

SC_17_05

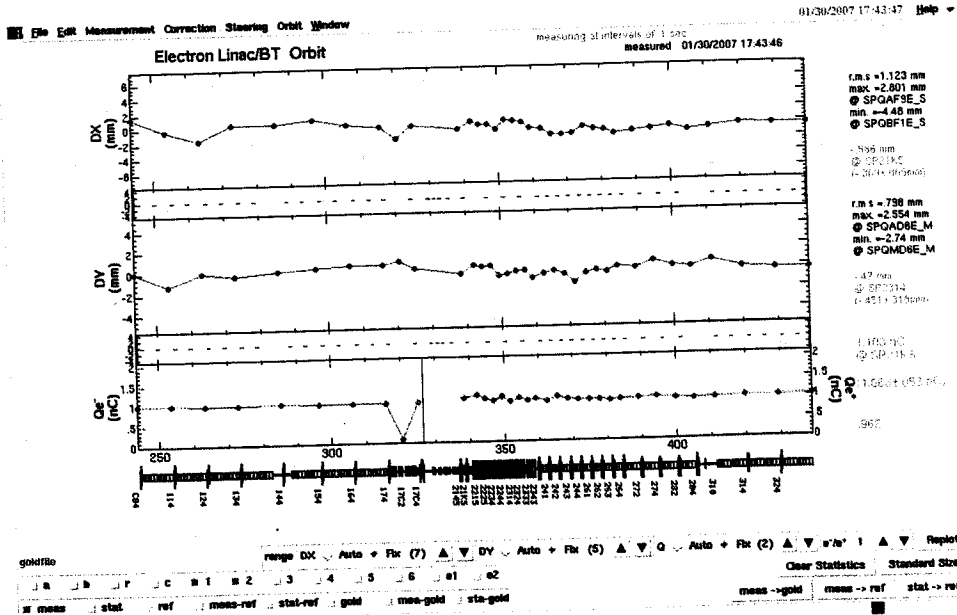
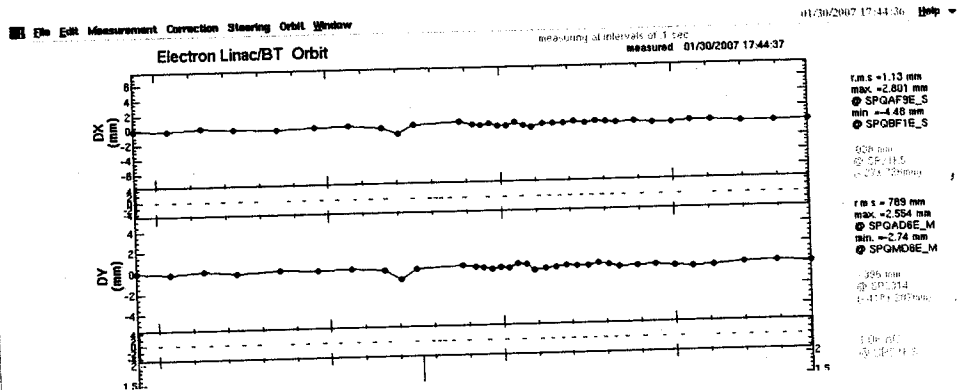
SC_21_45

16:29

BT リンクを保存
RF phase "

KEKB e⁻モードに変更

17:38



$h = 3.0$ 設定
↓
3.1 spike
(3.31 @ 1Mc)
4.02 @ peak
3.0 @ TGT
↓
factor 2.0

② target bump-height (H) (mm)	Q@21K5	Q@2215	Q@2343	② sp 17α
0	1.096	1.152	1.073	0.0
3.0	1.			3.2
(factor 2Lc 2m?)				
0.0	1.050	1.152	1.073	0.0
3.0	1.067	1.163	1.063	3.4
3.5	1.063	1.158	1.055	3.9
4.0	1.059	1.152	1.062	4.5
4.5	1.035	1.125	1.056	5.0
5.0	0.997	1.043	0.984	5.5
5.5	0.908	0.977	0.912	6.1
6.0	0.362	0.316	0.333	6.6
6.5	0.191	0.107	0.134	7.2
7.0	0.163	0.054	0.102	7.6
0				
4.0	1.061	1.154	1.069	4.5
4.2	1.044	1.135	1.069	4.8
4.4	1.033	1.128	1.048	5.0
4.6	1.023	1.114	1.047	5.2
4.8	0.976	1.058	1.007	5.4
5.0	0.953	1.034	0.950	5.6
5.2	0.904	0.965	0.882	5.8
5.4	0.810	0.850	0.799	6.0
5.6	0.669	0.691	0.669	6.3
5.8	0.475	0.468	0.433	6.5
6.0	0.328	0.316	0.297	6.7
6.2	0.244	0.215	0.203	6.8
6.4	0.199	0.145	0.151	7.0
6.6	0.165	0.081	0.120	7.2
6.8	0.150	0.074	0.109	7.4
7.0	0.151	0.057	0.109	7.6

18:15

Target e 2173

Q@ 17C4 = 1.0

bump-height (mm)

- 0
- 3.5
- 4.0
- 4.5
- 5.0
- 5.5
- 6.0
- 6.5
- 7.0
- 0
- 5.0

Q@ 21K5

Q@ 2215

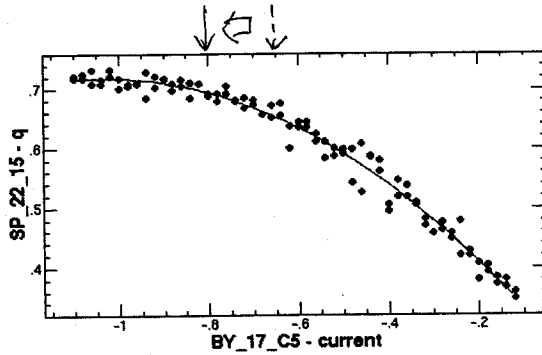
Q@ 2343

2sp @ 17C4

	Q@ 21K5	Q@ 2215	Q@ 2343	2sp @ 17C4
0	0.146	0.049	0.103	0.0
3.5	0.163	0.065	0.116	3.9 (?)
4.0	0.200	0.120	0.149	4.1 (5)
4.5	0.346	0.334	0.323	5.1
5.0	0.626	0.646	0.622	5.6
5.5	0.594	0.612	0.606	6.2
6.0	0.291	0.280	0.296	6.8
6.5	0.159	0.090	0.122	7.2
7.0	0.159	0.048	0.105	7.6

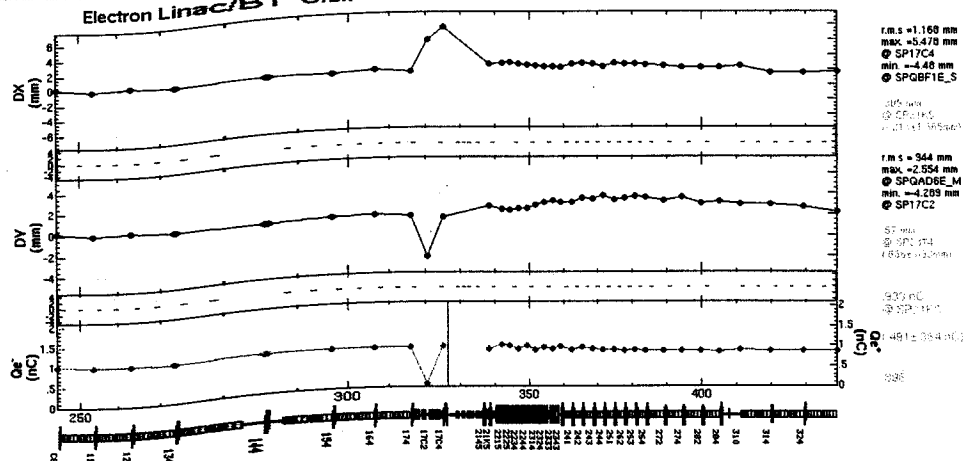
222 yata n stp = E 73. -0.65 → -0.80 A

File Edit Window 01/30/2007 19:00:08 Help
 ChiSquare = .02504 Goodness = .48090
 a = -.43964 +/- .02158 b = -1.0385 +/- .02196 c = .71828 +/- .00360



Hard Copy

File Edit Measurement Correction Steering Orbit Window 01/30/2007 18:22:52 Help
 measuring at intervals of 1 sec measured 01/30/2007 18:22:52

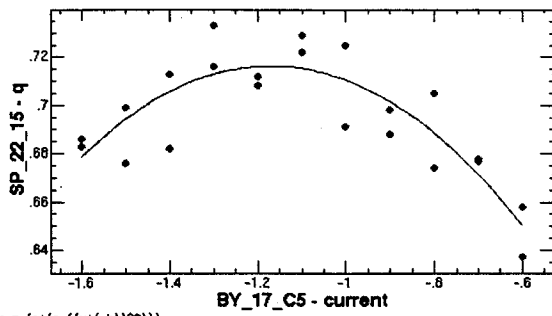


goldfile

Hard Copy

FG

File Edit Window 01/30/2007 19:04:17 Help
 ChiSquare = .00334 Goodness = .45694
 a = -.20268 +/- .03202 b = -1.1704 +/- .02470 c = .71627 +/- .00420

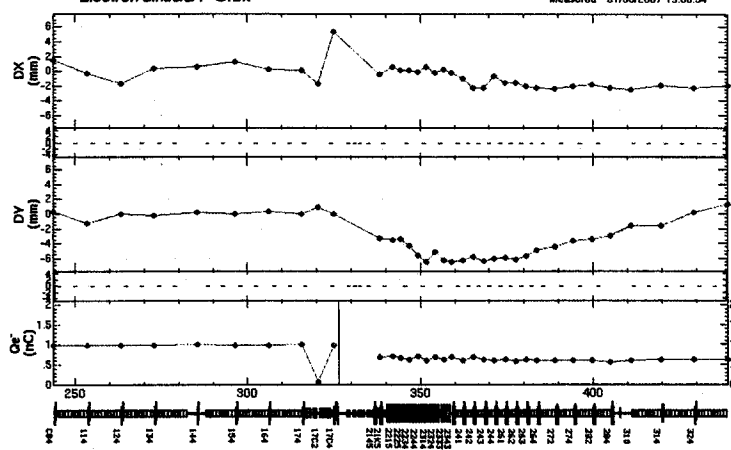


Function = (c+(a*((x+(-b))^2)))

Hard Copy

一目
 BY-17CSに
 0.8A → -1.2Aにしたが
 軌道が大きく出るようになった。

File Edit Measurement Correction Steering Orbit Window 01/30/2007 19:06:33 Help
 Electron Linc/BT Orbit measured at interval of 1.000 measured 01/30/2007 19:06:34



DX (mm)
 rms = 1.36 mm
 max = 5.391 mm
 @ SP17C4
 min = -4.48 mm
 @ SPGBF1E_S
 -4 mm
 @ SP21E5
 (-5.7 : 5.7) mm

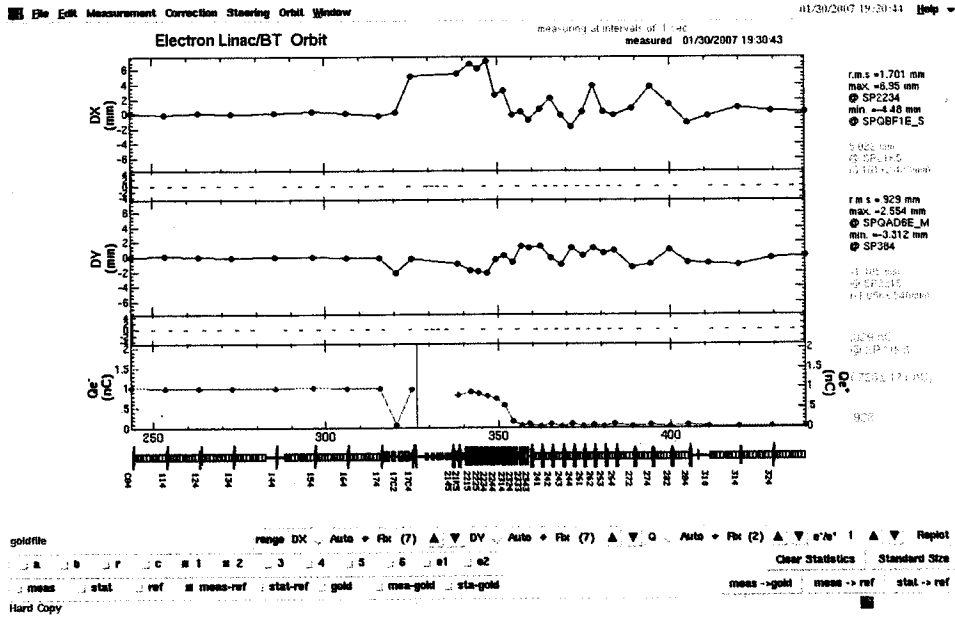
DY (mm)
 rms = 2.42 mm
 max = 7.801 mm
 @ SP384
 min = -8.402 mm
 @ SP2343
 -3.501 mm
 @ SP21E
 (-2.21 : 1.61) mm

Qx (nC)
 0.86 nC
 @ SP21E5
 (0.63 : 0.94) nC
 0.97C

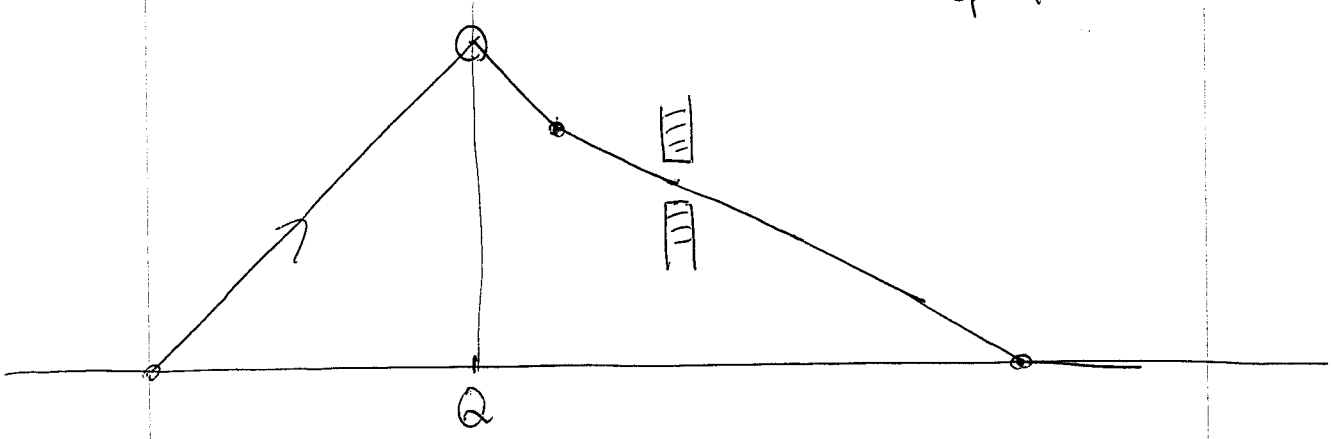
goldfile range DX Auto + Fit (7) DV Auto + Fit (7) Q Auto + Fit (2) a/a' 1 Replot
 a b c r 1 2 3 4 5 6 e1 e2 Clear Statistics Standard Size
 s mean stat ref mean-ref stat-ref gold mean-gold etc-gold mean -> ref stat -> ref
 Hard Copy

Fine Scan ϵ (1/1/0)

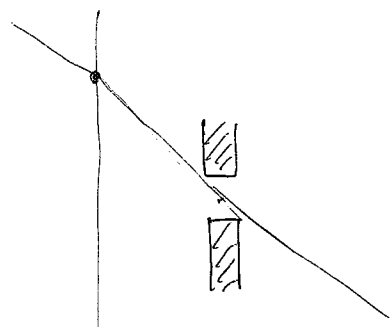
bump-height (mm)	Q@2115	Q@2215	Q@2343	SP@1704
0	0.146	0.050	0.165	0.0
4.0	0.210	0.136	0.151	4.5
4.2	0.274	0.230	0.230	4.8
4.4	0.307	0.281	0.300	5.0
4.6	0.408	0.405	0.409	5.2
4.8	0.558	0.562	0.544	5.4
5.0	0.651	0.694	0.653	5.6
5.2	0.687	0.724	0.682	5.9
5.4	0.640	0.676	0.661	6.1
5.6	0.593	0.606	0.555	6.2
5.8	0.450	0.421	0.422	6.4
6.0	0.339	0.302	0.273	6.7
6.2	0.202	0.150	0.154	6.9
6.4	0.165	0.099	0.133	7.2



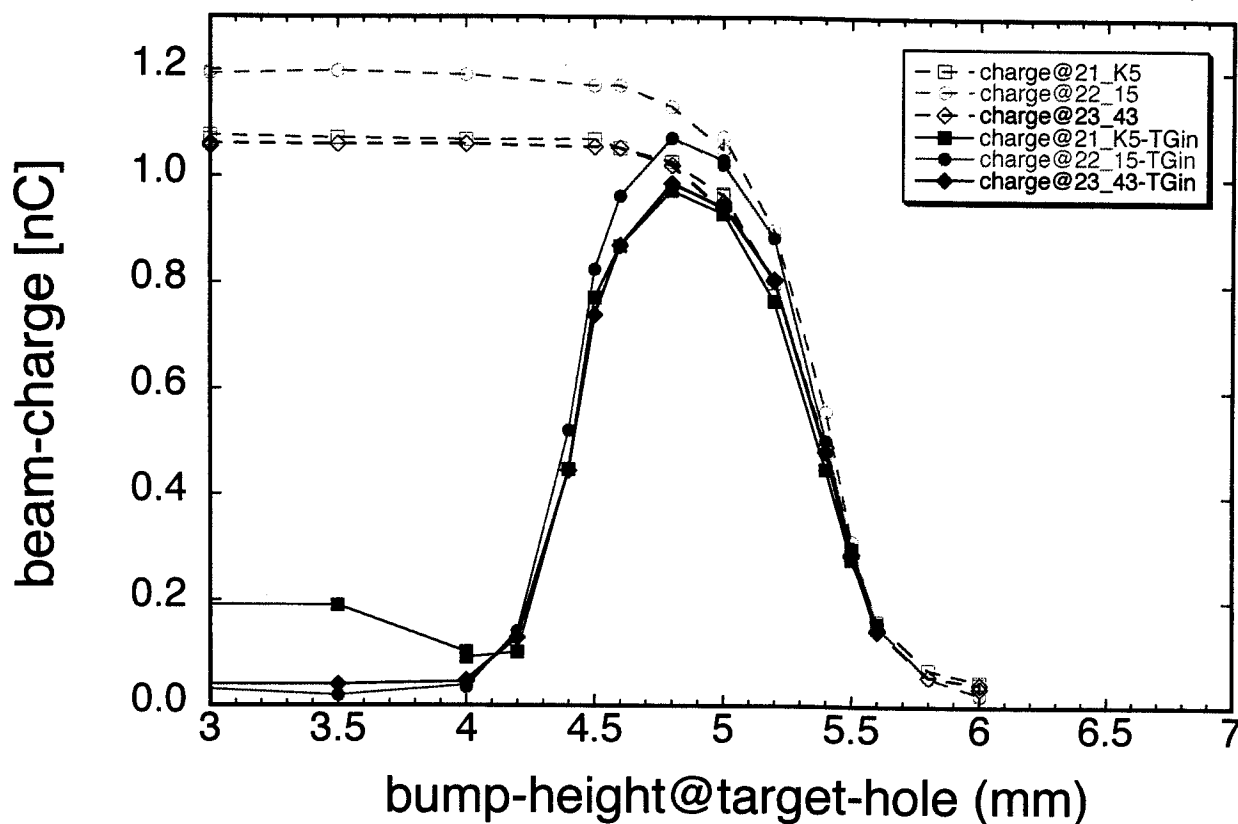
e^+ optics



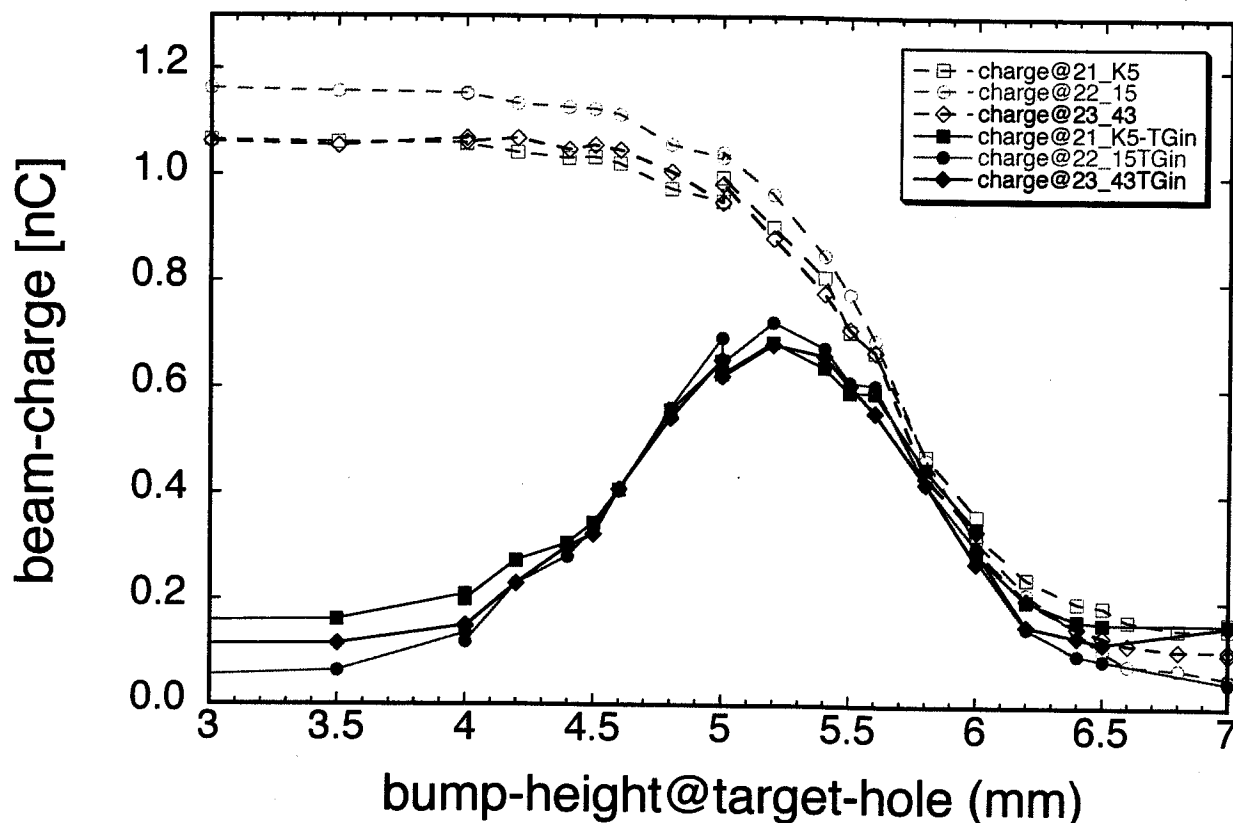
e^- optics

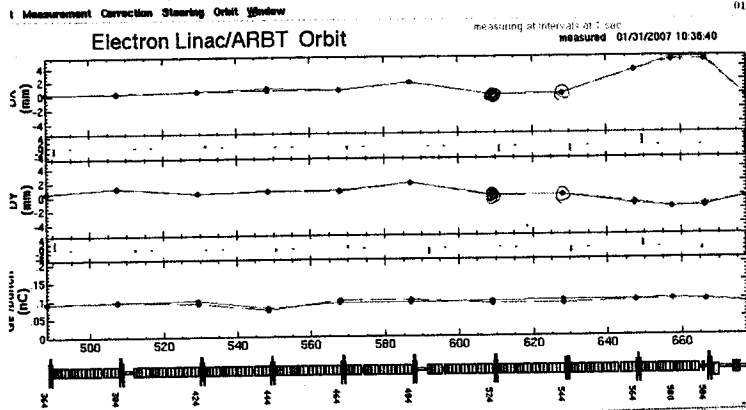


bump-height vs beam loss (Target IN/OUT, KEKB e+)



bump-height vs beam loss (Target IN/OUT, KEKB e-)





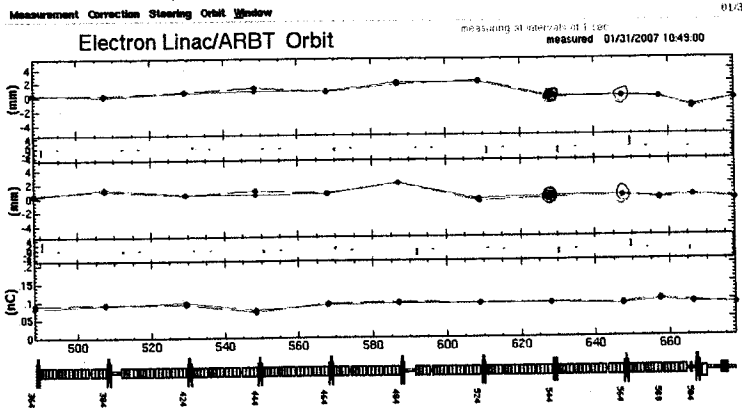
Name	Dac	Adc	Status
SX 41 3	-0.131	-0.132	
SX 43 1	0.284	0.288	
SX 43 3	0.001	0.000	
SX 45 1	0.001	0.000	
SX 45 3	0.001	0.002	
SX 47 1	-0.600	-0.601	
SX 47 3	0.001	0.000	

Name	Dac	Adc	Status
BY 38 4	-0.277	-0.273	
SY 41 3	0.270	0.273	
SY 43 1	0.001	0.000	
SY 43 3	0.001	0.005	
SY 45 1	0.370	0.369	
SY 45 3	0.001	0.005	
SY 47 1	0.204	0.205	
SY 47 3	0.001	0.002	

Name	Dac	Adc	Status
SX 51 3	-0.211	-0.215	
SX 53 1	0.001	0.000	
SX 53 3	0.001	-0.002	
SX 55 1	0.001	0.000	
SX 55 3	0.001	-0.005	
SX 57 1	0.001	0.000	
SX 57 3	0.001	-0.002	
BX 58 4	0.005	-0.020	

Name	Dac	Adc	Status
BY 48 4	-0.238	-0.237	
SY 51 3	0.001	0.000	
SY 53 1	0.001	0.000	
SY 53 3	0.001	0.000	
SY 55 1	0.001	0.000	
SY 55 3	0.001	0.002	
SY 57 1	0.001	0.000	
SY 57 3	0.001	0.005	
BY 58 4	-0.464	-0.430	

Name	Dac	Adc	Status
QF 52 4	9.553	9.526	
QD/D 54 4	0.000	0.015	
QF 54 4	0.000	0.015	
QD/D 56 4	0.000	0.015	
QF 56 4	0.000	0.015	
QD/D 58 4	10.945	10.913	
QF 58 4	11.341	11.309	



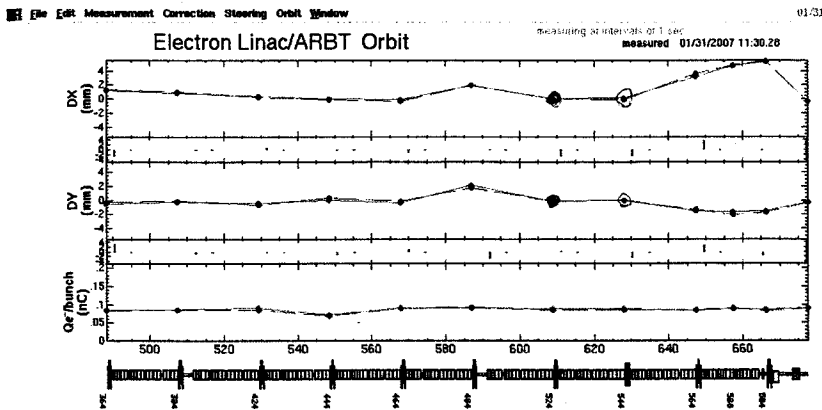
Name	Dac	Adc	Status
BX 48 4	-0.057	-0.059	
SX 51 3	0.001	0.000	
SX 53 1	-3.100	-3.096	
SX 53 3	0.001	-0.002	
SX 55 1	0.001	0.000	
SX 55 3	0.001	-0.005	
SX 57 1	0.001	-0.002	
SX 57 3	0.001	-0.002	
BX 58 4	0.005	-0.020	

Name	Dac	Adc	Status
BY 48 4	-0.267	-0.264	
SY 51 3	0.001	0.000	
SY 53 1	0.001	0.000	
SY 53 3	0.001	0.000	
SY 55 1	0.001	-0.002	
SY 55 3	0.001	0.002	
SY 57 1	0.001	0.000	
SY 57 3	0.001	0.002	
BY 58 4	-0.464	-0.439	

Name	Dac	Adc	Status
QF 52 4	9.553	9.521	
QF 52 4	9.557	9.525	
QD/D 54 4	9.377	9.375	
QF 54 4	9.700	9.668	
QD/D 56 4	0.000	0.015	
QF 56 4	0.000	0.015	
QD/D 58 4	10.945	10.913	
QF 58 4	11.341	11.309	



PTF e⁻ 測定 (2.5 GeV 0.1 nC)



Name	Dac	Adc	Status
SX 41 3	-0.168	-0.166	
SX 43 1	0.448	0.457	
SX 43 3	0.001	0.008	
SX 45 1	-0.038	-0.039	
SX 45 3	0.001	0.002	
SX 47 1	0.499	0.498	
SX 47 3	0.001	0.000	

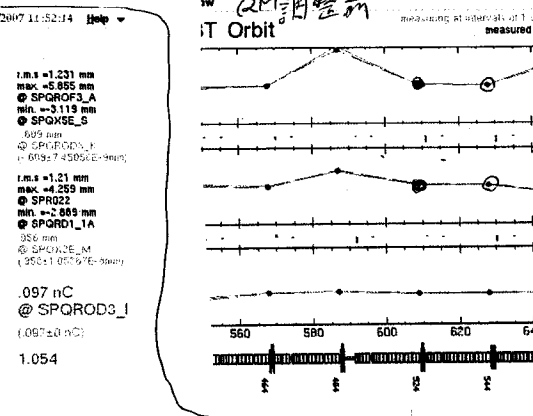
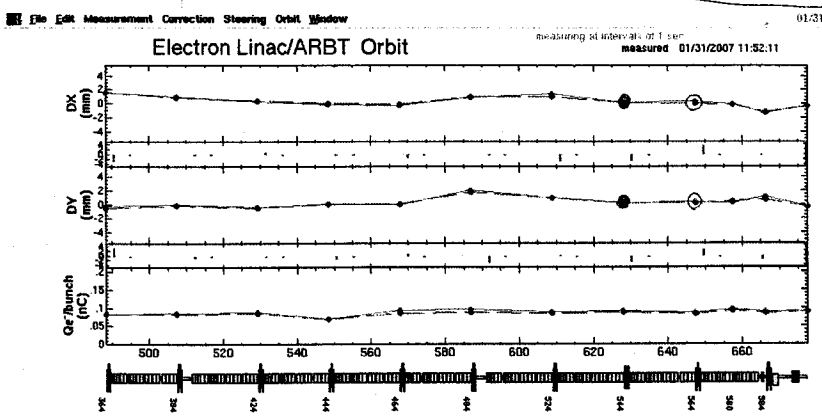
Name	Dac	Adc	Status
BX 48 4	-0.243	-0.244	
SX 51 3	0.001	0.000	
SX 53 1	0.001	0.002	
SX 53 3	0.001	-0.002	
SX 55 1	0.001	0.000	
SX 55 3	0.001	-0.005	
SX 57 1	0.001	-0.002	
SX 57 3	0.001	-0.002	
BX 58 4	1.900	1.914	



Q524 2調整
584 で小調整
して

しかし、実際には
56~58の orbit に
あまり違いはなから

Name	Dac
BY 38 4	-0.258
SY 41 3	-0.028
SY 43 1	0.001
SY 43 3	0.001
SY 45 1	-0.289
SY 45 3	0.001
SY 47 1	0.001
SY 47 3	0.001



Name	Dac	Adc	Status
SX 51 3	-0.077	-0.061	
SX 53 1	0.001	0.000	
SX 53 3	-2.600	-2.600	
SX 55 1	0.001	0.000	
SX 55 3	0.001	-0.002	
SX 57 1	0.001	0.000	
SX 57 3	0.001	-0.002	
BX 58 4	1.900	1.904	

Name	Dac
BY 48 4	-0.158
SY 51 3	-0.001
SY 53 1	-0.099
SY 53 3	0.001
SY 55 1	0.001
SY 55 3	0.001
SY 57 1	0.001
SY 57 3	0.001
BY 58 4	0.189