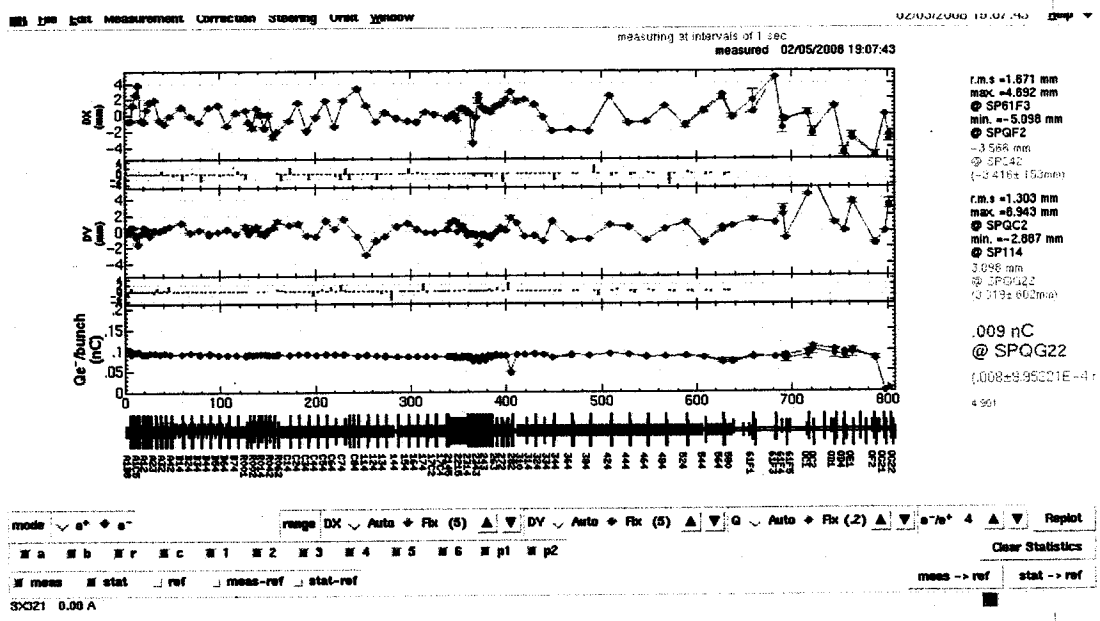
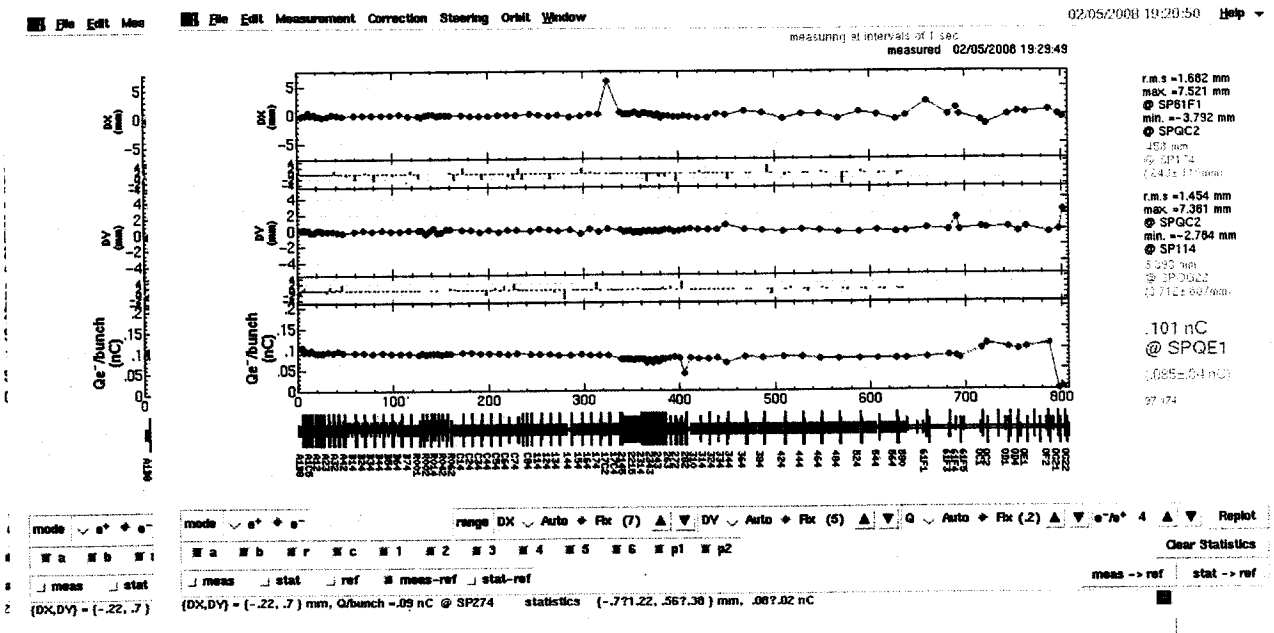
193

Ohnishi Optics #2

19:06



ST1	ST2	ST3	ST4	
0.41	0.383	0.260	0.0369	@ 21K5 0.077
0	0	0	0	0.085



volt	Q (21K5)
0.41	0.067
0.42	0.065
0.43	0.062
0.44	0.055
0.41	0.067
0.40	0.066
0.39	0.064
0.39	0.063
0.38	0.059

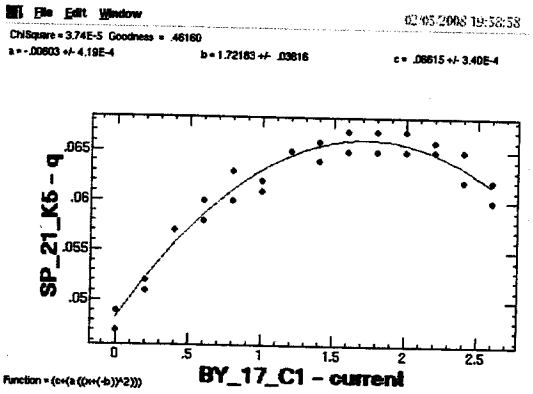
0.41

BY_17_C1 1.400 → 1.72

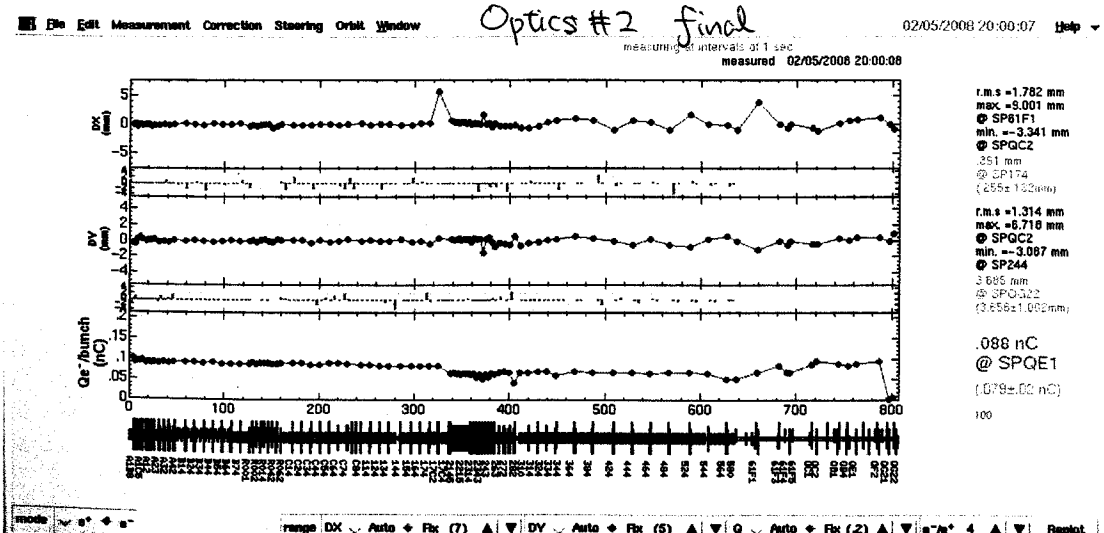
Q (21K5) = 0.066

No Target
No Bump = 0.085

77.6%



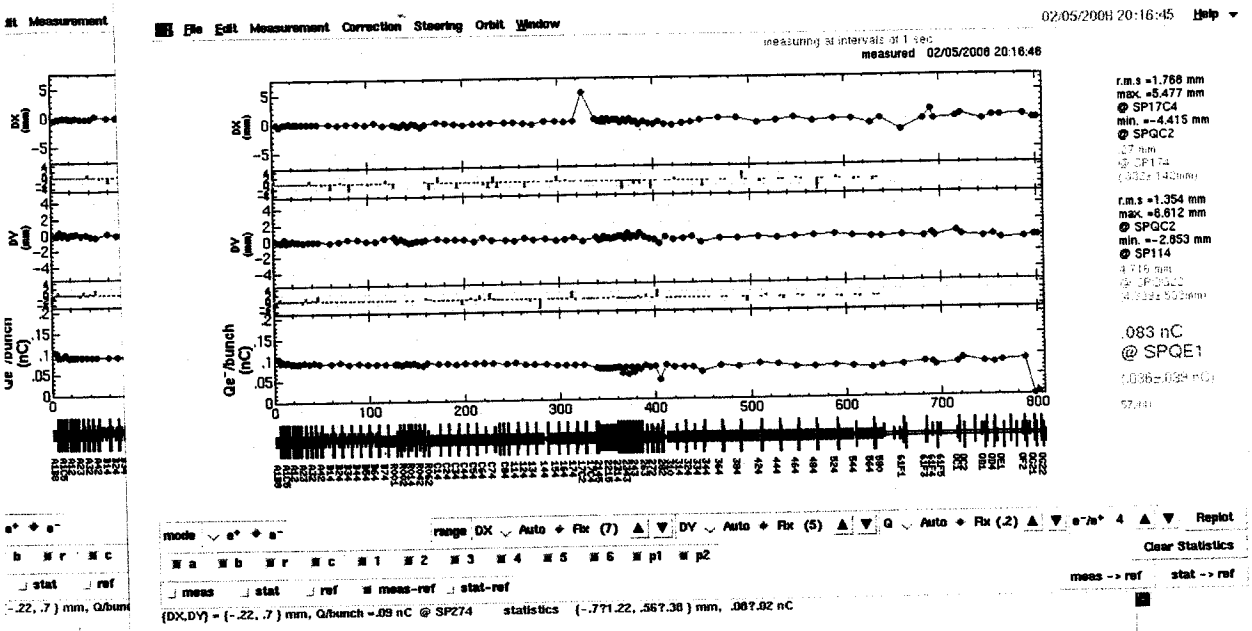
Optics #2 final



195

Ohnishi optics #3

ST1	ST2	ST3	ST4	Q(21kJ)
0.41	0.335	0.26	0.028	0.094



ST1	Q(21kJ)
0.41	0.071
0.42	0.069
0.43	0.061
0.44	0.051
0.41	0.070
0.40	0.071
0.39	0.070
0.38	0.068
0.37	0.065

0.40

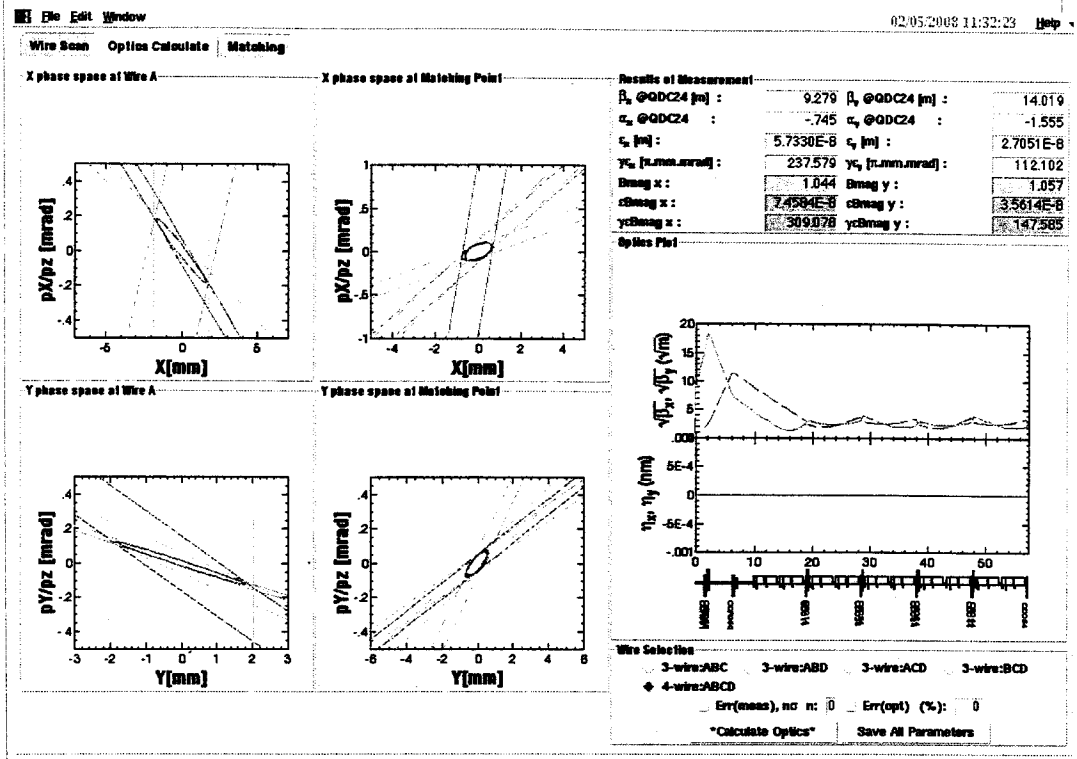
ST1	ST2	ST3	ST4
0.40	0.335	0.283	0.0293

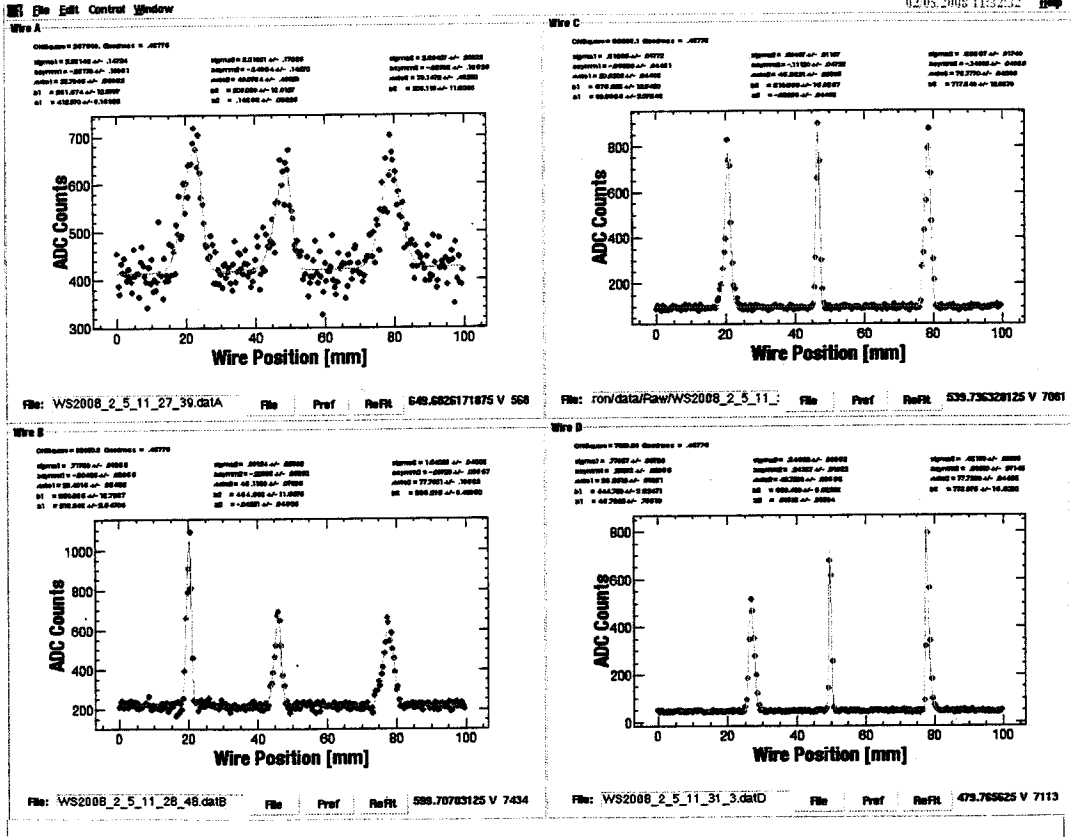
Q(21kJ)
= 0.071
No TG No Bump
= 0.085

83.5%

20:28

(補中に C-sector の Wire Scanner を測定した by 宮下)



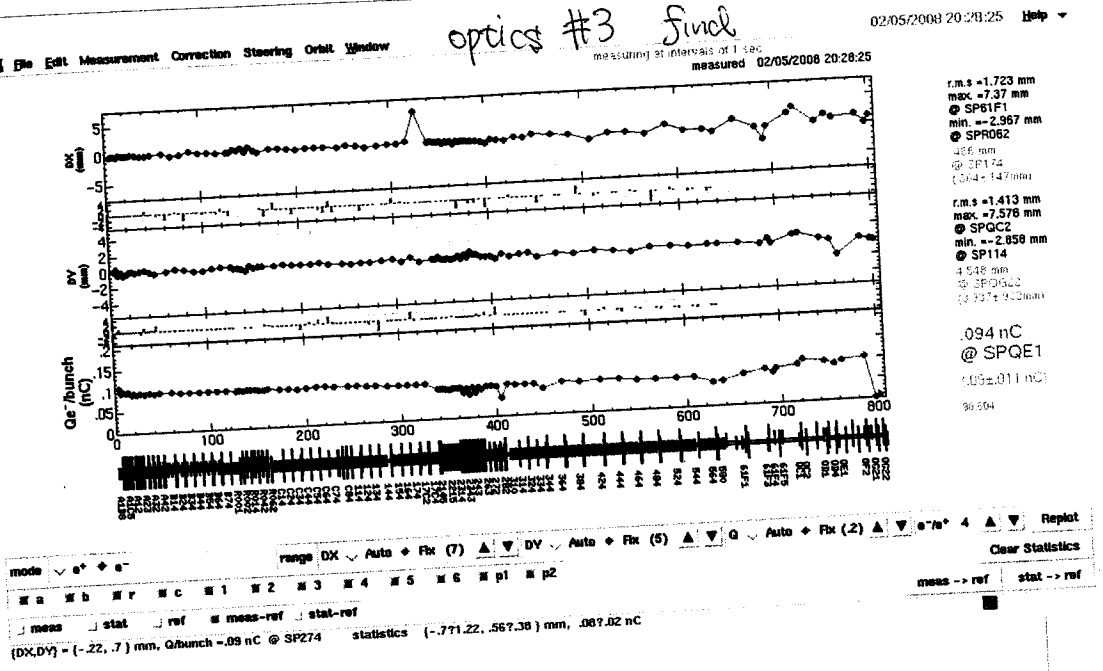


197

telnet
172.19.64.113
5024

単なるコマンド
5025

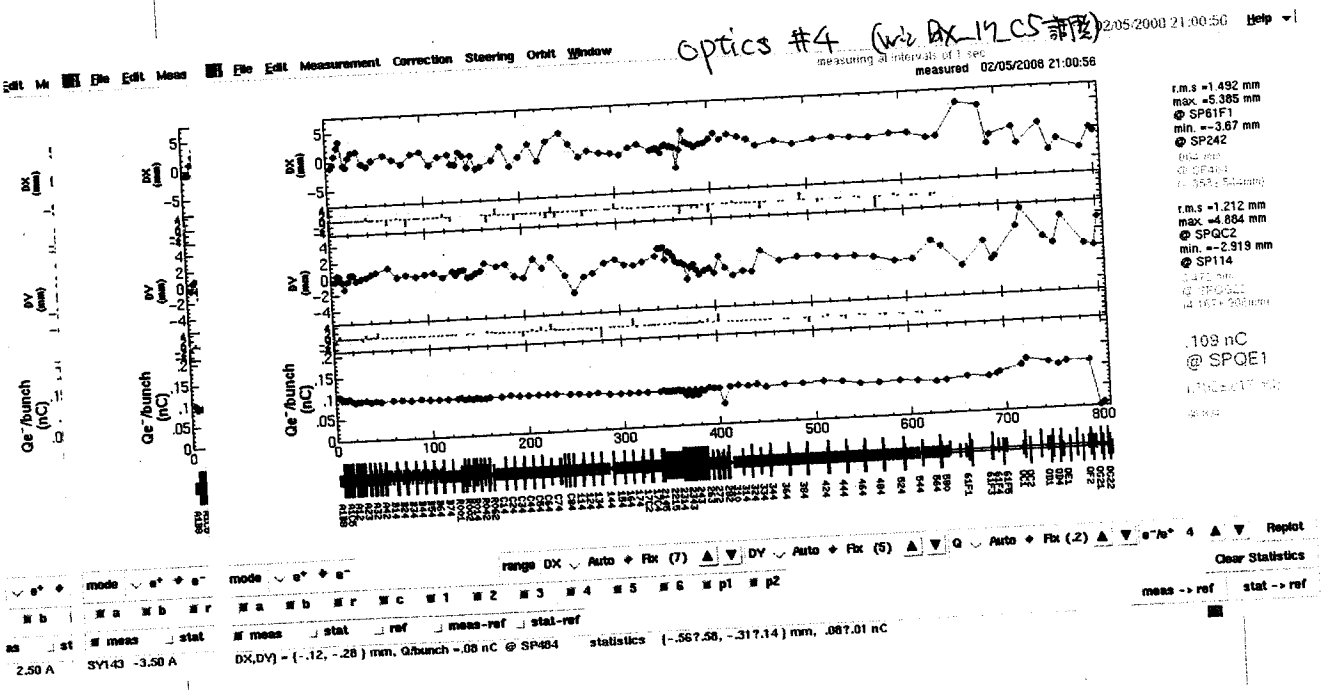
optics #3 final



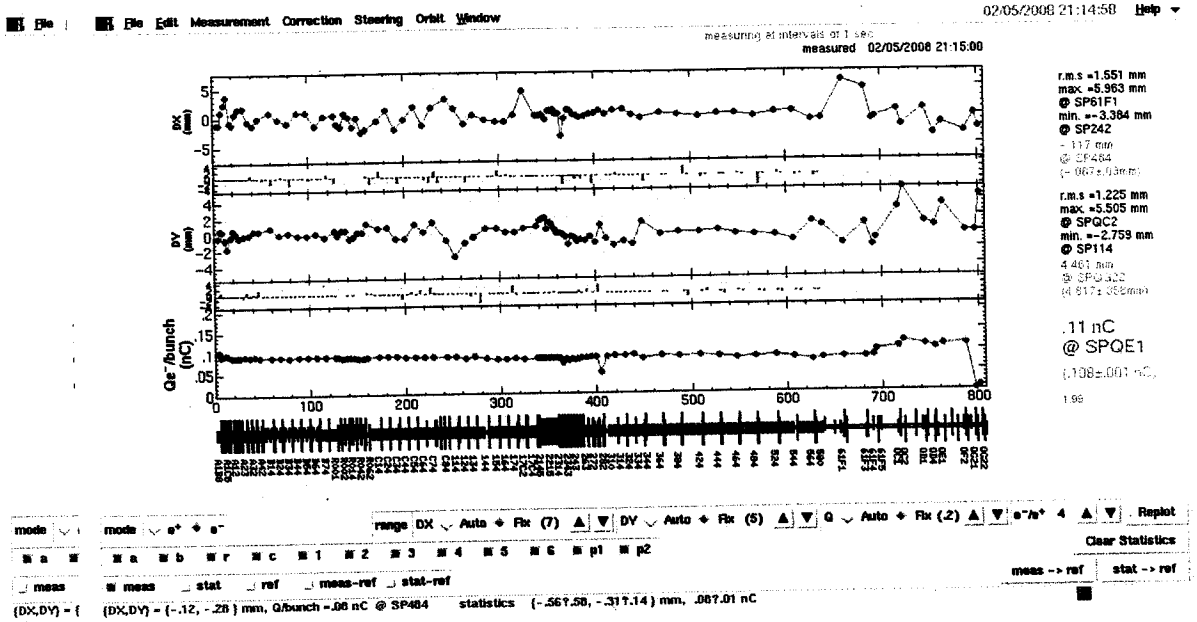
Optics #4 (#3 ⊕ Manual 92" target 前後をしぼった)

QD_12_4	4.400	→	7.678
QF "	4.691	→	8.000
QD_12_C4	9.221	→	12.420
QF "	9.109	→	12.109
QF_21_45	0	→	4.0
QD_21_K5	0	→	4.0

optics #4 (w/ BX_12_C5 調整)



ST1	ST2	ST3	ST4
0.30.	0.04	0.2	0.02



magnetパラメータ SAVE. "4608.all"

ST1	Q 21kS
0.35	0.060
0.36	0.070
0.37	0.076
0.38	0.079
0.39	0.081
0.40	0.081
0.41	0.080
0.42	0.078
0.43	0.073
0.44	0.067

Optics #4'

(2.3.4-sector ~a matched optics Ohnishi)

0.40

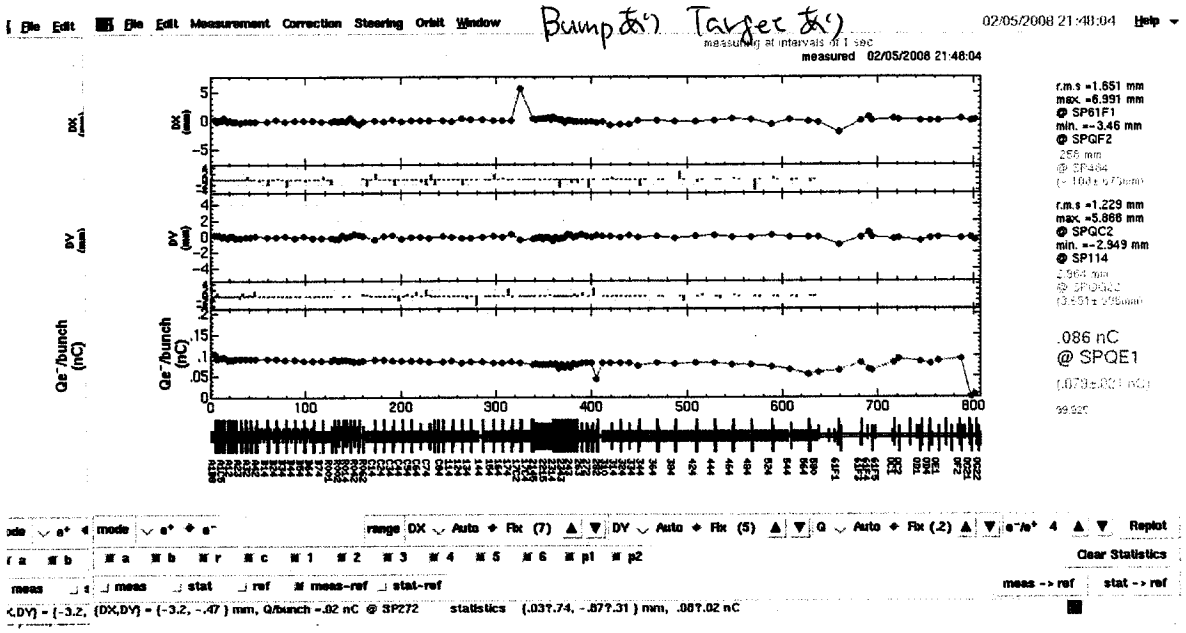
ST1	ST2	ST3	ST4	Q (21kS) [nC]
0.40	0.0533	0.2666	0.0266	
↓	↓	↓	↓	
0.42	0.065	0.28	0.024	

0.080 Tat cn

0.081 TGT out

0.084 No bump

通過率 95%

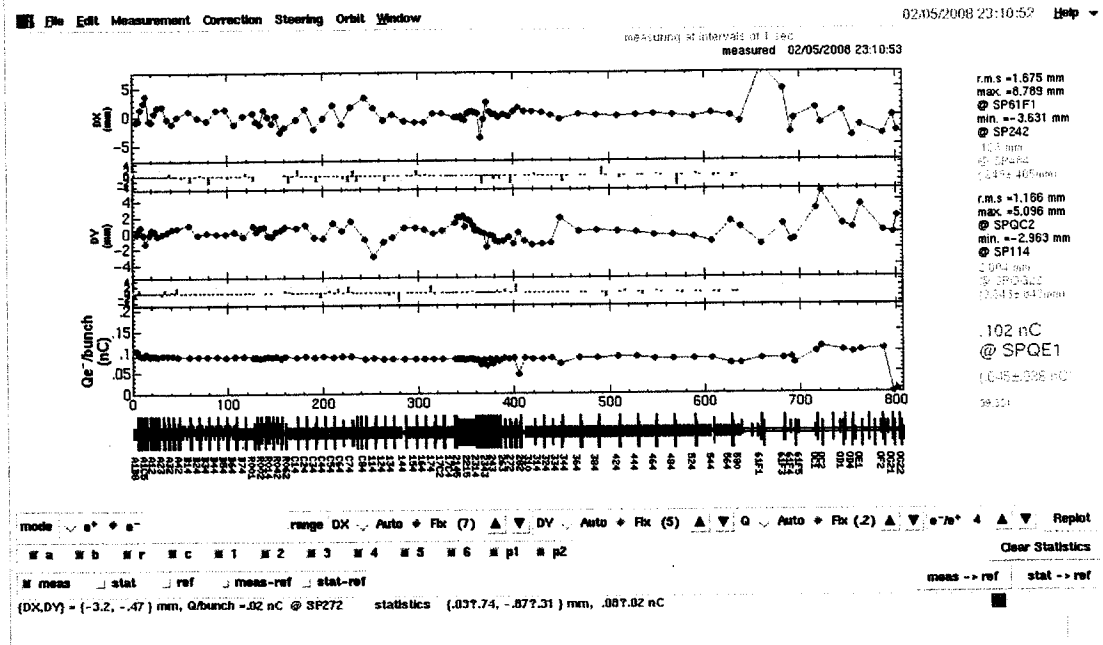


optics #4" (5-sector も matched optics)

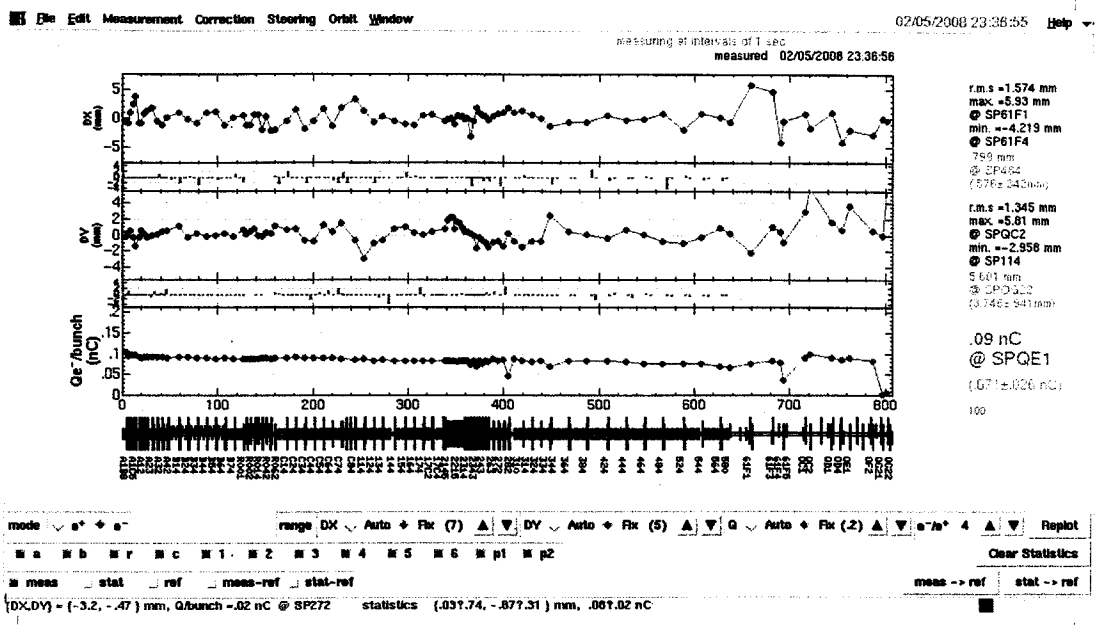
(AR入射)

22:58 QDF1264 と その3つ先の Q から外れて その3つ

optics #4 を セットしてみた. → 5 sector ゼロ軌道なし. → スポット形状も 良好

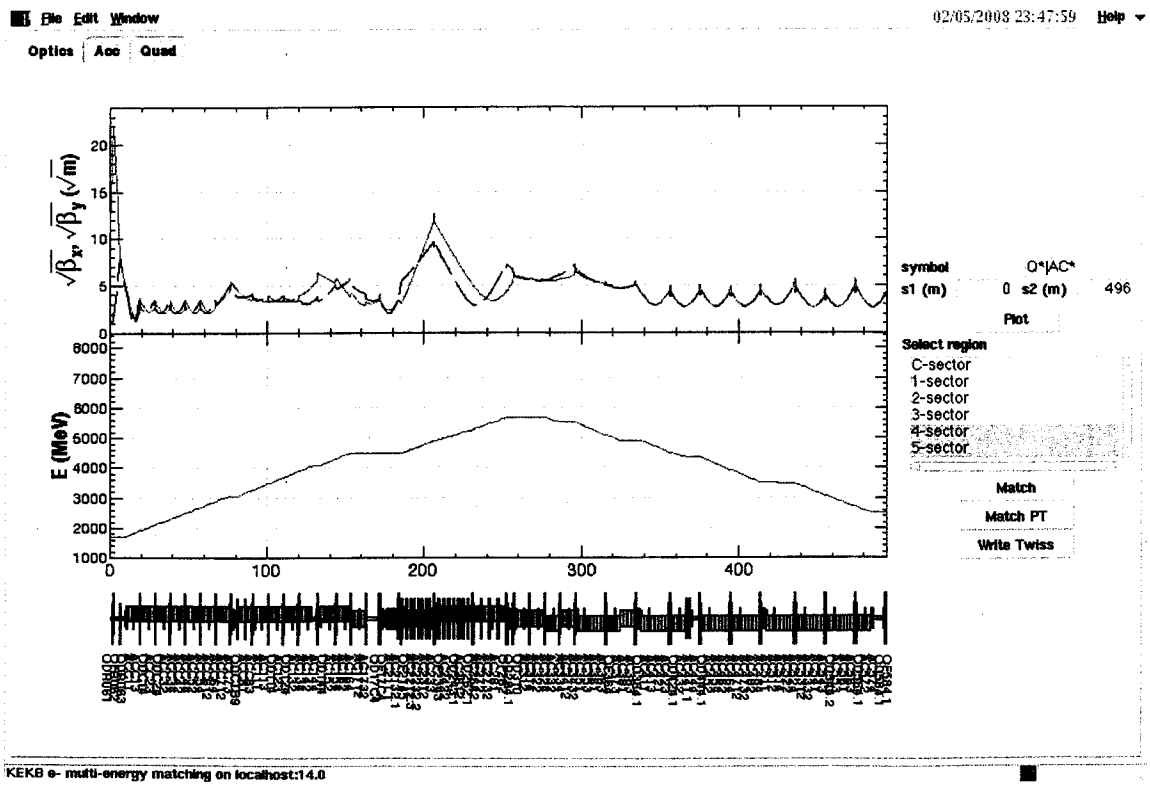


optics #4''' (Ohnishi's 修正 optics)



23-38 magnet parameter SAVE. data4611.all

#3



201

2008
2.6
9:53

本日のスタディー項目.

2. 1nCのビームを出して 2セクター ターゲットバンプの通過率を調べる(松)

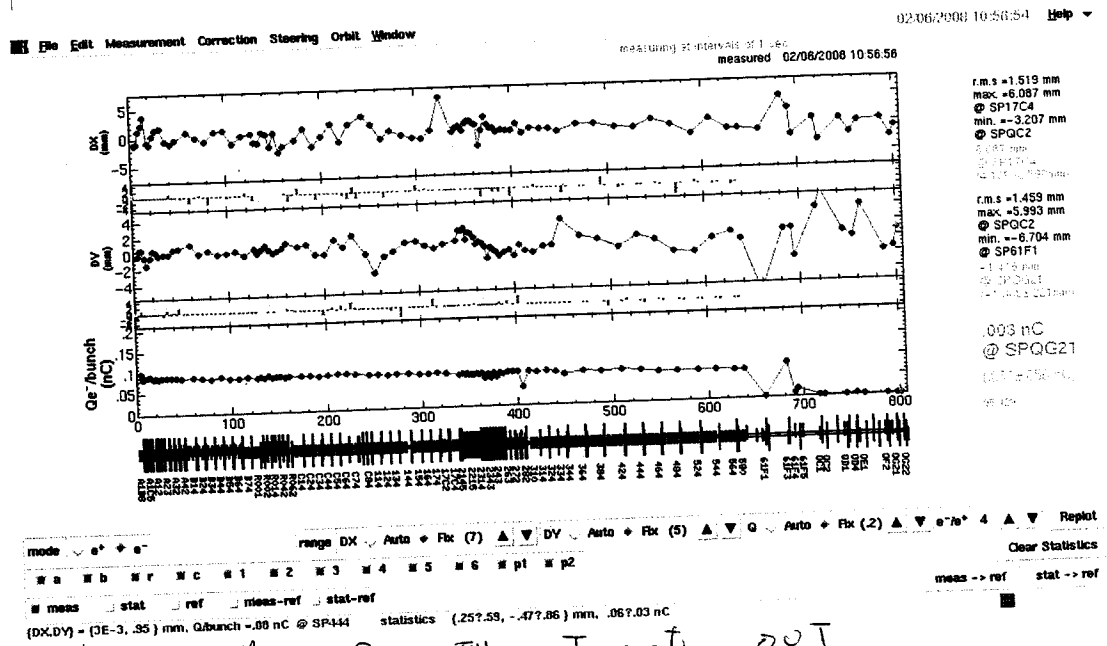
2.1 1nC, Cセクター ワイヤースキャナー(emittance 確認)

3. 0.1nC. 5セクター ワイヤースキャナー.

4. 0.1nC) 5セクター バンプの軌道調整.
   1 nC.)

0. 0.1nC DCモード・ターゲットバンプ.

(0.) 0.1nCビーム パルスST DCモード電立の使用状況の確認



BT: data 4611. all. Bumpあり. Target out.

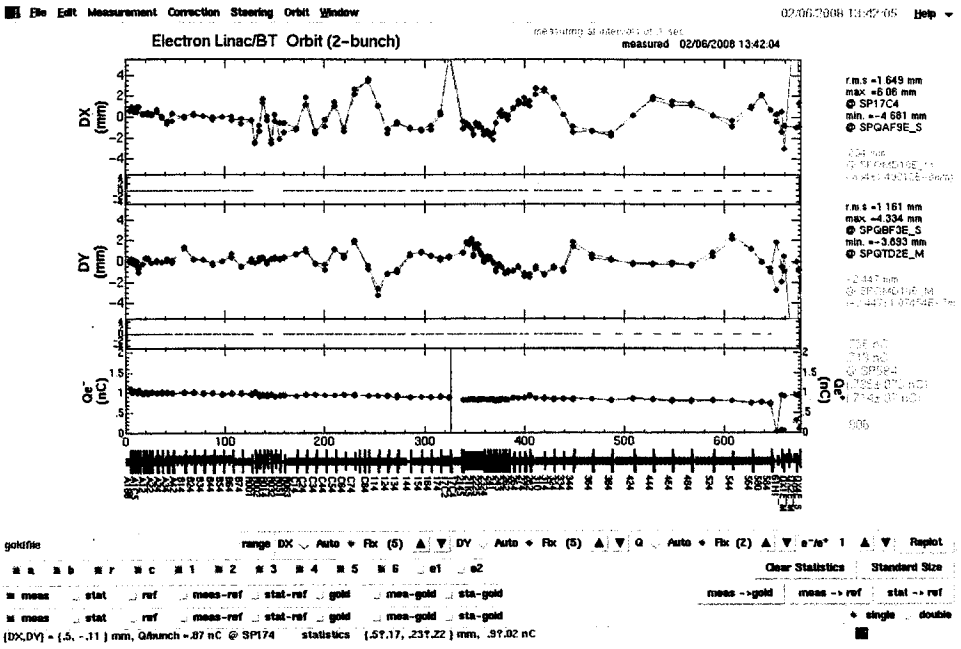
φ: 02052331. phase. all 0.1nC

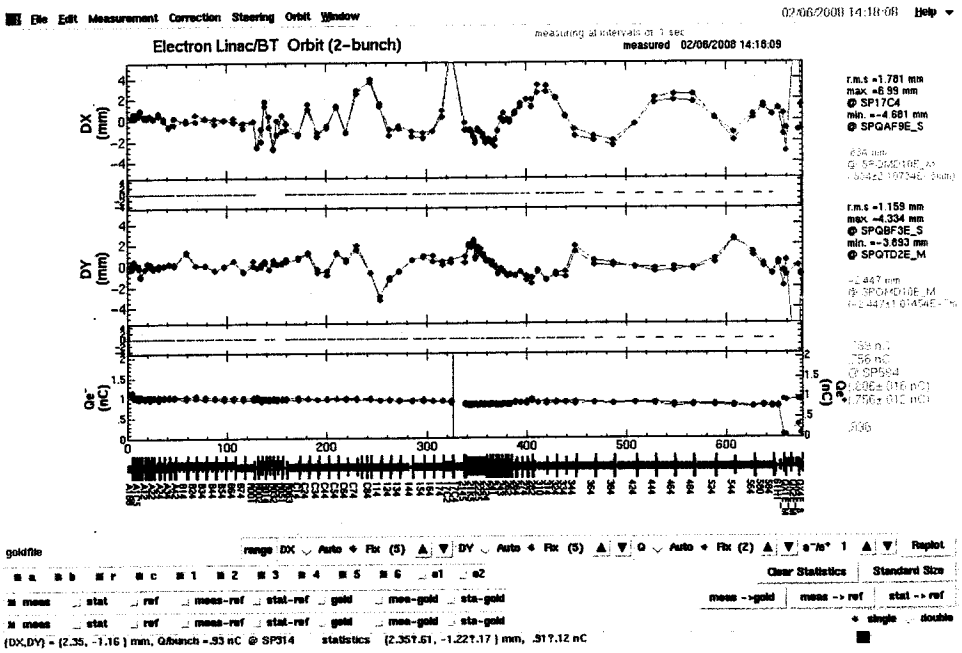
OK.

① 1nC ビームを出して確認する. → BPM読みおかしい?
Gunが fire していないようだ 11:16

12:30 PF Top-up mode → storage mode へ
Gun delay の調整のみ実施

KEKB e⁻ 8GeV





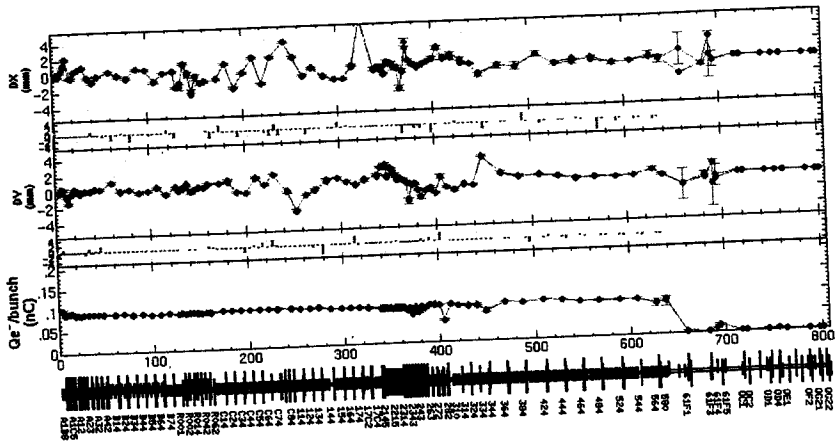
SB_A ~4 を調整.
Grid Delay-1 1.00 . Grid Delay-2 1.66

203

02/06/2008 19:47:48 Help

Edit Measurement Correction Steering Orbit Window

measuring at intervals of 1 sec
measured 02/06/2008 19:47:48



r.m.s =1.222 mm
max. =6.22 mm
@ SP17C4
min. =-2.721 mm
@ SP242

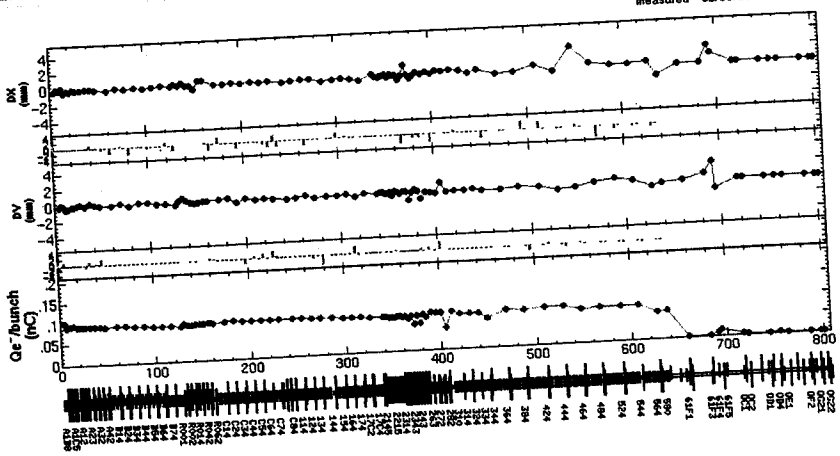
r.m.s =.904 mm
max. =2.84 mm
@ SP344
min. =-3.108 mm
@ SP114

.003 nC
@ SPQG22

02/06/2008 19:52:18

Edit Measurement Correction Steering Orbit Window

measuring at intervals of 1 sec
measured 02/06/2008 19:52:19

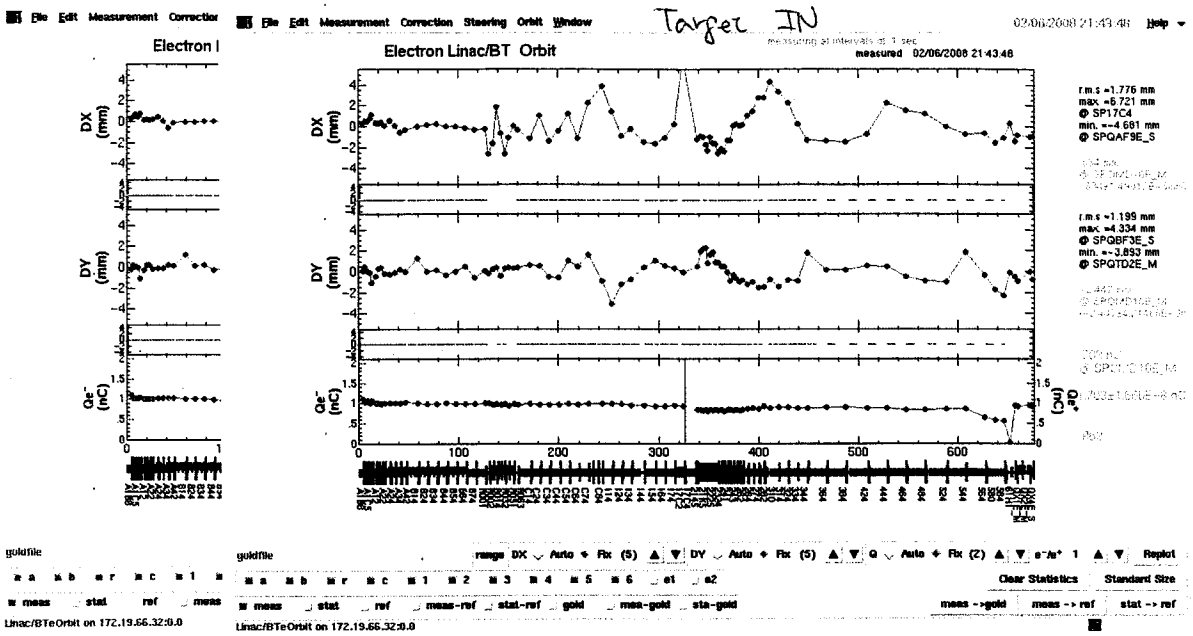


r.m.s =1.285 m
max. =6.331 m
@ SP17C4
min. =-2.743
@ SP242

r.m.s =.96 mm
max. =2.835 m
@ SP344
min. =-3.039
@ SP114

.003 nC
@ SPQG

パラメータ 080206-08 軌道補正済


File Edit Measurement Correction
Electron I
DX (mm)
DY (mm)
Qe⁻ (nC)
File Edit Measurement Correction Steering Orbit Window
Target IN
02/06/2008 21:43:46
Help
Electron Linac/BT Orbit
measured 02/06/2008 21:43:46
r.m.s =1.776 mm
max =6.721 mm
@ SP17C4
min. =-4.681 mm
@ SPQAF9E_S
r.m.s =1.199 mm
max =4.334 mm
@ SPQBF3E_S
min. =-3.893 mm
@ SPQTD2E_M
goldfile
meas
stat
ref
meas
Linac/BTeOrbit on 172.19.66.32:0.0
goldfile
range DX Auto Fix (5) DY Auto Fix (5) Q Auto Fix (2) e⁻/e⁺ 1 Replot
meas
stat
ref
meas-ref
stat-ref
gold
meas-gold
sta-gold
Clear Statistics
Standard Size
meas ->gold
meas -> ref
stat -> ref
Linac/BTeOrbit on 172.19.66.32:0.0