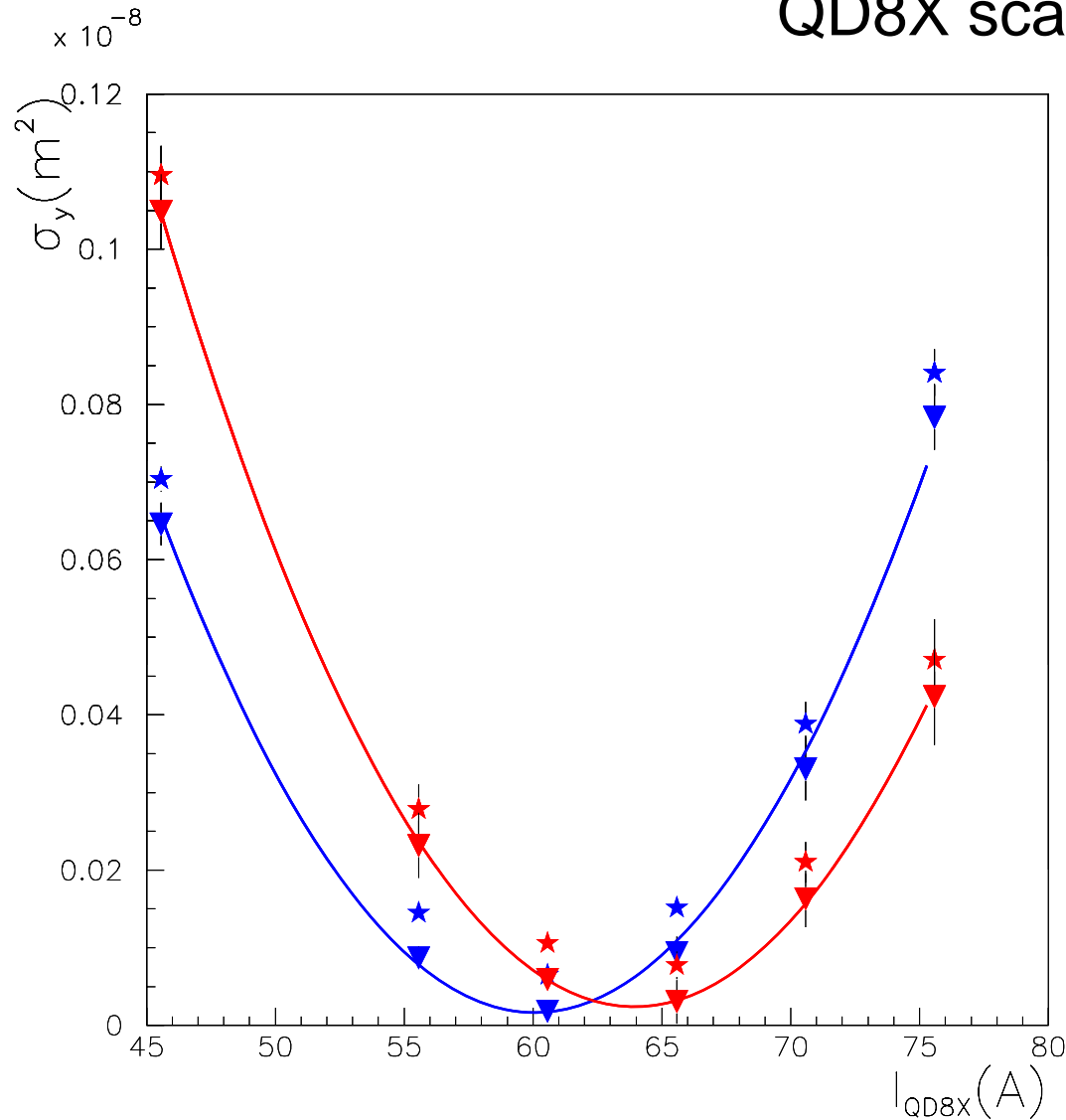


Shifts from 24 april 2008

Kuroda san, Alexander, Mark, Cecile

- Optics from 12 March 08: SET08MAR12_1130.DAT
- Vertical emittance in DR: 38pm.rad
- Vertical dispersion in EXT line < 10mm during all shift
- Scan of QD8X + vertical dispersion measurements
- Coupling corrections from 12 march with QK1X and QK3X.
- New scan of QD8X + vertical dispersion measurements
- Scan of QF5X
- Scan of QF6X
- Scan of QK3X

24th April 2008 Ext emittance studies QD8X scan



before coupling correction

$$\varepsilon_y = 122 \pm 34 \text{ pm.rad}$$

$$\beta_y = 33.3 \pm 8.7 \text{ m}$$

$$\alpha_y = -9.4 \pm 2.6$$

Mark fit:

$$\varepsilon_y = 166 \pm 9 \text{ pm.rad}$$

$$\beta_y = 23.9 \pm 1.9 \text{ m}$$

$$\alpha_y = -6.9 \pm 0.4$$

after coupling correction

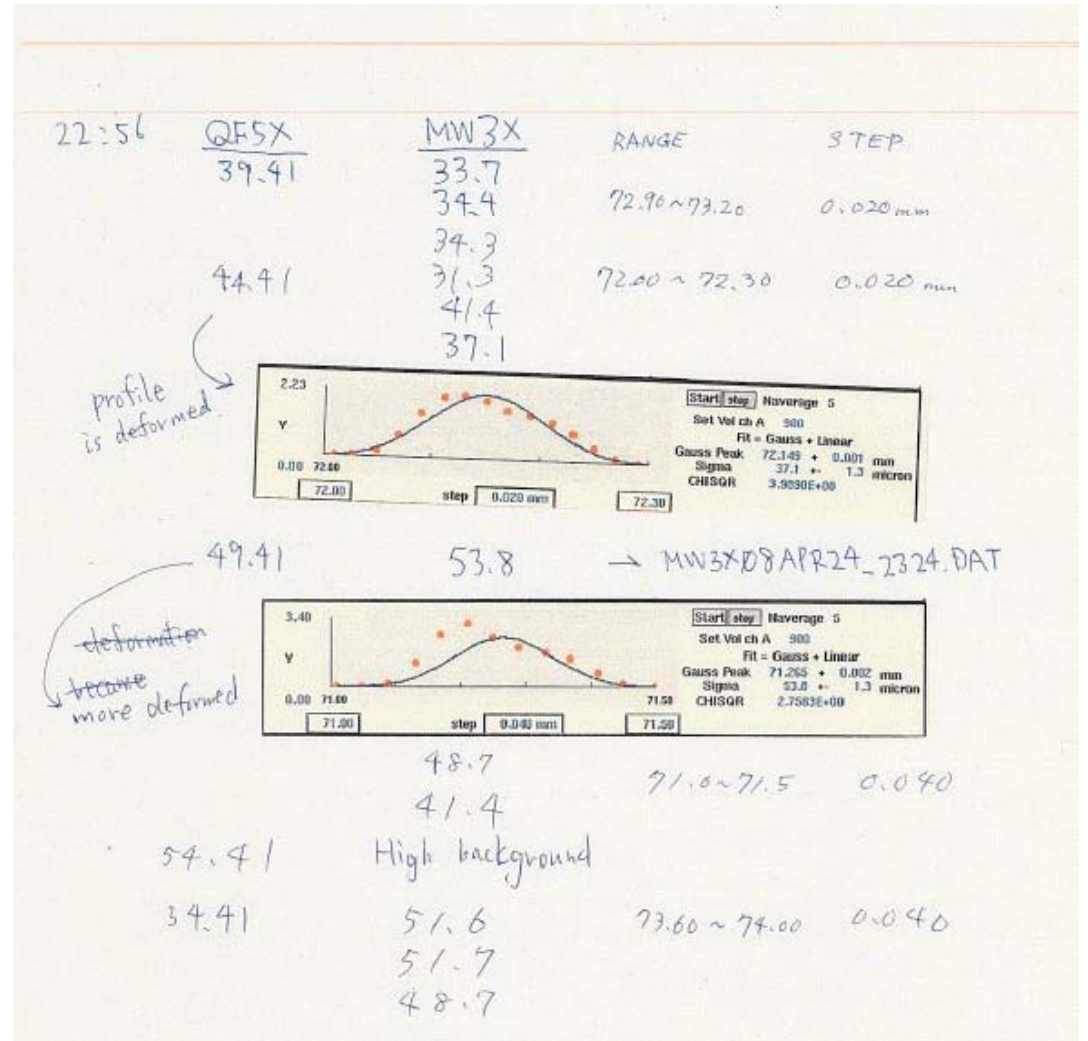
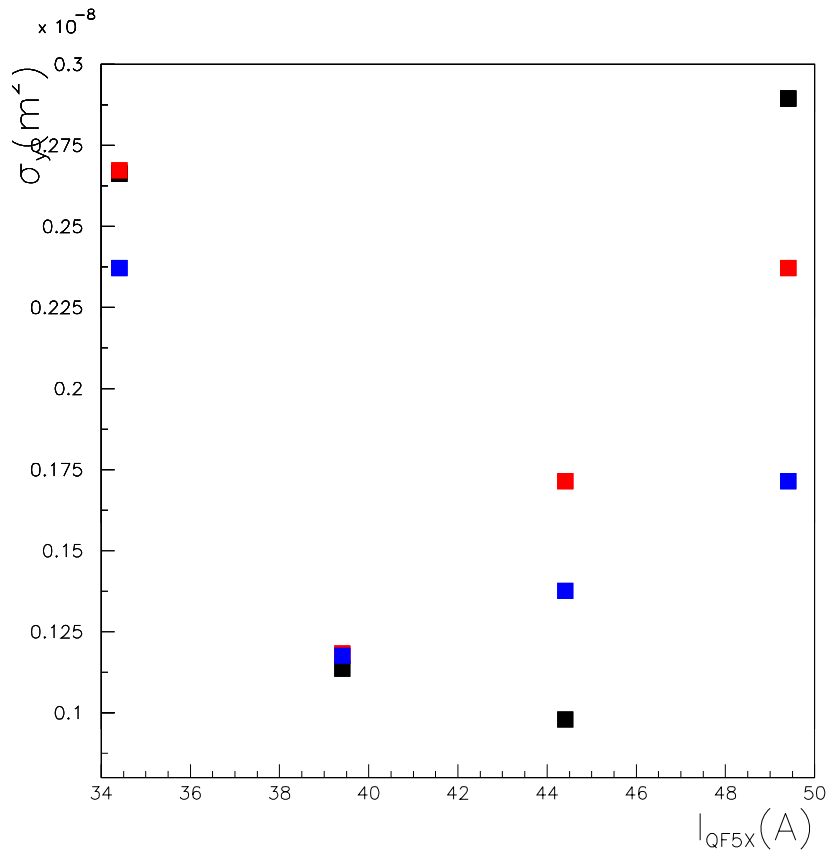
QK1X=-2.2A & QK3X=-4.5A

$$\varepsilon_y = 101 \pm 28 \text{ pm.rad}$$

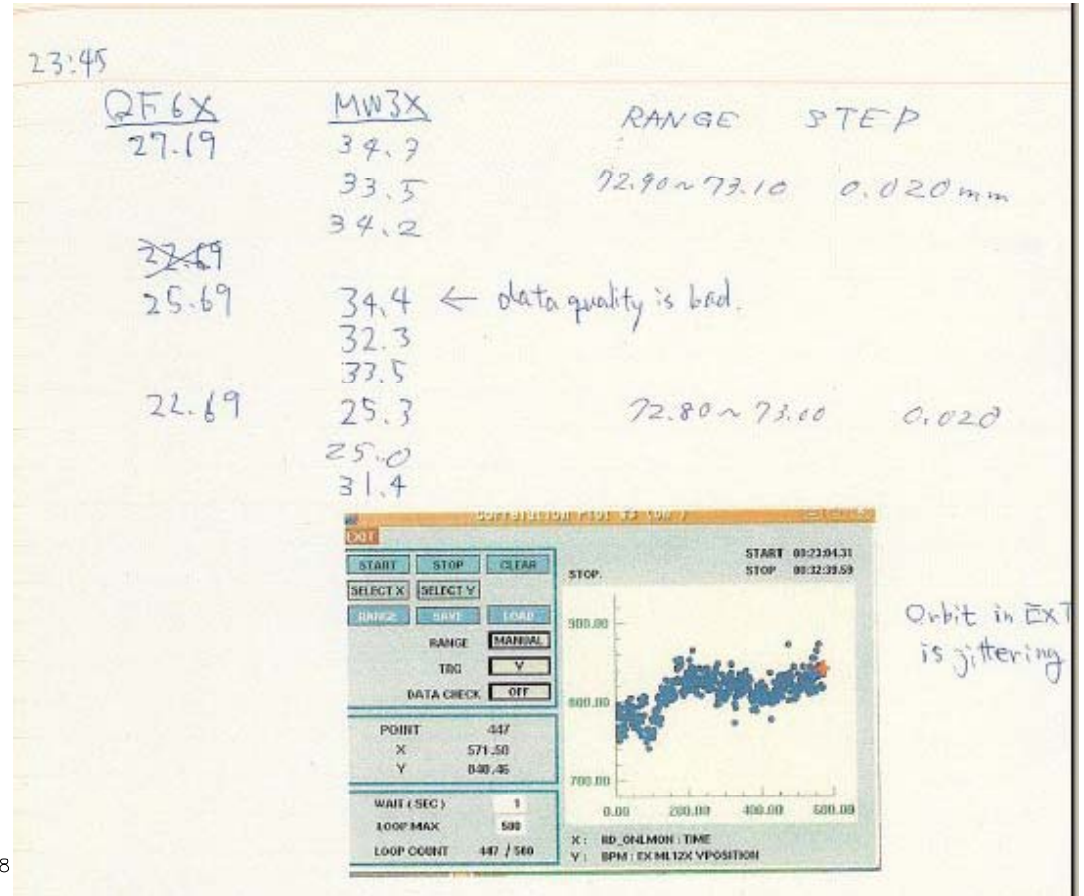
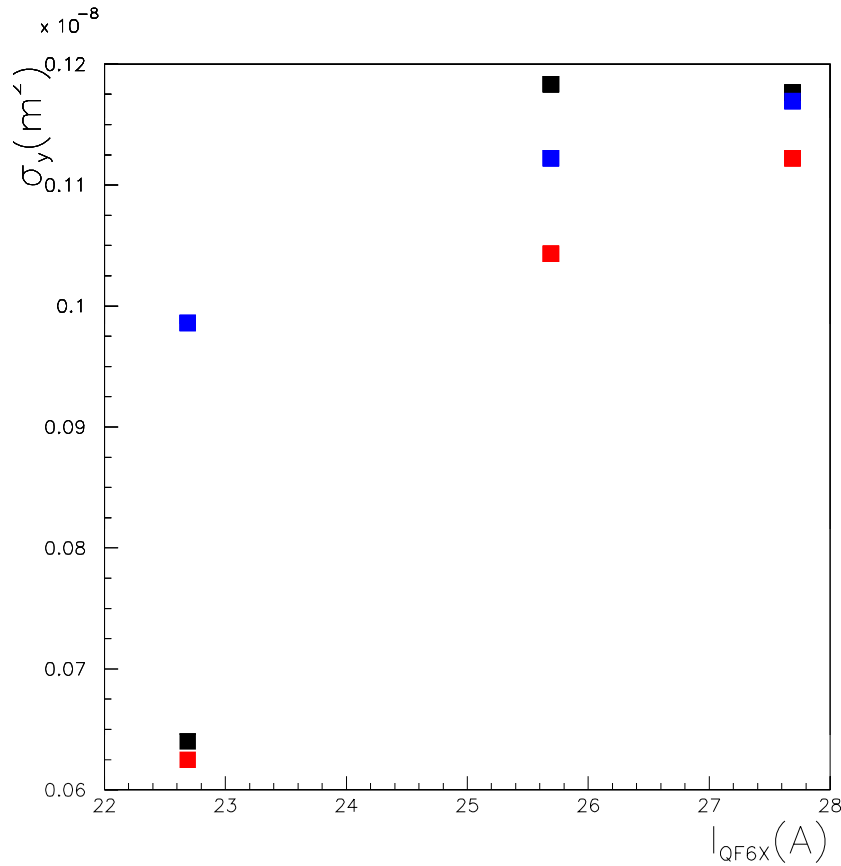
$$\beta_y = 40.4 \pm 10.8 \text{ m}$$

$$\alpha_y = -9.8 \pm 2.8$$

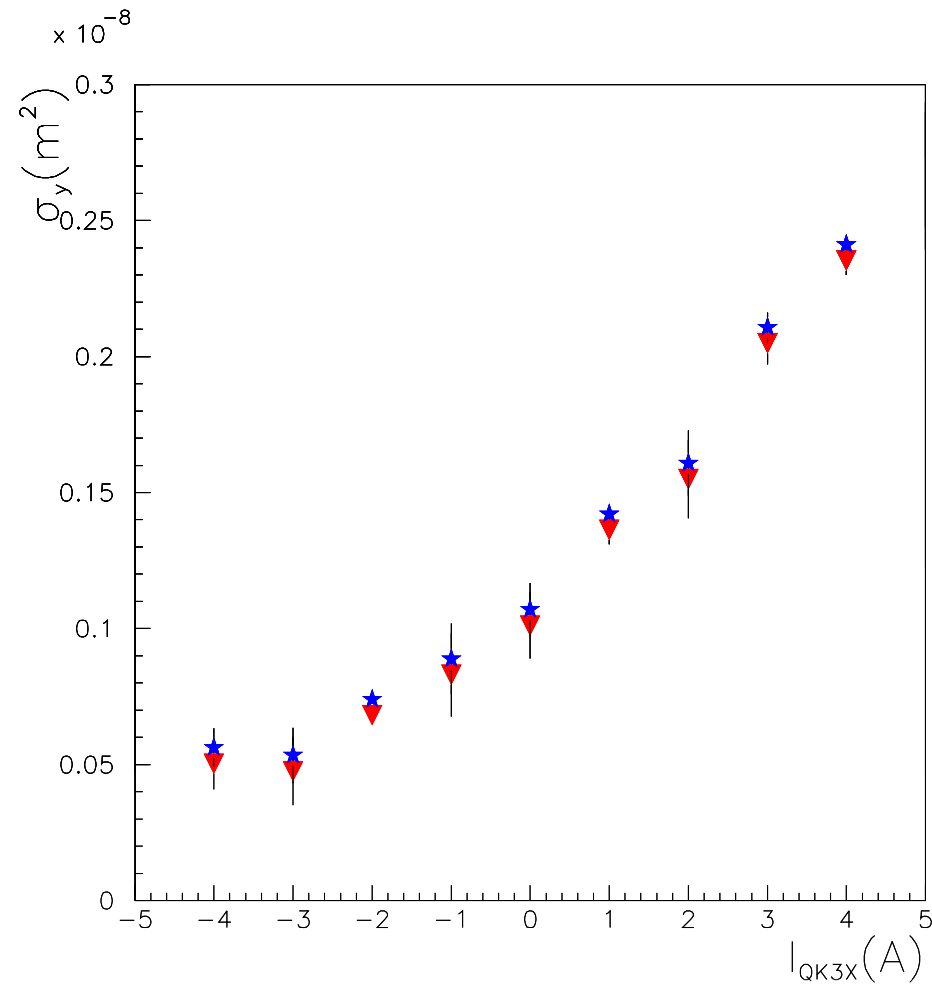
24th April 2008 Ext emittance studies QF5X scan



24th April 2008 Ext emittance studies QF6X scan



24th April 2008 Ext emittance studies QK3X scan



Shifts from 24 april 2008

Kuroda san, Alexander, Mark, Cecile

- Optics from 12 March 08: SET08MAR12_1130.DAT
 - Vertical emittance in DR: 38pm.rad
 - Vertical dispersion in EXT line < 10mm during all shift
 - Scan of QD8X + vertical dispersion measurements
 - Coupling corrections from 12 march with QK1X and QK3X.
 - New scan of QD8X + vertical dispersion measurements → Vertical emittance was not really reduced → different coupling than 12 March.
 - Scan of QF5X → bad beam profile
 - Scan of QF6X → jittering
 - Scan of QK3X → minimum < -5A
-
- Propably Ramp on @ -2kHz since last dispersion measurements, this would explain strange phenoma which was observed.