

Oct. 3, 2002. 0:30 2'3 ~ 1:30 2'3

確認のため、SB-4の SLED timing を 撮り直し。  
~~撮り直し~~ 時に悪くならない。

10/03/2002 01:29:47 Help ▾

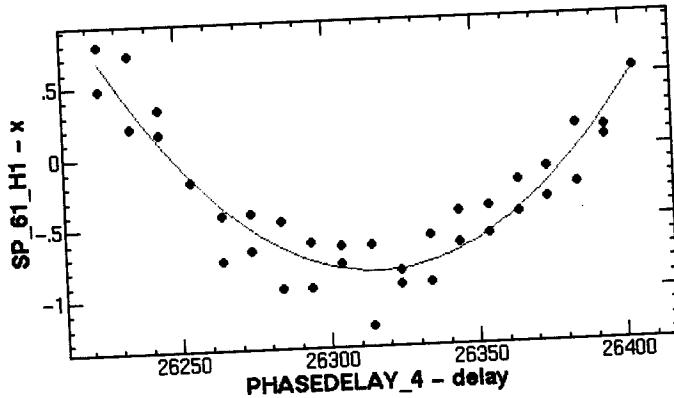
File Edit Window

ChiSquare = 1.28988 Goodness = .46828

a = 1.77E-4 +/- 1.13E-5

b = 26316.2 +/- 1.56162

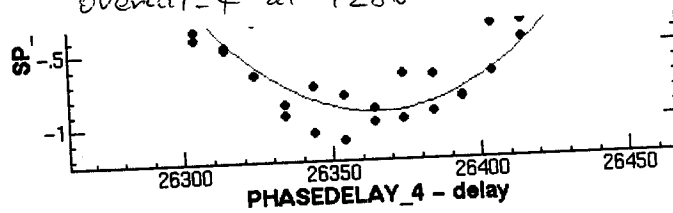
c = -.83556 +/- .04532



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

Main Application Area

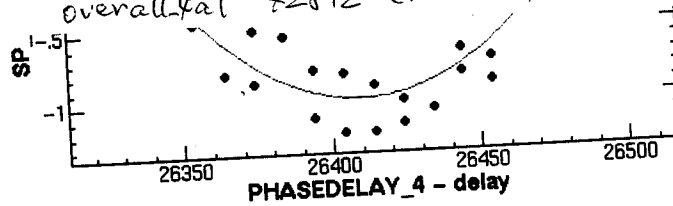
overall-4 at 72862



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

Main Application Area

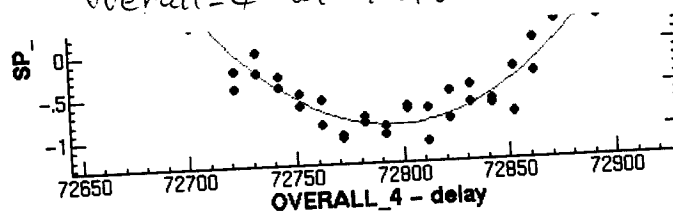
overall-4 at 72812 (nominal)



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

Main Application Area

overall-4 at 72763



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

Main Application Area

2002 Nov 1

# 44unit部 Aperture 制約ステータス

etbeam 1Hz First Bunch Only

電荷量

$$Q@424 = 0.91nC$$

$$Q@444 = 0.91nC$$

↓  
0.94 → 0.90nC  
ズレてる。

20:11

e<sup>-</sup> beam 1Hz 1bunch.

$$Q424 = 0.94nC$$

$$\rightarrow 0.94$$

$$Q444 = 0.93 "$$

$$\rightarrow 0.92 \sim 0.93$$

$$Q584 = 0.91 "$$

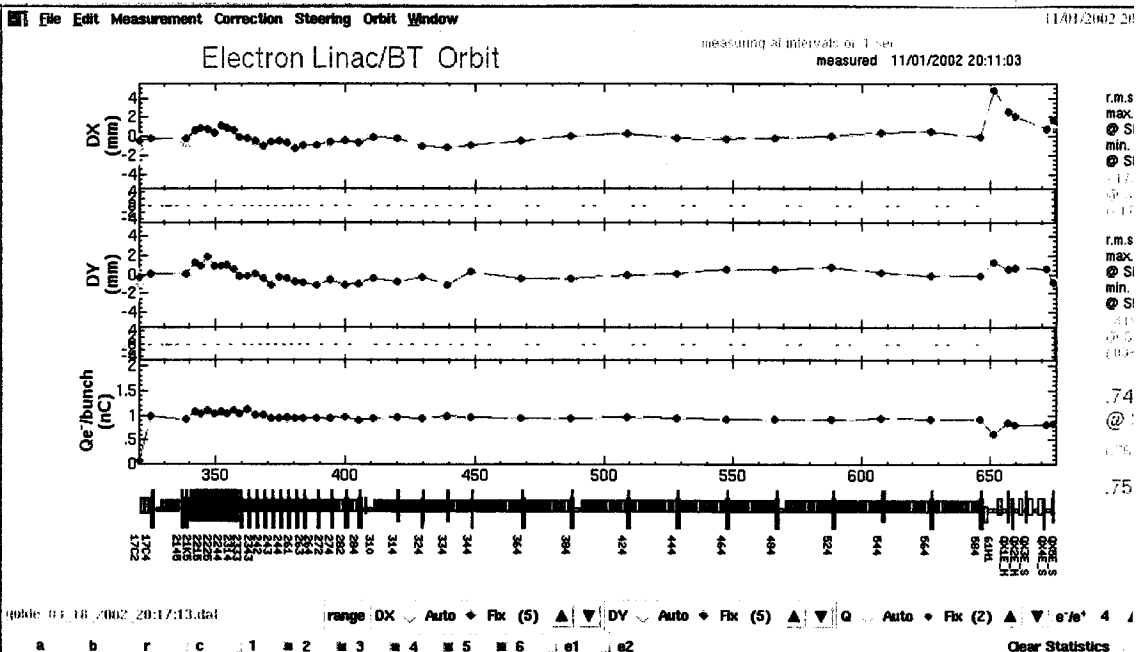
$$\rightarrow 0.90$$

① ターミナル  
SC-44-2  
なし

±0.02 のバラツキ

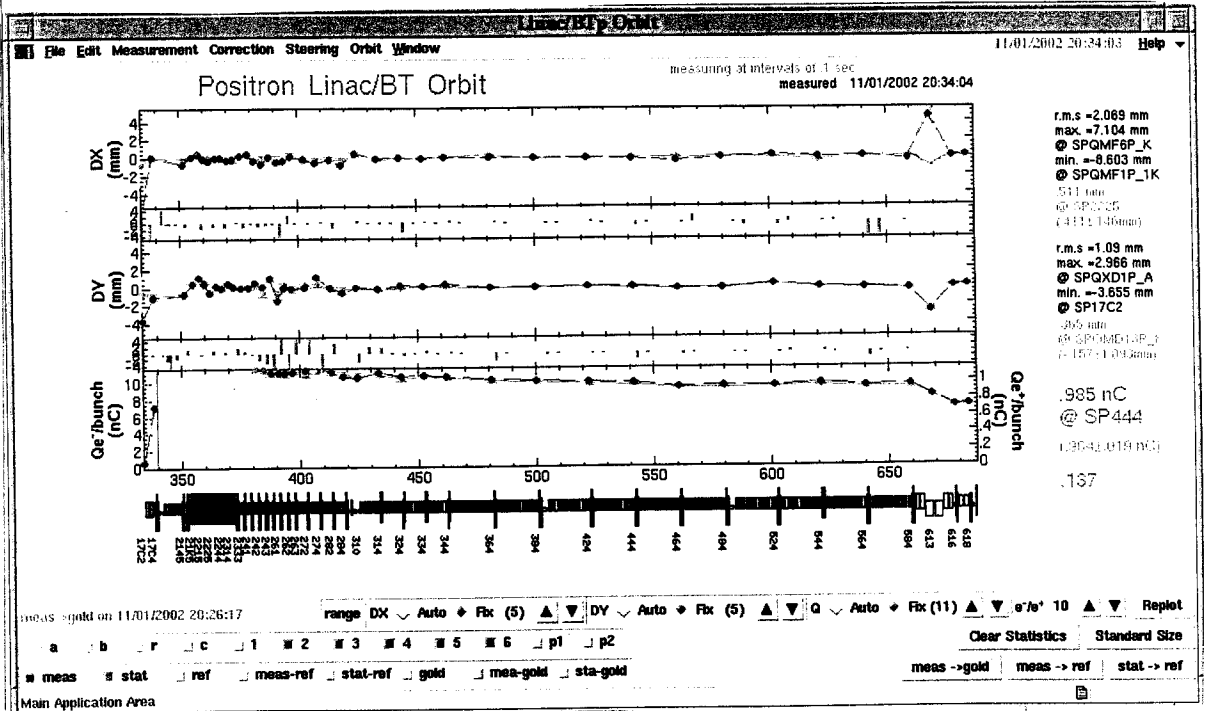


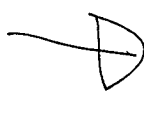
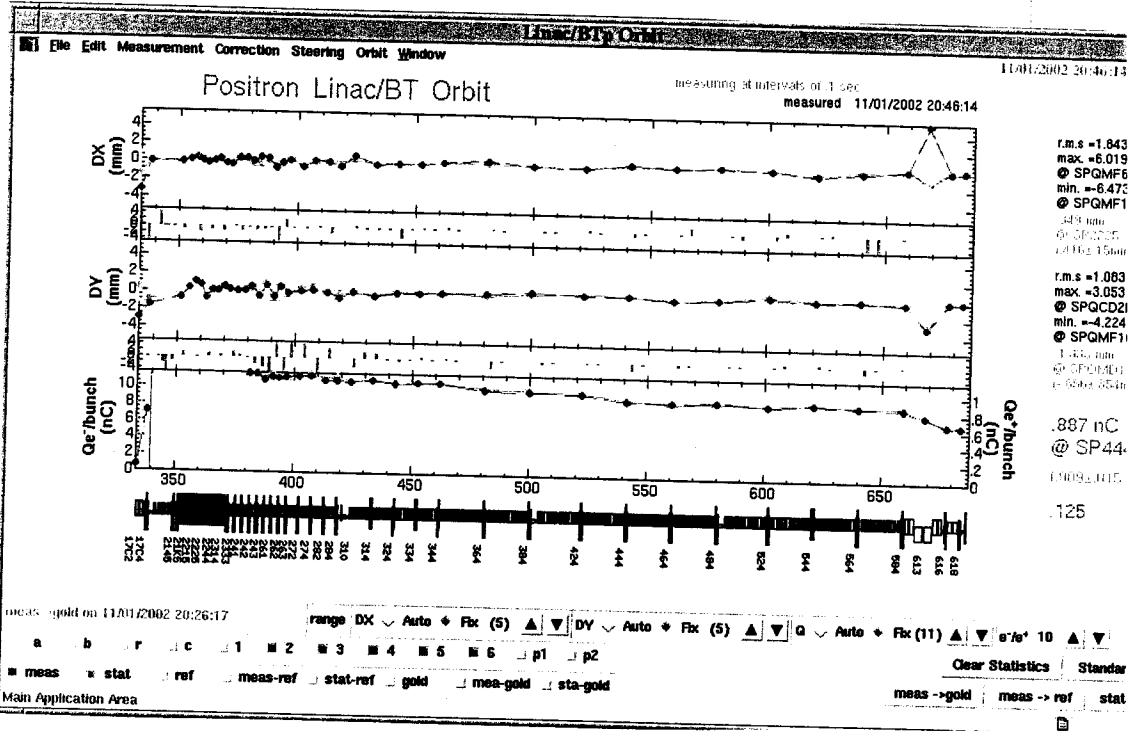
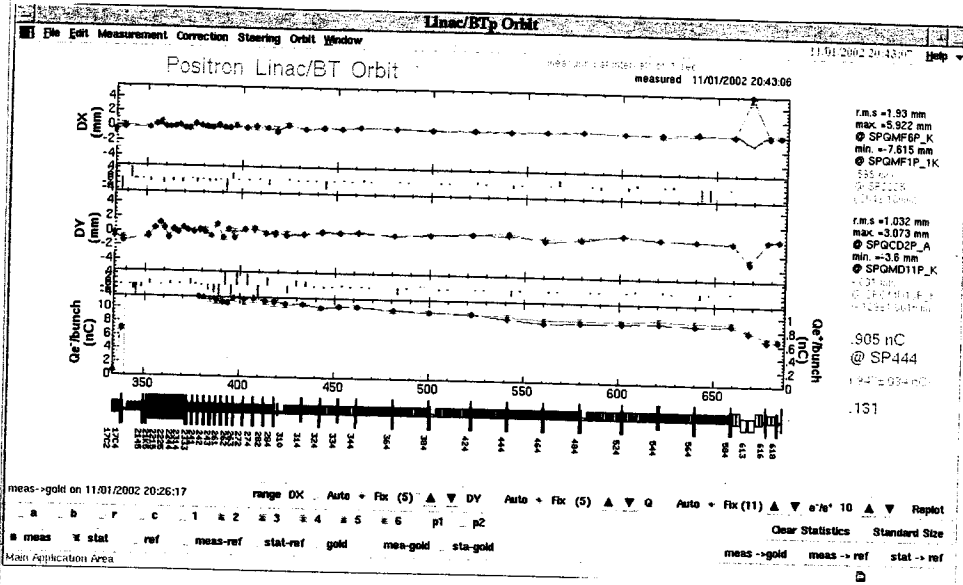
① BPM 442  
の値 詰りなし



\* e<sup>+</sup> beam 1Hz First Bunch only

Q424 = 0.99 ±0.02 nC  
 Q444 = 0.98 ±0.02 " ~ 0.97 ~ 0.96 → 0.92 ±0.01  
 Q584 = 0.94 ±0.02 " 0.93 → 0.87





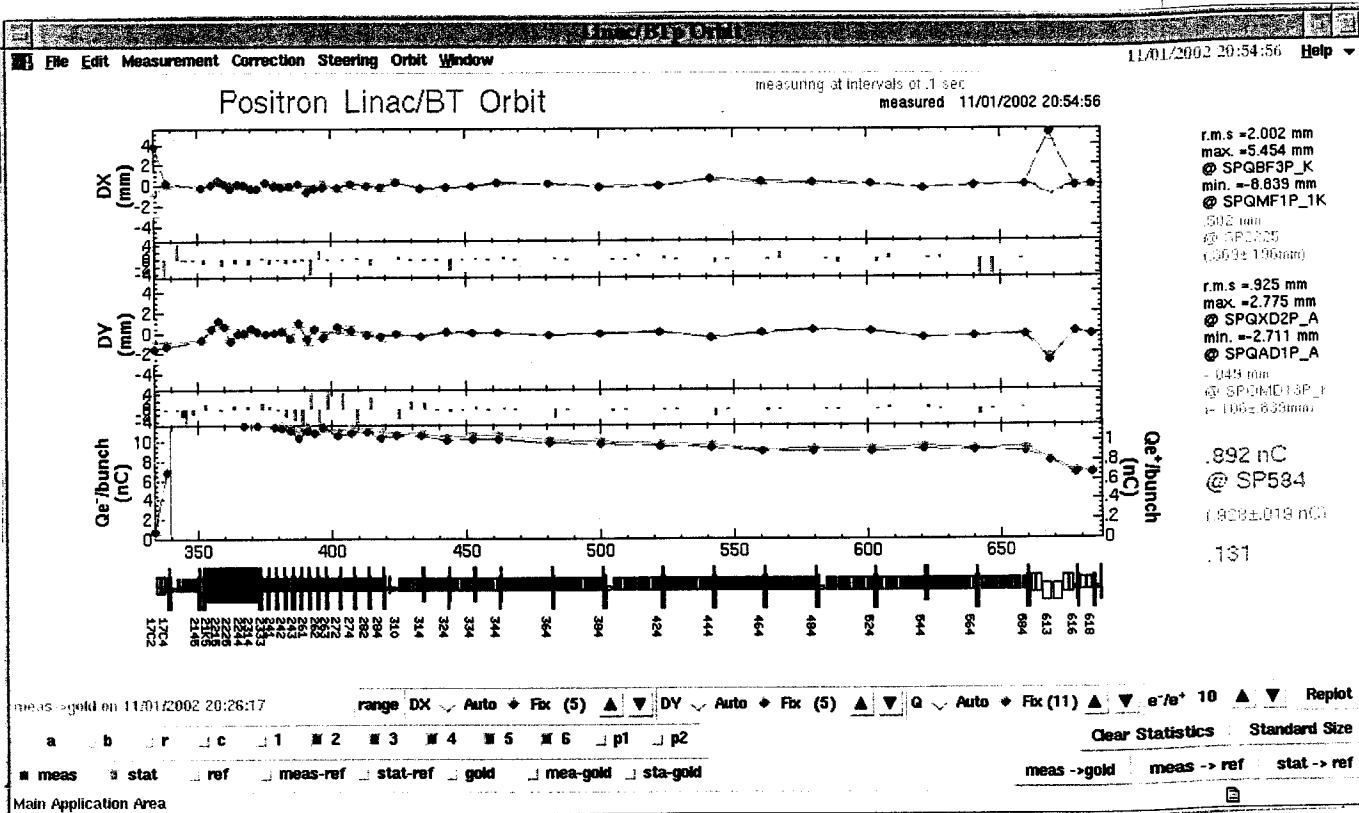
QD\_42\_4      9.011 → 10.989  
 QF\_42\_4      8.835 → ~~10.989~~ 11.062

Q444 = 0.92 → 0.96  
 Q584 = 0.87 → 0.93  
 (with slice)



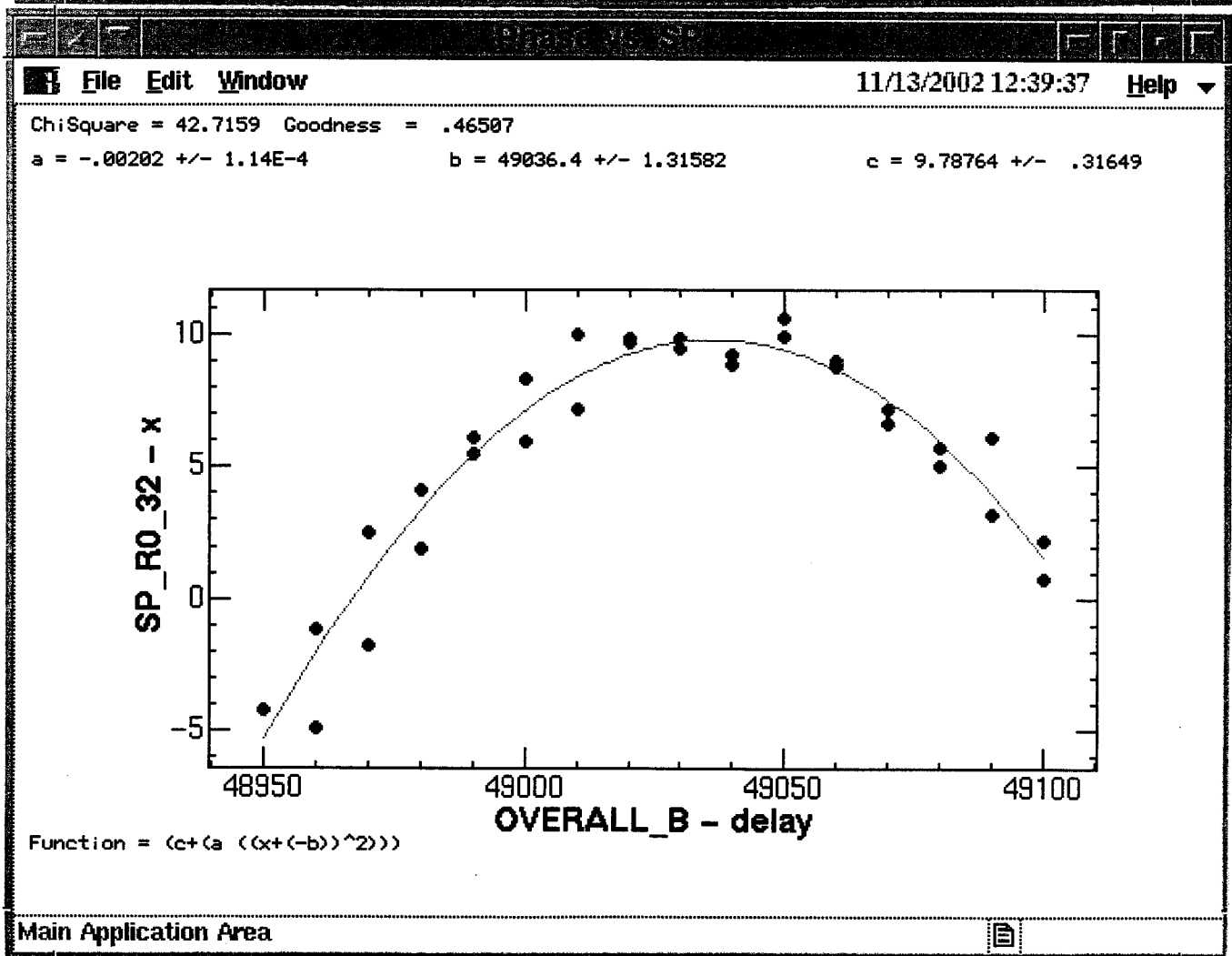
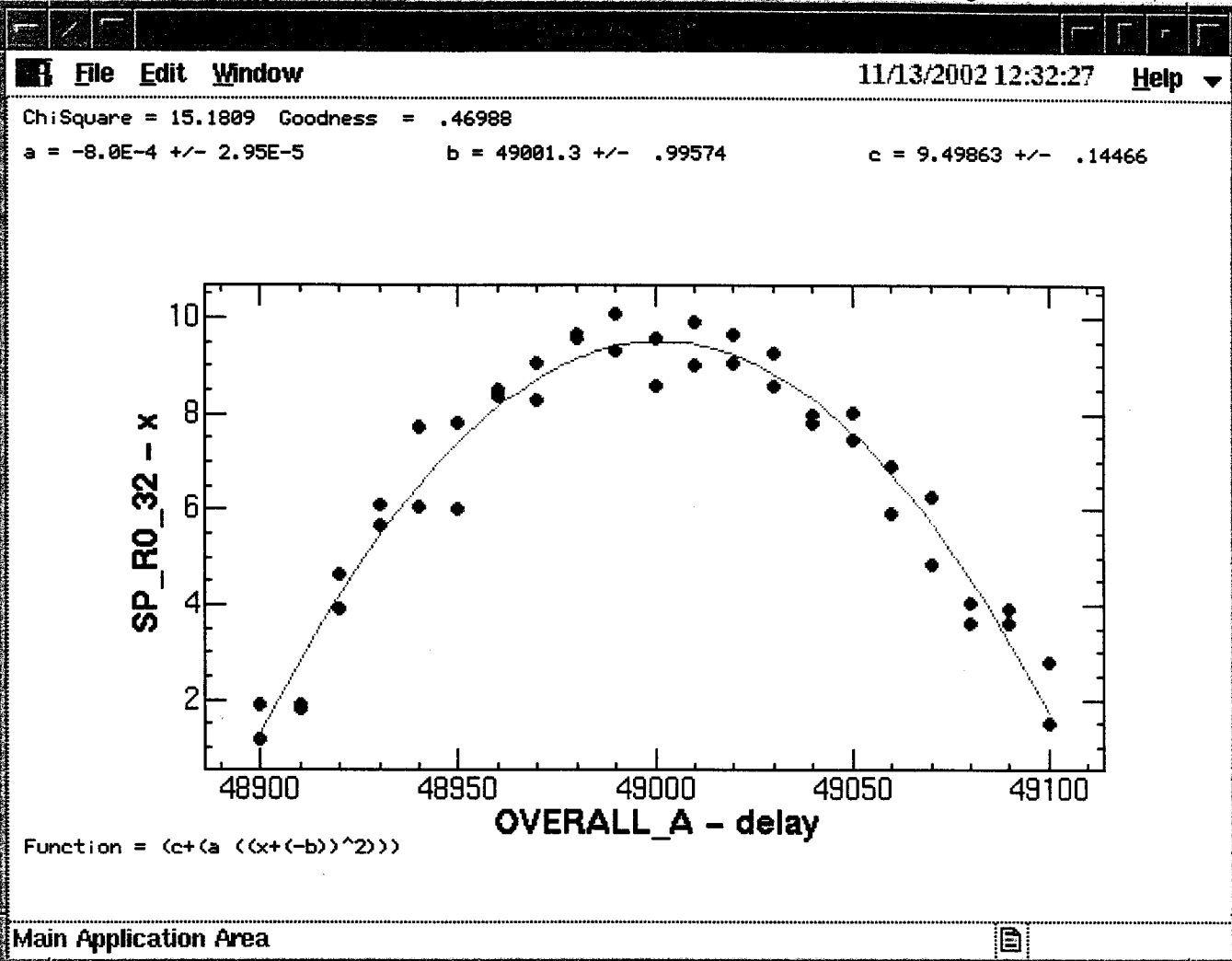
結論

前Qのtripletにて  
 強い束絞りにて  
 Beam Lossは、ほかに  
 なくることがある。  
 11/01



2002.11.13 (7c) d-11

~~SLED~~ SLED overall check



e

Trigger Delays

17:04 v13.0

Toggle AB-sled	Toggle C1-sled	Toggle 25-sled	Toggle Monitor
	Reference	Current	Difference
	Nov13 11:42:36	Nov13 17:03:45	
<input checked="" type="checkbox"/> KL_A1_RF	93431 ns	93431 ns	0
<input type="checkbox"/> OVERALL_A	49062 ns	49056 ns	-6
<input type="checkbox"/> OVERALL_B	49098 ns	49093 ns	-5
<input type="checkbox"/> OVERALL_C	50910 ns	50910 ns	0
<input type="checkbox"/> OVERALL_1	72929 ns	72929 ns	0
<input type="checkbox"/> OVERALL_2	72770 ns	72770 ns	0
<input type="checkbox"/> OVERALL_3	72691 ns	72691 ns	0
<input type="checkbox"/> OVERALL_4	72812 ns	72812 ns	0
<input type="checkbox"/> OVERALL_5	73027 ns	73027 ns	0

ead Ref.	Read Cur.	-96.3	-17.5	-8.8	-1.75	+1.75	+8.8	+17.5	+96.3
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*delay  
phase  
meq*

*data 213, delay-all  
data 213, phase-all  
data 2318, all*

2002\_11\_13\_17\_01\_28.gif 1104x750 pixels

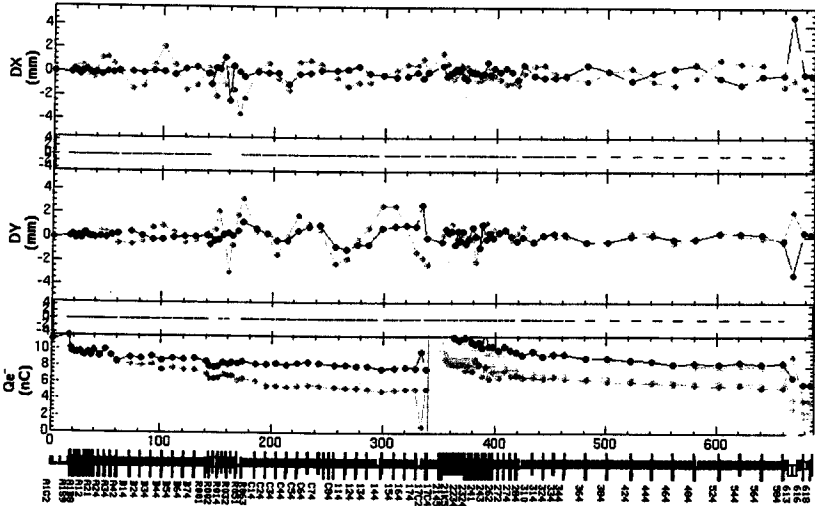
File Edit Measurement Correction Steering Orbit Window

11/13/2002 17:01:27 Help

Positron Linac/BT Orbit (2-bunch)

measuring at intervals of 3 sec

measured 11/13/2002 17:01:26



r.m.s = 2.647 mm  
max = 3.726 mm  
@ SPOXF4P\_K  
min = -15.56 mm  
@ SPOAF4P\_K

-389 mm  
@ SPR063  
(-305 ± 236 mm)

r.m.s = 3.122 mm  
max = 13.64 mm  
@ SPOXD4P\_A  
min = -20.686 mm  
@ SPOAF2P\_K

-648 mm  
@ SPR002  
(-474 ± 11 mm)

7.636 nC  
5.217 nC  
@ SP17C-1  
(7.706 ± 194 nC)  
(5.509 ± 275 nC)

golde\_03\_16\_2002\_20:17:13.dat

range DX v Auto + Fix (5) p1 p2 | DV v Auto + Fix (5) | Q v Auto + Fix (11) | e/s\* 10 | Replot

Clear Statistics Standard Size

meas -> gold meas -> ref stat -> ref

meas -> gold meas -> ref stat -> ref

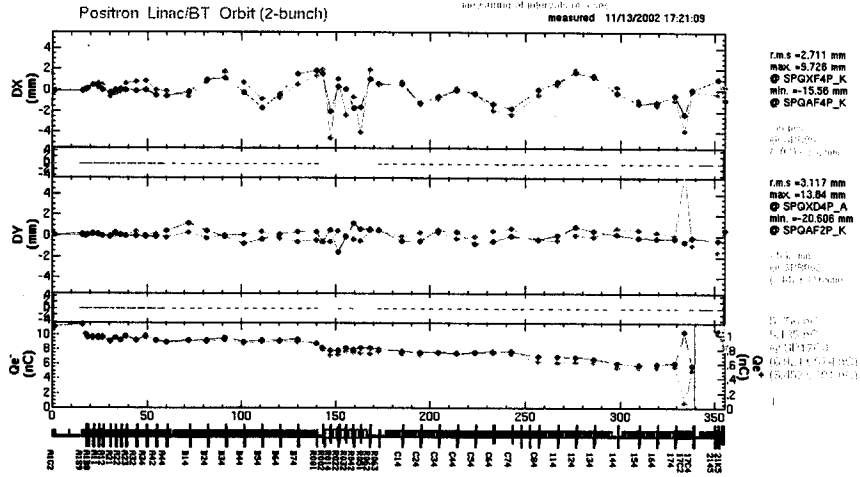
single double

Hard Copy

BX-A1-B8  $-0.265 \rightarrow -0.053$   
 BY-A1-B8  $1.100 \rightarrow 1.208$   
~~1.1~~

File Edit Measurement Correction Steering Orbit Window

11/13/2002 17:21:09 Help



g01d1\_03\_18\_2002\_20:17:13.dat

range DX Auto Fix (5) DY Auto Fix (5) Q Auto Fix (11) e/fo 10 Rapiot

Clear Statistics Standard Size  
 mess stat ref mess-ref stat-ref gold mess-gold sta-gold  
 mess stat ref mess-ref stat-ref gold mess-gold sta-gold  
 single double  
 Hard Copy



2002 11-23 (土) 17:00 ~ 11月・集福

Long range transverse wake at 2.3

18:12

2.3

~~AI RF 93431 → 93466 ns (+35 ns) %~~  
~~Overall A 49058~~

AI RF の 17 個の 2.3

AI RF	Time (ns)	Order	$\Delta E/E_1$
93431	0	①	24%
93423	-8	②	29%
93414	-17	③	24%
93405	-26	④	25%
93396	-35	⑤	1.1%
93388	-43	⑥	2.3%
93379	-52	⑦	3.9%

2.3

古川 弘 氏 TEL  
~~tkstana~~ tkstana-a122 (poplar or dychee)  
 |  
 10/20/02 2.3 (2.3)

2.3

AI RF	Time (ns)	Order	$\Delta E/E_1$
<del>93379</del>			
93379	-52	(A)	2.3%
93388	-43	(B)	2.4%
93396	-35	(C)	3.0%
93405	-26	(D)	3.6%
93414	-17	(E)	2.6%
93423	-8	(F)	
93431	(0)	(G)	
93440	(+9)	(H)	

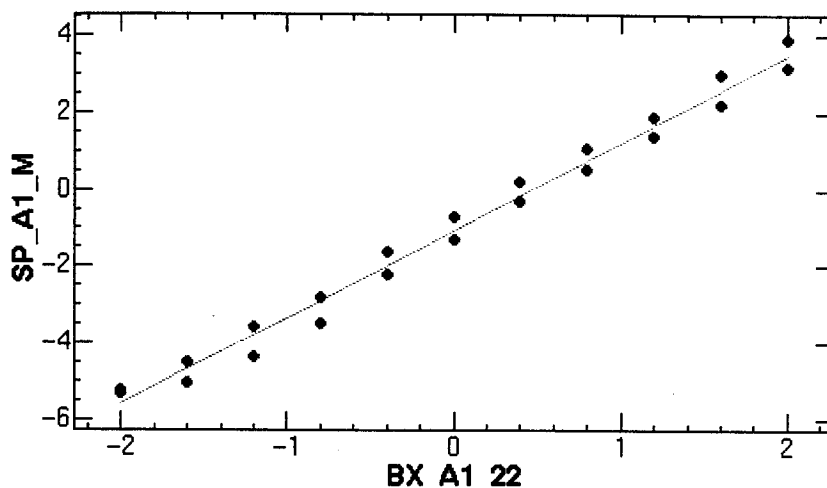
2.3

ChiSquare = 2.55774 Goodness = .45793

a = 2.27715 +/- .06028

b = -1.0524 +/- .07624

$\frac{\Delta E}{E} = 3.9\%$



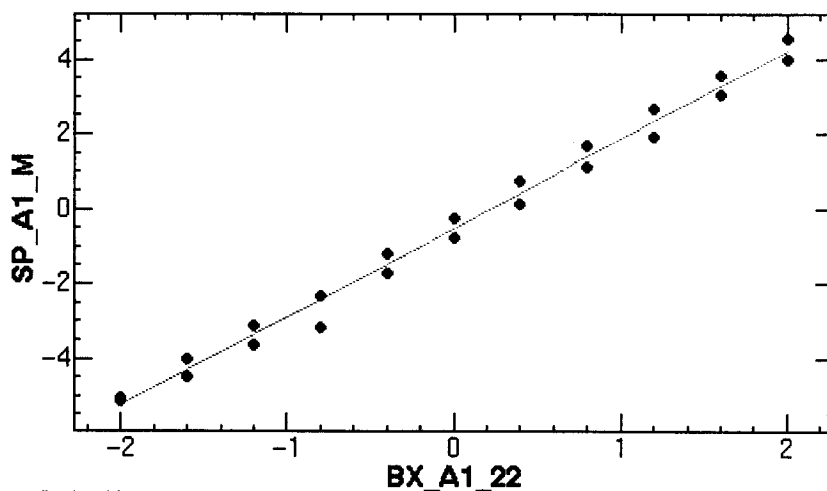
Function = (b+(a x))

Energy at A1\_B8 : 8.409643243890635 MeV

ChiSquare = 2.11489 Goodness = .45793

a = 2.37058 +/- .05481

b = -.52282 +/- .06933



Function = (b+(a x))

Energy at A1\_B8 : 8.078193383857995 MeV