

41

3-Ring

09/2/13

共通 Optics response function 測定 (大西 小川 菊池 倉田)

e^- (8 GeV) Beam τ 測定

Pulse Steering @ Target Bump 17 Off τ 軌道を安定に
測定)

File Edit Window 02/03/2009 10:28:22 Help

Quad	Read (I/B)	File (I/B)	Steering	Read (I)	File (I)
QD/0_38_4	8.066	15.6014	SX_A1_00	.001	.001
QF_38_4	7.912	15.4068	SY_A1_00	.001	.001
QD/0_42_4	8.733	17.0026	SX_A1_04	1.650	1.650
QF_42_4	8.740	17.0154	SY_A1_04	-.629	-.629
QD/0_44_4	10.645	20.6923	SX_A1_S6	.001	.001
QF_44_4	10.549	20.5958	SY_A1_S6	.001	.001
QD_44_1	.000	.0000	BX_A1_B8	-.463	-.463
QF_44_3	.000	.0000	BY_A1_B8	.158	.158
QD/0_46_4	10.659	20.8210	BX_A1_C5	-.294	-.294
QF_46_4	10.945	21.3658	BY_A1_C5	.050	.050
QD/0_48_4	10.095	19.6522	SX_A1_21	-.028	-.028
QF_48_4	10.681	20.8477	SY_A1_21	.074	.074
QD/0_52_4	18.418	19.7365	BX_A1_22	-.031	-.031
QF_52_4	18.857	20.0921	BY_A1_22	.206	.206
QD/0_54_4	18.198	19.4215	BX_A1_M	.001	.001
QF_54_4	18.330	19.6040	BY_A1_M	.001	.001
QD/0_56_4	21.919	23.4190	SX_A1_B4	-.160	-.160
QF_56_4	23.048	24.5304	SY_A1_B4	.170	.170
QD/0_58_4	28.366	30.1102	SX_A1_1	.023	.023
QF_58_4	27.385	29.0918	SY_A1_1	-.126	-.126
QD_61_6	9.499	3.3348	SX_A1_01	.001	.001
QF_61_6	1.355	.5316	SY_A1_01	.001	.001
QD_61_8	19.976	6.9135	SX_A2_1	-.265	-.265
QF_61_8	17.570	6.0839	SY_A2_1	-.370	-.370
QD_61_A1	3.786	3.7863	SX_A2_2	-.199	-.199
QF_61_A1	.000	.0000	SY_A2_2	.548	.548
QD_61_F1	10.376	3.0818	SX_A2_3	.302	.302
QF_61_F1	11.761	3.5375	SY_A2_3	-.538	-.538
QD_61_F3	.598	1.5111	SX_A2_4	-.839	-.839
QF_61_F5	.483	1.2309	SY_A2_4	.062	.062

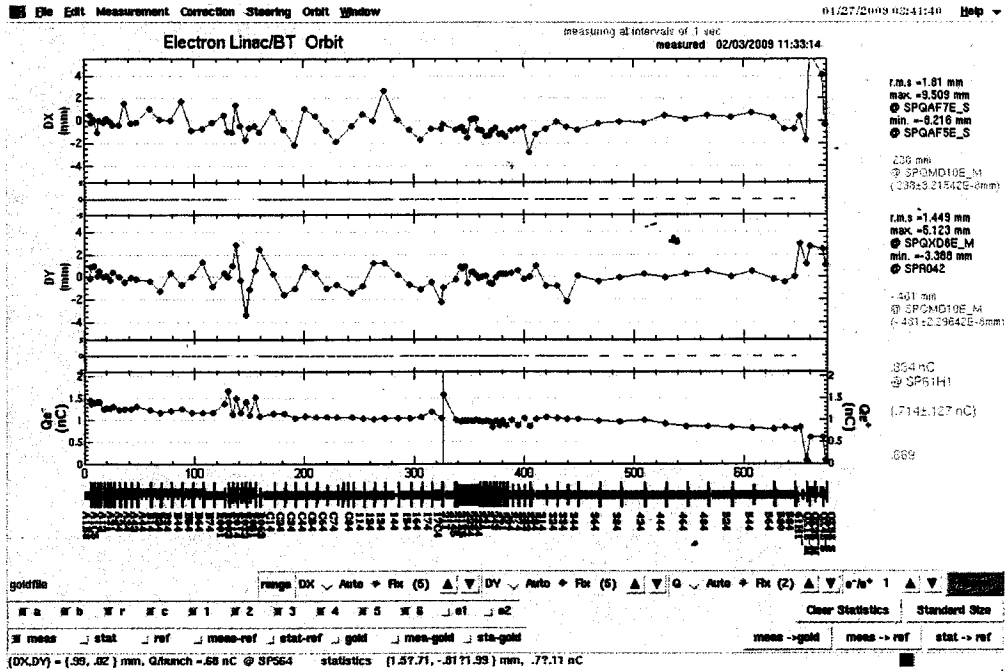
Read Save File Diff Read Save File Diff

Select Clear Set Magnet Select Clear Set Magnet

Amnt\data\1\data\LINAC\CG\magnet\2009\01\skbe20090121-11:36:37 Amnt\data\1\data\LINAC\CG\magnet\2009\01\skbe20090121-11:36:40

09/1/21 19:20頃のfileをload.

↑
このfileと同じ内容。

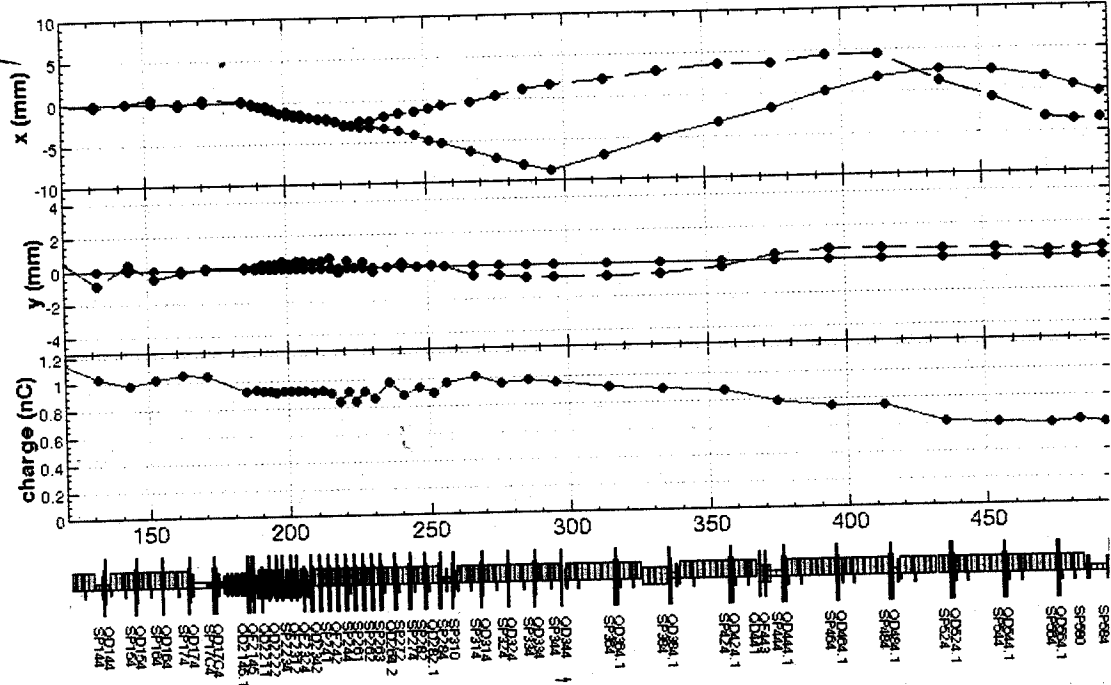


↑ pulse st. τ off 12L2

File Edit Window

Orbit AF^1 ΔK1 ΔB'

BX21K5



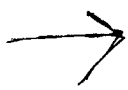
Read Optics		Steering SX_C1_1		Steering(X) BX21K5		Select Q		average		EPS	
s1(m)	120	Read	K0	Set	.00012	QDC14	K1 0	Read SPDATA	x y xy	5	Show
s2(m)	500	Set ref	0	Set	Clear	QFC14					
		Clear ref	0	Steering(Y) SYC11	7e-05	QDC24	AF 1	Set ref	x 10 y		Set
		Plot orbit	Set	K0	Set	QDC34	Set	Plot			Clear
File	sx21k5-2.dat	Set ref	Set	Set	Clear	QDC44		Set ref			Creat
		Write DATA				QDC54					

Open file is /mnt/nadata1a/users/onishi/cvs-work/LCG/SAD/Library/single-kick/sx21k5-2.dat

軌道補正後

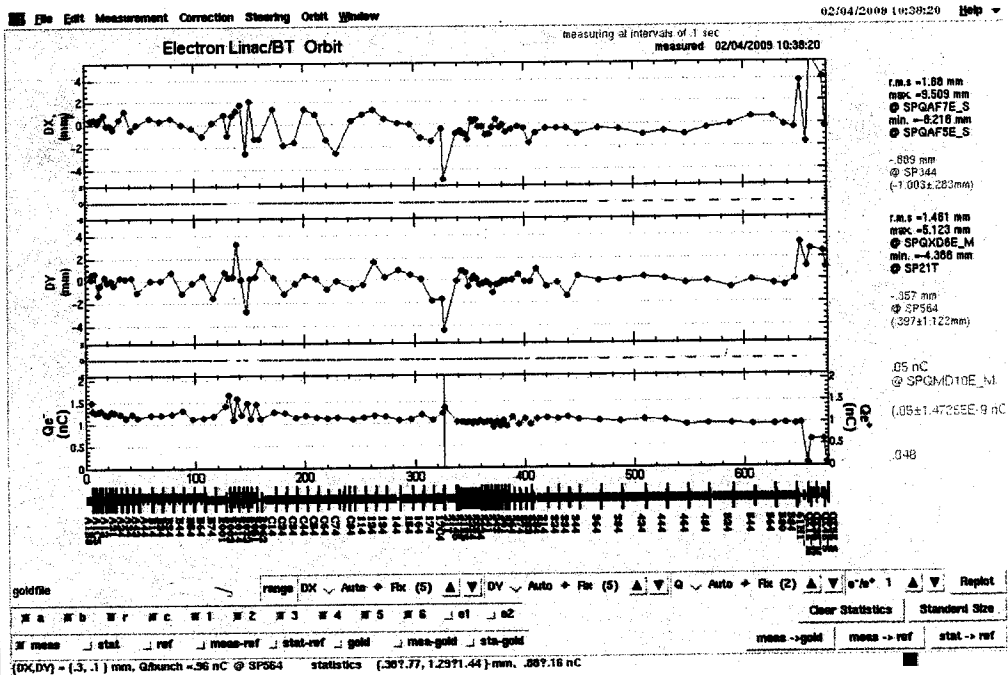
"20090203-11:33:12"

! = save



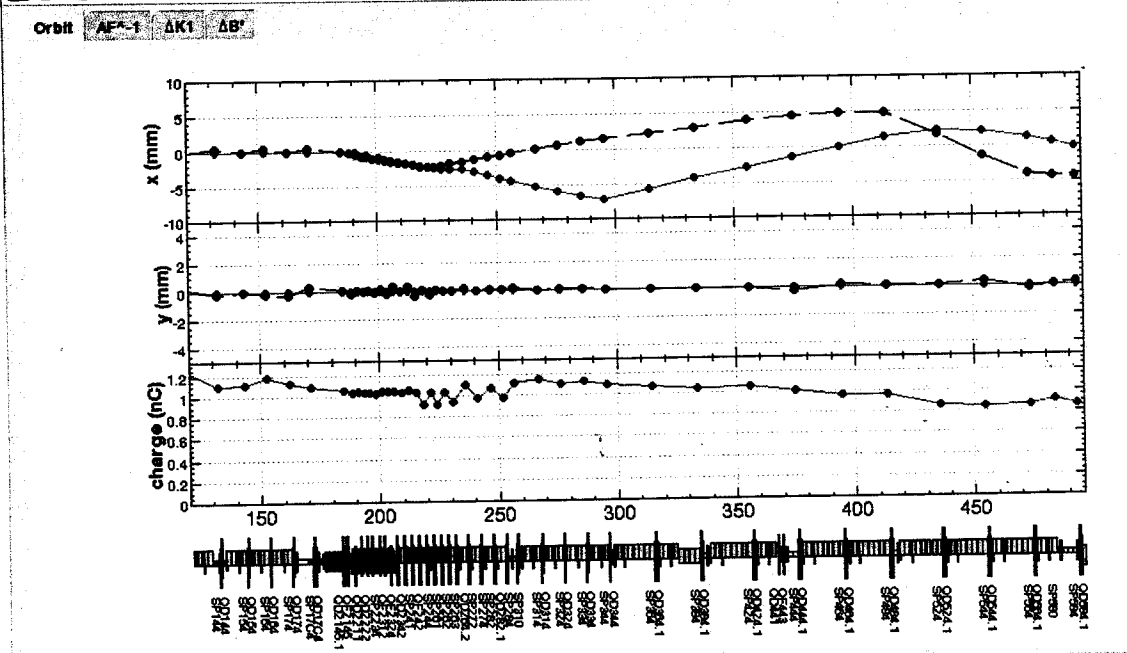
~~SX281~~

HER Beam



goldfile range DX Auto Frc (5) DV Auto Frc (5) Q Auto Frc (2) a/n* 1 Replot
 Clear Statistics Standard Size
 stats ref meas-ref stat-ref gold meas-gold sta-gold
 (DX,DY) = (3.1) mm, Qbusch = .96 nC @ SP564 statistics (307.77, 1.2971.44) mm, .99718 nC

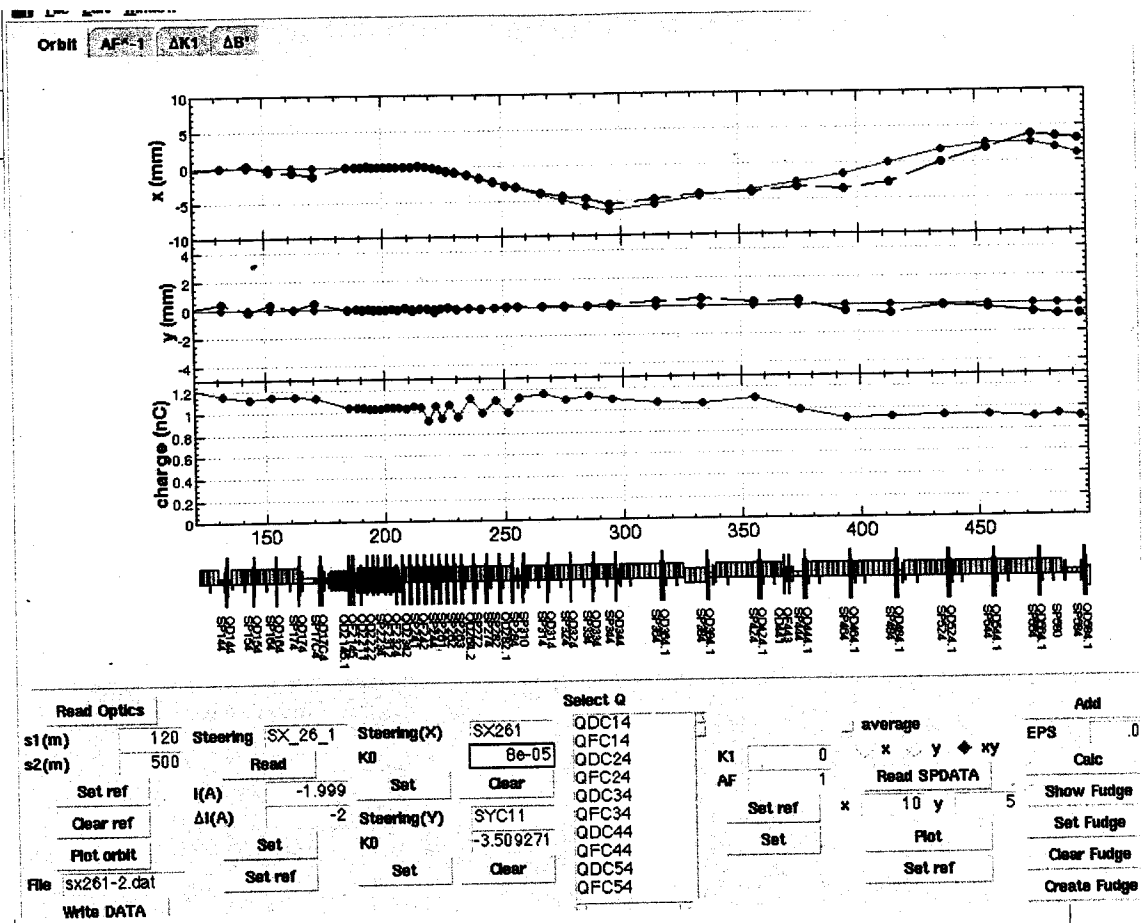
File Edit Window 02/04/2009 10:52:10 Help



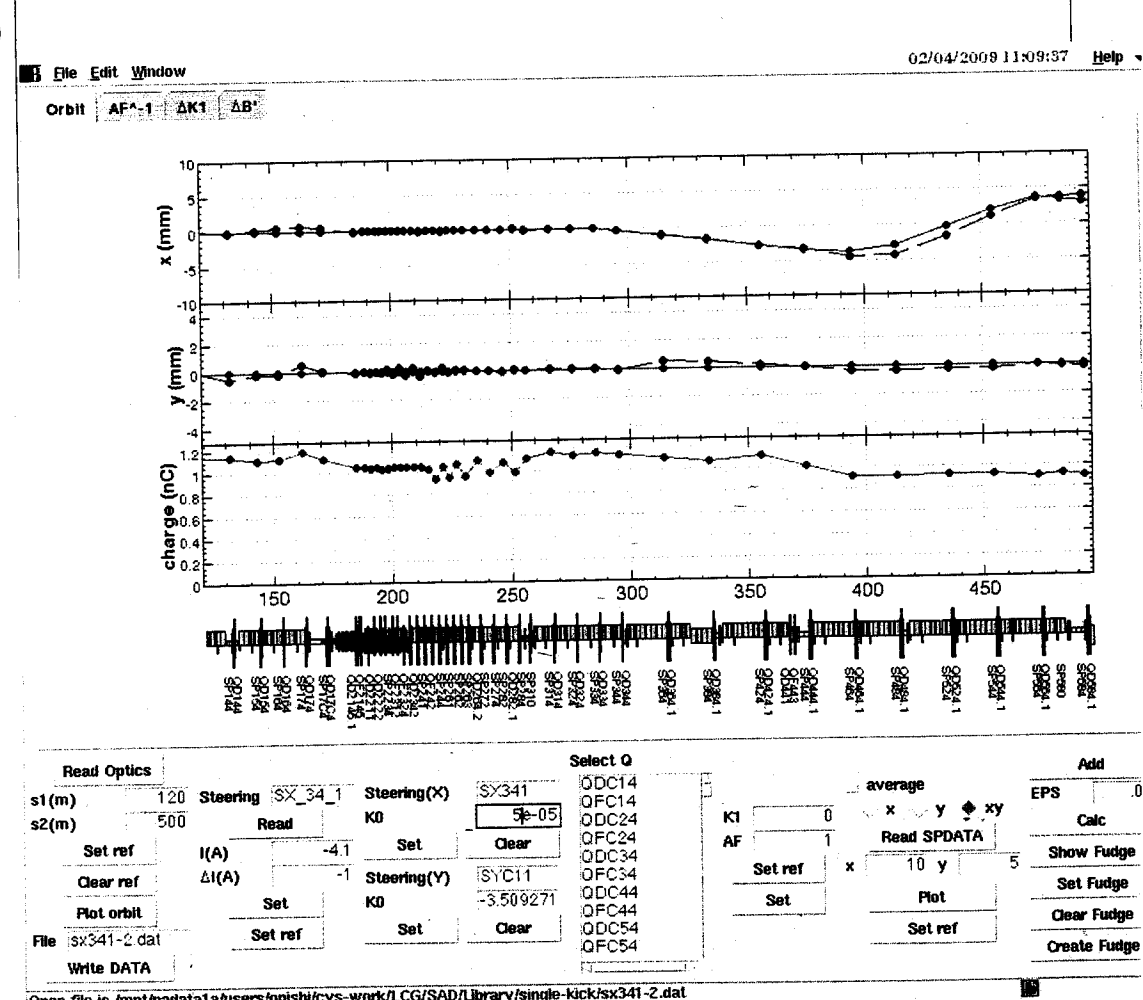
BX21K5
 $\Delta I \begin{cases} +2A \\ -3A \end{cases}$

Read Optics		Steering BX_21_K5		Steering(X) BX21K5		Select Q		average		Add	
s1(m)	120	Read	KD	Set	.0001	QDC14	K1	0	x	y	EPS
s2(m)	500	Clear ref	Set	Clear		QFC14	AF	1	Read SPDATA	Calc	.03
Set ref	I(A)	Clear ref	Steering(Y)	Set	Clear	QDC24	Set ref	x	10 y	Show Fudge	
Clear ref	$\Delta I(A)$	Plot orbit	KD	Set	Clear	QDC34	Set		Plot	Set Fudge	
Plot orbit	Set ref	File bx21k5-1.dat	Set	Set	Clear	QFC34			Set ref	Clear Fudge	
File	Set ref	Write DATA				QDC44				Create Fudge	
Write DATA						QFC44					
						QDC54					
						QFC54					

SX261
 ΔI $\left\{ \begin{array}{l} +4 A \\ -2 A \end{array} \right.$



SX341
 ΔI $\left\{ \begin{array}{l} +1 A \\ -1 A \end{array} \right.$



Open file is `jmnt/madatatata/users/onishi/cvs-work/LCG/SAD/Library/single-kick/sx341-2.dat`

PJ8A77K

準夜三ヶ

KL-21 - phase

fit 後

Amplitude 1.108

phase (Top) 163.742
Bottom

KL-18 - phase

Amplitude 1.52

phase Top 172.343

KL-22 - phase

File Edit Window

02/03/2009 15:20:11

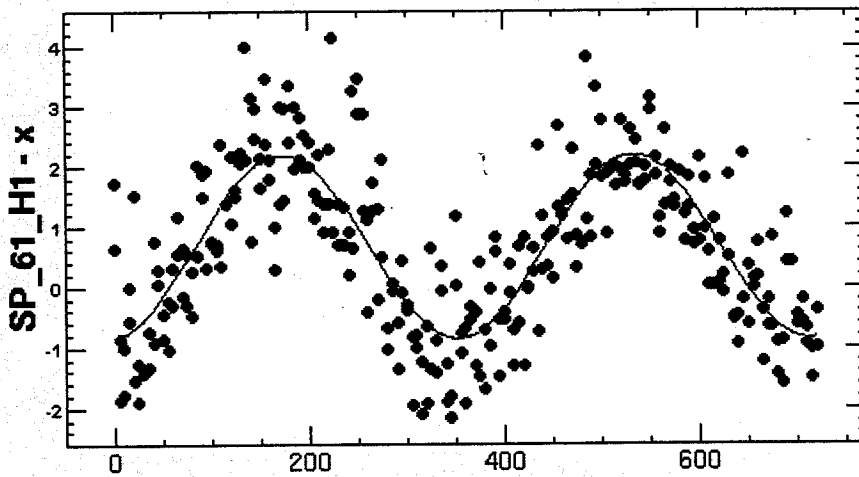
Help

ChiSquare = 198.513 Goodness = .48890

a = -1.5203 +/- .06884

c = 172.343 +/- 2.64650

d = 66821 +/- .04884



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

KL_18 - phase

KL_18vsSP_61_H1 on 172.19.66.32:0.0

2m 幅

400 msec の 1/10 幅

0.23 ←

36.8 MeV

中程

幅 10%

File Edit Window

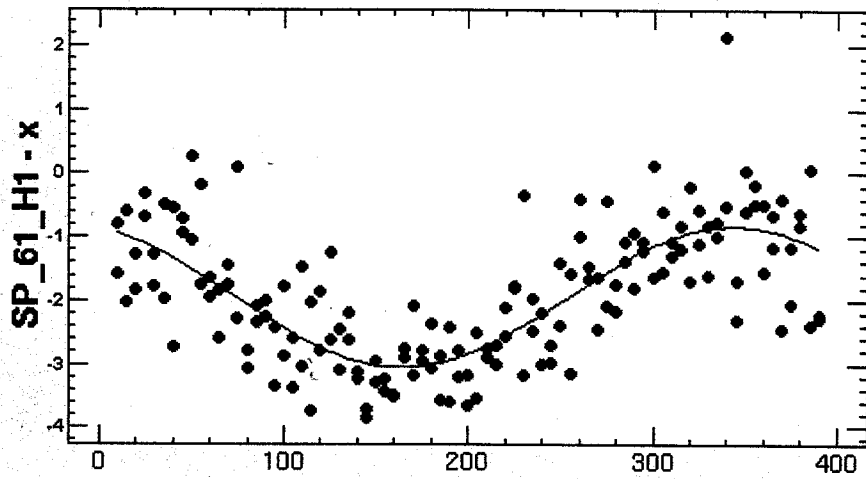
02/03/2009 15:26:33 Help

ChiSquare = 79.3494 Goodness = .48469

a = 1.10847 +/- .08219

c = 163.742 +/- 4.32453

d = -1.9447 +/- .05864



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

KL_21 - phase

KL 21vsSP 61_H1 on 172.19.66.32:0.0

k

File Edit Window

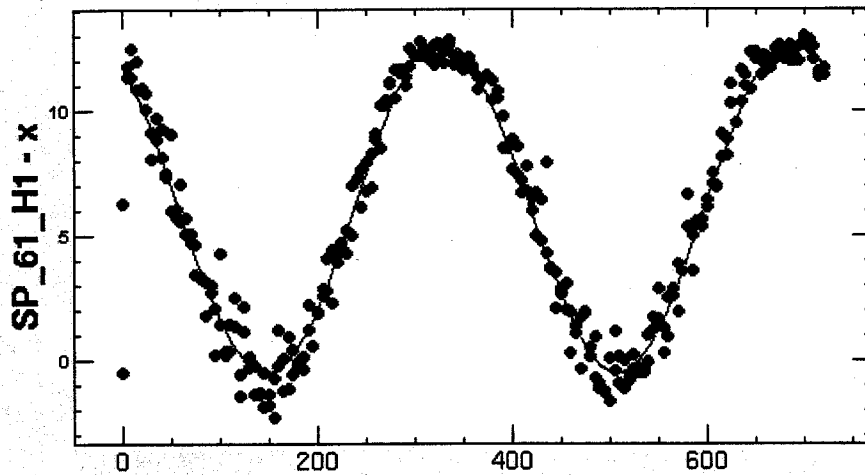
02/03/2009 15:39:31 Help

ChiSquare = 358.212 Goodness = .48890

a = 6.60316 +/- .09265

c = 147.626 +/- .80630

d = 6.12364 +/- .06561



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

KL_22 - phase

KL 22vsSP 61_H1 on 172.19.66.32:0.0

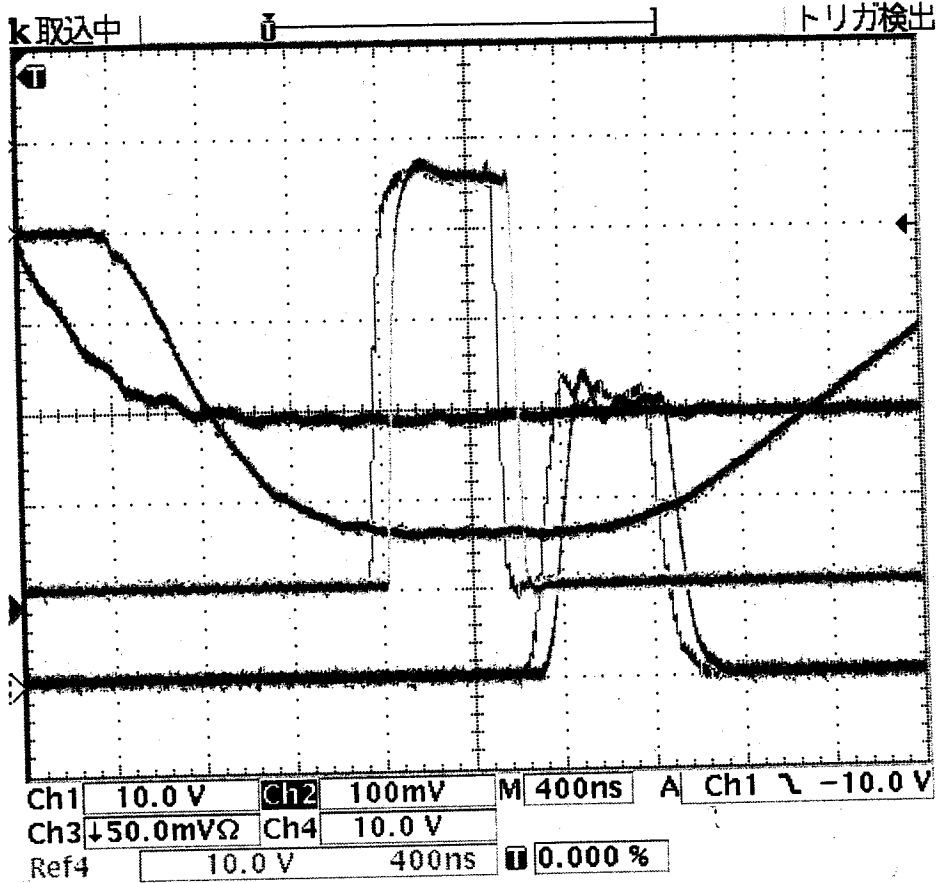
160MeV
加速

http://192.168.242.212 / → オシロスコピー 出力

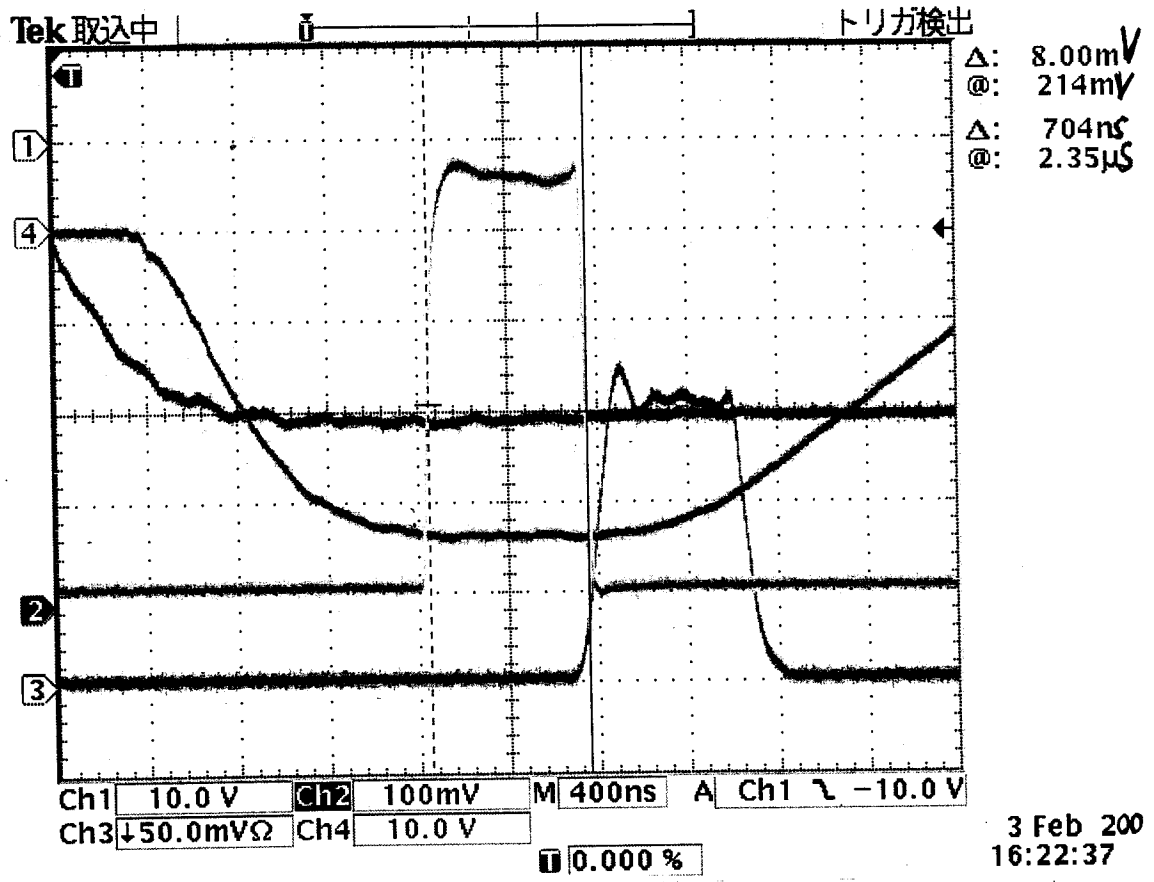
1,2 - HV

平均値で

560m → 608m sec 幅付た, → 700m sec まで増幅



調整前



3 Feb 200
16:22:37

調整後 青の波形はトロノ出
赤は送管

⇒陽電子は ますは 2割増幅

10/29 0.95mC → 本日 1.25nC ますは増幅

slat energy ga 1.8
1/2の取込, powerは√2倍

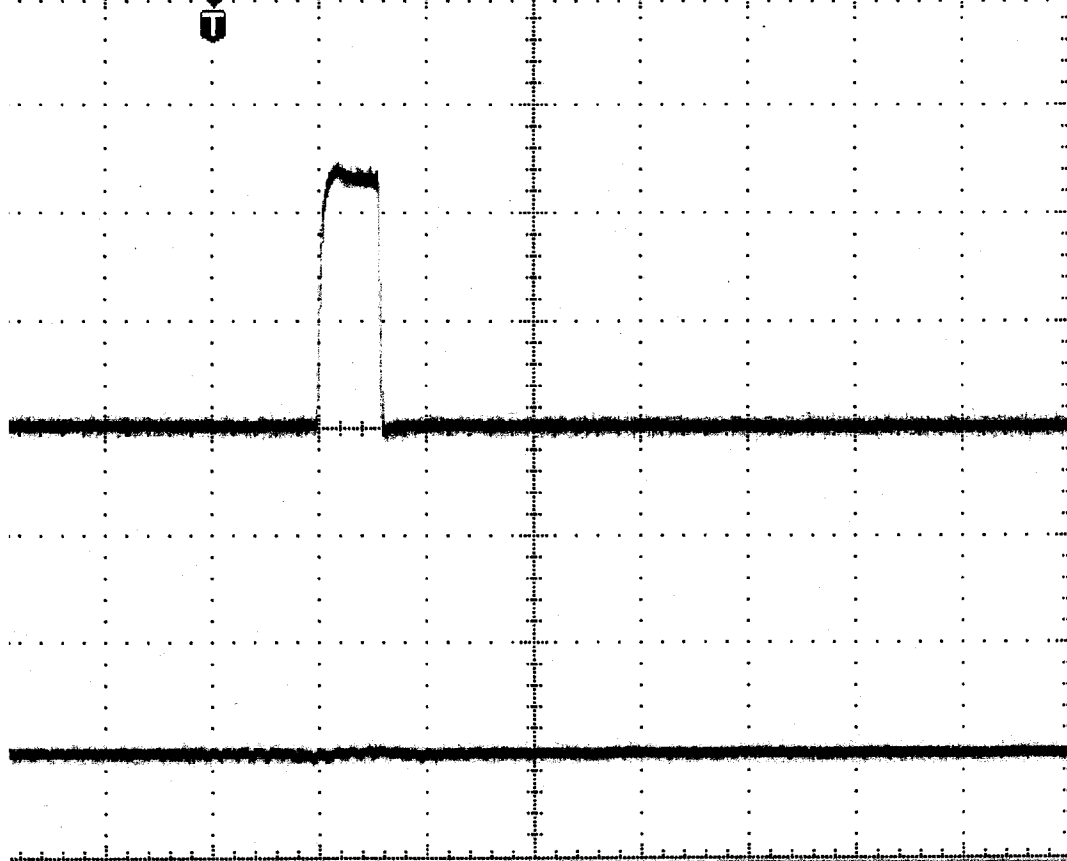
$$\frac{160}{1.8} \times \frac{1}{2} \times \sqrt{2} = 62.8 \text{ MeV}$$

~~1.8mCが後に伸びたこと~~ ⇒ 4ミゲは後に取込
↓
~~取込~~ 事よつあつた。

なごては
いっない

1.8の phasing 開始

取込中 | 0 | トリガ検出



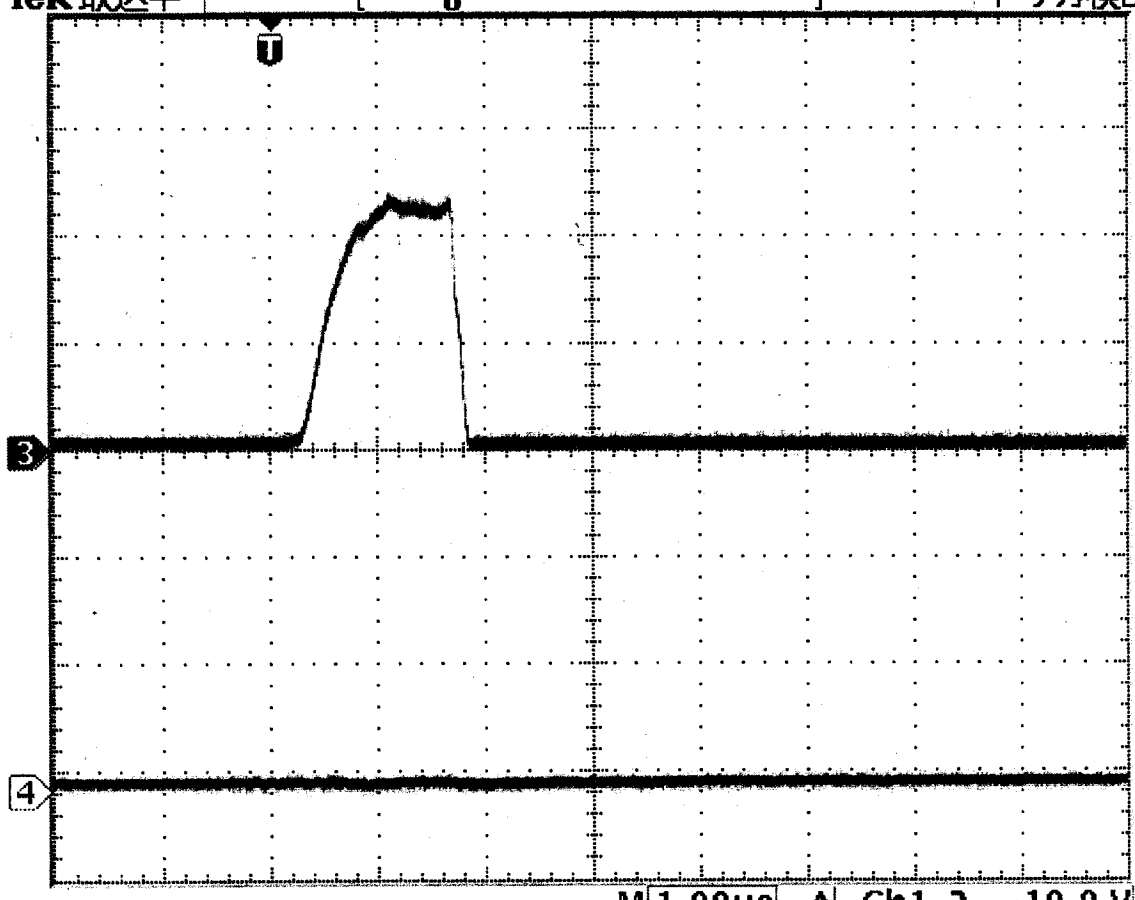
Ch3 ハイ
492mV

h3 200mV Ch4 20.0mV M 1.00μs A Ch1 1 -10.0 V
20.20 %

2 Dec 2008
14:53:41

2008年 12/2 狭心

Tek 取込中 | 0 | トリガ検出



Ch3 Δ
485mV

Ch3 200mV Ch4 20.0mV M 1.00µs A Ch1 ∇ -10.0 V
20.20 %

9 Jun 2008
08:30:55

2008年 ~~6/9~~ 6/9 7:41