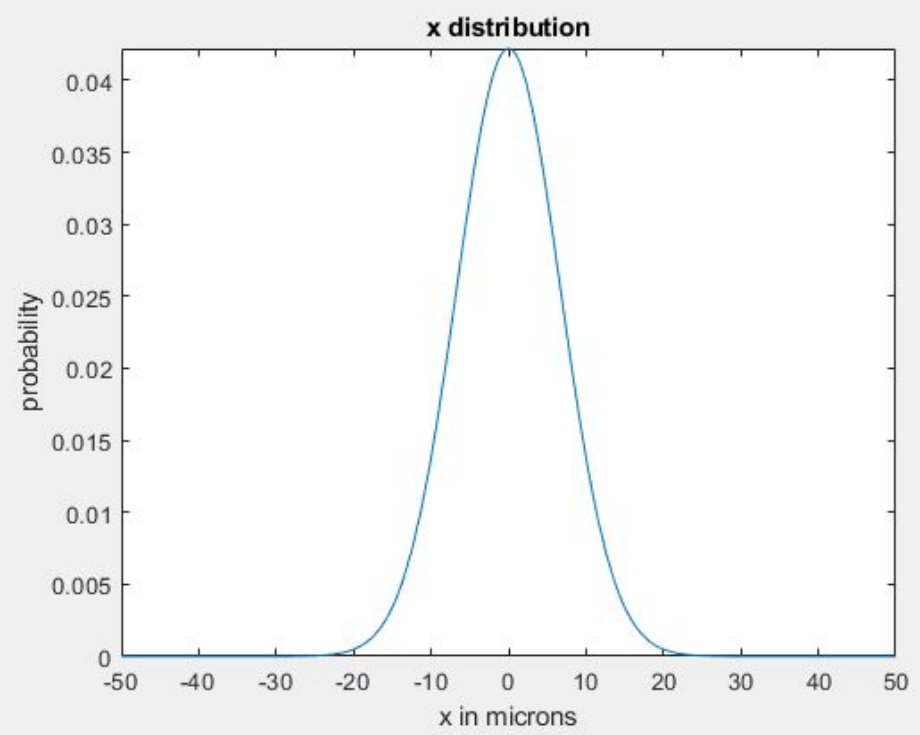
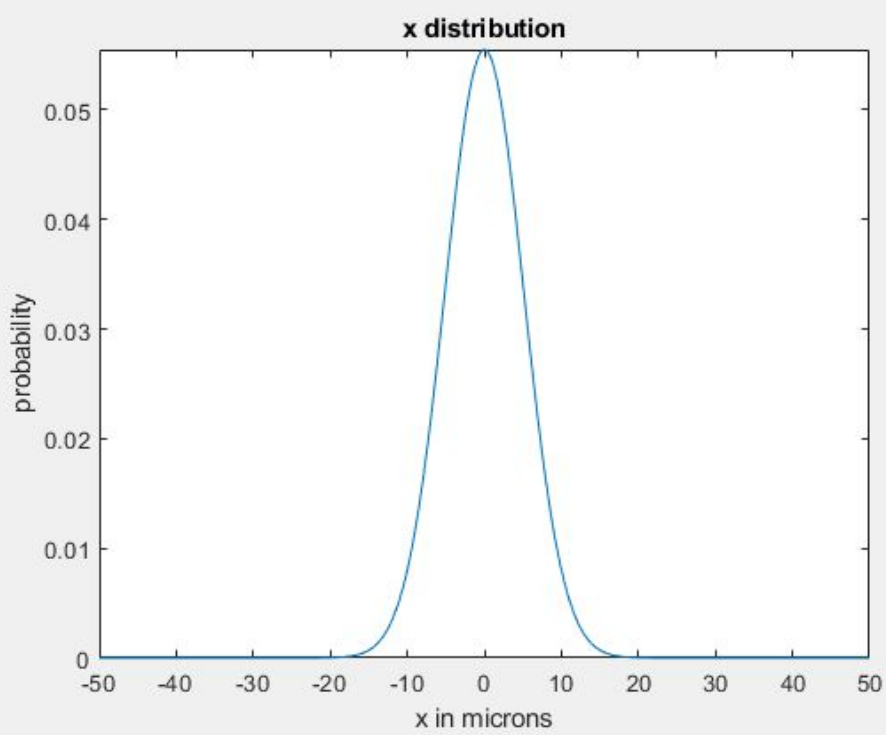
$$\delta x = (k_x/4)\sqrt{[\Sigma_n(\delta b_{n\ total}/b_n)^2]}$$

$$\Delta x = (k_x/4)\sqrt{[\Sigma_n\ (4\pi^2 f^2\ \Delta t\ \delta t_n)^2 + (\delta b_n/b_n)^2]}$$

assuming $2\pi f^* \delta t_n << 1$
and $2\pi f^* \Delta t << 1$




Base values from paper:

X max = 21.7 um

Y max = 16.6 um

X standard deviation = 9.5 um

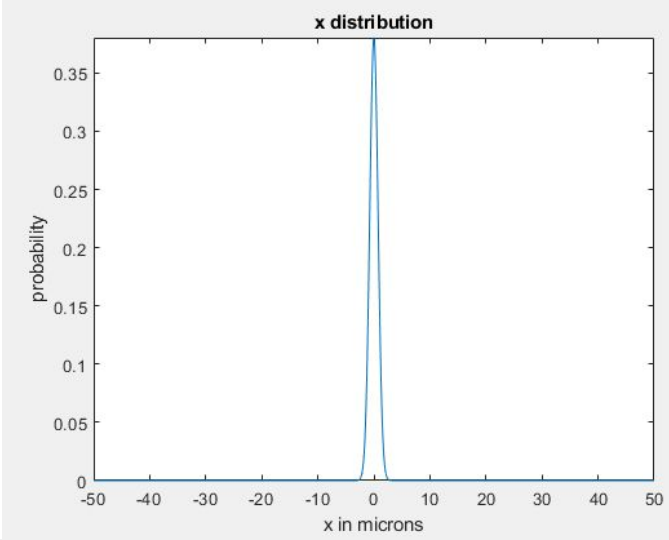
64-turn averaged from paper:

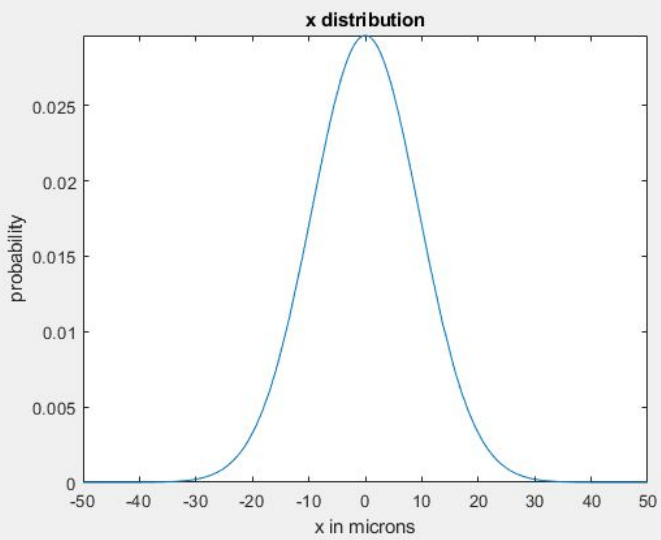
X max = 16.2 um

Y max = 12.4 um

X standard deviation = 7.2 um

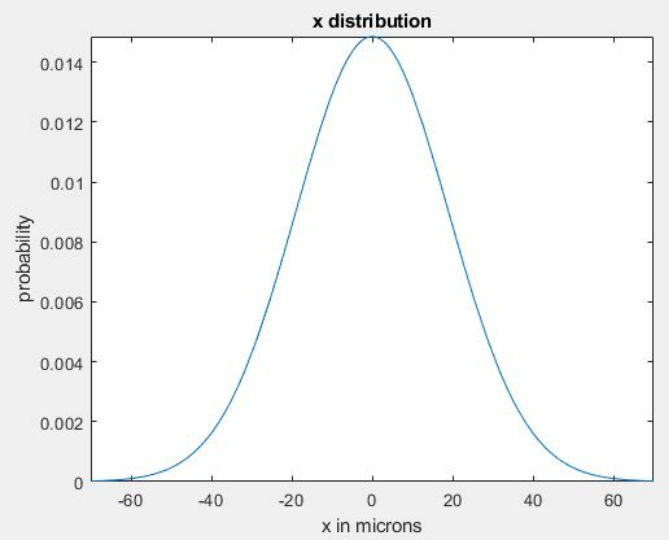
0 steps

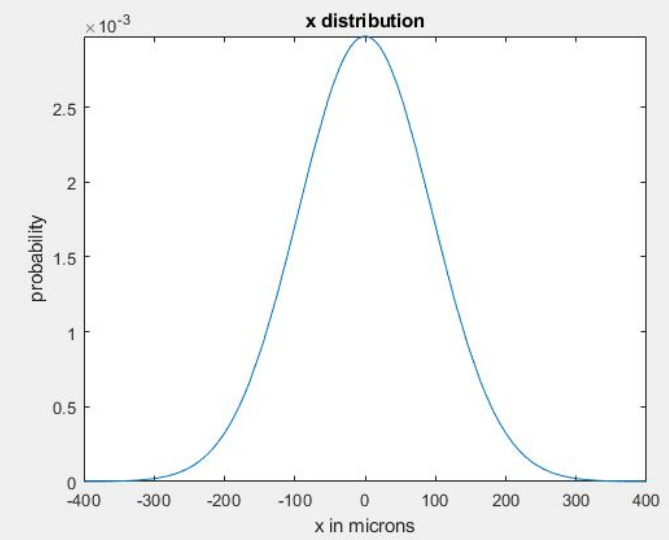


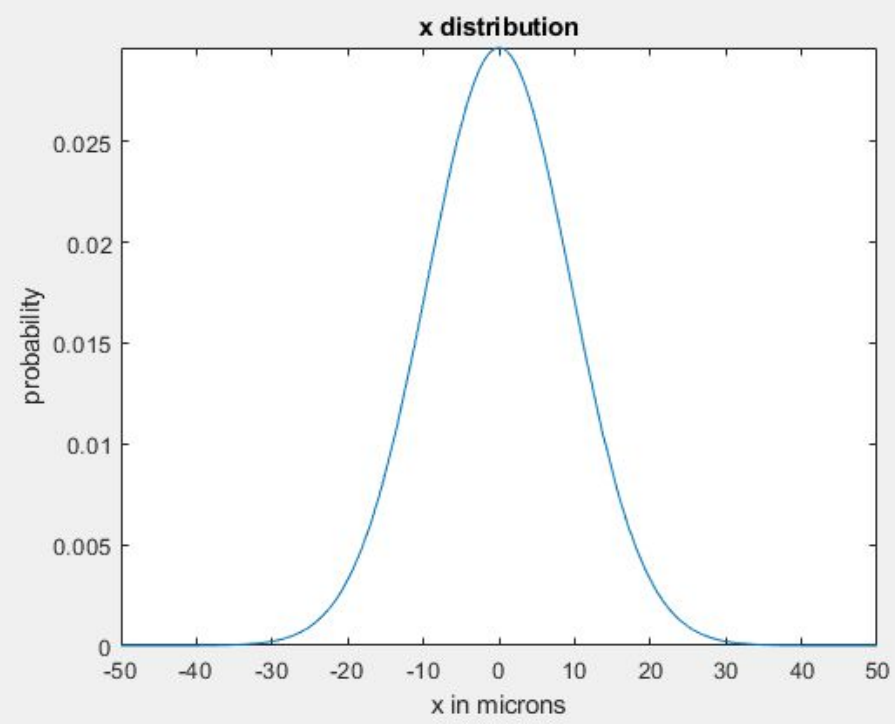

1 step

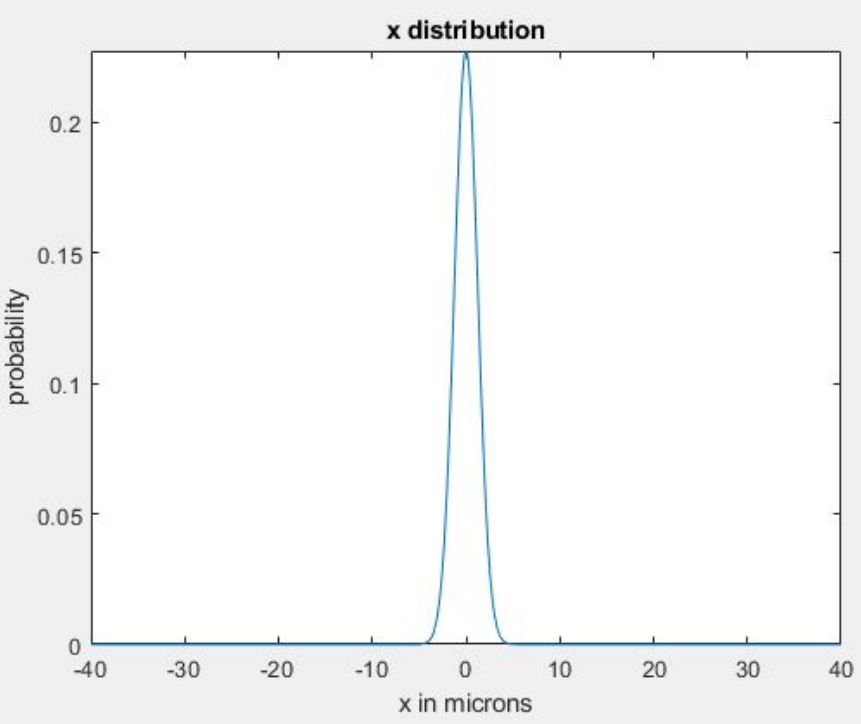
2 steps




10 steps




1 step
10.5 ps jitter

1 step
1.1 ps jitter