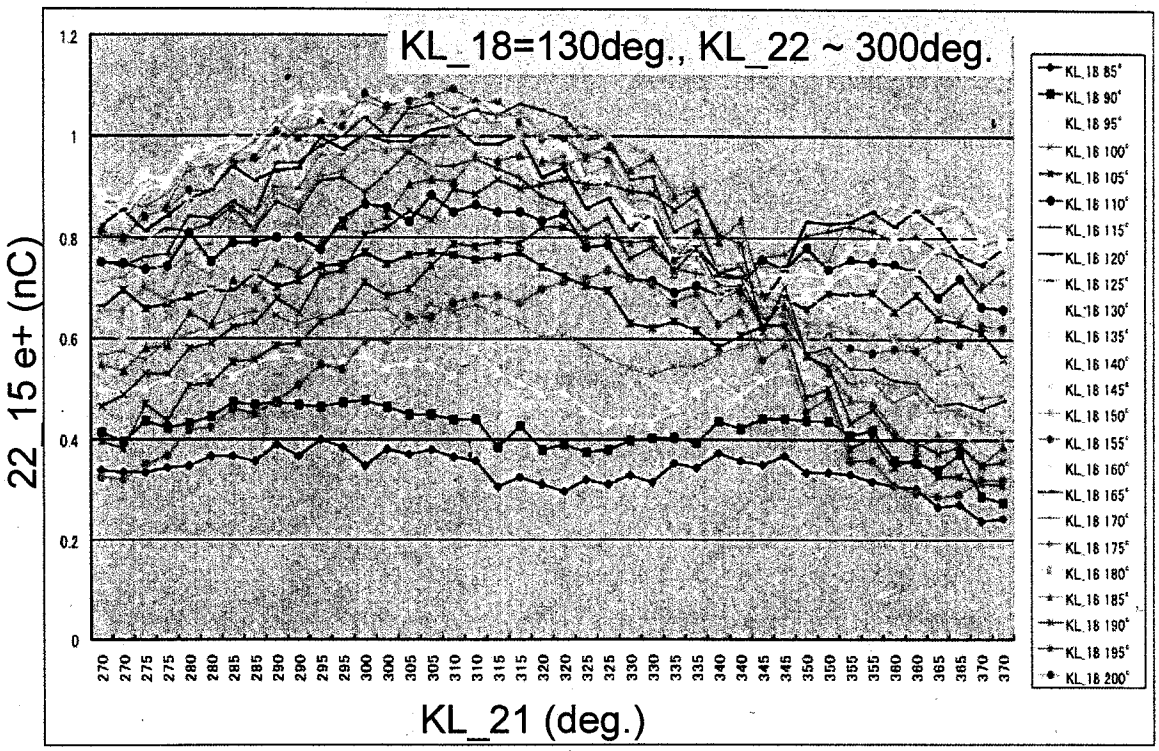
ターゲット入射 7.58 nC.

KL-18, 21 phase scan



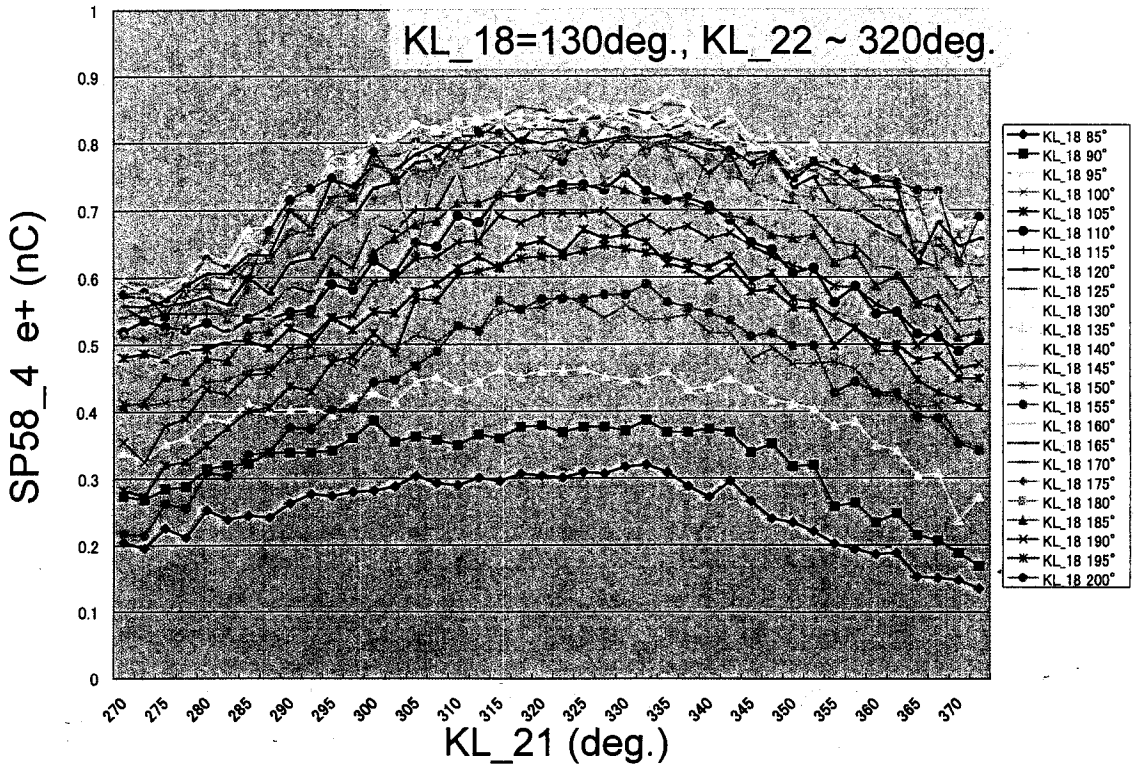



Phase Scan 7.58 nC @Target直前




4

Phase Scan 7.58 nC @Target直前




6

77

(古川 三菱の方々)

09'/2/12 ① BT/BPM Pulse-to-pulse 仕様でのオシロで data とり 未試

② ARS の BPM に trigger がいかない 問題があって (未試)

②に関しては E/O モジュールが これれていたので交換

CBT1. ~~CBT2~~. ARS ARW 全てのオシロでの Trigger Timing を調整し直す必要がある

ARS … ケーブル 2ns をトリガーに足した.

ARW … ~~ARS~~ オシロの Trigger を ⓔ 6.400 μs → 6.396 μs

ⓔ' 6.452 μs → 6.448 μs

(Beamで)
eは確認 済み
e'は未確認。

③ → 何故か. BT/BPM のトリガーが出なくなった。
明日 要調査。

'08/2/13
11:40 結局.

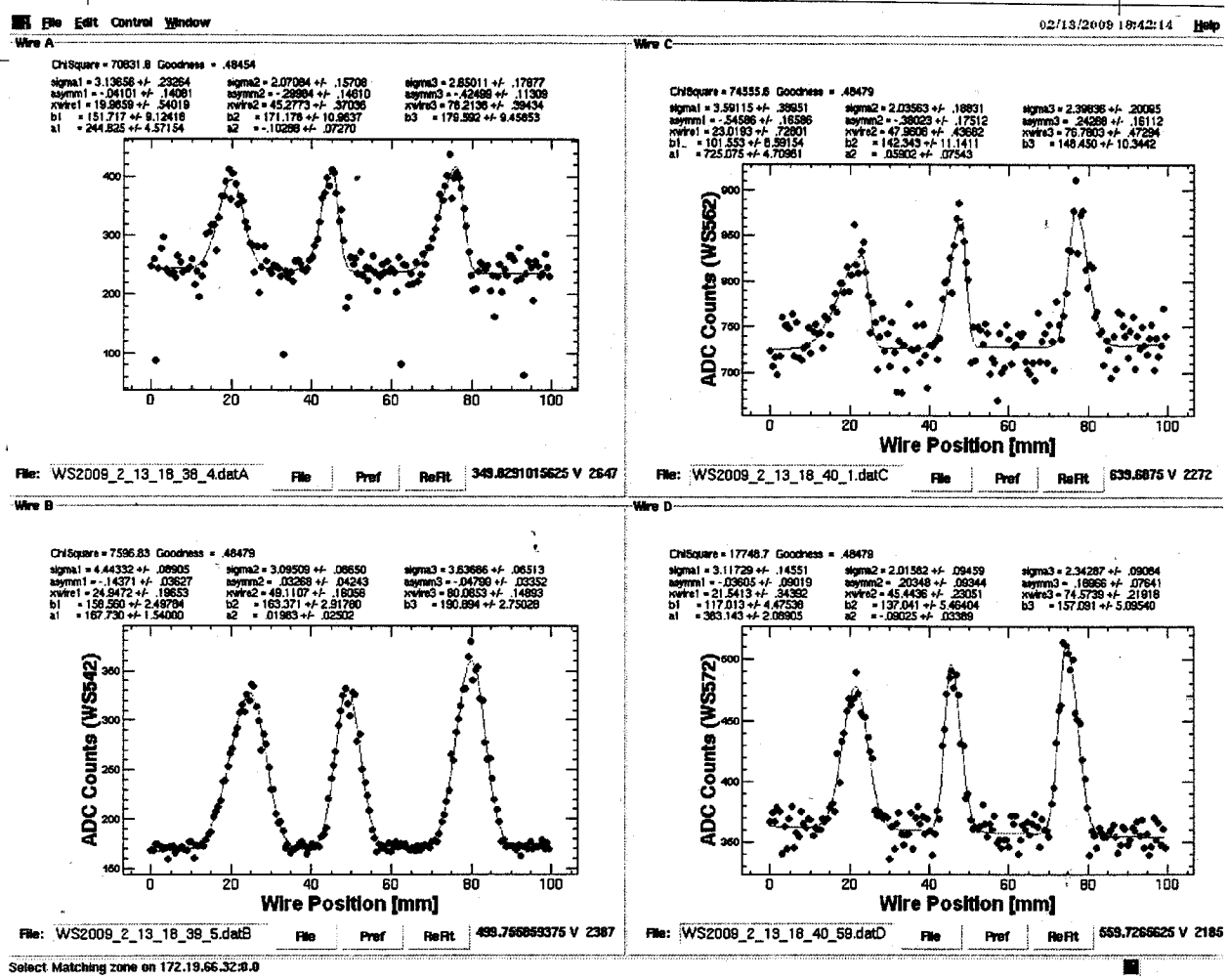
① E/O の入っている NIM 電源の故障

② Optical ケーブルのコネクターがゆるんでいた

③ ARS に送る E/O のレーザーダイオードが 1ch 死んでいた.

18:40 ④ ARS に送る E/O … さらに 1ch …

eye # 通 Optics で et 5 to 77 - Matching

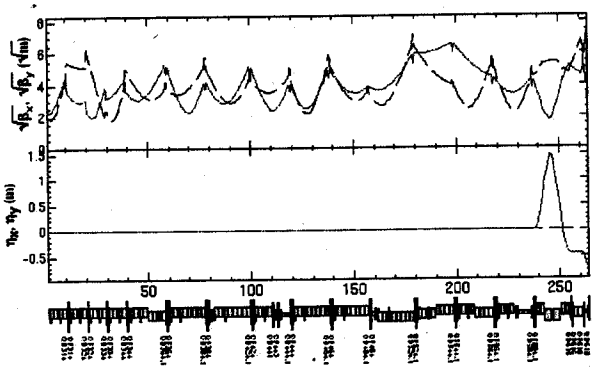


File Edit Window 02/13/2009 19:47:29 Help

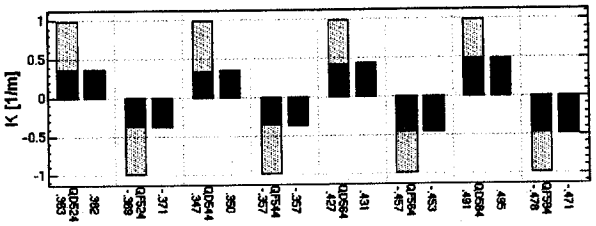
Wire Scan | Optics Calculate | Matching

Matching Residual = 4.2214E-28

Matching Conditions
QD544 QF584: $\beta_x$ < 60.00 43.15825
QD544 QF584: $\beta_y$ < 60.00 35.03213




Strength of Free Qmag (QX*)



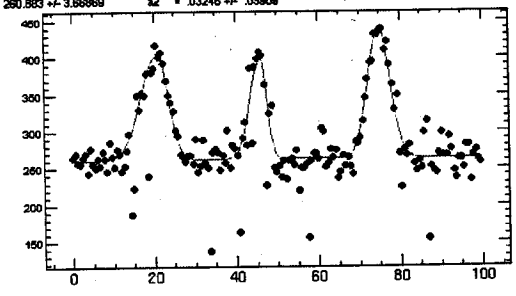

Matching Calculation
Calc Matching
Recover Calculation
Reset Calculation
Q-mag Set
Q-mag Read&Write
Read Q-Mag from File
Save Q-Mag to File

Qmag values were SAVEd to /data1/KEKB/Wire/LINAC/sector5/KEKBp/data/Qvalues/qname_2009_2_13_18_46_5.dat0

File Edit Control Window 02/13/2009 18:56:22 Help

Wire A

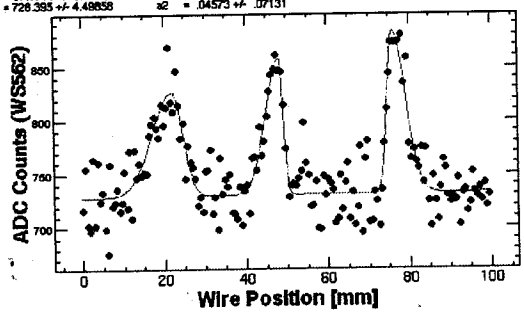
ChiSquare = 45095.6 Goodness = .48422
sigma1 = 3.31368 +/- .22269 | sigma2 = 2.00115 +/- .16336 | sigma3 = 2.71610 +/- .14828
asymm1 = -.19508 +/- .12166 | asymm2 = -.23922 +/- .16466 | asymm3 = .03087 +/- .10866
xwire1 = 20.9168 +/- .48868 | xwire2 = 48.0415 +/- .42471 | xwire3 = 74.8214 +/- .35525
b1 = 144.520 +/- 7.50136 | b2 = 136.967 +/- 9.29819 | b3 = 176.415 +/- 7.92672
a1 = 260.883 +/- 3.66869 | a2 = .03246 +/- .05909



File: WS2009_2_13_18_52_12.datA | File | Pref | ReFit | 349.8231015625 V 2640

Wire C

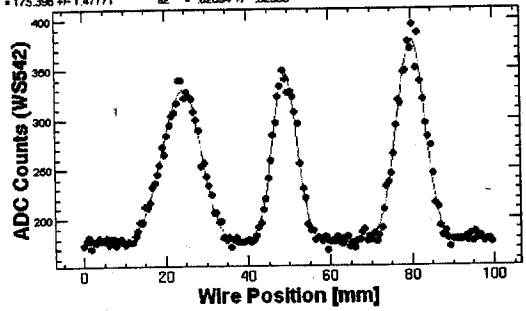
ChiSquare = 68029.3 Goodness = .48479
sigma1 = 3.71472 +/- .39248 | sigma2 = 2.14201 +/- .20738 | sigma3 = 2.23184 +/- .17993
asymm1 = -.28492 +/- .18708 | asymm2 = -.53063 +/- .16328 | asymm3 = .43475 +/- .14334
xwire1 = 21.9473 +/- .84931 | xwire2 = 46.2362 +/- .42742 | xwire3 = 75.9573 +/- .38136
b1 = 97.1714 +/- 8.10311 | b2 = 127.225 +/- 10.3940 | b3 = 152.335 +/- 10.2232
a1 = 726.395 +/- 4.49858 | a2 = .04573 +/- .07131




File: WS2009_2_13_18_54_28.datC | File | Pref | ReFit | 639.6875 V 2273

Wire B

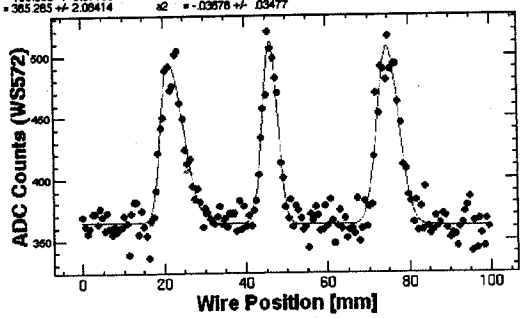
ChiSquare = 6682.72 Goodness = .48479
sigma1 = 4.66199 +/- .08671 | sigma2 = 2.93120 +/- .05792 | sigma3 = 3.43287 +/- .05542
asymm1 = -.13121 +/- .03412 | asymm2 = -.03447 +/- .03915 | asymm3 = -.07345 +/- .03053
xwire1 = 24.7376 +/- .19381 | xwire2 = 49.2637 +/- .14036 | xwire3 = 80.2629 +/- .12808
b1 = 154.753 +/- 2.29757 | b2 = 170.562 +/- 2.80823 | b3 = 201.979 +/- 2.84376
a1 = 175.396 +/- 1.47771 | a2 = .02094 +/- .02356




File: WS2009_2_13_18_53_33.datB | File | Pref | ReFit | 499.756859375 V 2388

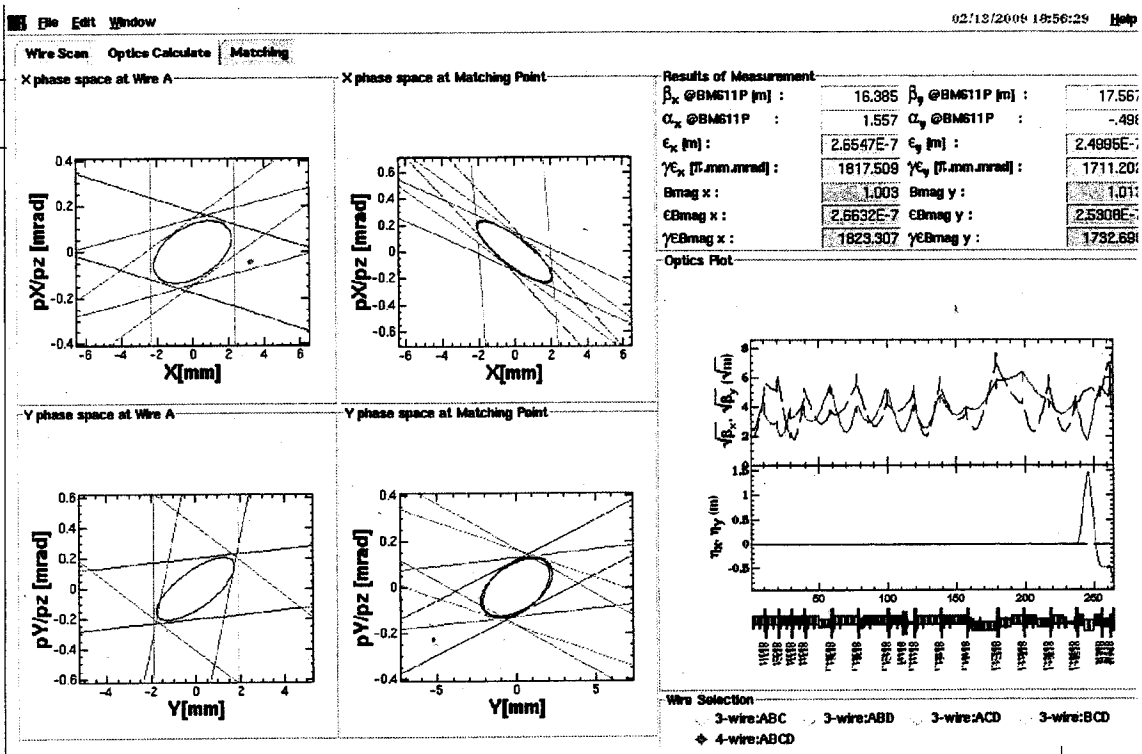
Wire D

ChiSquare = 19778.1 Goodness = .48479
sigma1 = 2.67577 +/- .12389 | sigma2 = 1.81531 +/- .08739 | sigma3 = 2.82131 +/- .11108
asymm1 = .32518 +/- .08689 | asymm2 = -.01934 +/- .09865 | asymm3 = .06288 +/- .08382
xwire1 = 21.2468 +/- .28462 | xwire2 = 46.2246 +/- .21928 | xwire3 = 74.9074 +/- .26899
b1 = 130.866 +/- 5.07196 | b2 = 147.973 +/- 8.06573 | b3 = 144.340 +/- 5.09960
a1 = 385.285 +/- 2.08414 | a2 = -.03576 +/- .03477




File: WS2009_2_13_18_55_27.datD | File | Pref | ReFit | 559.7265625 V 2186

Select Matching zone on 172.19.66.32:8.0




SHB 2 a 1st 相 91 → 92°

SB KBE Delay 1199 → 1197

GUN Delay 1.95 → 1.94