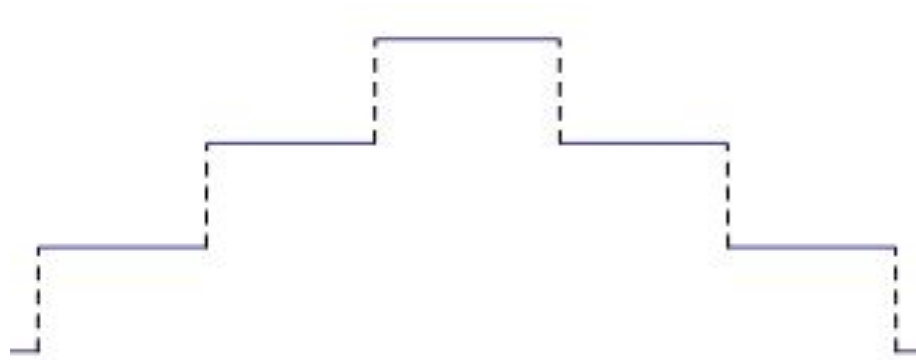


$$\text{Button Signal} = b \cdot (1 + b/\Delta t) \cdot S(\Delta t + \Delta t)$$

$S =$

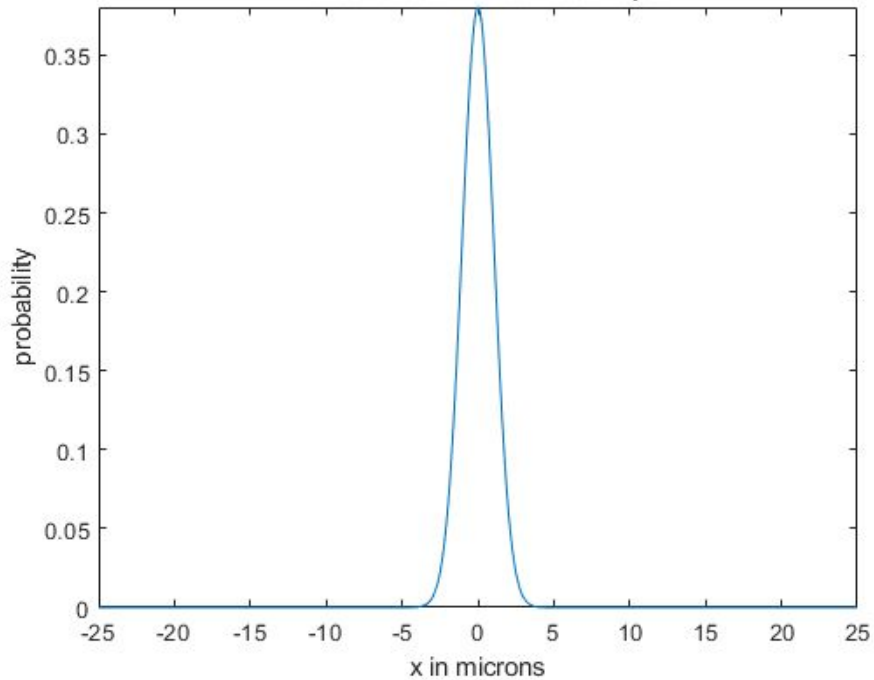


$$X = k_x \cdot (1 - 2 + 3 - 4) / (1 + 2 + 3 + 4)$$

$$\square x = \sqrt{\sum_n (k_x * |1/\Sigma + \Delta_x/\Sigma^2| * \square b_n)^2}$$

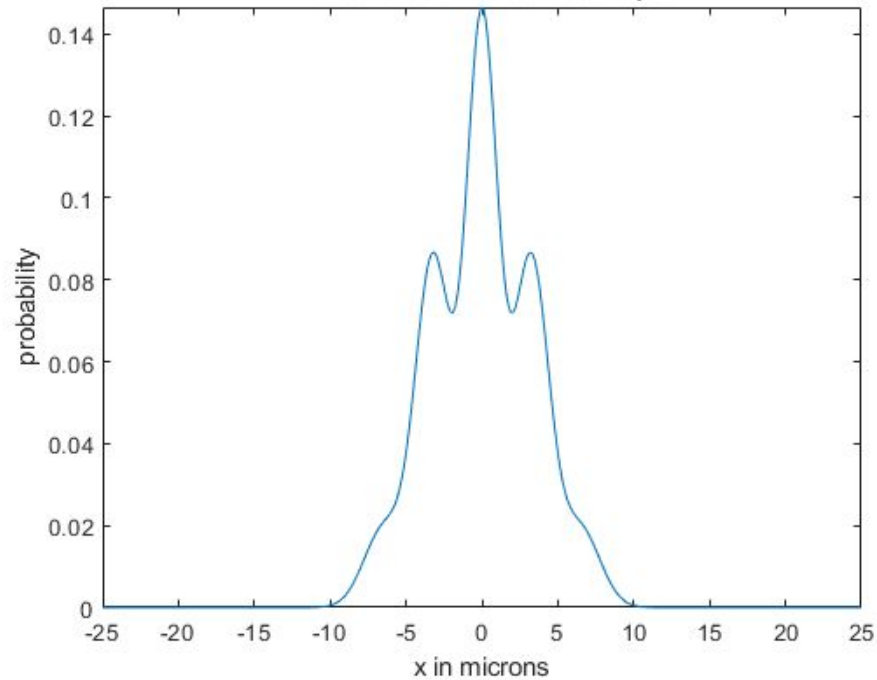
$$\square x = .5 * k_x * |\square b_n / b_n| * (1 + \Delta_x / \Sigma)$$

x distribution for t offset = 0ps



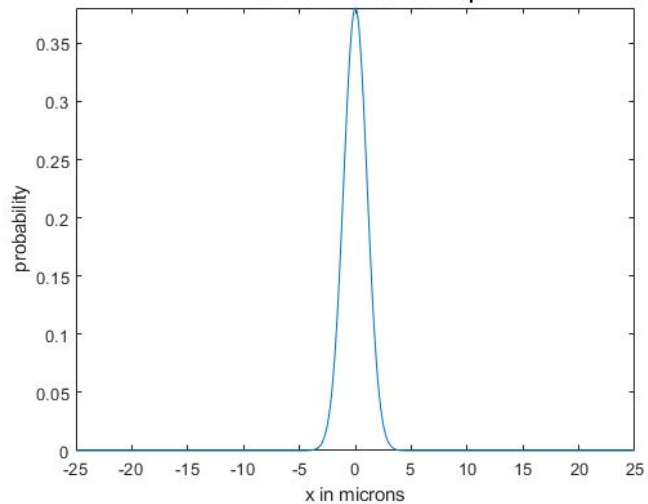
‘Worst case’ = $2.1\mu\text{m}$

x distribution for t offset = 5ps

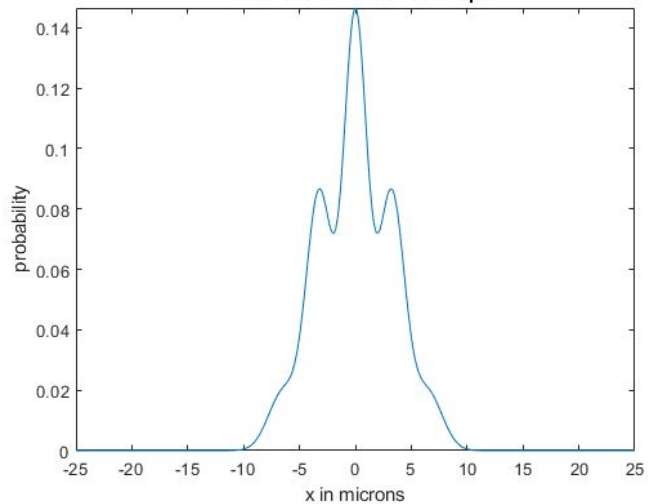


‘Worst case’ = $8.5\mu\text{m}$

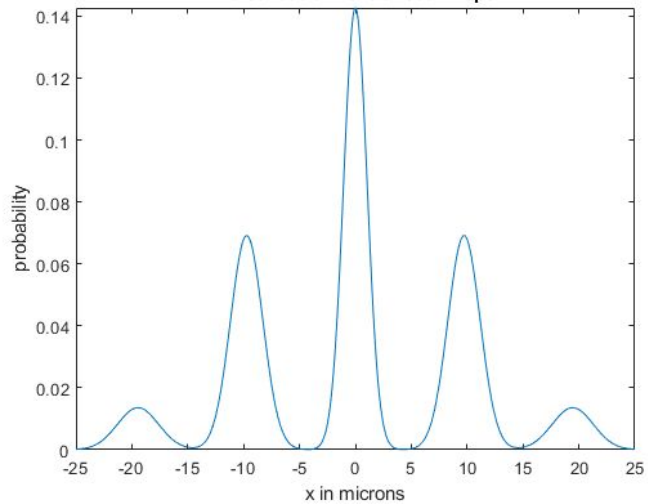
x distribution for t offset = 0ps



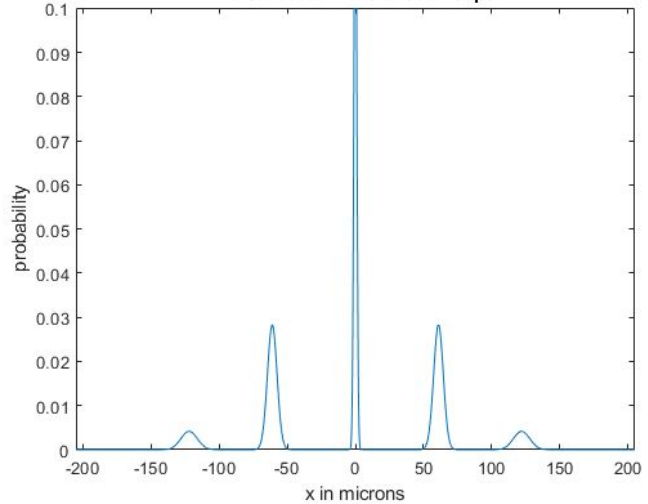
x distribution for t offset = 5ps



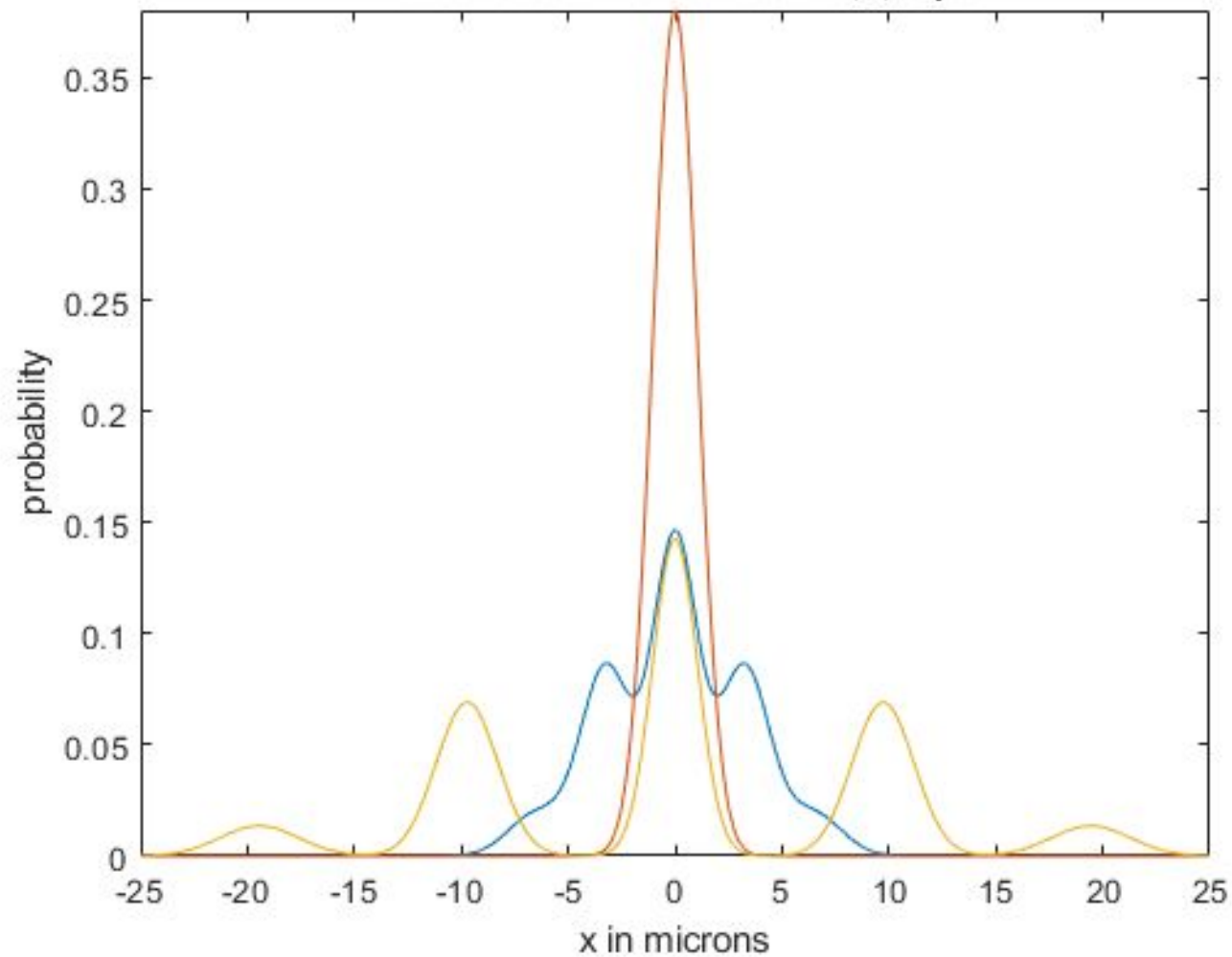
x distribution for t offset = 15ps



x distribution for t offset = 95ps



x distribution for t offset = 0,5,15ps



—

0 ps offset

—

5 ps offset

—

15 ps offset