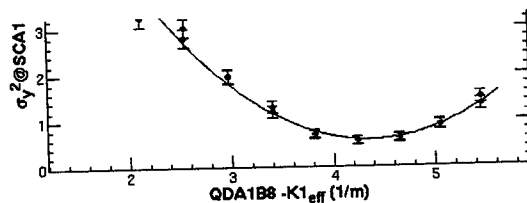
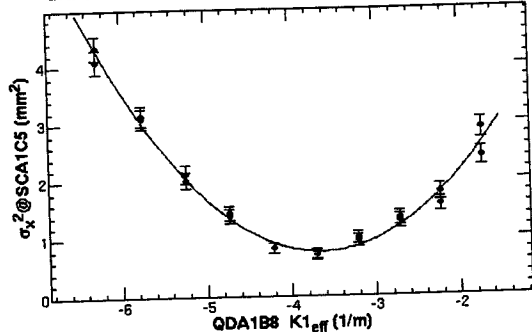
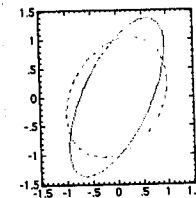
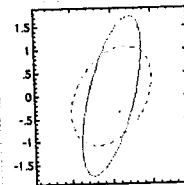


$\gamma_{\alpha} = 1.526E-5; \alpha_{\alpha} = -.812; \beta_{\alpha} = .448; Bmag = 1.491$
 emit20021127-2020-qd_al_b6-sc_al_c5 (re-fit)

Normint = 14.6989 MeV
 ENITX = $5.3068E-7 \pm 9.6063E-9$ m, gammaENITX = $1.526E-5 \pm 2.7633E-7$ m
 ALPHIX = $-.8121 \pm .0425$, BETRX = $.4476 \pm .0156$ m at START
 error of SIGX (estimated) = .0511 mm
 11/27/2002 20121:00

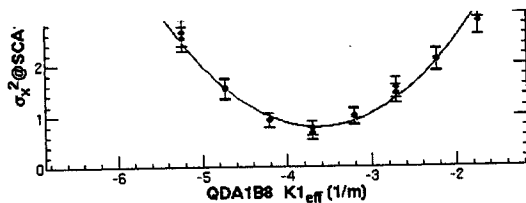
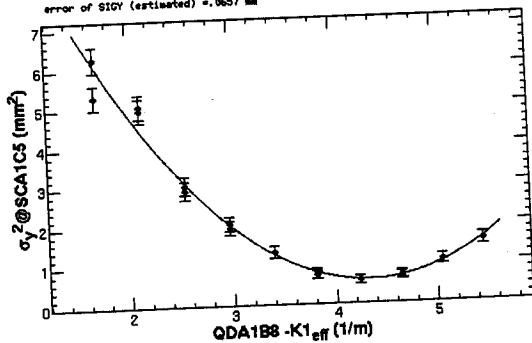


Condition
 Fitting Direction
 Horizontal
 Vertical
 Q : QDA1B8 SC : SCA1C5
 Fitting
 Read Data & Fit :
 Raw Saved
 Redo fit with current data
 Redo Fit

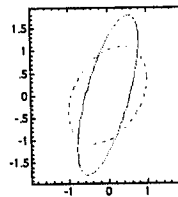
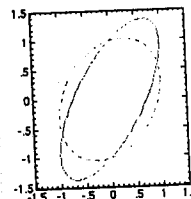


$\gamma_{\alpha} = 3.383E-5; \alpha_{\alpha} = -.942; \beta_{\alpha} = .758; Bmag = 1.201$
 emit20021127-2055-qd_al_b6-sc_al_c5 (re-fit)

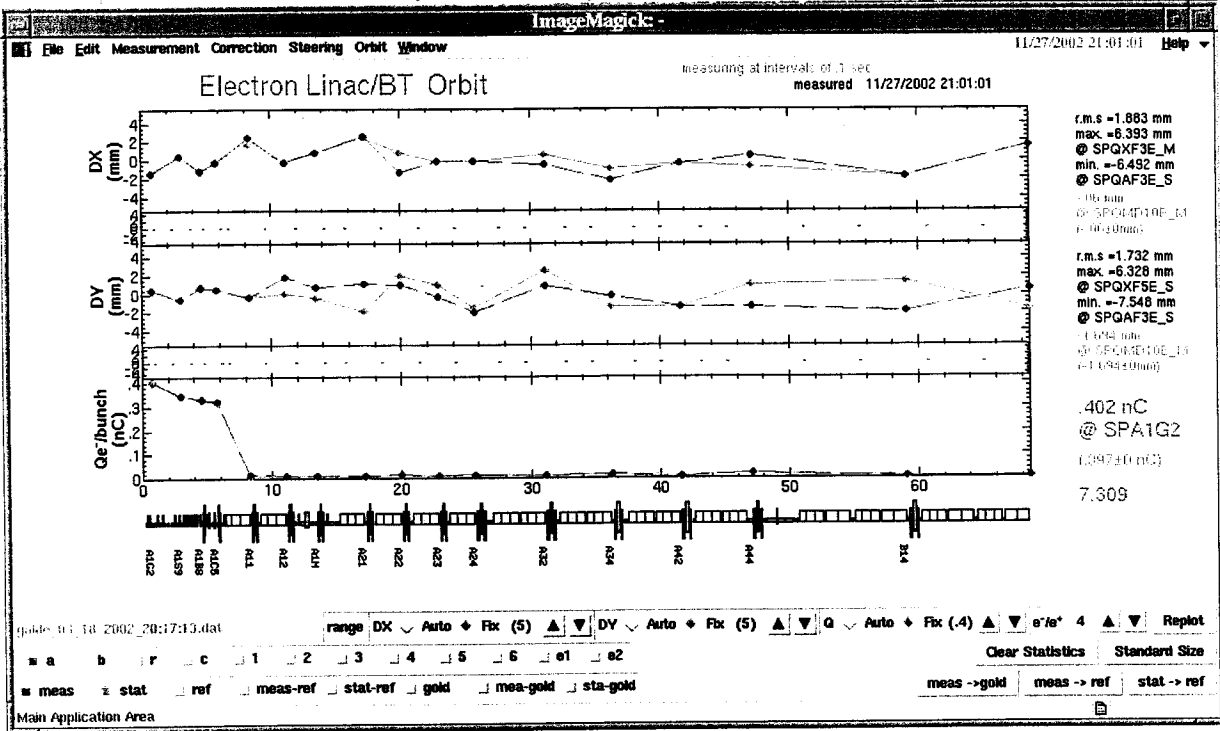
Normint = 14.6989 MeV
 ENITX = $1.1792E-6 \pm 3.6647E-8$ m, gammaENITX = $3.3826E-5 \pm 1.0541E-6$ m
 ALPHIX = $-.9421 \pm .0613$, BETRX = $.7877 \pm .0414$ m at START
 error of SIGX (estimated) = .0657 mm
 11/27/2002 20196:38



Condition
 Fitting Direction
 Horizontal
 Vertical
 Q : QDA1B8 SC : SCA1C5
 Fitting
 Read Data & Fit :
 Raw Saved
 Redo fit with current data
 Redo Fit



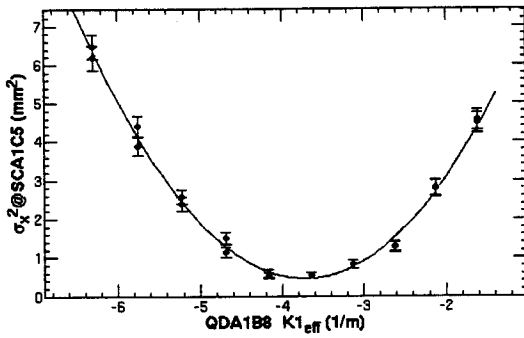
Gun Bias 0588 176.2V 0.4nC



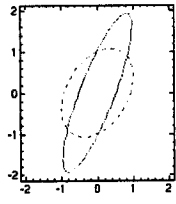
File Edit History Window
main fitting matching

$\gamma_{rel} = 1.550E-5; \alpha_{rel} = -1.578; \beta_{rel} = .752; Bmag = 1.782$
emitt.2002.1127-2.125-qd_a1_b8-sc_a1_c5 (re-fit)

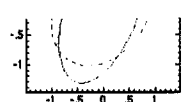
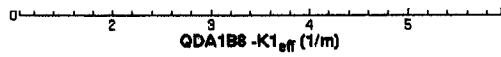
Momentum = 14.6989 MeV
EMITX = 5.3896E-7 ± 1.9045E-8 m, gamma*EMITX = 1.3503E-5 ± 5.4784E-7 m
ALPHAX = -1.5784 ± 0.0896, BETAX = .7523 ± 0.0362 m at START
error of SIGX (estimated) = 0.6506 mm
11/27/2002 21:25:14



Condition
Fitting Direction
Horizontal
Vertical
Q : QDA1B8 SC : SCA1C5
Fitting
Read Data & Fit :
Raw Saved
Redo fit with current data
Redo Fit



Hard Copy



Handwritten signature or initials.

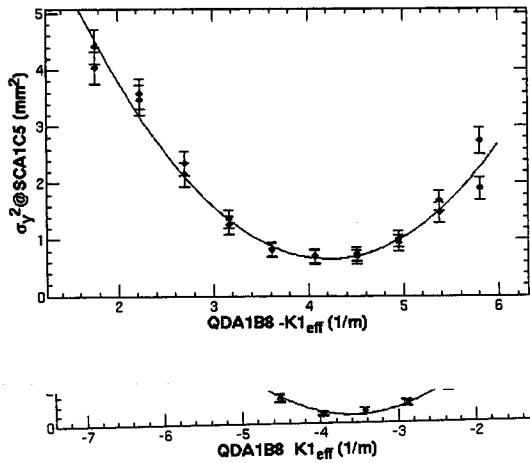
File Edit History Window

11/27/2002 21:44:29 Help

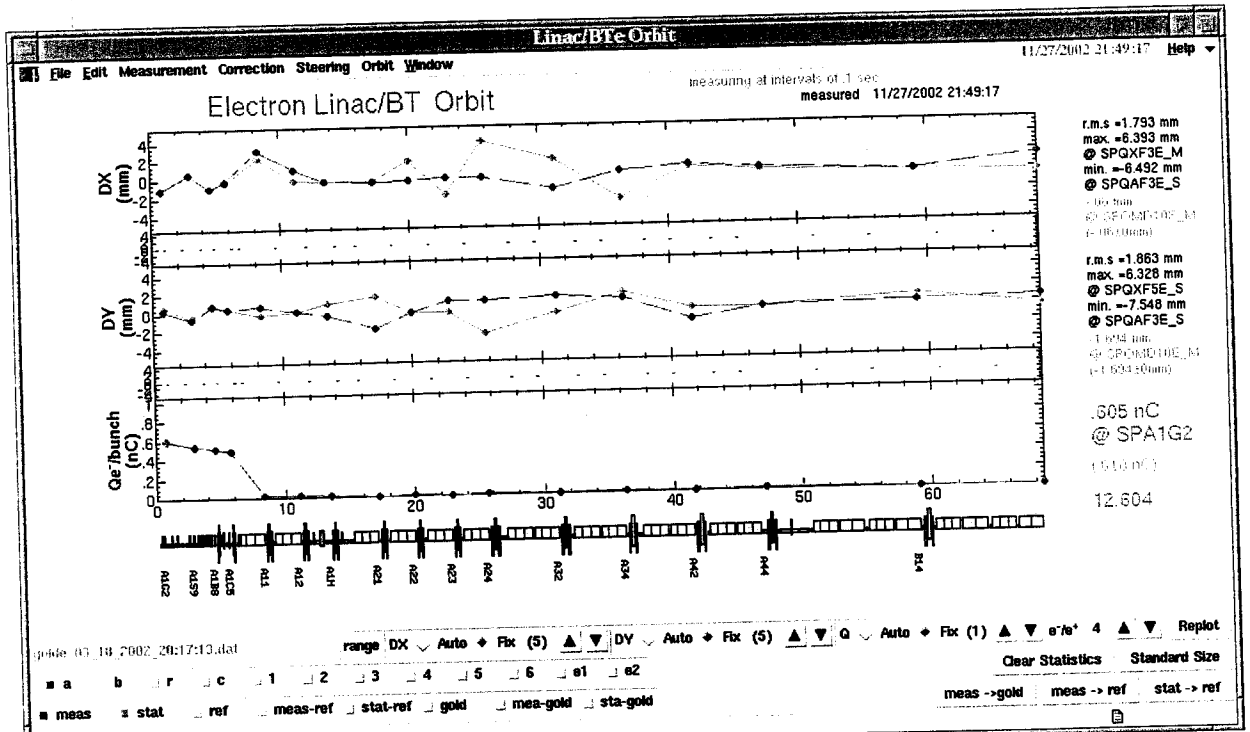
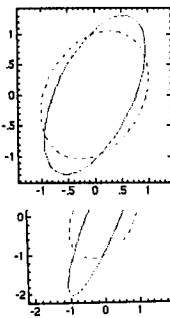
main fitting matching

$\gamma_e = 3.025E-5$; $\alpha_x = -.711$; $\beta_y = .702$; $\text{Bmag} = 1.113$
 emitt20021127-2143-qd_al_b8-sc_al_c5 (re-fit)

Momentum = 14.9887 MeV
 EMITT = $1.0313E-6 \pm 2.9263E-9$ m, gammaEMITT = $3.025E-5 \pm 8.5893E-7$ m
 ALPHA = $-.7109 \pm .0547$, BETA = $.7016 \pm .0388$ m at START
 error of SIGY (estimated) = .0716 mm 11/27/2002 21:44:25



Condition
 Fitting Direction
 Horizontal
 Vertical
 Fitting
 Q : QDA1B8 SC : SCAT15
 Read Data & Fit :
 Raw Saved
 Redo fit with current data
 Redo Fit



Bias

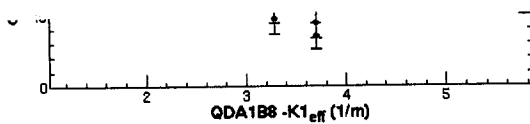
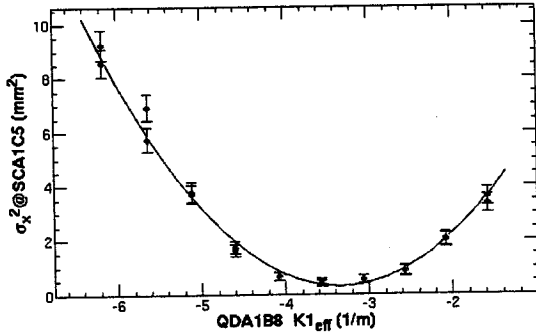
0400

196 bit
 (DAC)

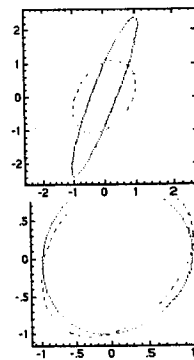
126.9V
 (ADC)

$\gamma_0 = 1.375E-5$; $\alpha_x = -2.348$; $\beta_x = .929$; $Bmag = 2.557$
 emitt20021127-2209-qd_al_b8-sc_al_c5

Noelectron = 14.9887 NeV
 ENITX = 4.6869E-7 ± 3.6958E-8 m, gammaENITX = 1.3749E-5 ± 1.004E-6 m
 ALPHX = -2.3485 ± .2403, BETRX = .9294 ± .0889 m at STRBT
 error of SIGX (estimated) = .0916 mm 11/27/2002 22:10:20



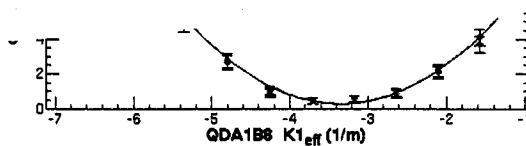
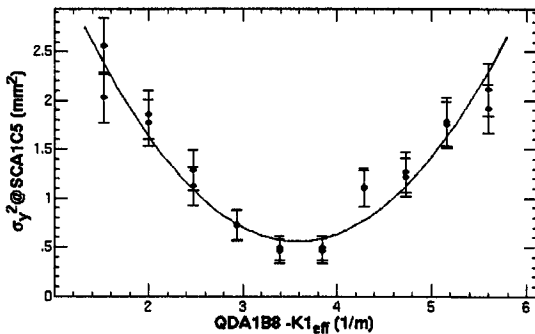
Condition
 Fitting Direction
 ♦ Horizontal
 Vertical
 Q : QDA1B8 SC : SCA1C5
 Fitting
 Read Data & Fit :
 Raw Saved
 Redo fit with current data
 Redo Fit



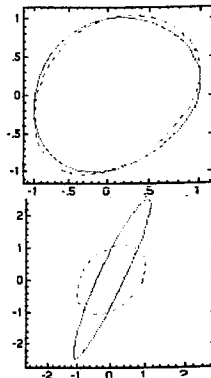
← 参考

$\gamma_0 = 2.291E-5$; $\alpha_y = -.170$; $\beta_y = .785$; $Bmag = 1.009$
 emitt20021127-2228-qd_al_b8-sc_al_c5 (re-fit)

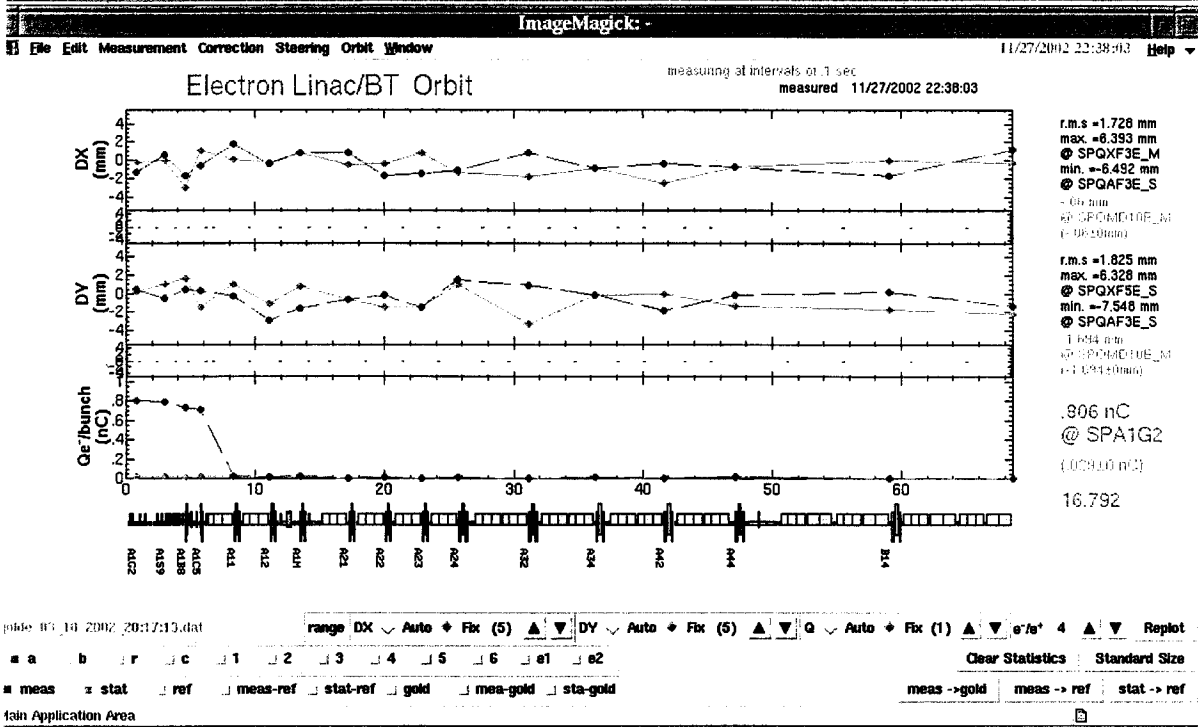
Noelectron = 14.9887 NeV
 ENITY = 7.0119E-7 ± 2.9069E-8 m, gammaENITY = 2.2914E-5 ± 0.5264E-7 m
 ALPHY = -.1705 ± .0544, BETRY = .7851 ± .0552 m at STRBT
 error of SIGY (estimated) = .091 mm 11/27/2002 22:12:24



Condition
 Fitting Direction
 Horizontal
 ♦ Vertical
 Q : QDA1B8 SC : SCA1C5
 Fitting
 Read Data & Fit :
 Raw Saved
 Redo fit with current data
 Redo Fit



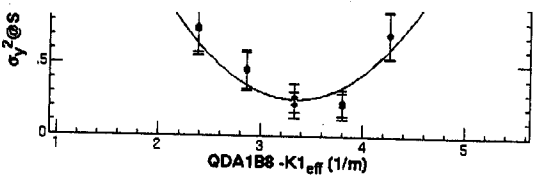
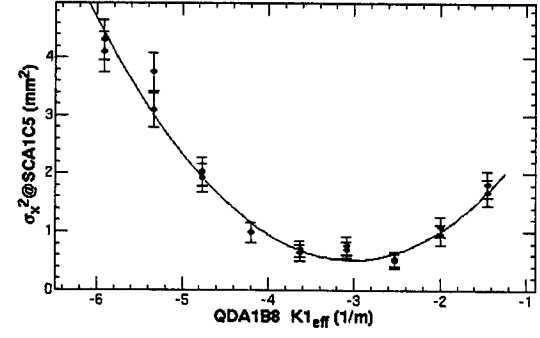
← 参考



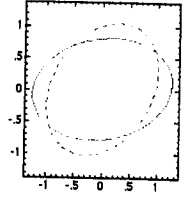
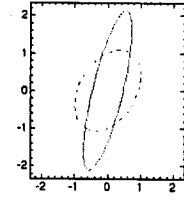
Bias DAC 0235
69.5V (ADC)

$\gamma_0 = 1.190E-5$; $\alpha_0 = -1.175$; $\beta_0 = .426$; $Bmag = 2.086$
emit20021127-2258-qd_al_b8-sc_al_c5 (re-fit)

Momentum = 14.9887 MeV
EMITX = 4.0254E-7 ± 1.6817E-8 m, gammaEMITX = 1.1899E-5 ± 4.9327E-7 m
RLPMX = -1.1749 ± .107, BETRX = .4262 ± .0324 m at START
error of SIGX (estimated) = .0856 mm 11/27/2002 22:09:11



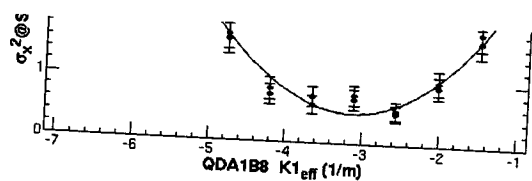
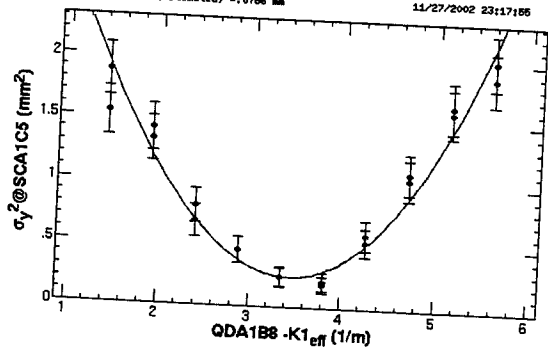
Condition
Fitting Direction
Horizontal
Vertical
Q : QDA1B8 SC: SCA1C5
Fitting
Read Data & Fit:
Raw Saved
Redo fit with current data
Redo Fit



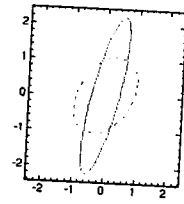
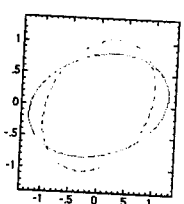
Handwritten signature or initials.

$\gamma_0 = 1.5581 \times 10^{-5}$; $\alpha_x = -0.228$; $\beta_x = 1.220$; $\beta_{mag} = 1.120$
 emit20021127-2316-qd_al_b8-sc_al_c5 (re-fit)

Momentum = 14.6989 MeV
 EMITY = $5.4170 \times 10^{-7} \pm 3.0309 \times 10^{-8}$ m, gammaEMITY = $1.5594 \times 10^{-5} \pm 8.7105 \times 10^{-7}$ m
 RLMRY = -0.228 ± 0.0587 , BETRY = 1.2196 ± 0.1007 m at START
 error of SICV (estimated) = 0.0786 mm
 11/27/2002 23:17:05



Condition
 Fitting Direction
 Horizontal
 Vertical
 Q : QDA1B8 SC : SCA1C5
 Fitting
 Read Data & Fit :
 Raw Saved
 Redo fit with current data
 Redo Fit



< 卷

Gun grid pulser DAC 000 → 680 300V → 370V
 ↓

Electron Linac/BT Orbit

measured 11/27/2002 23:23:16

r.m.s = 1.835 mm
 max = 6.333 mm
 SPQXF3E_M
 min = -6.492 mm
 SPQAF3E_S

r.m.s = 1.811 mm
 max = 6.328 mm
 SPQXF3E_S
 min = -7.540 mm
 SPQAF3E_S

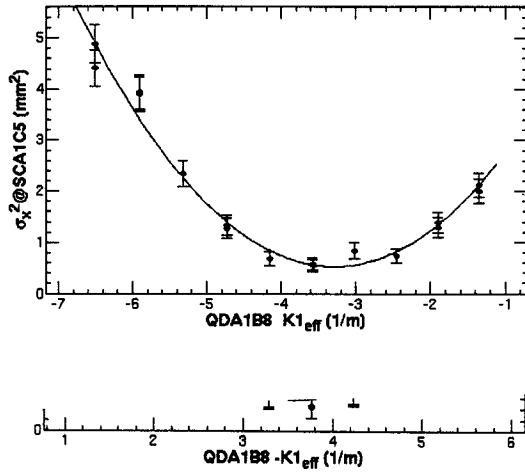
1.995 nC
 @ SPA1C2

10.138

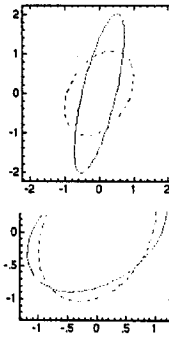
range DX Auto • Fix (S) ▲ ▼ DV Auto • Fix (S) ▲ ▼ G Auto • Fix (1) ▲ ▼ e/e' 4 ▲ ▼ Replot
 Clear Statistics Standard Size
 meas * stat ref meas-ref stat-ref gold meas-gold sta-gold
 Hard Copy meas → gold meas → ref stat → ref

$\gamma_e = 1.155E-5; \alpha_e = -1.053; \beta_e = .416; Bmag = 1.922$
 emitt20021127-2345-qd_ai_b8-sc_ai_c5 (re-fit)

Momentum = 14.6989 MeV
 EH1TX = $4.0137E-7 \pm 1.5532E-8$ m, gammaEH1TX = $1.1545E-5 \pm 4.4736E-7$ m
 RLPHX = $-1.0532 \pm .0905$, BETRX = $.4156 \pm .027$ m at STARR
 error of SIGX (estimated) = .084 mm 11/27/2002 23:46:10

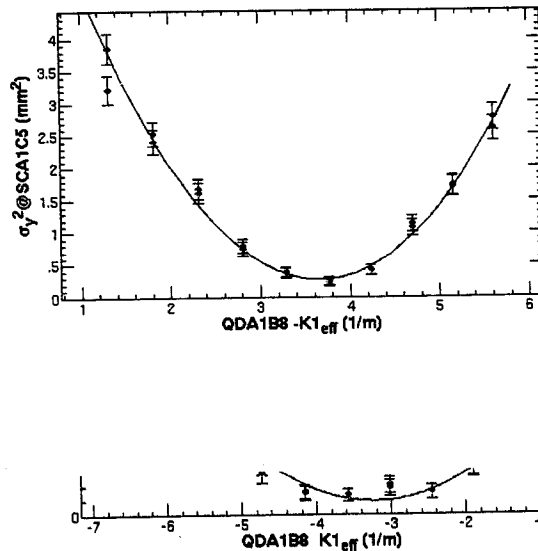


Condition
 Fitting Direction
 Horizontal
 Vertical
 Q : QDA1B8 SC : SCA1C5
 Fitting
 Read Data & Fit :
 Raw Saved
 Redo fit with current data
 Redo Fit

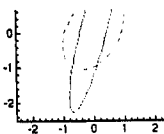
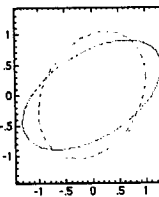


$\gamma_e = 2.0531E-5; \alpha_e = -.592; \beta_e = 1.325; Bmag = 1.145$
 emitt20021128-0004-qd_ai_b8-sc_ai_c5 (re-fit)

Momentum = 14.6989 MeV
 EH1TY = $7.1348E-7 \pm 3.1657E-8$ m, gammaEH1TY = $2.0529E-5 \pm 9.1043E-7$ m
 RLPHY = $-.5919 \pm .0528$, BETRY = $1.3253 \pm .0801$ m at STARR
 error of SIGY (estimated) = .0601 mm 11/28/2002 00:04:33

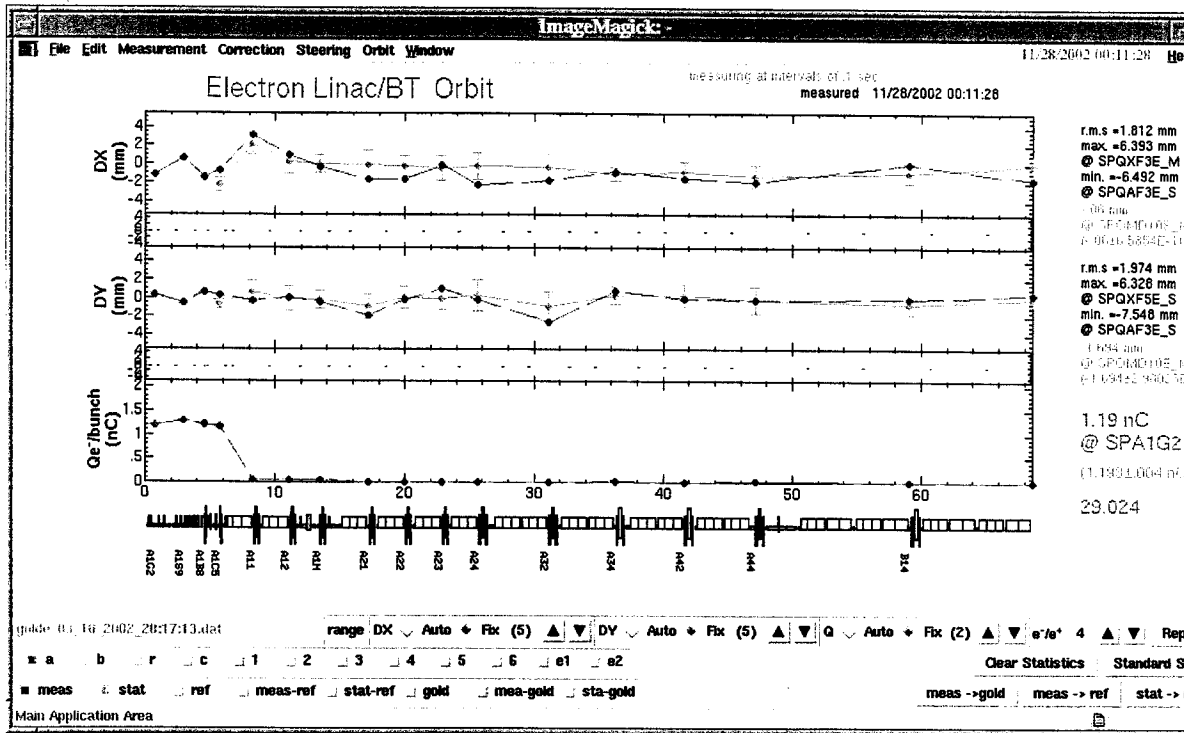


Condition
 Fitting Direction
 Horizontal
 Vertical
 Q : QDA1B8 SC : SCA1C5
 Fitting
 Read Data & Fit :
 Raw Saved
 Redo fit with current data
 Redo Fit



Grid Pulser C00

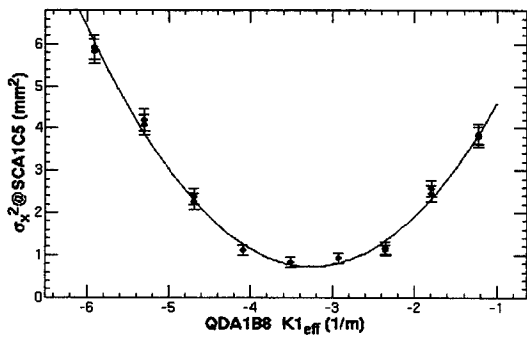
500V



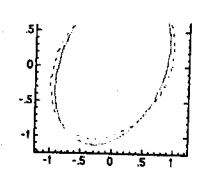
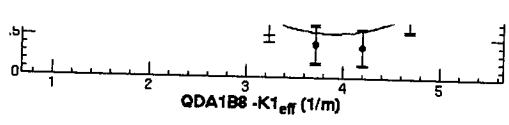
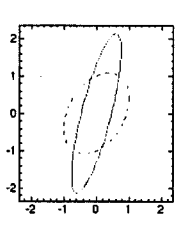
$\gamma_e = 1.809E-5; \alpha_e = -1.264; \beta_e = .458; \text{Bmag} = 2.110$

emitt20021128-0028-qd_a1_b8-sc_a1_c5 (re-fit)

Momentum = 14.6989 MeV
EMITT = 5.2895E-7 ± 1.6178E-9 m, gammaEMITT = 1.8092E-5 ± 4.6535E-7 m
ALPMK = -1.2642 ± .0678, BETRK = .4579 ± .0192 m at STRET
error of SIGK (estimated) = .0614 mm 11/28/2002 00:28:31

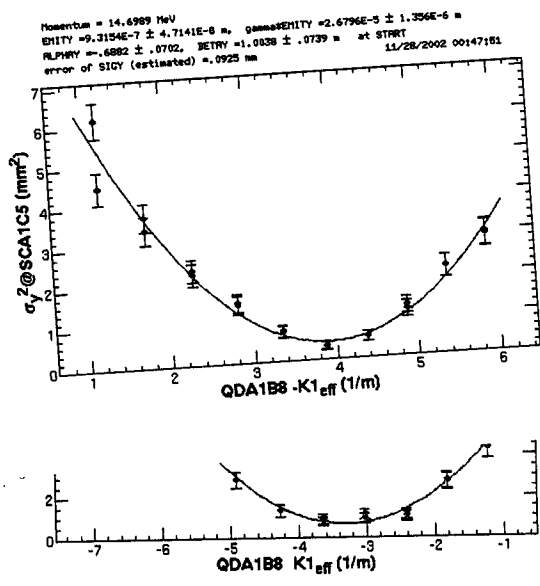


Condition
Fitting Direction
Horizontal
Vertical
Q : QDA1B8 SC : SCA1C5
Fitting
Read Data & Fit :
Raw Saved
Redo fit with current data
Redo Fit

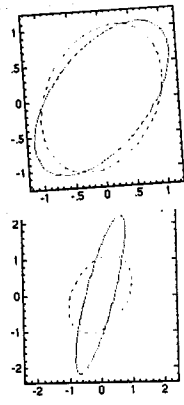


Handwritten signature or initials.

$\gamma_e = 2.6804 \times 10^{-5}$; $\alpha_y = -688$; $\beta_y = 1.004$; $B_{mag} = 1.067$
 cmit20021128-0047-qd_a1_b8-sc_a1_c5 (re-fit)

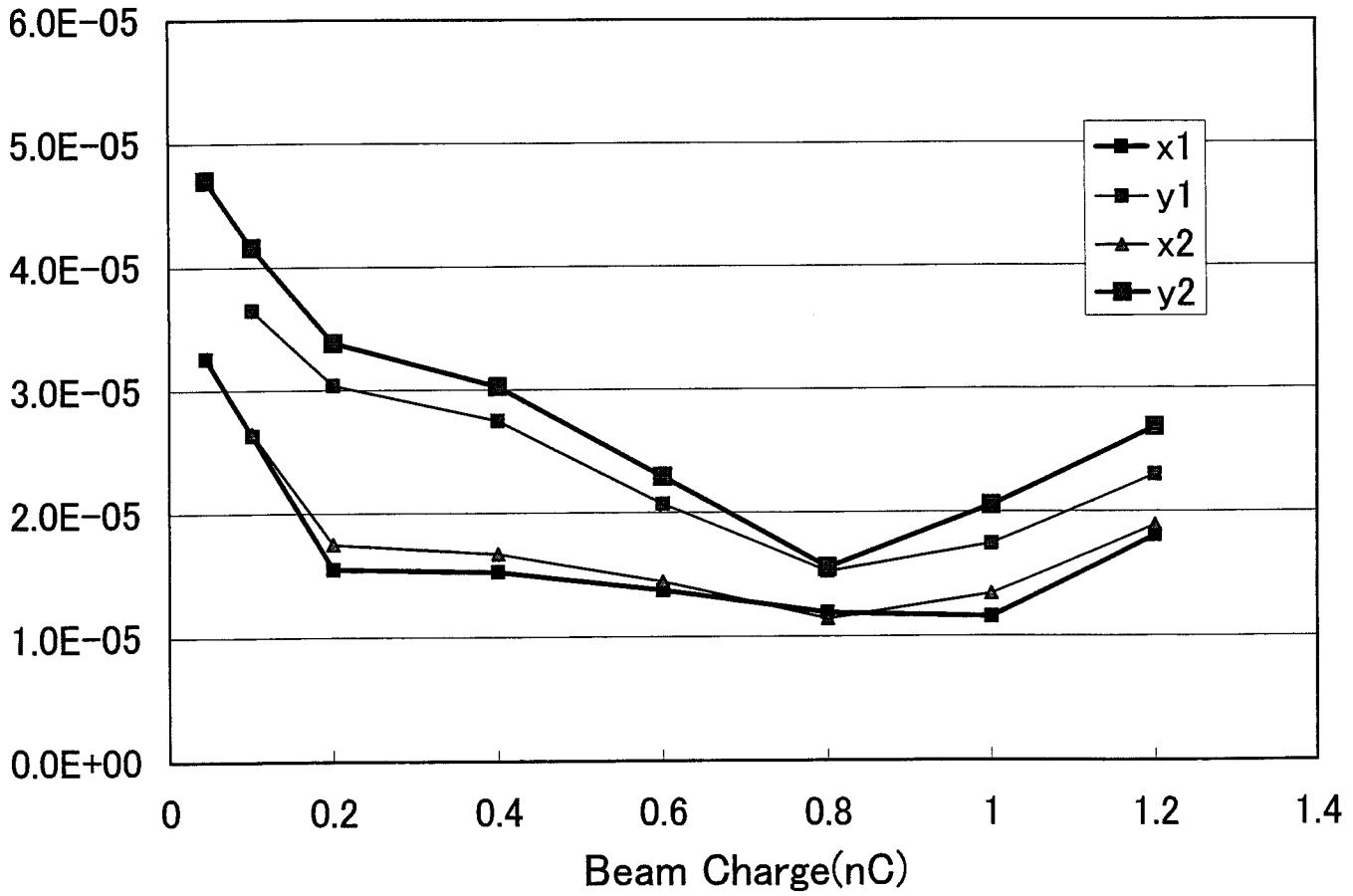


Condition
 Fitting Direction
 Horizontal
 Vertical
 Q : QDA1B8 SC : SCATICS
 Fitting
 Read Data & Fit:
 Raw Saved
 Redo fit with current data
 Redo Fit



Handwritten signature

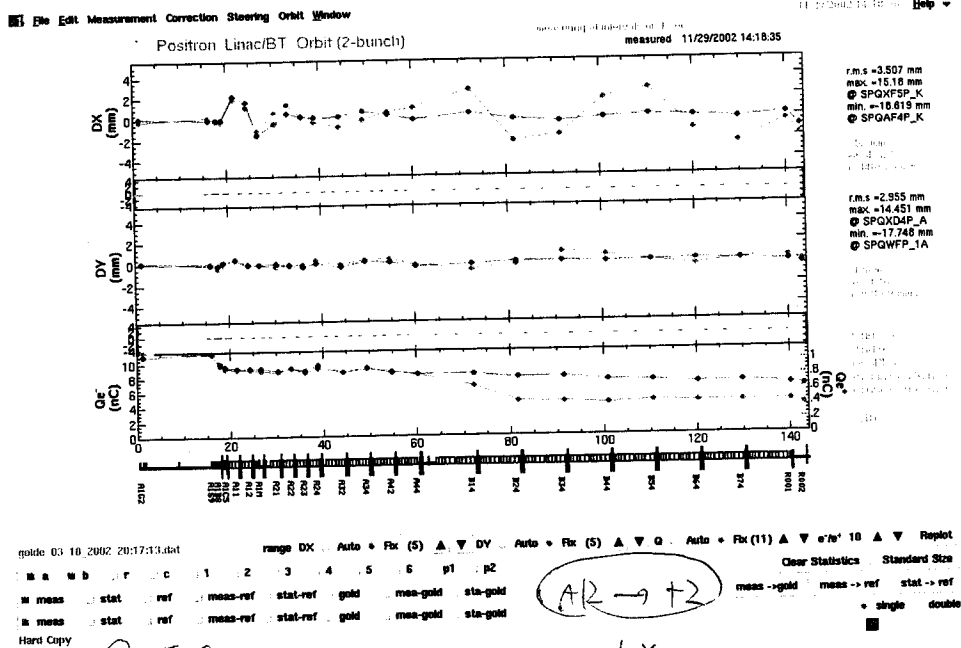
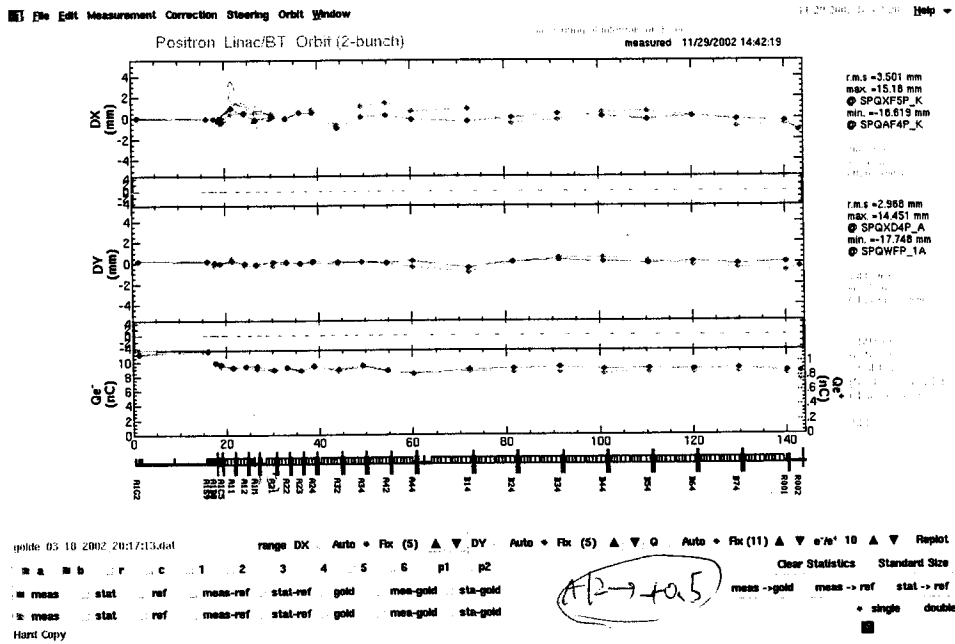
A1 Buncher Emittance



02/11/29(金) (Make 1253 軌道補正)

(FIRST) { A1C5 → 0
 A12 → bump height 変え子.
 A21 → 0

01/27迄は左様、
 A12以降は
 (A,B,C14-)
 自動軌道補正。



{ A1C5 0
 A12 +2 調整
 A21 0
 A21以降 Orbit correction してやる