

今日のビームステータス値に電流値を変更したマグネット  
↓

-----Q-mag-----  
 QD/D\_54\_4 25.978A → 0.000A  
 QF\_54\_4 26.037A → 0.000A  
 QD/D\_56\_4 28.952A → 0.000A  
 QF\_56\_4 29.143A → 0.000A

-----STC\_X-----  
 BX\_38\_4 0.179A → 0.280A  
 SX\_45\_1 0.502A → 1.503A  
 BX\_48\_4 -0.126A → -0.096A  
 SX\_53\_1 -3.105A → -3.801A  
 SX\_53\_3 -1.100A → 0.001A  
 SX\_55\_1 -2.436A → -3.100A  
 SX\_55\_3 -0.915A → 0.001A  
 SX\_57\_1 3.987A → 0.001A

-----STC\_Y-----  
 SY\_45\_1 0.001A → 1.000A  
 BY\_48\_4 0.104A → 0.001A  
 SY\_53\_1 -2.123A → -3.000A  
 SY\_53\_3 -2.087A → 0.001A  
 SY\_55\_1 2.123A → 2.101A  
 SY\_55\_3 0.900A → 0.001A  
 SY\_57\_1 -2.223A → 0.001A

BX_38_4	0.089	0.089	0.087	0.280	0.276	0.191	0.191	0.189
BY_38_4	0.001	0.001	0.006	-0.353	-0.352	0.352	0.352	0.346
SX_43_1	0.399	0.399	0.404	0.643	0.647	0.244	0.244	0.243
SY_43_1	-2.309	-2.309	-2.304	-1.149	-1.145	-1.160	-1.160	-1.159
SX_45_1	0.502	0.502	0.504	1.503	1.506	1.001	1.001	1.002
SY_45_1	0.001	0.001	0.001	1.000	1.001	0.999	0.999	1.000
SX_47_1	-1.801	-1.801	-1.799	-2.060	-2.061	0.259	0.259	0.262
SY_47_1	-2.199	-2.199	-2.197	-1.574	-1.572	-0.625	-0.625	-0.625
QD/D_54_4	25.978	25.978	25.919	0.000	0.000	-25.978	-25.978	-25.919
QF_54_4	26.037	26.037	25.978	0.000	0.015	-26.037	-26.037	-25.963
QD/D_56_4	28.952	28.952	28.923	0.000	0.000	-28.952	-28.952	-28.923
QF_56_4	29.143	29.143	29.128	0.000	0.000	-29.143	-29.143	-29.128
BX_48_4	-0.028	-0.028	-0.031	-0.096	-0.098	0.068	0.068	0.067
BY_48_4	0.438	0.438	0.446	0.001	0.005	-0.437	-0.437	-0.441
SX_53_1	-3.999	-3.999	-3.996	-3.801	-3.801	-0.198	-0.198	-0.195
SY_53_1	-3.100	-3.100	-3.093	-3.000	-2.998	-0.100	-0.100	-0.095
SX_53_3	-1.198	-1.198	-1.198	0.001	0.002	-1.197	-1.197	-1.196
SY_53_3	-2.087	-2.087	-2.087	0.001	0.000	-2.086	-2.086	-2.087
SX_55_1	-3.198	-3.198	-3.198	-3.100	-3.101	-0.098	-0.098	-0.097
SY_55_1	1.654	1.654	1.659	2.101	2.102	0.447	0.447	0.443
SX_55_3	1.020	1.020	1.020	0.001	0.000	-1.019	-1.019	-1.018
SY_55_3	1.000	1.000	1.002	0.001	0.002	-0.999	-0.999	-1.000
SX_57_1	4.001	4.001	3.996	0.001	0.000	-4.000	-4.000	-3.996
SY_57_1	-1.071	-1.071	-1.071	0.001	0.000	-1.070	-1.070	-1.071
SX_57_3	4.004	4.004	4.004	0.001	0.002	-4.003	-4.003	-4.002
BX_58_4	-1.001	-1.001	-1.050	0.005	-0.039	-0.996	-0.996	-1.011

11=38

SX<sub>57-1</sub> = 0.0 → 2.8 → 0.0

元=元。

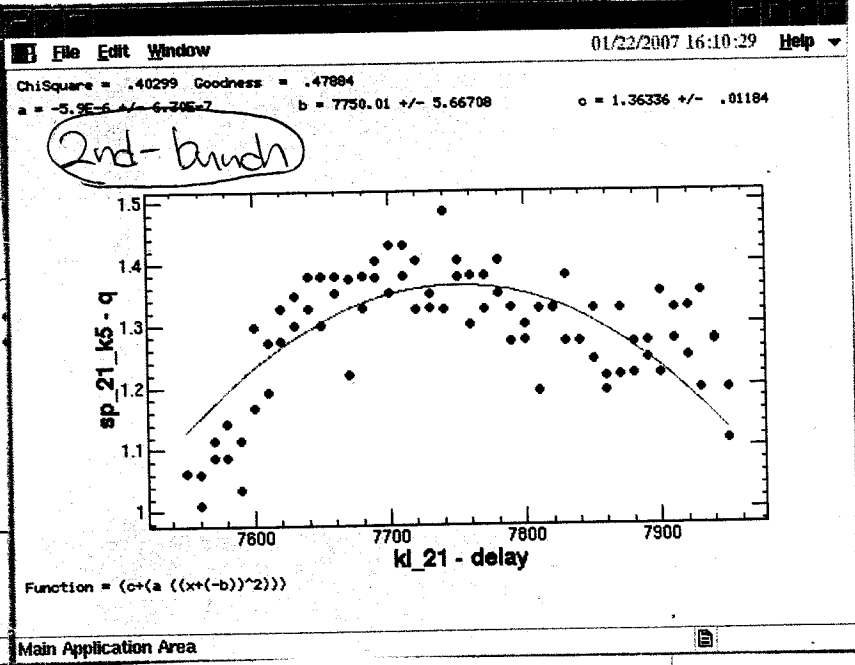
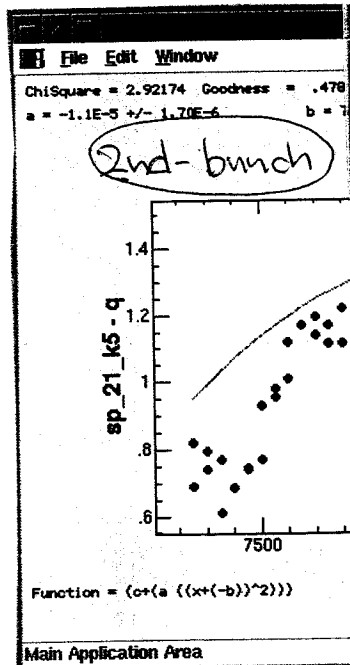
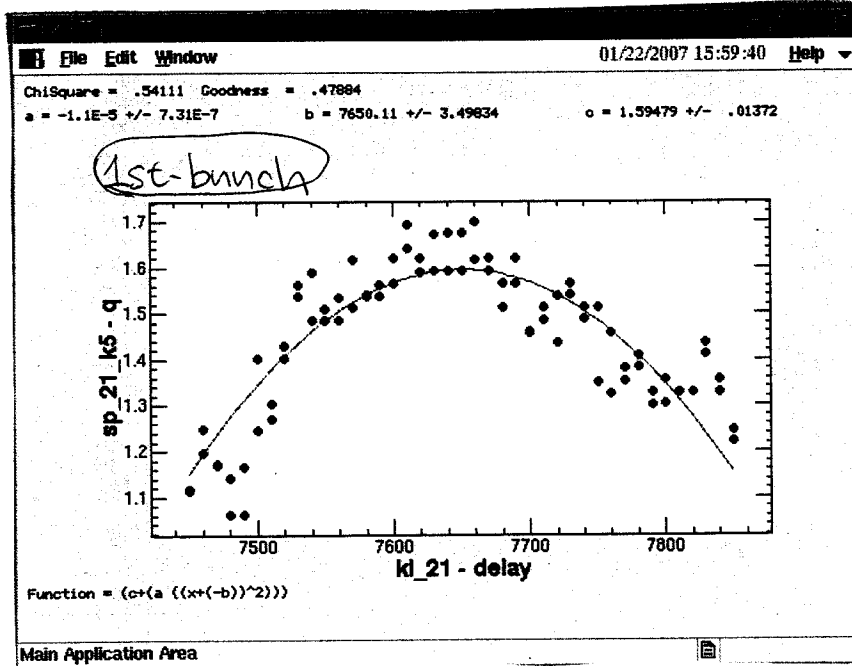
移動前      移動後

BX <sub>38_4</sub>	0.089	0.089/ 0.087	0.194/ 0.188	0.105	0.105	0.101
BY <sub>38_4</sub>	0.001	0.001/ 0.006	-0.353/-0.352	0.352	0.352	0.346
SX <sub>43_1</sub>	0.399	0.399/ 0.404	0.643/ 0.647	0.244	0.244	0.243
SY <sub>43_1</sub>	-2.309	-2.309/-2.306	-1.149/-1.145	-1.160	-1.160	-1.161
SX <sub>45_1</sub>	0.502	0.502/ 0.504	1.203/ 1.204	0.701	0.701	0.700
SY <sub>45_1</sub>	0.001	0.001/ 0.001	0.702/ 0.701	0.701	0.701	0.700
SX <sub>47_1</sub>	-1.801	-1.801/-1.801	-2.060/-2.061	0.259	0.259	0.260
SY <sub>47_1</sub>	-2.199	-2.199/-2.197	-2.873/-2.871	0.674	0.674	0.674
SY <sub>47_3</sub>	-1.623	-1.623/-1.620	0.001/ 0.002	-1.622	-1.622	-1.618
BX <sub>48_4</sub>	-0.028	-0.028/-0.028	-0.126/-0.132	0.098	0.098	0.104
BY <sub>48_4</sub>	0.438	0.438/ 0.446	0.104/ 0.107	-0.334	-0.334	-0.339
SX <sub>53_1</sub>	-3.999	-3.999/-3.996	-4.006/-4.006	0.007	0.007	0.010
SY <sub>53_1</sub>	-3.100	-3.100/-3.093	-3.623/-3.621	0.523	0.523	0.528
SX <sub>53_3</sub>	-1.198	-1.198/-1.198	0.001/-0.002	-1.197	-1.197	-1.196
SY <sub>53_3</sub>	-2.087	-2.087/-2.084	0.001/ 0.000	-2.086	-2.086	-2.084
SX <sub>55_1</sub>	-3.198	-3.198/-3.198	-2.636/-2.634	-0.562	-0.562	-0.564
SY <sub>55_1</sub>	1.635	1.635/ 1.640	1.589/ 1.589	-0.046	-0.046	-0.051
SX <sub>55_3</sub>	1.020	1.020/ 1.020	0.001/-0.002	-1.019	-1.019	-1.018
SY <sub>55_3</sub>	1.000	1.000/ 1.002	0.001/ 0.002	-0.999	-0.999	-1.000
SX <sub>57_1</sub>	4.001	4.001/ 3.996	3.686/ 3.682	-0.315	-0.315	-0.314
SY <sub>57_1</sub>	-1.034	-1.034/-1.034	-1.215/-1.221	0.181	0.181	0.187
SX <sub>57_3</sub>	4.004	4.004/ 4.004	0.001/ 0.000	-4.003	-4.003	-4.004
BX <sub>58_4</sub>	-1.001	-1.001/-1.050	0.005/-0.029	-0.996	-0.996	-1.021

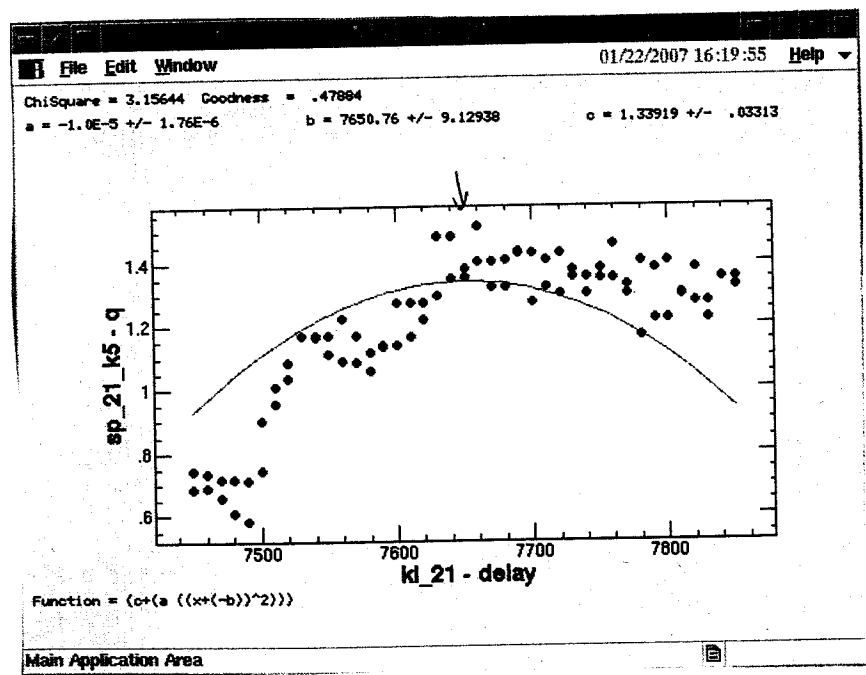
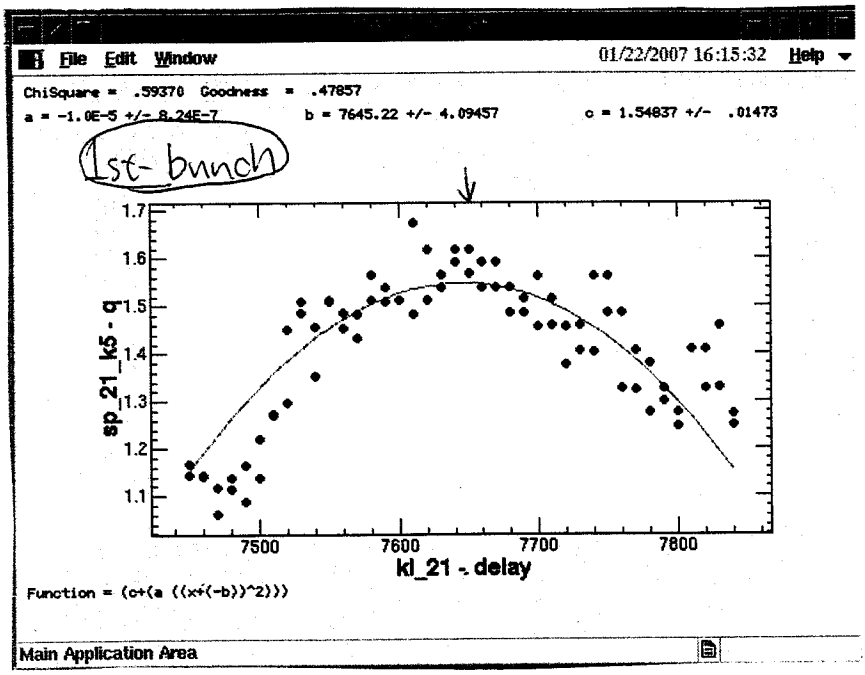
2007. 1.22

KL-21. 18 RF timing 調整

- $\phi_{21} = 3\pi \rightarrow$  KL-22 timing 依存性 あり  
 KL-21-delay = 7679

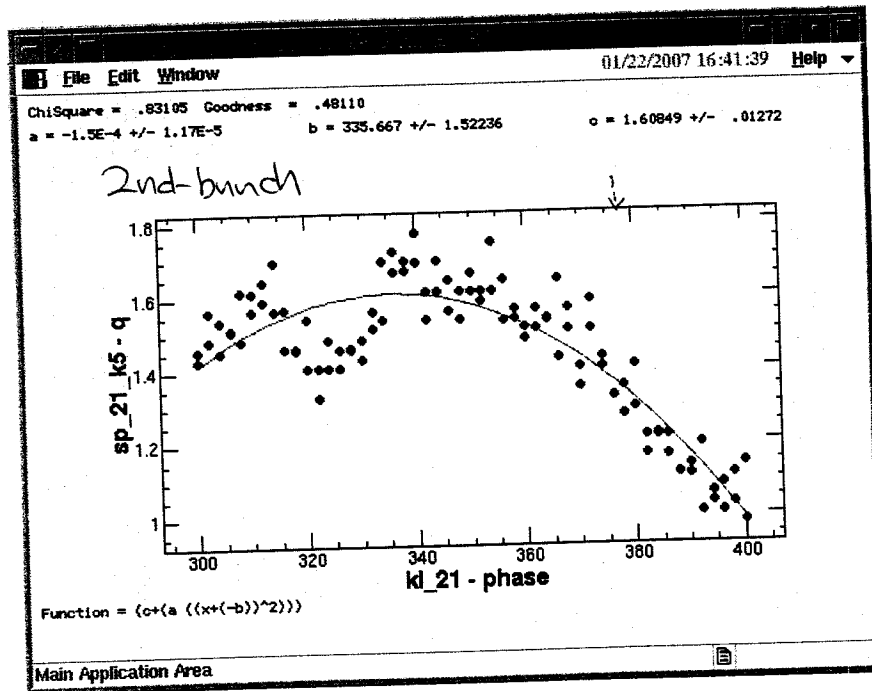
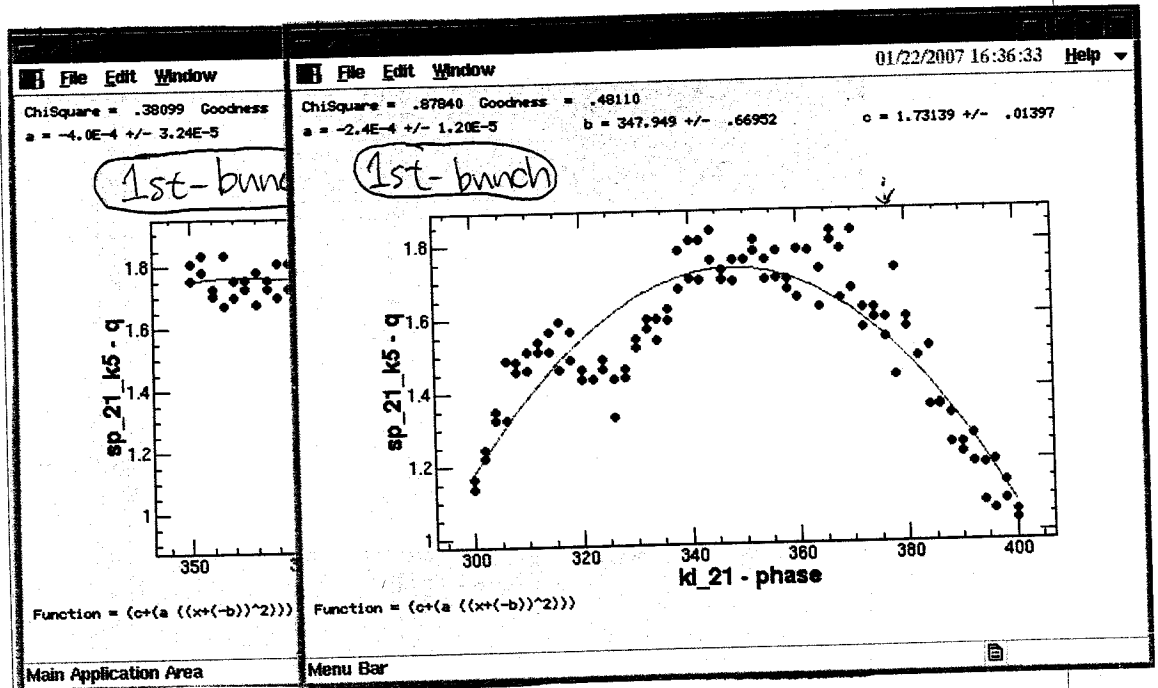


○ 平均の値を保存し忘れたので 測り直す。

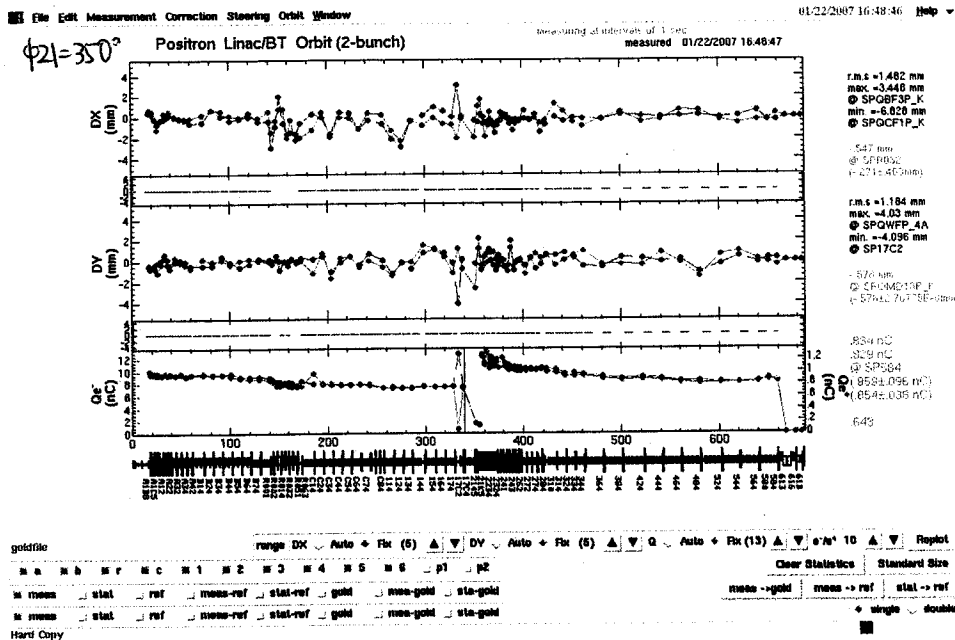
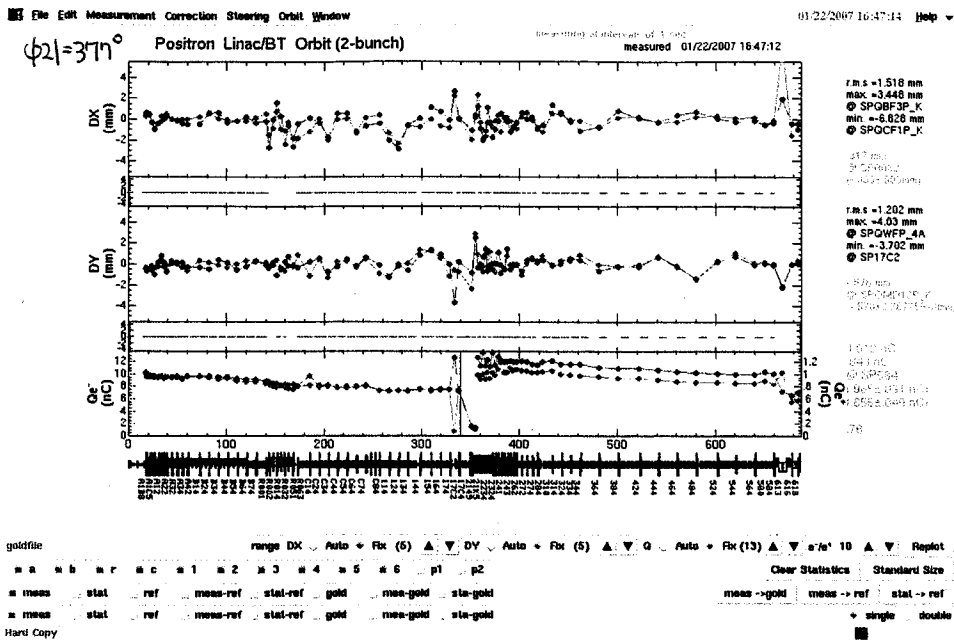


KLY\_21-timing = 7679 → 7650<sup>1</sup>に変更

o  $KLY_{21}$ -delay = 17651  $\rightarrow$   $\phi KLY_{21}$  の依存性を見る

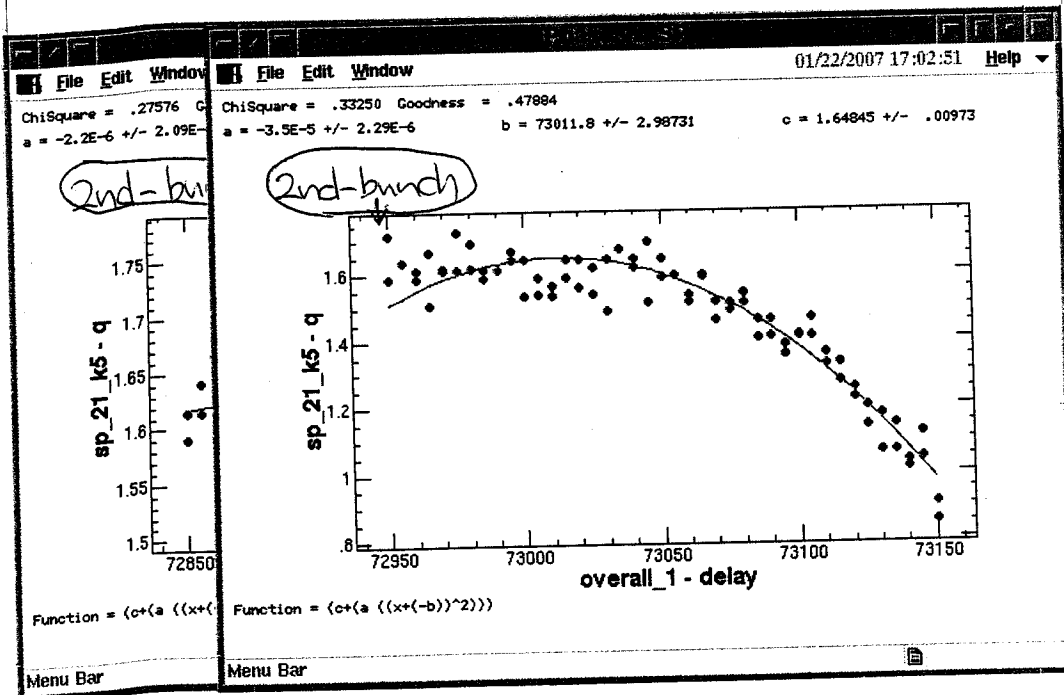
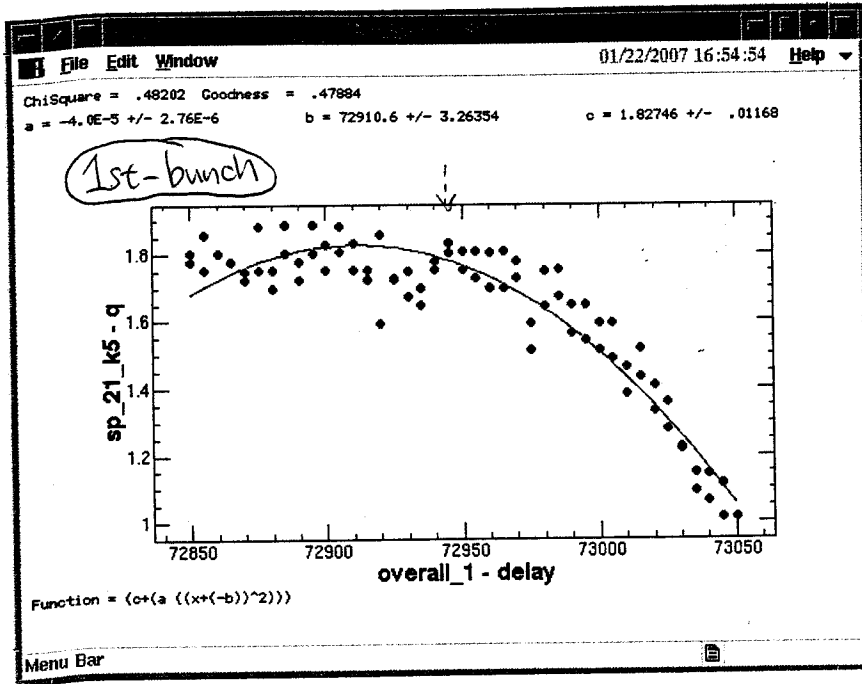


$\phi KLY_{21} = 377^\circ \rightarrow 350^\circ$  とおける 21-KS の電流量は ± の向きが  
 $\rightarrow$  3ヶ月前の終端との電流量は減る。



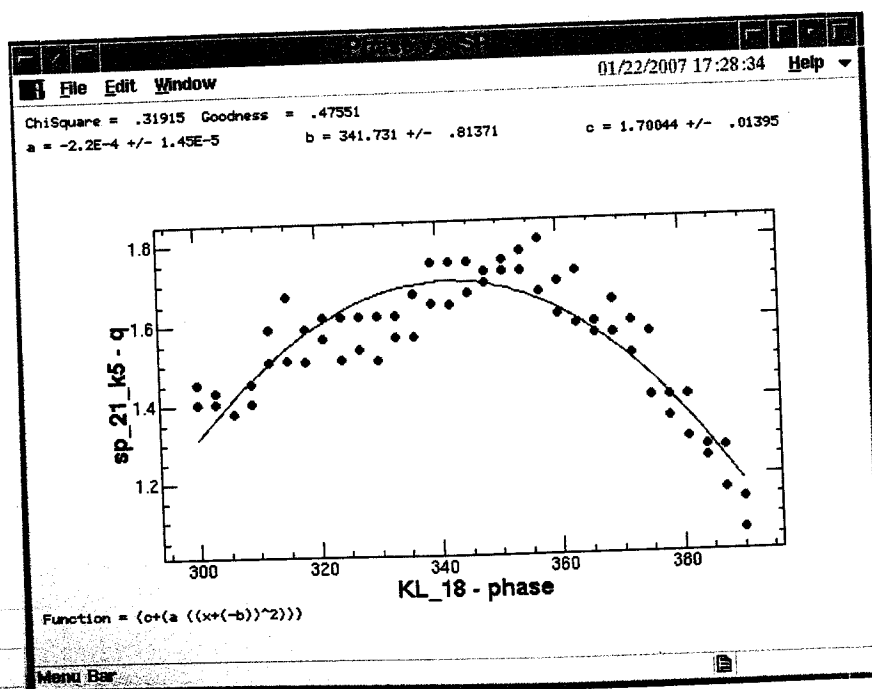
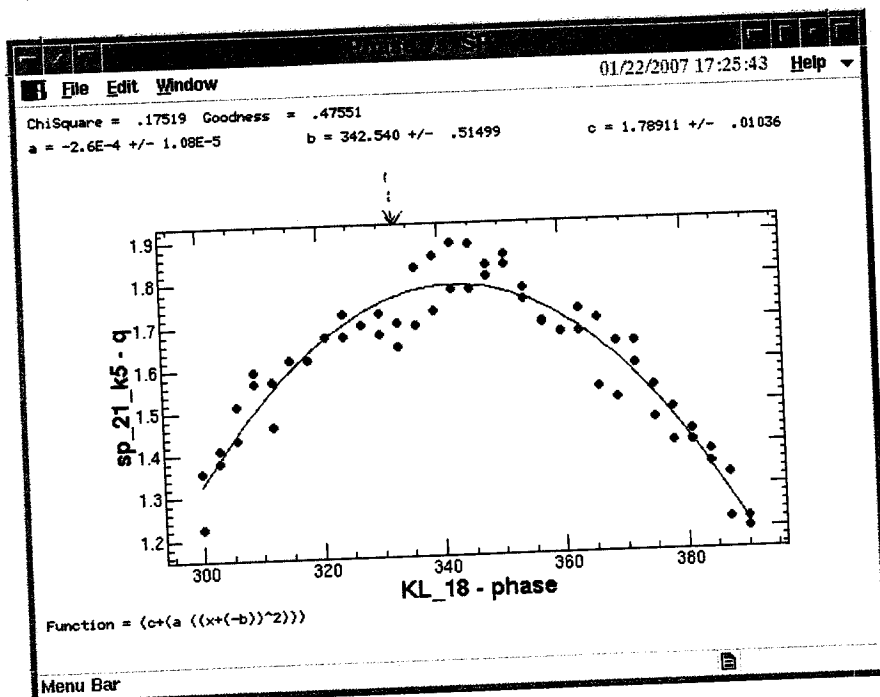
当周  $\phi_{KLY21} = 350^\circ$  とおす

a) 1sector Overall delay の 依存性 を 見よ 元値 = 72945ns



1sector overall-delay の 元値に 62 対し 72945 ns

○  $\phi_{KL-18}$  の依存性を測る。元値 =  $334.5^\circ$



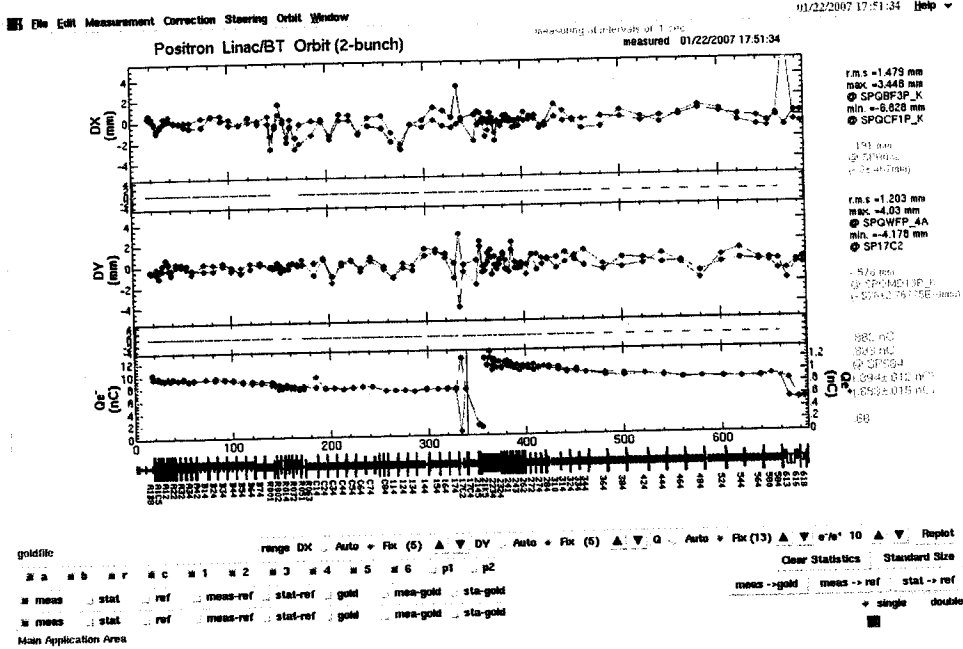
$\phi_{KL-18} = 334.5^\circ \rightarrow 342^\circ$  に移る。



φSB 2,3,4 を共通に変化させたときの最終的な電荷量の変化を調べる。

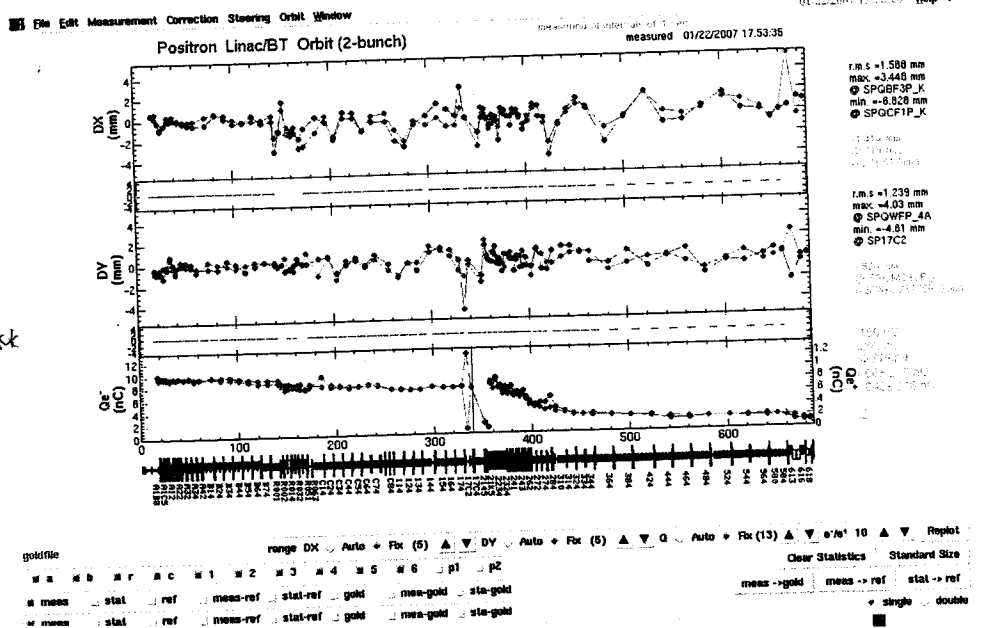
QSB4 ~ 0.8nC  
 "        ↓        0.9nC

~~SB234~~  
 $\Delta\phi = -12.0^\circ$   
 SB5 =  $-12^\circ$  LT=.



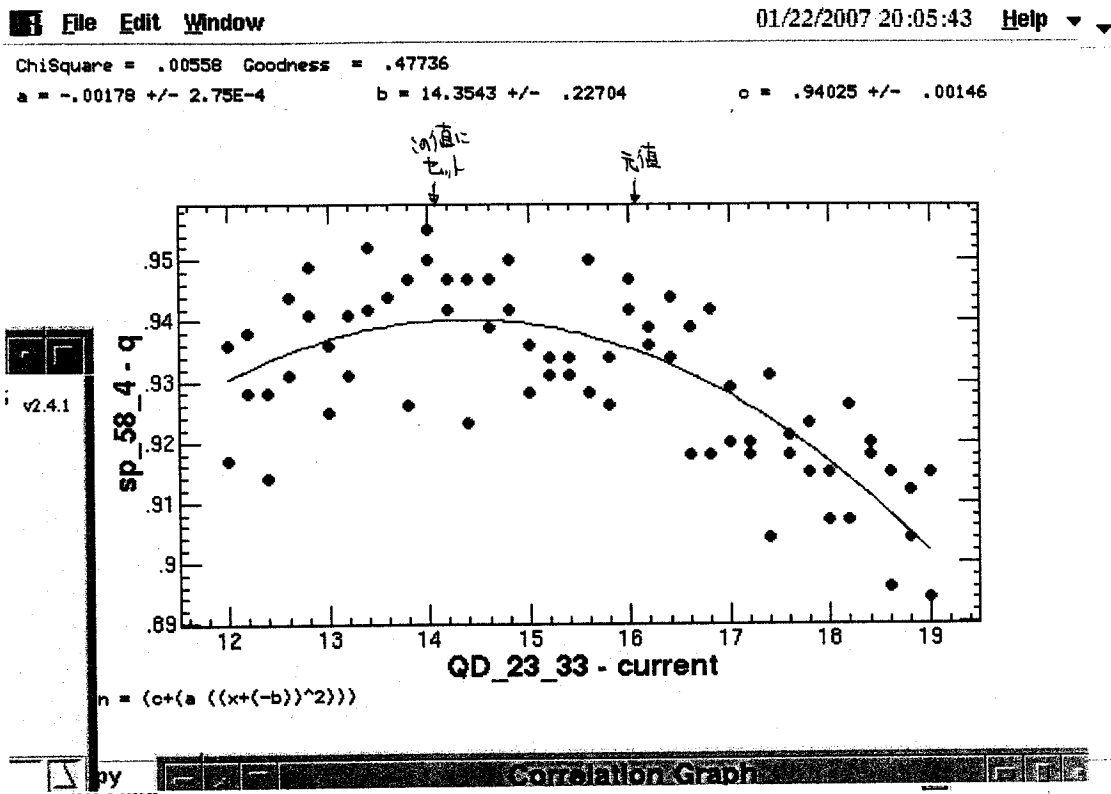
現在 1103x-2 (Mag) と data 4384.all にて  
 (KEKB e<sup>+</sup> before Quath)

Linac Optics  
 Panel 7<sup>1</sup>  
 2と2-9  
 Qと2<sup>1</sup>  
 (10C. 20.23<sup>1</sup>  
 17と2<sup>1</sup>  
 2と2<sup>1</sup>)



data 4384.all を N-スに調整する

QD/D\_21-45 ~ QF\_23-43 を変化させたの F-量 の増減を確認する



QF/D/F_22-12	21.256	→	20.658
QF_22-44	17.658	→	18.256
QF_23-24	22.846	→	23.846
QD_23-33	16.094	→	14.094

Simple Correlation の結果が

Target 前 の Q-Magnet, STC の調整