$$f(x,y) \rightarrow g(l,\theta)$$

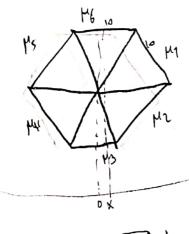
$$f(x-x_0,y-y_0) \rightarrow (x,y) \rightarrow k(l,\theta)$$

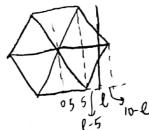
$$k(h|x,y) = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} h(x,y) \int_{-\infty}^{\infty} (x - x_0, y - y_0) \int_$$

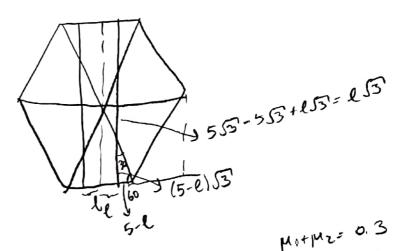
$$\Rightarrow k(l,0) = R\left\{f(x-x_0,y-y_0)\right\} = g(l-x_0\cos\theta-y_0\sin\theta,0)$$

$$|| (x,y)| = e^{-\frac{x^2+y^2}{2}}$$

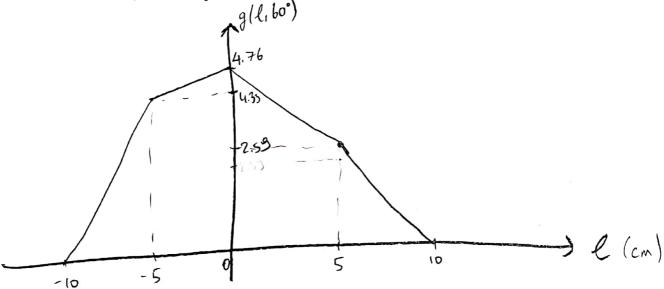
$$|| (x,y)| = e^{-\frac{x^2+y^2}{2}} = e^{-\pi \left( \left( \frac{y}{y} \right)^2 + \left( \frac{y}{y} \right)^2 \right)} || (x,y)| = 2\pi e^{-2\pi^2 p^2} || (x,y)| = 2\pi e$$







 $g(l_{1}60) = \begin{cases} (5-l)5(\mu_{3}+\mu_{6}) + l5(\mu_{1}+\mu_{2}), & 0 \le l < 5 \\ (10-l)5(\mu_{3}+\mu_{6}) + l5(\mu_{1}+\mu_{2}), & 0 \le l < 5 \end{cases}$   $(10-l)5(\mu_{1}+\mu_{2}), & 5 \le l \le 10$   $(5+l)5(\mu_{3}+\mu_{6}) - l5(\mu_{4}+\mu_{5}), & -5 \le l \le 0$   $(10+l)5(\mu_{4}+\mu_{5}), & -10 \le l < -5$  0, & 0.0.  $(10+l)5(\mu_{4}+\mu_{5}), & -10 \le l < -5$ 



a) The smallest controls at least use a detector array which is 20 cms long.

b) Nproj > The Nprint > Nprojmin = 403

 $\Delta X = \frac{foV}{26b} = \frac{20cm}{26b} = 10.078cm$ 

Small pixel width = Beffer Resolution