

21

5/31(K)

16:00

simple correlation  
OVERALL -5 の調整

調整前 OVERALL -5 = 73023

File Edit Window

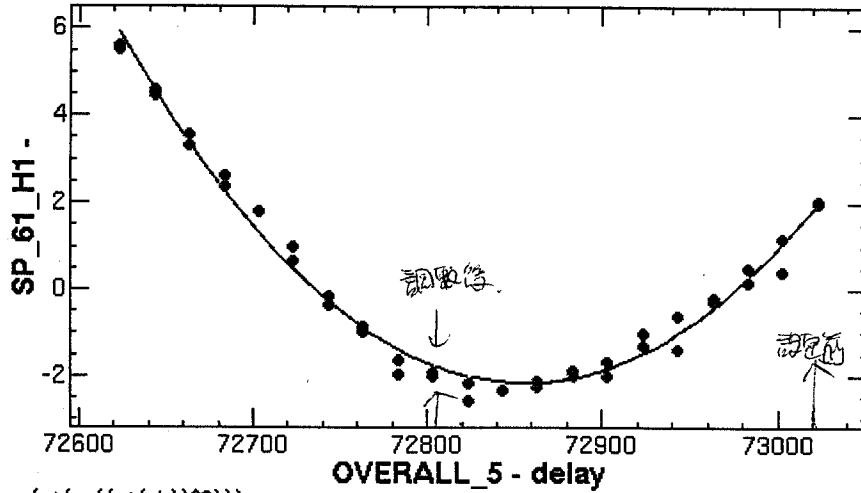
08/31/2004 16:06:48 He

ChiSquare = 3.33202 Goodness = .46988

a = 1.50E-4 +/- 3.45E-6

b = 72855.5 +/- 1.45065

c = -2.1845 +/- .06622



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

↓  
Energy Feedback is ON

これは 150ns の RF の遅れ、  
原因不明

KL 51 = 109°  
52 = 276°

724  
65.3°  
315°

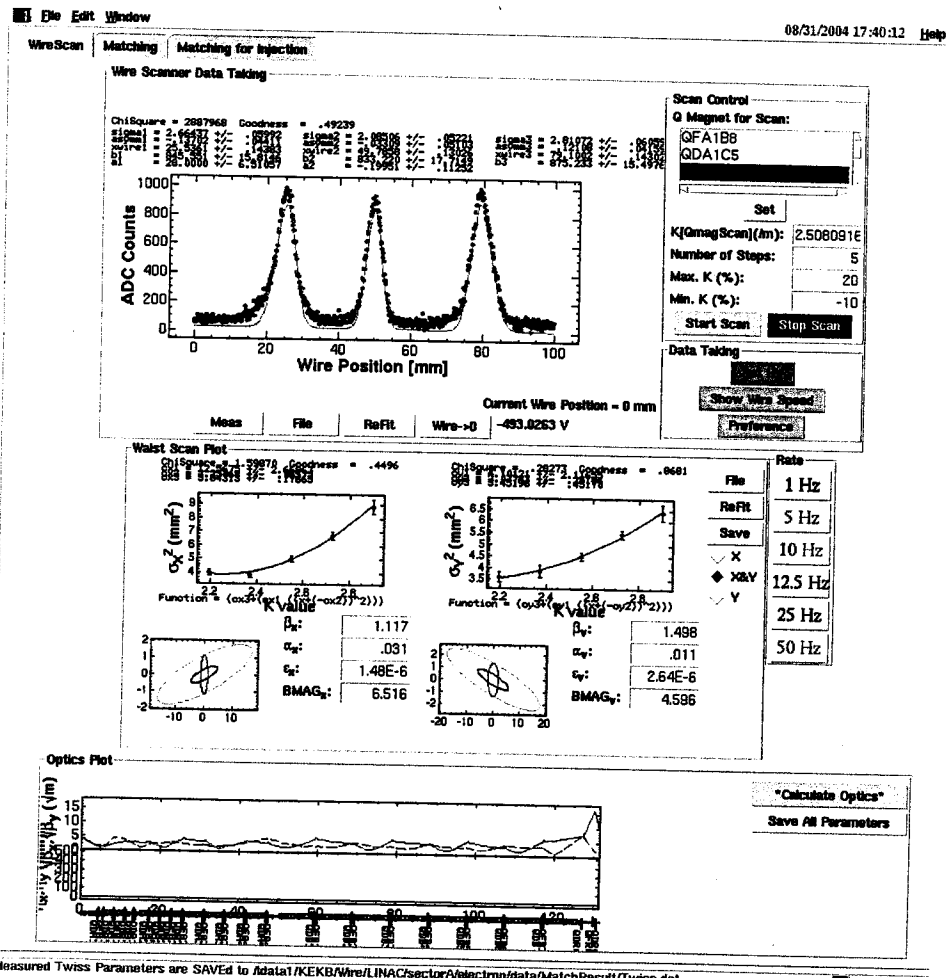
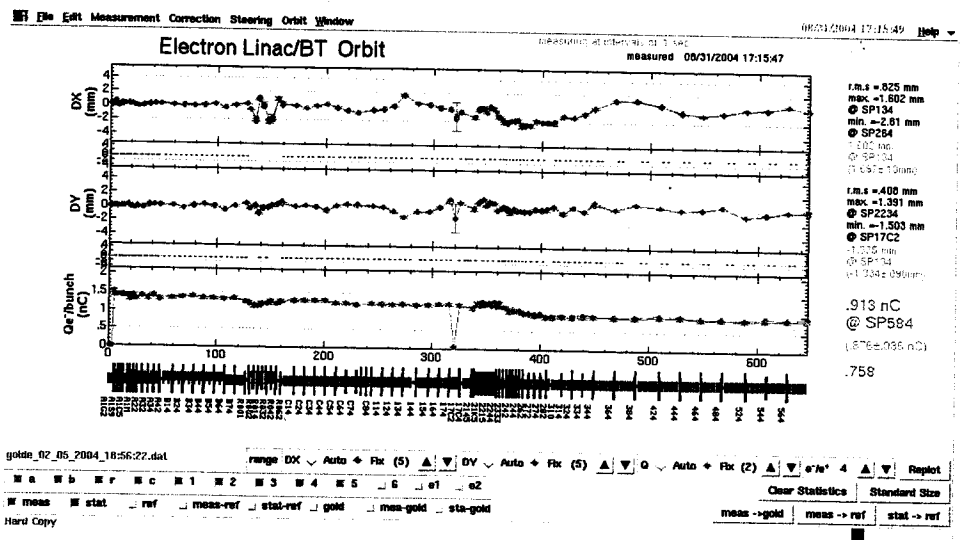
90°

$$320 \times (1 - \cos(90^\circ)) = 75 \text{ MeV } \Delta 2\text{-ジ}$$

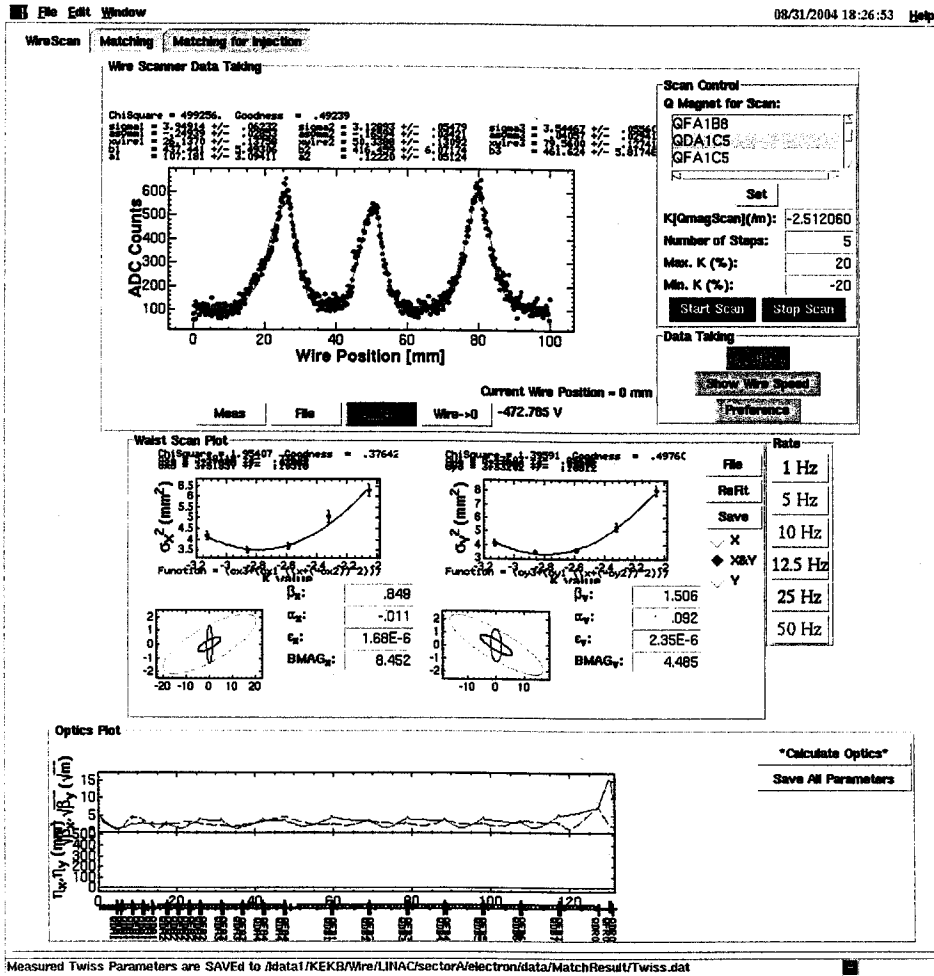
Knob を 2. Energy 2 - ジン 75

8.075 GeV

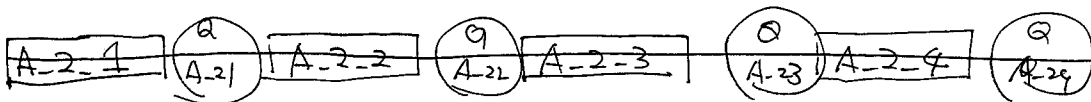
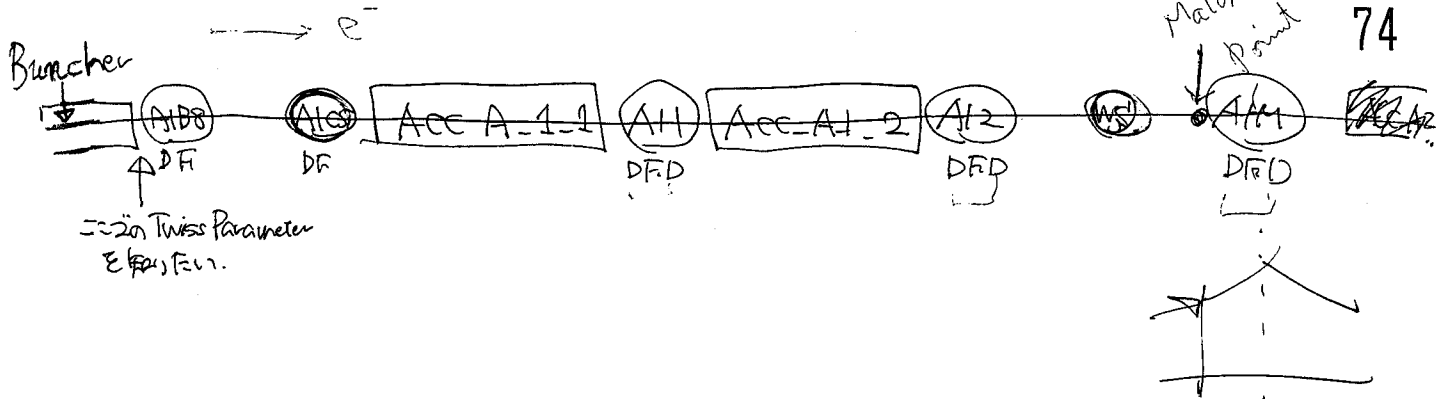
← 8.0049 (前日)



A1 Wire scanner Q-scan (1)



A1 wire  
Q-scan (2)



16:50

PF-RING 用 e<sup>-</sup> 調整 6A300 のパラメータ

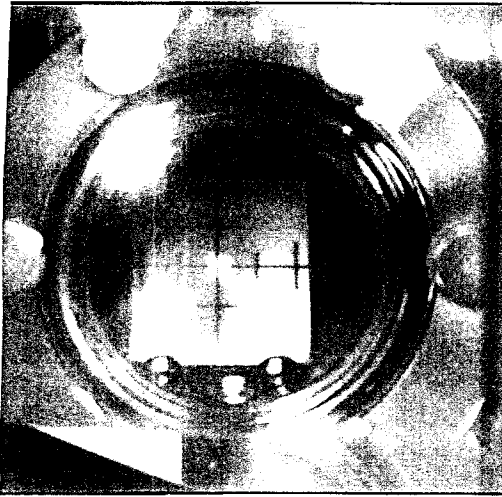
スクリーンで e<sup>-</sup> スポットを確認

20:00

BPM のタイミング調整 → OK (吉川氏)

20:45

CT-B<sup>9</sup> パンチャー出口



20:20 CT-G パンチス電圧  
(0500 → 0670)  
156.7V → 201.5V

0.5nC → 0.2nC

Linac Orbit Correction 開始.

KL-22 - standby

KL-23 ACC.

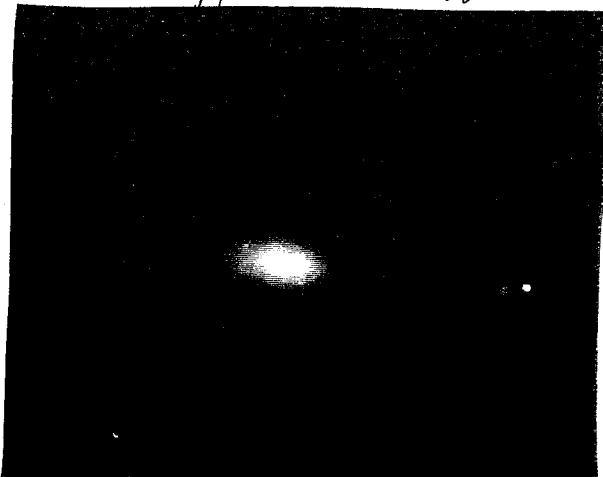
KL-28 standby

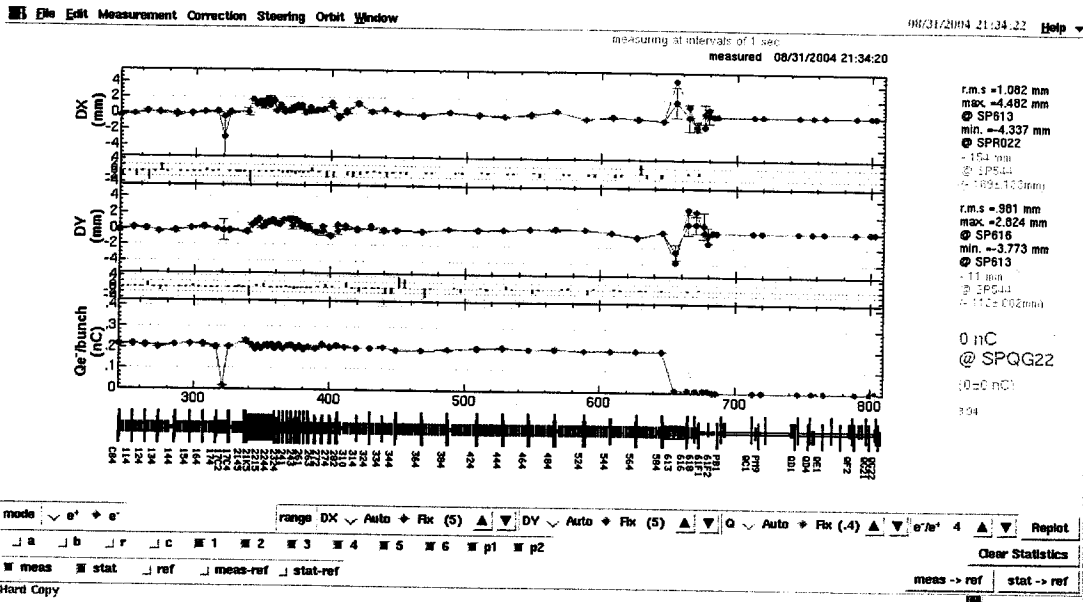
KL-31 Acc

※ 交互に ACC と STB を 実行。

BM-61-1 110.256 A 2.5046 GeV.

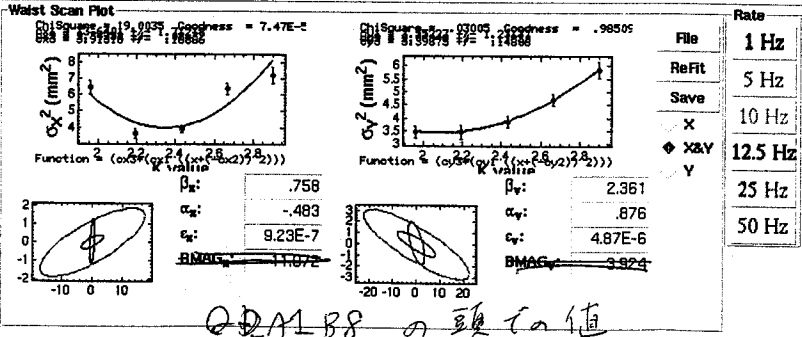
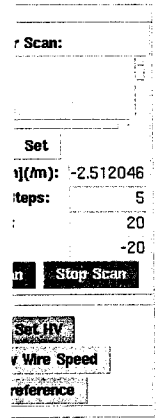
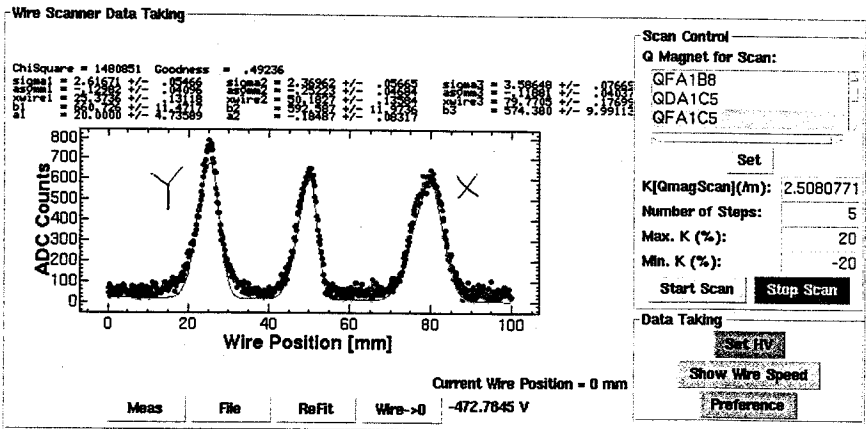
Energy knob 2.5322



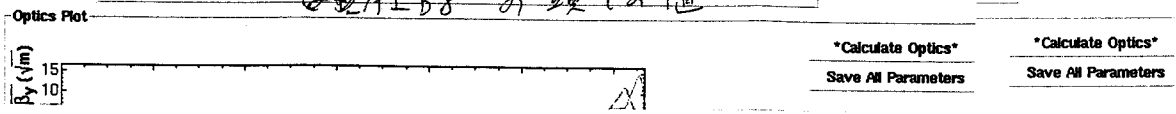


Orbit 電定化のための Data 取り  
S[XY]-61-[68] vs. SP-61-F[12]

DFFD  
の計算  
の場合  
(X,Y)の  
DFFD)



QDA1B8 の値



9/1 (水) 昼泊 207, 指し

- 矢野 VS R-7 - offset 調整.
- 瓶谷/大西. @ A1-C5. @ A1-BF a 秘極 T<sub>207</sub> a z a a 1200入室
- 杉野: two bunch 用 & 特殊 調整 → 1200 復帰 30
- kly-C3 調整交換.

瓶谷 目録.

two bunch e<sup>+</sup> 5077-既調整.

10:00

1200入室 瓶谷/大西.

10:23

調整 調整終了 / C3 調整交換終了.

B8		
Q A1- <del>BF</del>	Q A1-C5	
BF	BF	(2 bunch 用 E (1200 check して))

10:47

kelebe e<sup>+</sup> on on.

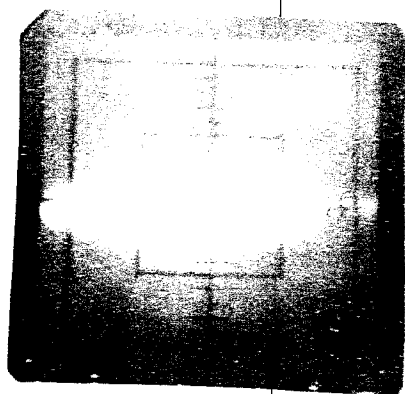
10:54

1200 1200 mode (1200) a 204 0218 OK!!

10:58

1200 1200 Ave Energy Spread 調整

$\Delta B A \phi \quad \Delta \phi = 2.5 \text{ deg}$   
 $\Delta B B \phi \quad \Delta \phi = 2.5$



11:06

Buncher 2020a 2200-調整

delay 12

1st 1.329 ns

2nd 2.484 ns

5C-R0-3/

1200 の 02

11:35

kelebe Ready a 調整 0202 Ready 2

調整 0202 0202

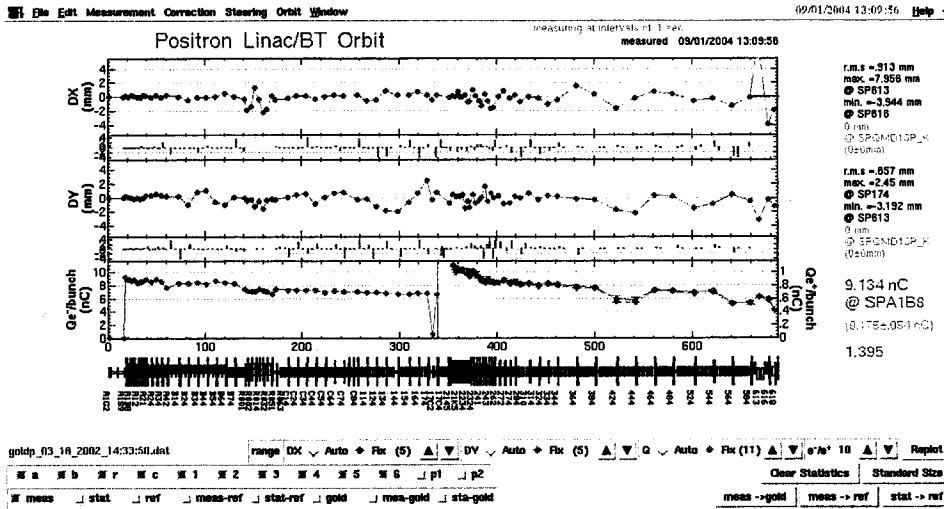
→ 調整 0202 2 bunch 0202 調整 0202

Analyzer ST 2 bunches A1 7000 0202 on 調整 1200.

7000 0202 → 調整 0202 調整 0202

13:00

er beam sub A.B of 調整後, orbit history.



13:12

Bunches count 調整 - 遅延 2 bunches

①

Energy at A1B8  
1st 17.77 MeV.  
2nd 17.56 MeV

st BX-A1-B8

SP SP-A1-C5

start -1 A, stop 0.2A step 2 A.

Crn delay FB ON/AZ

Delay 1 1.688  
Delay 2 2.457

FB off

②

Set Delay 2nd 2.468ns

1st E = 17.69  
2nd E = 17.316

③

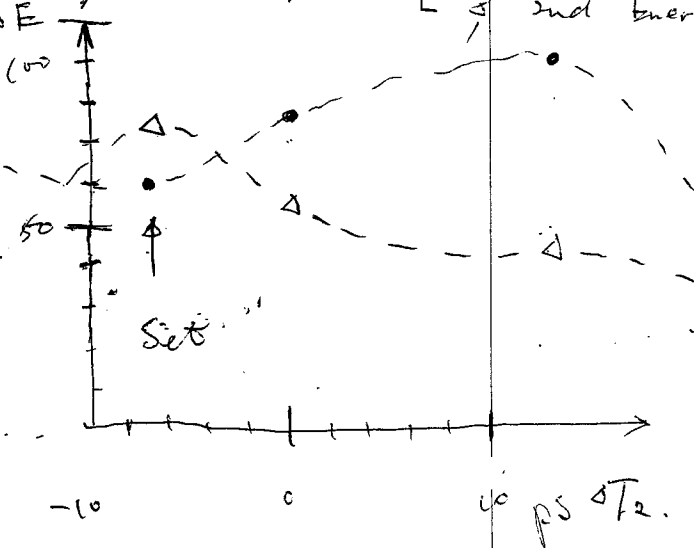
Set Delay 2nd = 2.47 ns

1st E = 17.901  
2nd E = 17.447

④

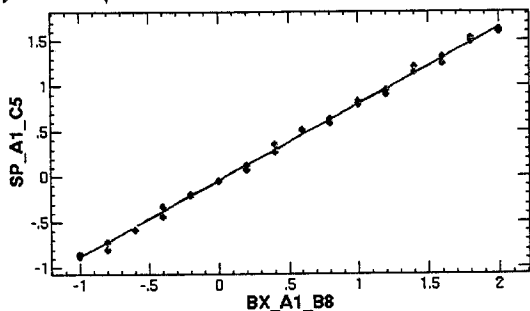
Set Delay 2nd = 2.48ns

1st E = 17.404  
2nd E = 17.313



File Edit Window Delay2 = 2.457 09/01/2004 13:21:55 Help  
ChiSquare = .04857 Goodness = .46565  
a = .84700 +/- .00772 b = -.04790 +/- .00809

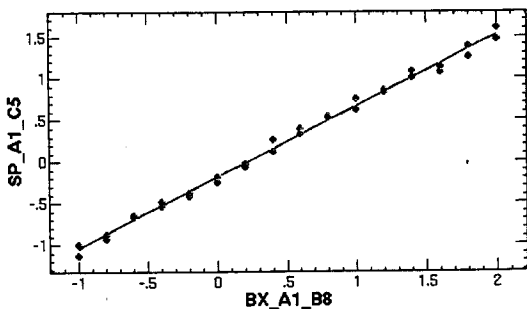
1.0 2



Function = (b+(a x))

Energy at A1\_B8 : 17.768672167651254 MeV

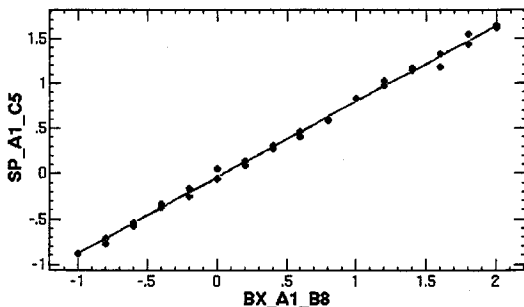
ChiSquare = .09977 Goodness = .46565  
a = .85692 +/- .01106 b = -.18815 +/- .01160



Function = (b+(a x))

Energy at A1\_B8 : 17.562917771428084 MeV

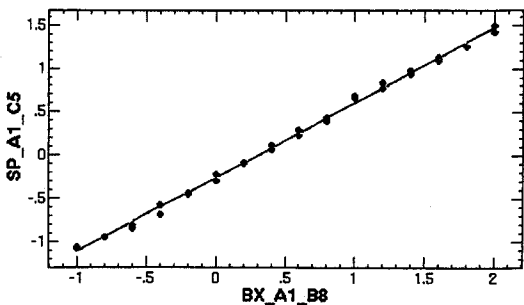
Hard Copy File Edit Window Delay2 = 2.47 09/01/2004 13:32:24 Help  
ChiSquare = .05960 Goodness = .46565  
a = .84069 +/- .00855 b = -.04391 +/- .00896



Function = (b+(a x))

Energy at A1\_B8 : 17.901936431857553 MeV

ChiSquare = .05306 Goodness = .46565  
a = .86261 +/- .00806 b = -.25321 +/- .00846



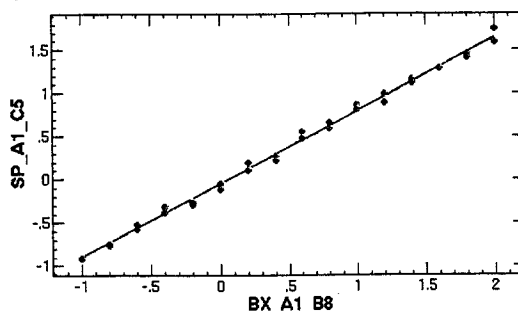
Function = (b+(a x))

Energy at A1\_B8 : 17.44718642623037 MeV

Main Application Area

File Edit Window Delay2 = 2.44 09/01/2004 13:26:32  
ChiSquare = .07005 Goodness = .46565  
a = .85061 +/- .00927 b = -.05602 +/- .00972

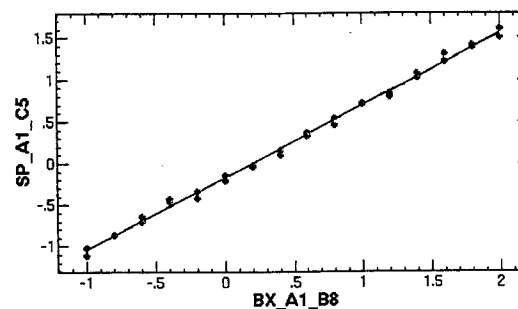
2 2 2



Function = (b+(a x))

Energy at A1\_B8 : 17.693255246039808 MeV

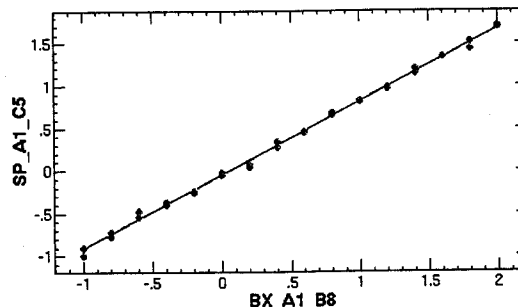
ChiSquare = .06123 Goodness = .46565  
a = .86911 +/- .00866 b = -.17565 +/- .00908



Function = (b+(a x))

Energy at A1\_B8 : 17.316486110347349 MeV

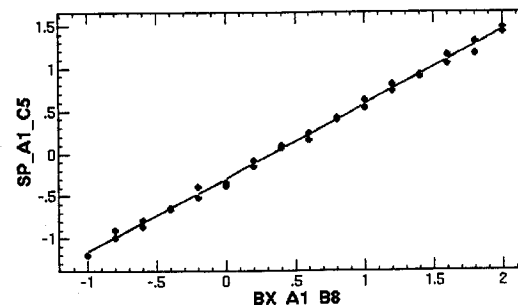
Hard Copy File Edit Window Delay2 = 2.48 09/01/2004 13:40:08  
ChiSquare = .04338 Goodness = .46565  
a = .86475 +/- .00729 b = -.05334 +/- .00765



Function = (b+(a x))

Energy at A1\_B8 : 17.403947944611442 MeV

ChiSquare = .06819 Goodness = .46565  
a = .86928 +/- .00914 b = -.29911 +/- .00959



Function = (b+(a x))

Energy at A1\_B8 : 17.313117215420073 MeV

Main Application Area



(5)

Delay 2 = 2.45 ns.

1st E = 17.6 MeV

2nd E = 17.76 MeV ok

GU-A1-G Grid Delay for e<sup>-</sup>

offset (by a factor)

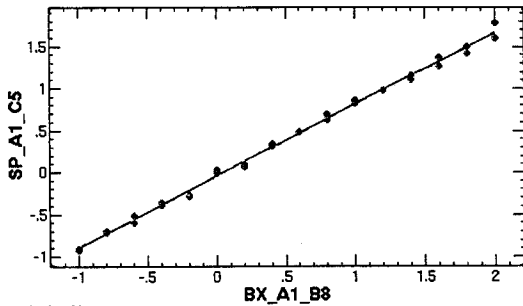
$4.477 \times 10^{-9} \rightarrow 4.467 \times 10^{-9}$

Gain -7.0e7 (2 R.)

↑

Set

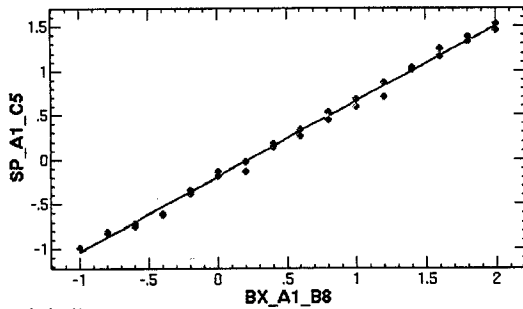
Edit Window Delay 2 = 2.45 09/01/2004 13:53:26 Help  
 r = .06170 Goodness = .46565  
 8511 +/- .00870 b = -.04352 +/- .00912



on = (b+(a x))

Energy at A1\_B8 : 17.600144460830051 MeV

r = .08605 Goodness = .46565  
 84728 +/- .01027 b = -.19720 +/- .01077

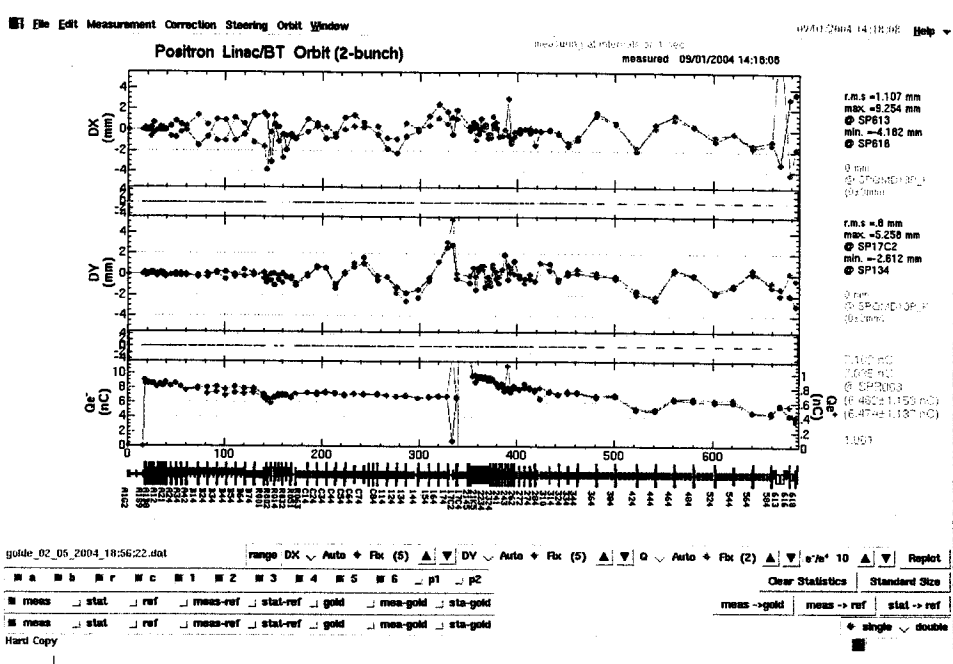


on = (b+(a x))

Energy at A1\_B8 : 17.762735398767695 MeV

Application Area

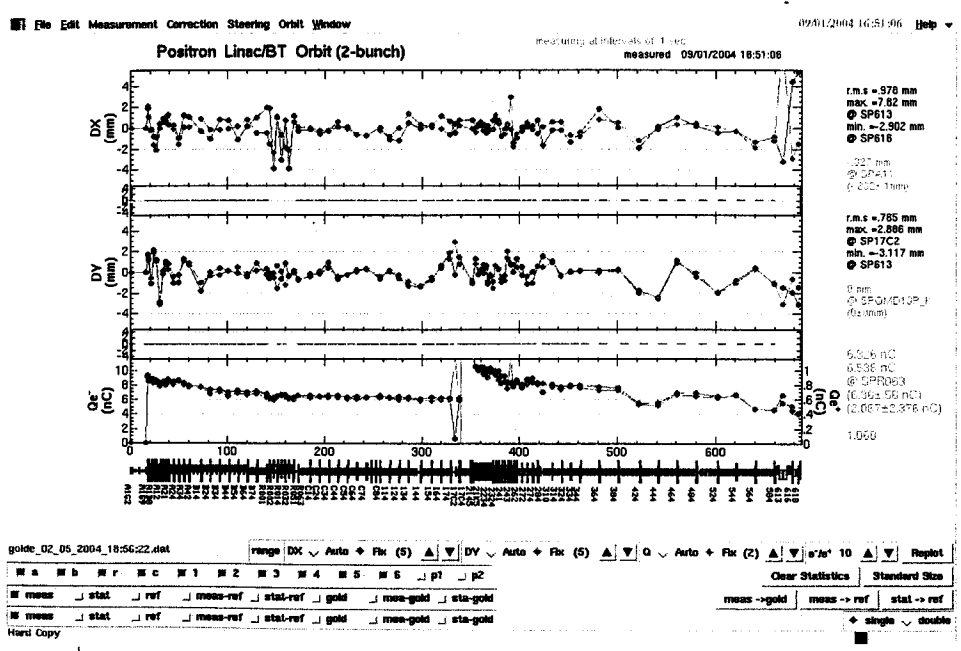
14:05 Orbit F/B A/B 2bunch Mean mode  
 14:15 sub A, B の E spread 調整. 2 bunches



SCR-31



14:50 KKB 下流 位置の火報 登録.  
 15:25 E-A ON 再開  
 wire scanner 測定 first bunch



← 前の方にバンプを立てた調整