$$E_{\rho} = \left(\frac{1}{|P(1)|^2} d \right) = \frac{6}{T}$$

$$P(1)$$
: rect $\left(\frac{P_{1}}{4}\right)$

$$E_{p} = \int_{-\infty}^{\infty} |P(1)|^{2} dI = \frac{4}{T}$$

$$P(1) = \text{rect}\left(\frac{1}{4}\right)$$

$$\frac{2}{T}$$

$$\frac{2}{T}$$

2)
$$P_{n_{m}} = \frac{N_{0}}{2} \int_{-1/r}^{1/r} |H_{N}(l)|^{2} dl$$

$$= \frac{N_{0}}{2} \left[\int_{-1/r}^{1/r} (1 - |l|^{2}) dl \right] + 2 \left[\int_{-1/r}^{1/r} (1 - |l|^{2}) dl \right]$$

Simboli indipendent, equipostabili e simmetouci'
$$S_{s}(f) = \frac{1}{T} \delta_{x} |f|(1)|^{2} = \frac{1}{T} \cdot 1 \cdot \text{rect}\left(\frac{T1}{4}\right) = \frac{1}{T} \cdot \text{rect}\left(\frac{T1}{4}\right)$$

$$\delta_{\kappa}^{2} = E[x^{2}] = 1$$
 poiche $\eta_{\kappa} = 0$

$$h(t) = h_R(t) = \frac{1}{T} \operatorname{sinc}^2\left(\frac{t}{T}\right) + \frac{4}{T} \operatorname{sinc}\left(\frac{4t}{T}\right)$$