$$y = h\,x + n \qquad \bar{x} = \frac{y}{h} + \frac{n}{h}$$

$$SNR = \frac{P_S}{P_N} = \frac{|x|^2}{(n/h)^2} \frac{|0.5 + 0.1i|^2}{|0.01 - 0.02i|^2}$$

$$SNR(dB) = 10 \log_{10} SNR \qquad n = \bar{x} - x$$

$$y(t) = h(t) \cdot x(t) \xleftarrow{\text{IFFT}} Y[k] = H[k]\,X[k]$$

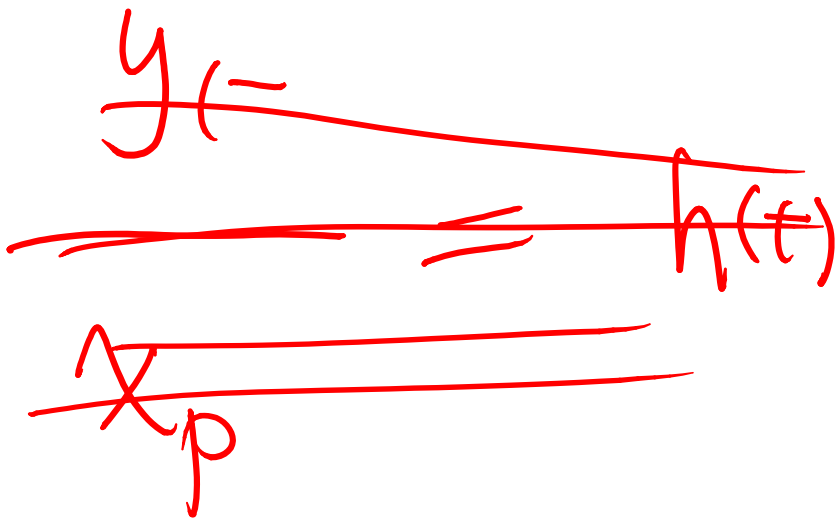
$$\frac{y(t)}{h(t)} = x'(t)$$

$$SNR_{[k]} = \frac{|X'[k]|^2}{|X'[k] - X[k]|^2}$$

$$x'(t) \xrightarrow{\text{FFT}} X'[k]$$

$$y = h\,x + n$$

$$x' = \frac{y}{h}$$



$$\frac{Y[k]}{X[k]} = H[k] + \Delta$$

mean ($H'[k]$, $H^2[k]$, $H^3[k]$)

H