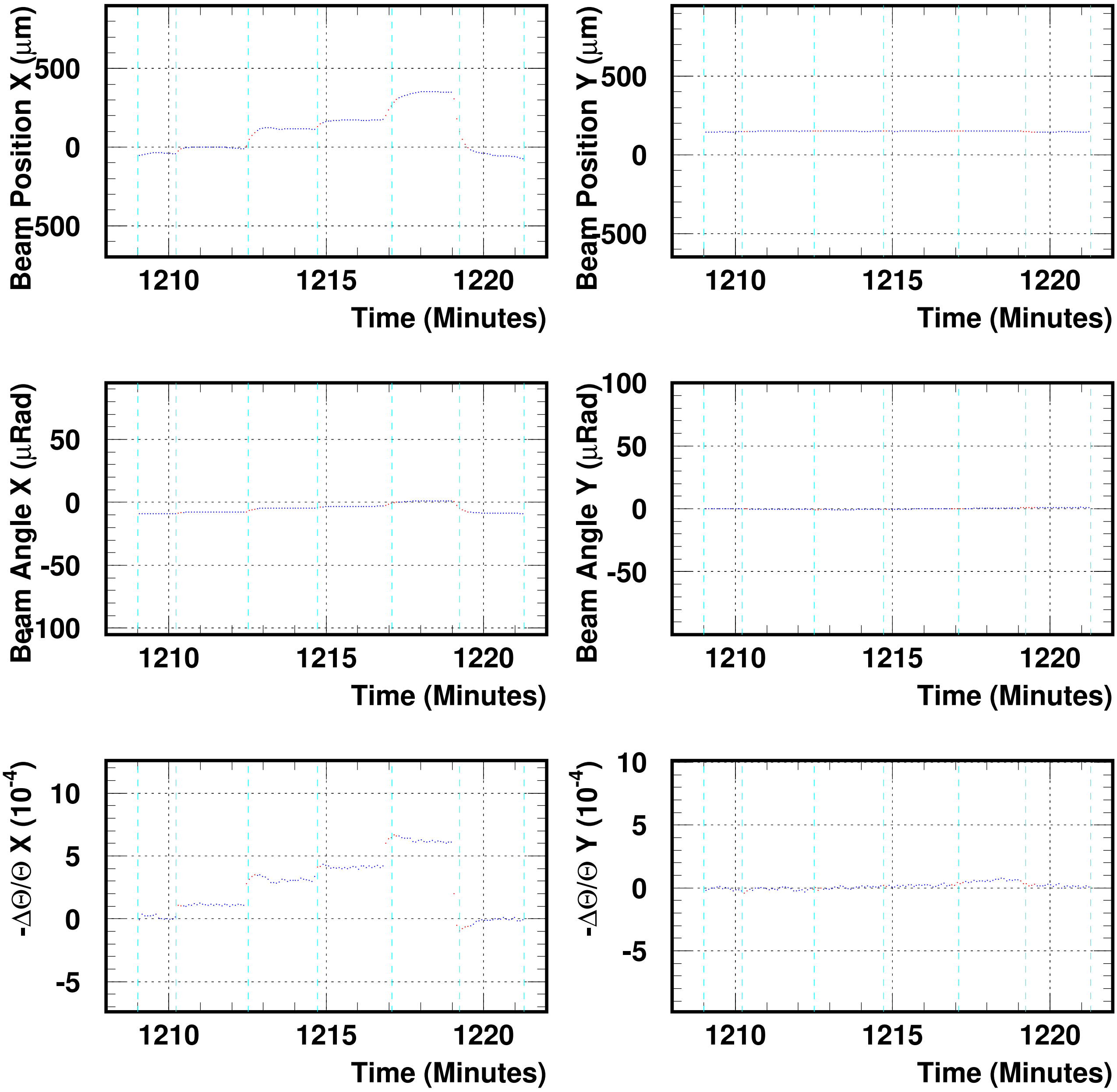
Properly Calibrated

Fill 7931 50 GeV

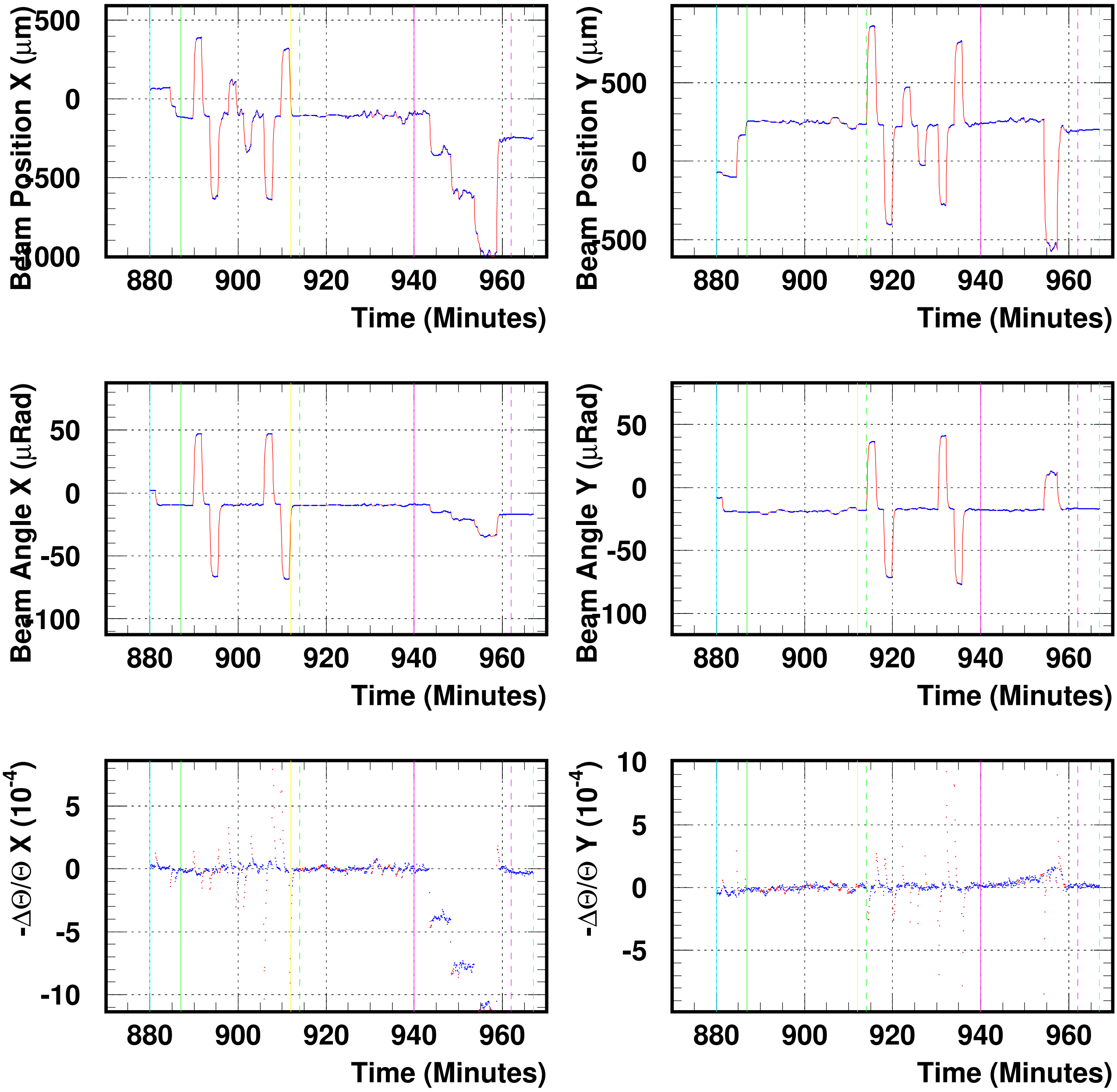
2001/11/02 12.13



Electron Fill

Fill 7929 41 GeV

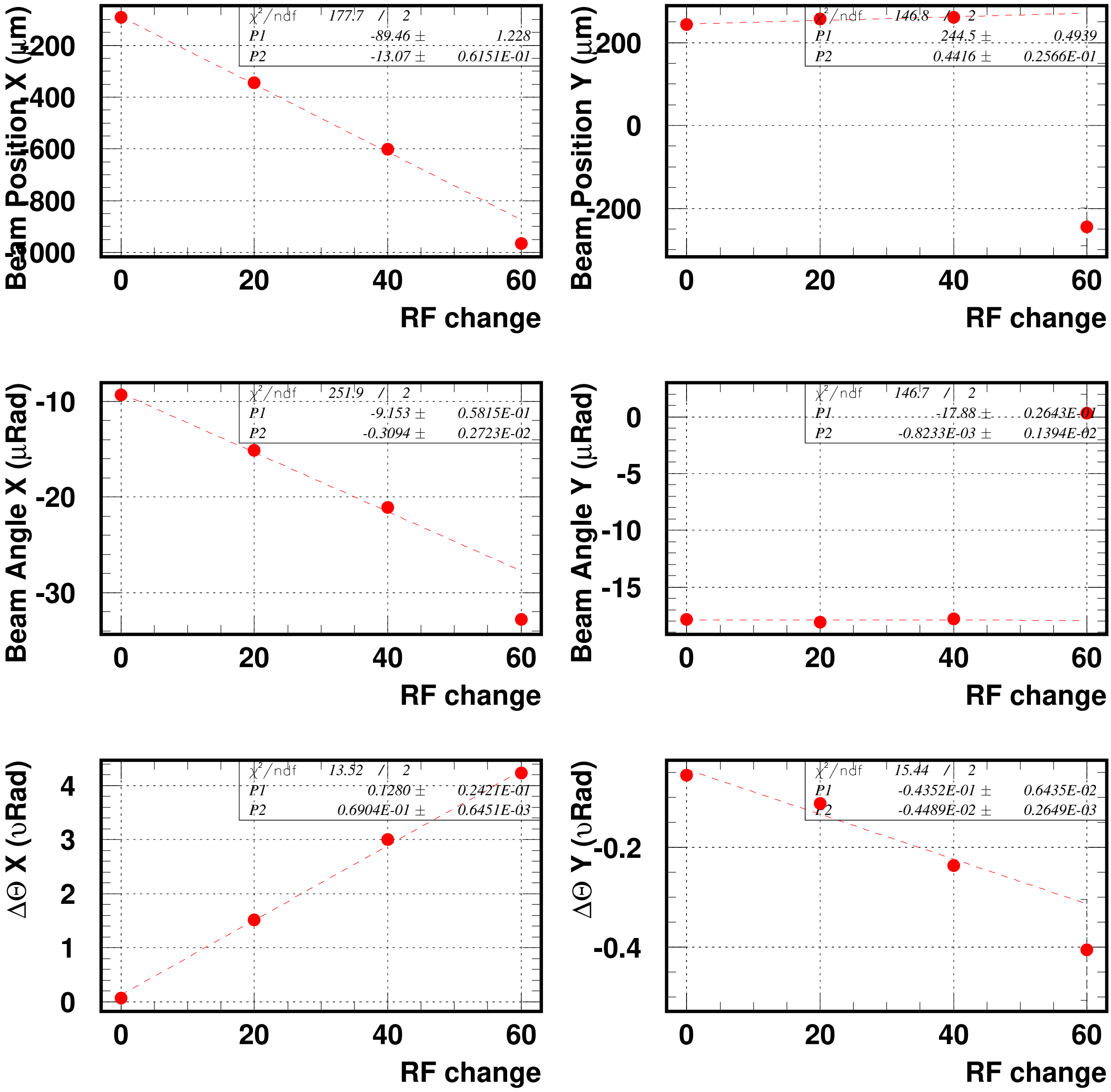
2001/11/15 17.40



Electron RF Ladder

Fill 7929 41 GeV

2001/11/15 17.41



Fit Results

Fill		$\Delta\Theta_X$ [nRad/Hz]	$\Delta\Theta_Y$ [nRad/Hz]	ΔX [µm/Hz]
7931	50 GeV e^+	64	+7	-9.8
7931	93 GeV e^+	57	+8	-9.1
8221	50 GeV e^+	70	-5	-11.3
8221	93 GeV e^+	71	+2	-11.0
8224	50 GeV e^+	80	-69	-11.6
7929	41 GeV e^-	69	-4	-13.1

Expected

$$\frac{\Delta\Theta_X}{\Delta f_{RF}} = \frac{\Theta_0}{\alpha f_{RF}} = 76.5\ \text{nRad/Hz}$$

$$\alpha = 1.4\times10^{-4}$$

Overall gain stable 10-15%,

a little above 2000 µm/V assumption.

Y Weirdness from cross-talk terms...