

$$\left(L(x,y) * g_{\sigma_k}(x,y) \right) * L(x,y)$$

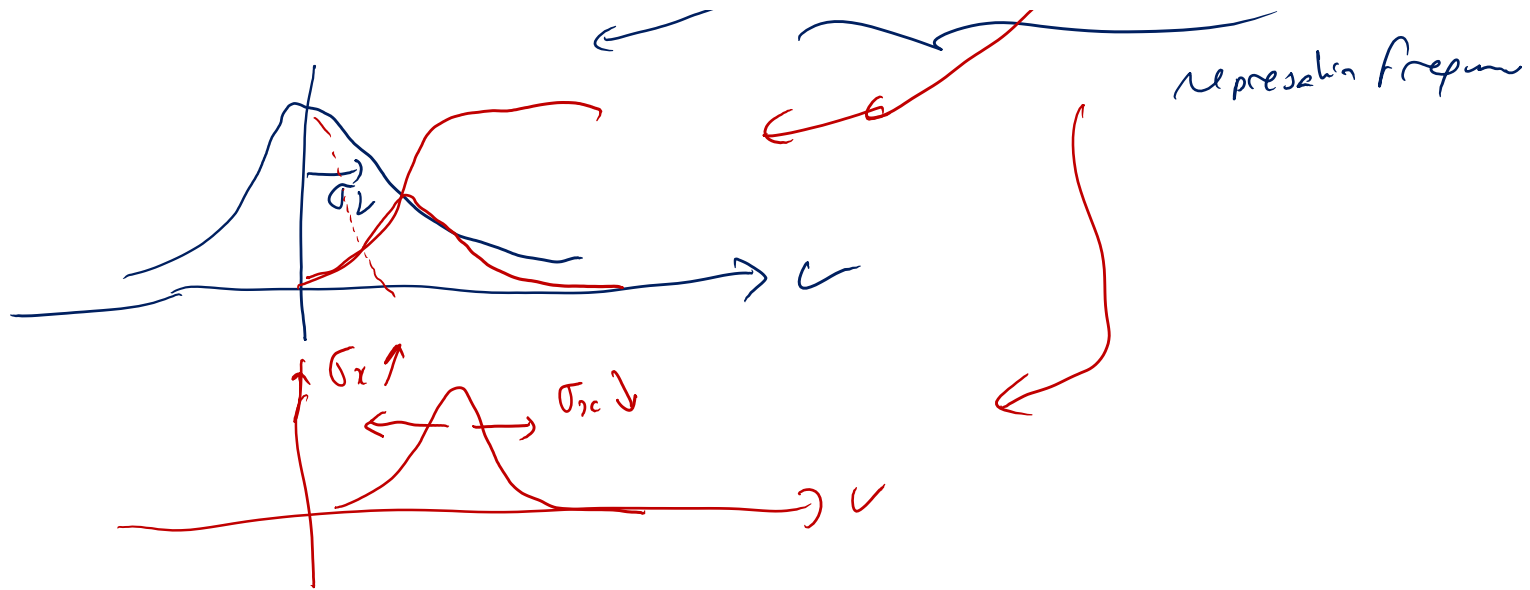
\Downarrow

$$\left(I(u,v) * G_{\sigma_k}(u,v) \right) * L(u,v)$$

$$I(u,v) * \left[G_{\sigma_k}(u,v) * L(u,v) \right]$$

L

representation frequency



$$e^{-\pi x^2} \geq e^{-\pi u^2}$$

$$(c(x, y) * g(x, y)) * l(x, y)$$

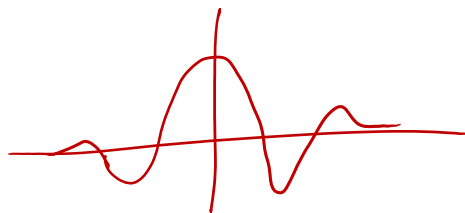
$$c(x, y) * (g(x, y) * l(x, y))$$

spatial

$x \rightarrow$

$$\left(\frac{d^2}{dx^2} e^{-\pi x^2} \right)$$

$\sqrt{1/\pi}$



PSR d'un
pulse
passer band

$$\pi/2$$

$$I(u, \nu) = \underbrace{\left[(L^2 \gamma \nu) e^{-\pi \nu^2} \right]}_{\text{NTF: represents frequency}}$$

$$\propto \boxed{L^2 e^{-\pi \nu^2}}$$

