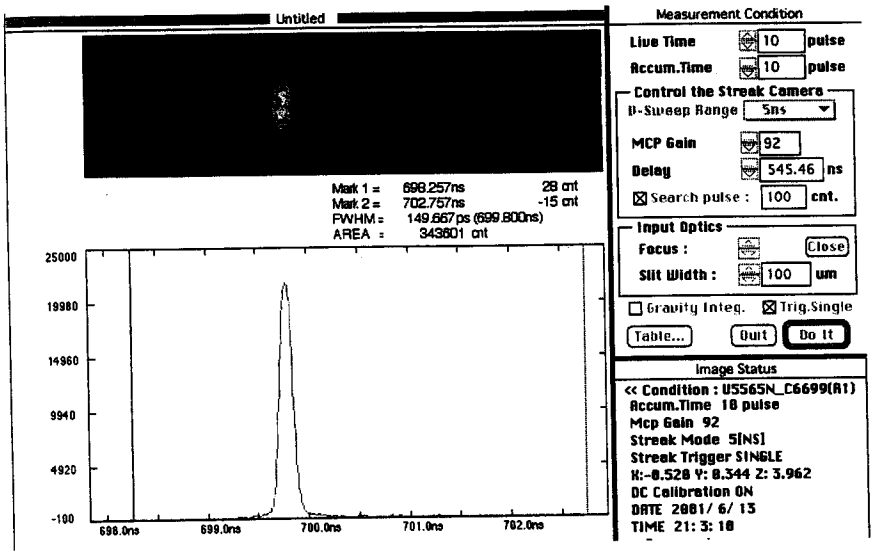
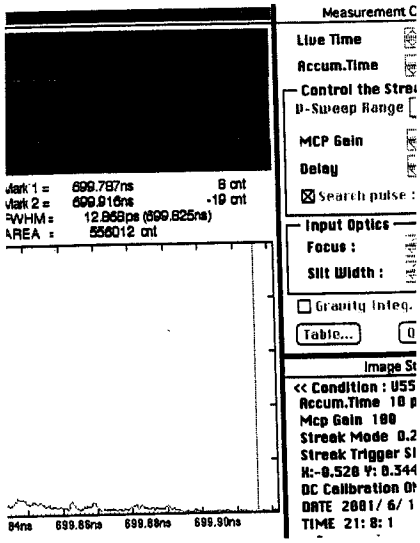
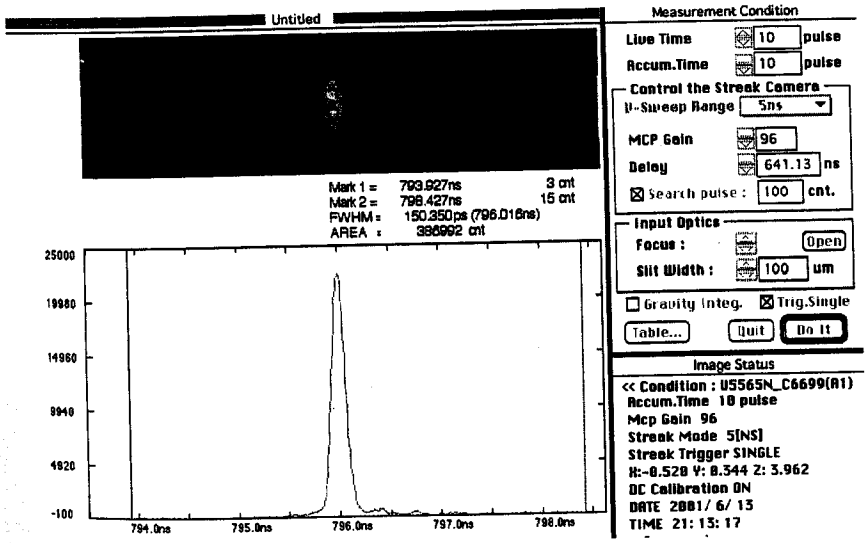
#1ハイ4

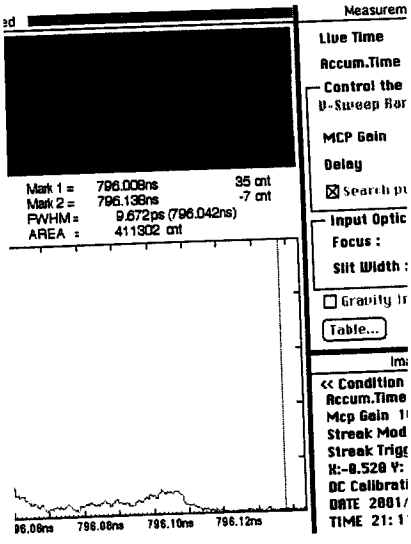




699.82

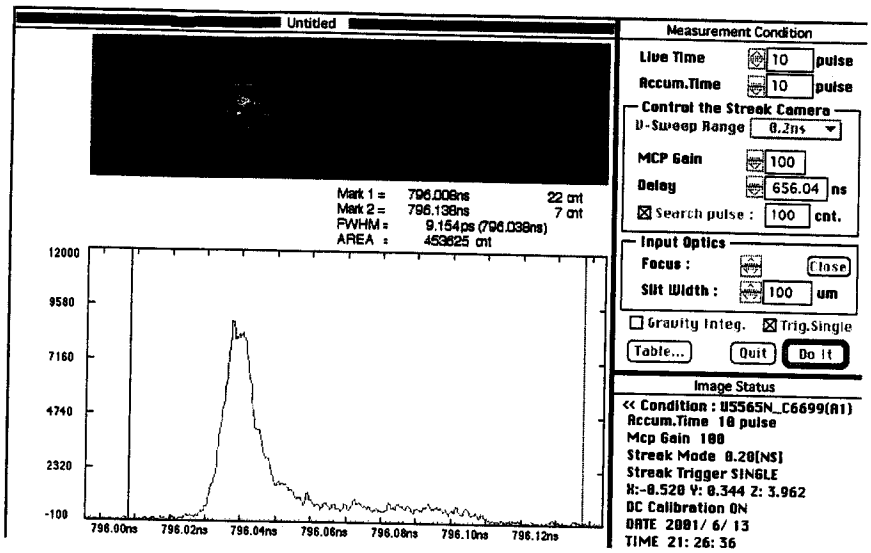
#2ハイ4





gun delay 2　0BE0 → 0C00

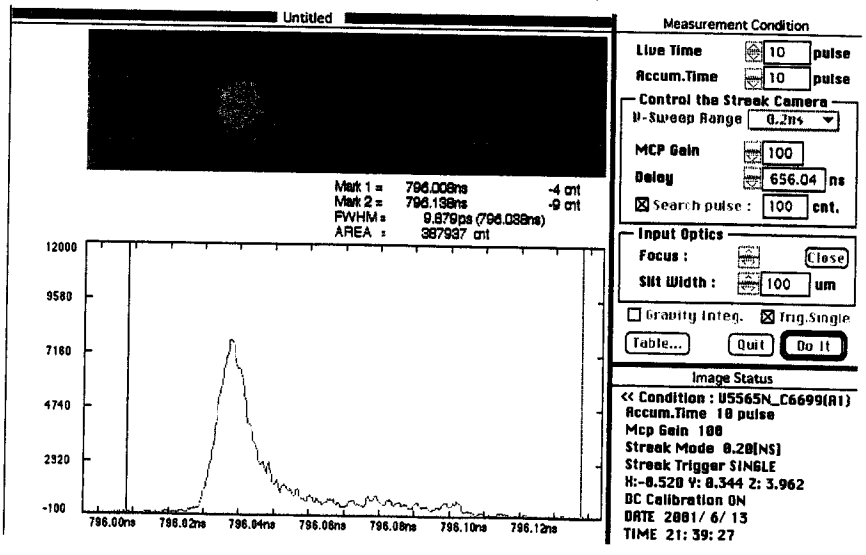
ポイント



gun 電圧 2　08B0 → 0750 → 0700

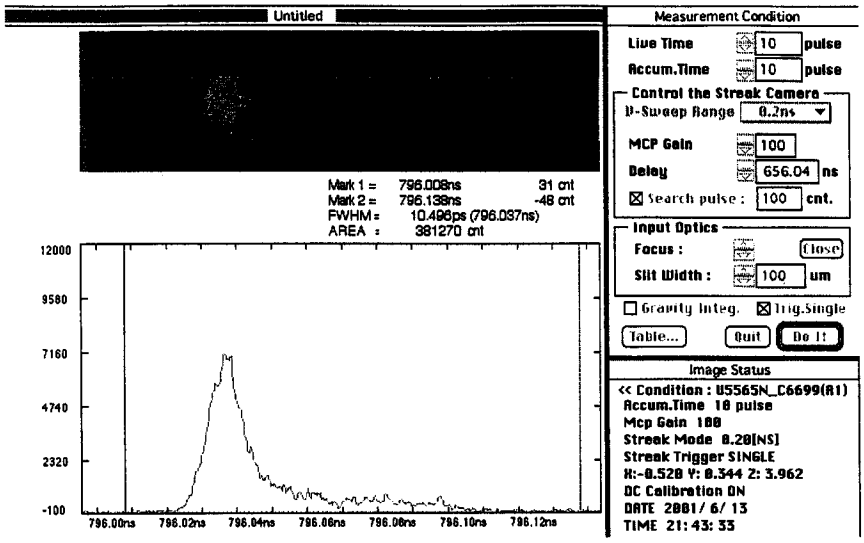
delay 2　0C00 → 0CB0 ~~typo~~

ポイント



Gun delay　0CB0 → 0CF0　⇒ "010613-2bunch" と same

第2バンチ

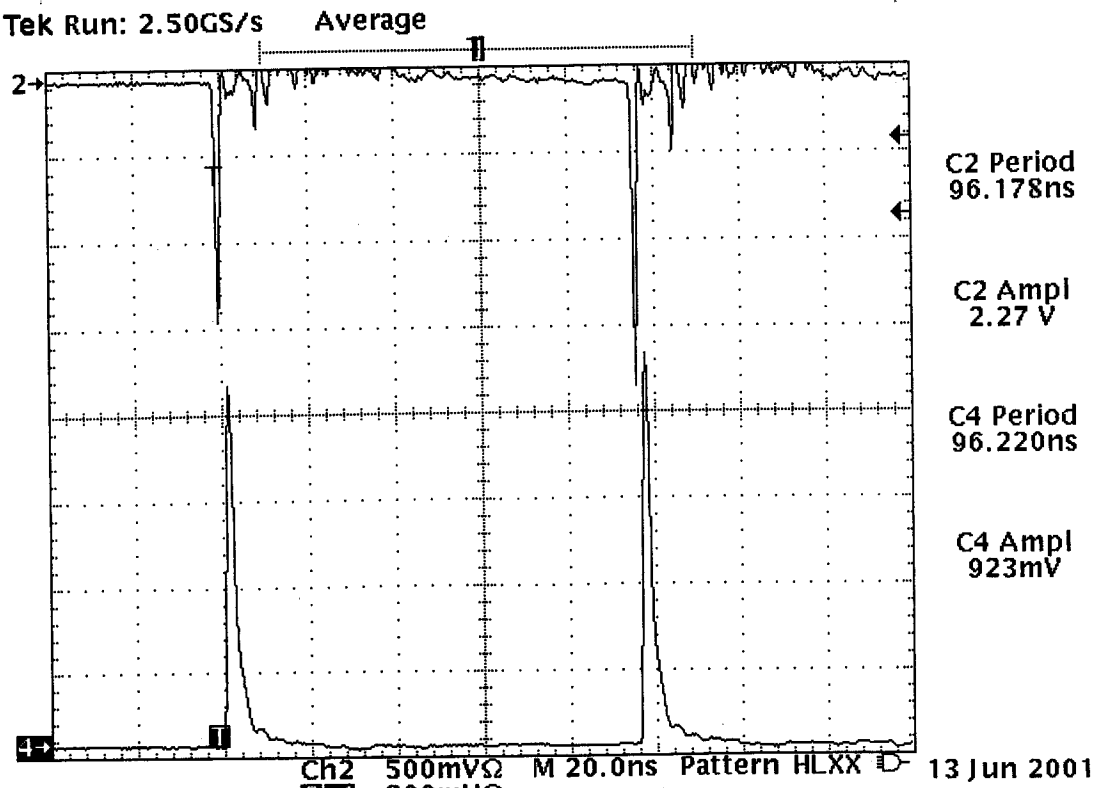


第1/第2間隔　96.554ns

同じパターン

Gun delay2 0CF0 → 0C00
電圧　2 0700 → 0BE0
第1/第2間隔　96.23nS　(第3枚目)

} "010613-2bunch" と same

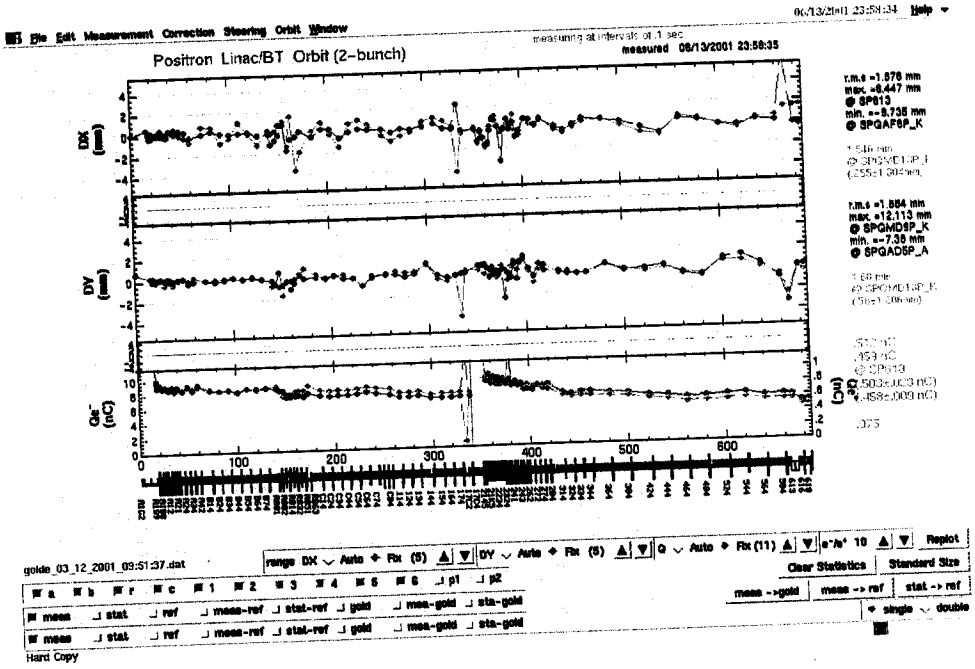


ヘリホ°ット

SB2-1 パルス幅 1.0 → 1.1 → 1.95 → 1.8 → 1.0 (元にもどす)

〃 250ns ~~150ns~~ → 335ns → 445ns

VACuum IP-21-AとB 6×10^{-6}



2001.6.15(金) Two-Bunch Beam Test by 古川、小林、菊谷

入射部出口 エネルギー測定

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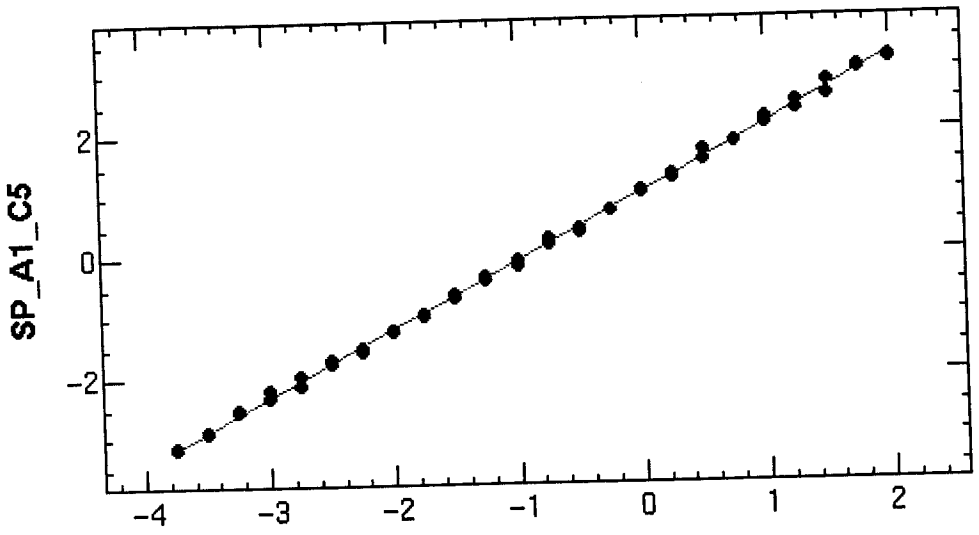
ChiSquare = .16761 Goodness = .47227

a = 1.10464 +/- .00503 b = 1.01014 +/- .00976

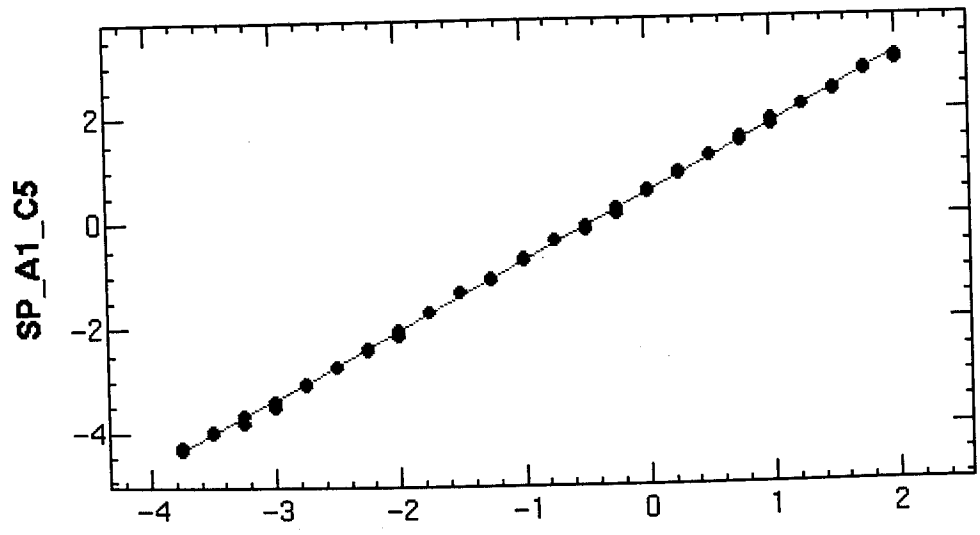


Function = (b+(a x))

Energy at A1_B8 : 17.336019244975987 MeV

ChiSquare = .13529 Goodness = .47227

a = 1.29701 +/- .00452 b = .49968 +/- .00877

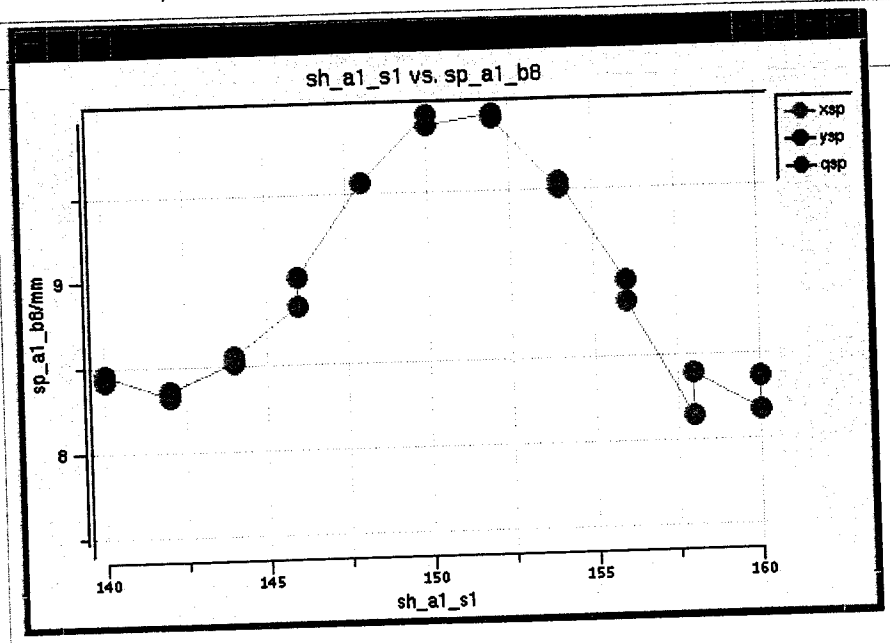


Function = (b+(a x))

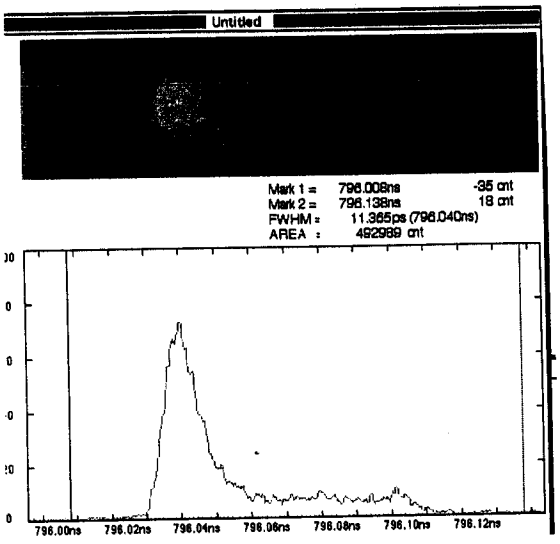
Energy at A1_B8 : 14.764683560661602 MeV

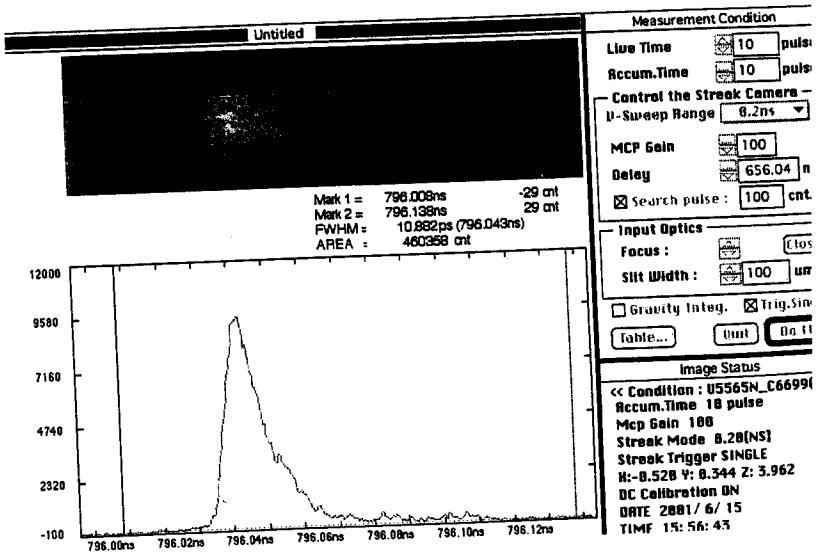
Main Application Area

SHB1φ と bunch 生D

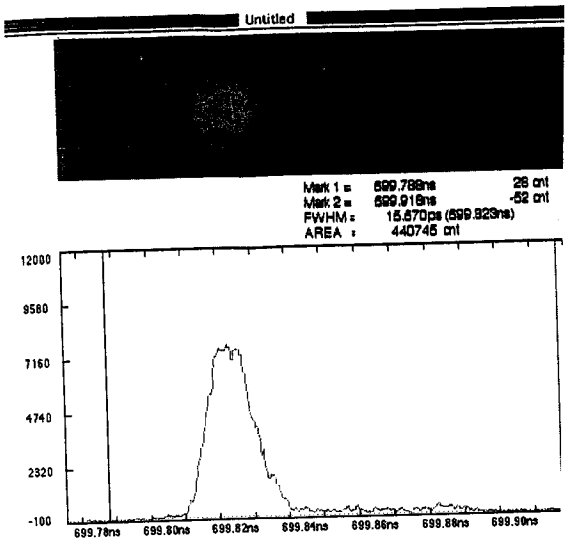


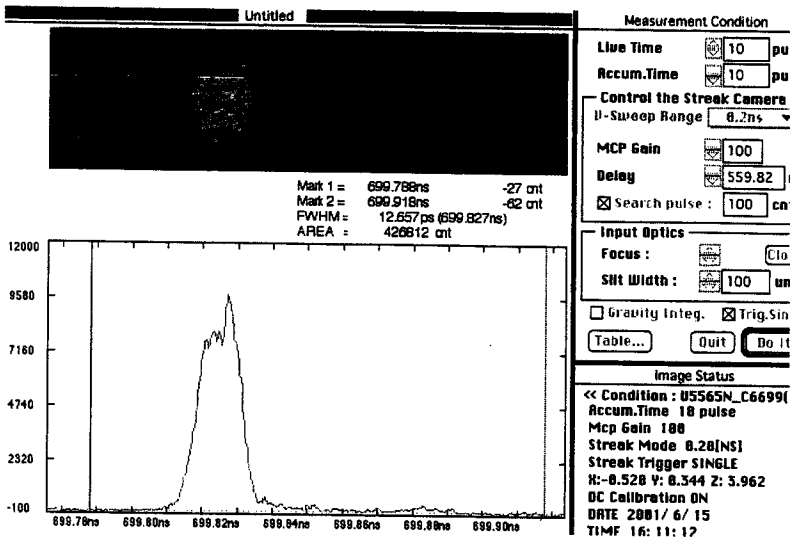
Chargeが我ろない範囲で SHB1φを変えて
bunch形状の改善(スケール)を試みる





SHB1φ
150.7° ⟶ 152.6° に変化





SHB1φ

150.7° ⟶ 152.6° 用C

01.06.15
17:20

通常入射パラメータから出発する。 φD6B (2.60ns)

① ②

Gun delay φTF9 (1.55ns) HV φSAφ (0.41kV) delay φCEF (2.51ns) HV φφ (9.17kV)

SHB1 150.4°

〃 2 162.9°

PB

B

A1

まずこの状態では、A1G2aWCMは 12nC 9nC 下のように合わせてある

①ECB ②2ndB

2nd Bunching GP HV → φ95φ ~~φφφφ~~ と有る

Ebeam @A1B8 data [1]

2nd Bunch GP delay φD6B (2.60ns) data [2]

φC62 (2.40ns) data [3]

φCBF (2.47ns) data [4]

A1 RF timing 4.53 → 4.61 data [5]

↓

4.69 data [6]

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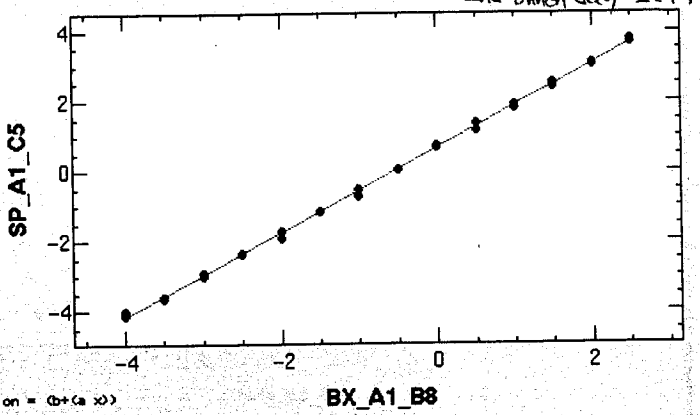
ChiSquare = .15009 Goodness = .46310
a = 1.20269 +/- .00712 b = .65723 +/- .01532

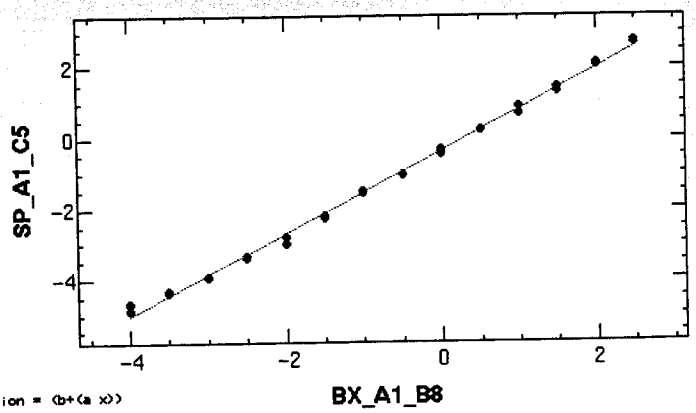
A1 RF timing 4.69
2nd Bunch delay 2.47



Function = (b+(a x))

Energy at A1_B8 : 15.922696822014886 MeV

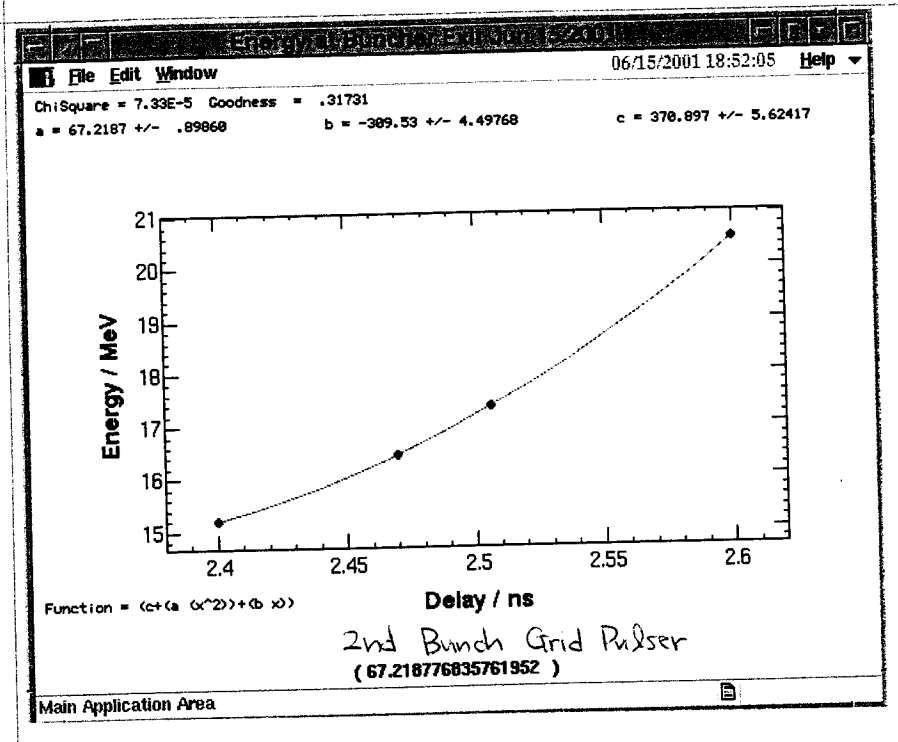
ChiSquare = .42265 Goodness = .46310
a = 1.16676 +/- .01195 b = -.35650 +/- .02571



Function = (b+(a x))

Energy at A1_B8 : 16.412904660560268 MeV

Main Application Area


File Edit Window
06/15/2001 18:52:05
Help
ChiSquare = 7.33E-5 Goodness = .31731
a = 67.2187 +/- .89868
b = -389.53 +/- 4.49768
c = 370.897 +/- 5.62417
Energy / MeV
21
20
19
18
17
16
15
2.4
2.45
2.5
2.55
2.6
Delay / ns
Function = (c+(a (x^2))+(b x))
2nd Bunch Grid Pulser
(67.218776835761952)
Main Application Area

2バンチ スタディー

① e^+ 運転パラメータセット BT lastϕkbp.all Jun 19 01:25:28
phase lastϕkbp.phase.all Jun 19 09:06:15

② Gun Parameter 運転パラメータ KEKB #4 (PAC値)

Heater電圧	9.8V
〃 電流	5.15A
Bias電圧	144.4V
Delay-1	1.60 ns
〃 -2	2.51 ns ⇐ ϕCEF ⇨ 2.470ns ϕCBA
パルス電圧-1	0.41 kV
〃 -2	0.41 kV ⇔ $\phi\phi\phi\phi$ ⇨ ϕ95ϕ

0.41 ?
0.43 ?

③ delay 2バンチ用 data31.delay.all (SLED_A, B timingの共通部)

~~(data28)~~

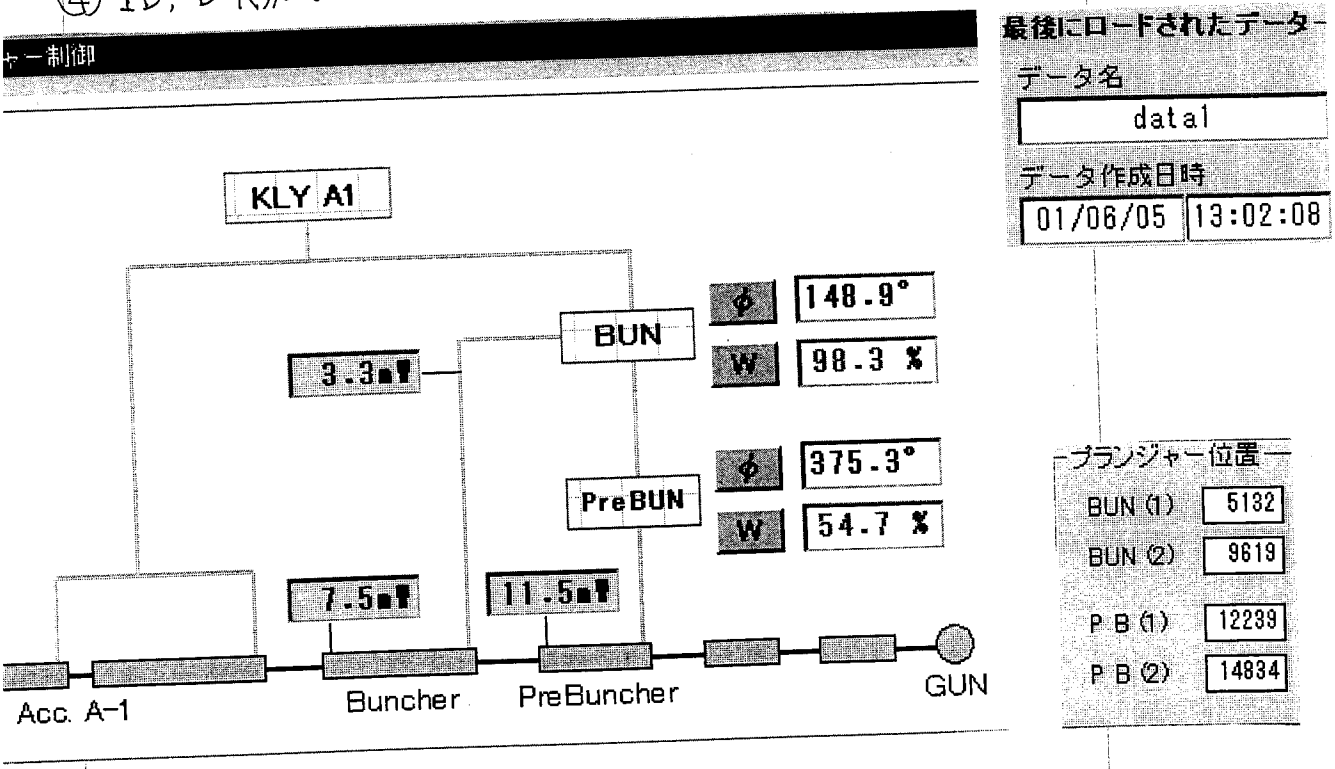
↓

さらにJ-arcでのエネルギーをそろえる.

	data31	~~運転パラメータ~~	Energyがそろうように
over all A	49128ns	~~49009~~	⇨ 49084
〃 B	49074ns	~~49021~~	⇨ 49074

パラメータファイル data32.delay.allにSAVE

④ PB, B パラメータ



ϕSHB1 = 150.7°
ϕSHB2 = 162.7°
ϕA1 = 177.6° (E_s = 35kV)