

2002.

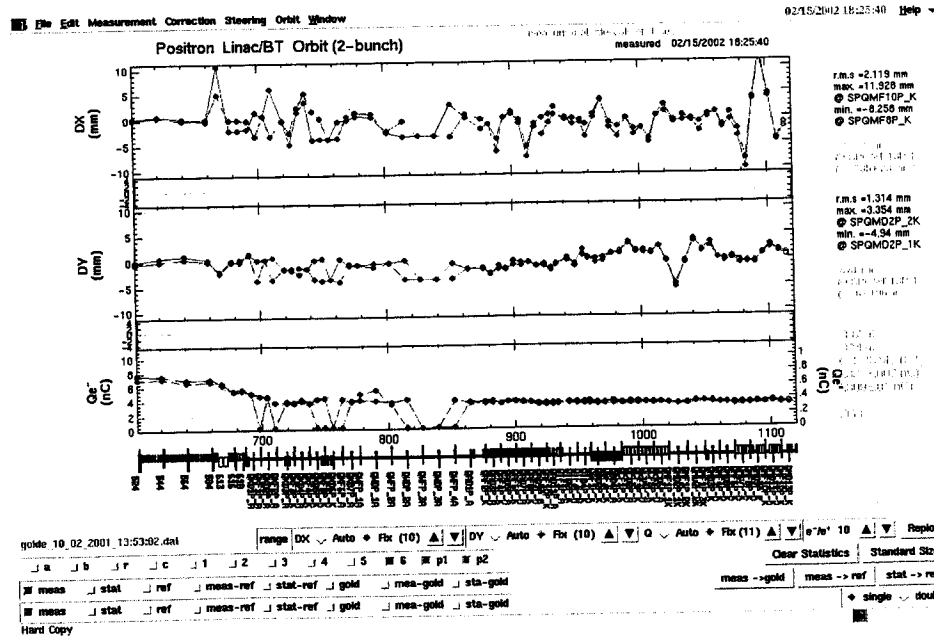
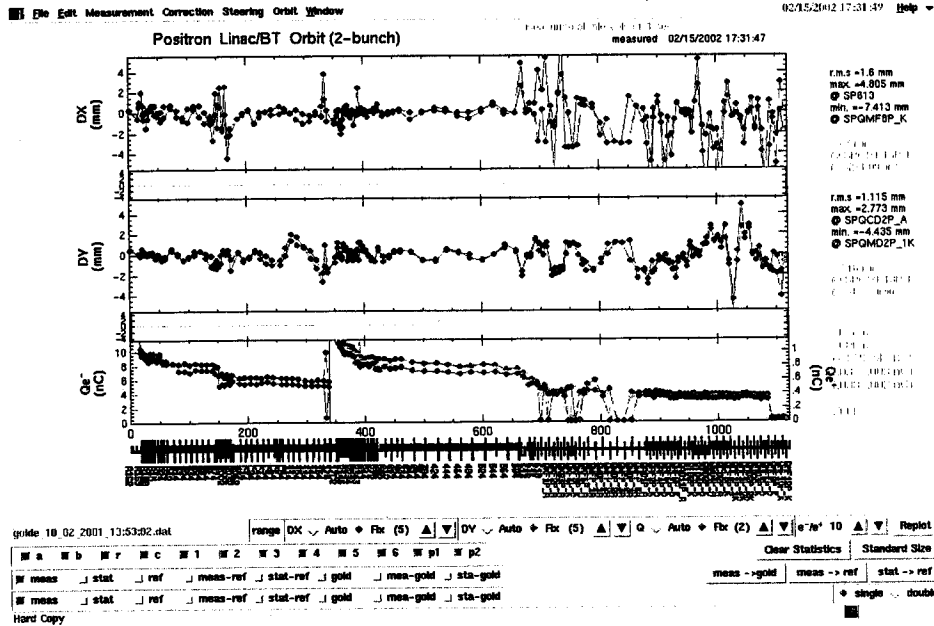
2月15日(金)

2バッチ入射試験

Magrat Feb13, 17:45:02 ELoad → data1248.cdl

trigger data159.delay

Gun 020212, 2bunch2



Energy 差 feed back

BTP Energy feed back.

Target 前 Energy?

Target 前 Focus.

通常 効率 65% 程度だが "Q bunch" 120% 程度.
~60

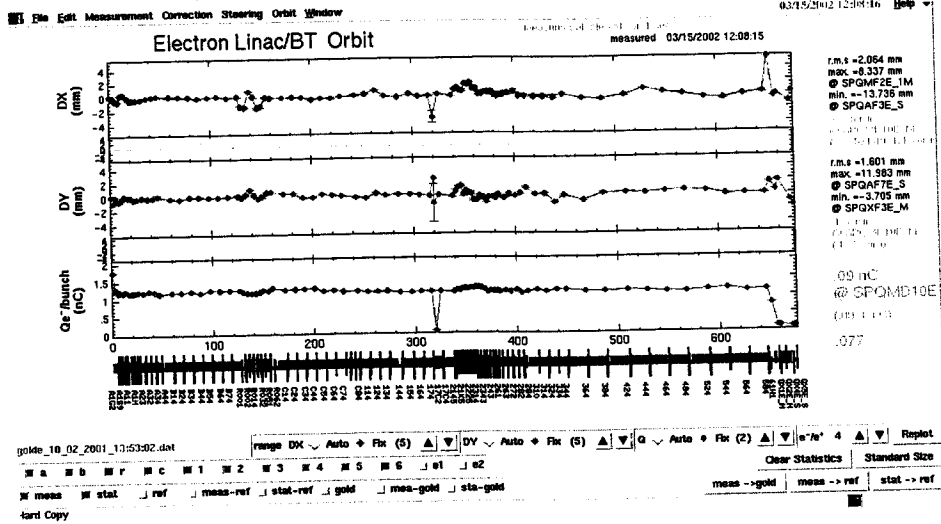
BTend $0.38 \text{ mC} \times 2 \text{ } \ddot{\sim}$ 2.3 mA/s .
~4

2002.May.15.

Short Shutdown 後 II 止上H"

e⁻ beam 確認

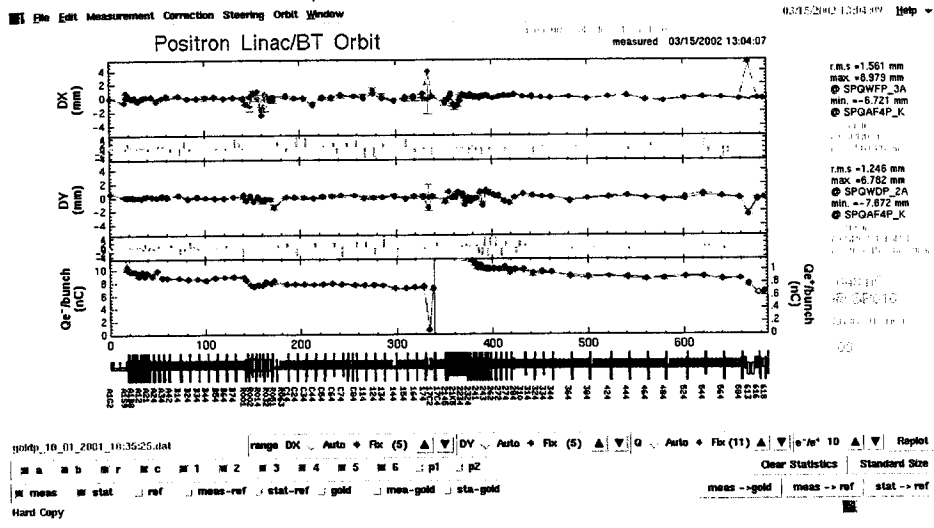
2-sectu SB phase +50° 変更



e⁺ beam

Gun det 1.72
 ↓
 1.71 ①
 +
 1.72 ②
 ↓
 1.67 ③
 ↓
 1.57 ④
 ↓
 1.82 ⑤

軌道補正仔 (A, B, C, 1)



Continue ^ 5775

2002.Apr.3

2137 e⁺ 調整

① Gun Sec 020212.2bunch.2
Delay Sec data 157
~~Magnet Sec~~

① AI RF delay 93356 → 93400 ns に変更
z: 1st & 2nd Bunch 通過率 向上

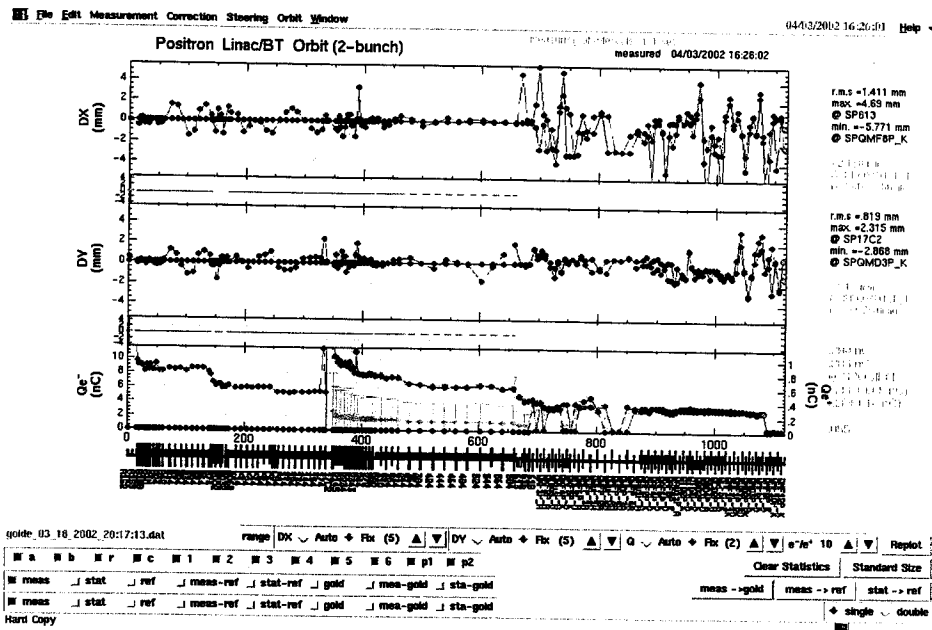
A SLED timing 49111 →
B "

② A,B-sector 軌道補正: + J-arc 軌道手動之補正

③ A,B SLED timing

→ Parameter Save Delay data 159. delay
 Magnet data ~~159~~ 1403.
 Phase data 472.

⊗ C, 1-sector の SLED timing は 未調整



Ingger Delays

16:27

Toggle AB-sled	Toggle C1-sled	Toggle 25-sled	Toggle Monitor
	Reference	Current	Difference
	Apr03 15:23:59	Apr03 16:27:30	
<input type="checkbox"/> KL_A1_RF	93356 ns	93400 ns	44
<input type="checkbox"/> OVERALL_A	49111 ns	49154 ns	43
<input type="checkbox"/> OVERALL_B	49076 ns	49067 ns	-9
<input checked="" type="checkbox"/> OVERALL_C	50861 ns	50809 ns	-52
<input checked="" type="checkbox"/> OVERALL_1	72880 ns	72827 ns	-53
<input type="checkbox"/> OVERALL_2	72805 ns	72805 ns	0
<input type="checkbox"/> OVERALL_3	72705 ns	72705 ns	0
<input type="checkbox"/> OVERALL_4	72836 ns	72836 ns	0
<input type="checkbox"/> OVERALL_5	72966 ns	72966 ns	0

2002.4.19(金) 午

8:14 2nd bunch (drup mode)^{et}

trig-delay data 159, delay-all

Gun 020212, 2 bunches set
delay FB stop (et)

orbit correct (average position)

→ B section 2320 → 2nd bunch 下かき

A1 overall 49154

orbit correct (first bunch)

→ section φ error 2nd bunch 下かき

PR 2/2

meqnet

~~data 236 main~~ data 1459, all

trig

data 160, delay, all

phase

data 497, phase, all

} Saved

10:46

→ AR 2/2

Trigger Delays				10:52	v1.3.0				
Toggle AB-sled	Toggle C1-sled	Toggle 25-sled	Toggle Monitor						
	Reference	Current	Difference						
	Apr19 09:58:28	Apr19 10:51:49							
┘ KL_A1_RF	93319 ns	93400 ns	81						
■ OVERALL_A	49014 ns	49051 ns	37						
┘ OVERALL_B	49032 ns	49102 ns	70						
┘ OVERALL_C	50835 ns	50896 ns	61						
┘ OVERALL_1	72854 ns	72915 ns	61						
┘ OVERALL_2	72773 ns	72805 ns	32						
┘ OVERALL_3	72672 ns	72705 ns	33						
┘ OVERALL_4	72803 ns	72836 ns	33						
┘ OVERALL_5	72929 ns	72966 ns	37						
Read Ref.	Read Cur.	-96.3	-17.5	-8.8	-1.75	+1.75	+8.8	+17.5	+96.3

12-20-02

Gun Delay Tuning

b 1 1.575 ns fixed
 b 2 2.132 ns → 2.142 → 2.082 ok
 → 2.032 → 1.94 ns → 2.00 ns

(Fast build
 1.57 ns)

Trigger data161.delay.all saved

2002.4.23(火) 2バッチ調整マシ227マイ

4-in

~8:46

運転用 Gun Parameter と

先1072の2バッチ用 parameter の比較

最後にロードされたパラメータ

KEKB #4

	16進 10進 DAC	ADC
ヒーター電圧		9.6V
◇ヒーター電流	084D 5.10A	5.16A
◇バイアス電圧	02F0 144.4V	92.7V
◇DELAY-1	08E1 1.72ns	0.86ns
◇DELAY-2	0CEF 2.51ns	1.76ns
◇パルス電圧-1	05A0 0.41kV	0.35kV
◇パルス電圧-2	0000 0.41kV	0.30kV

最後にロードされたパラメータ

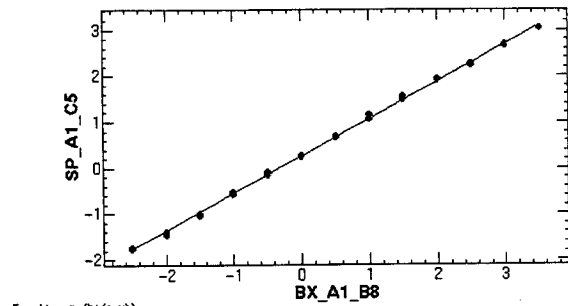
020212 2bunch .2

	16進 10進 DAC	ADC
ヒーター電圧		9.6V
◇ヒーター電流	084D 5.10A	5.16A
◇バイアス電圧	02F0 144.4V	92.7V
◇DELAY-1	0820 1.57ns	0.76ns
◇DELAY-2	0B00 2.13ns	1.23ns
◇パルス電圧-1	05A0 0.41kV	0.35kV
◇パルス電圧-2	0740 0.41kV	0.39kV

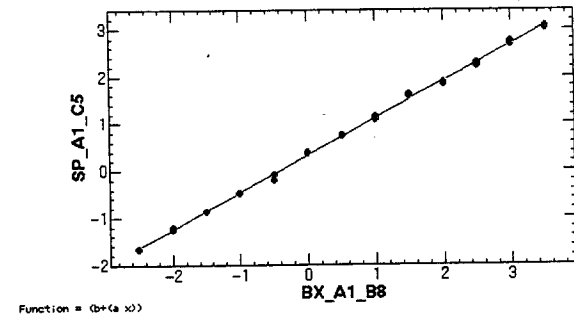
Delay 1 (sec) 1.715
 Delay 2 (sec) 2.000

1.715
 2.020

File Edit Window 04/23/2002 10:53:39 Help
 ChiSquare = .05378 Goodness = .46160
 a = .81215 +/- .00496 b = .25758 +/- .00961

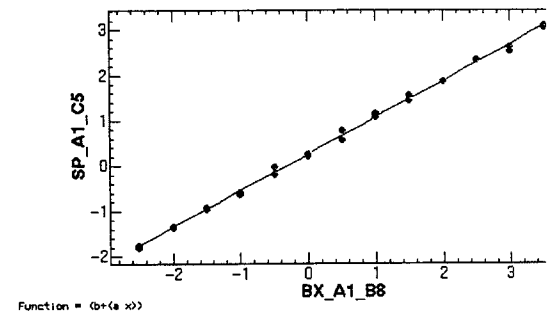


Energy at A1_B8 : 23.579435901252273 MeV
 ChiSquare = .07251 Goodness = .46160
 a = .78814 +/- .00576 b = .32398 +/- .01116

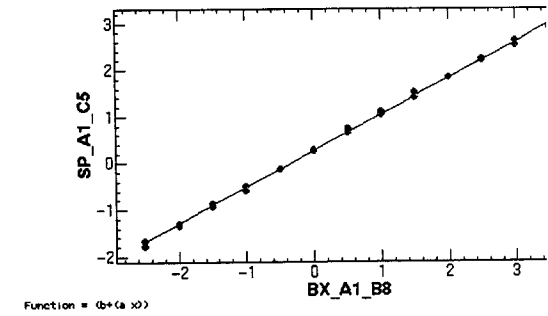


Energy at A1_B8 : 24.297625521116549 MeV
 Hard Copy

File Edit Window 04/23/2002 10:59
 ChiSquare = .11866 Goodness = .46160
 a = .80662 +/- .00712 b = .26687 +/- .01378



Energy at A1_B8 : 23.74101699533394 MeV
 ChiSquare = .06524 Goodness = .46160
 a = .77778 +/- .00547 b = .26319 +/- .01058



Energy at A1_B8 : 24.623786579240554 MeV
 Hard Copy