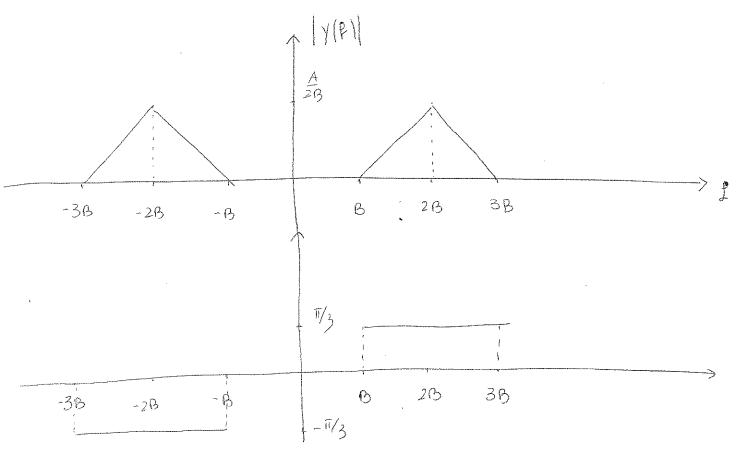
$$X(f) = \frac{A}{B} \left(1 - \frac{|F|}{B} \right) redr \left(\frac{f}{ZB} \right)$$

$$\sqrt{(f)} = \frac{A}{B} \left(1 - \frac{|f|}{B} \right) \operatorname{rect} \left(\frac{P}{ZB} \right) \otimes \left[\frac{e}{Z} \operatorname{S}(f-f_0) + \frac{e}{Z} \operatorname{S}(f+f_0) \right]$$



$$\overline{Y}(f) = 2B \sum_{k} Y(f-k2B)$$

$$A$$

$$-3B -2B -B$$

$$B 2B 3B$$

$$P(P) = \frac{1}{B} \operatorname{red} \left(\frac{P}{B} \right)$$

$$Z(f) = \overline{Y}(f) P(f) = A \left(1 - \frac{|f|}{B}\right) red \left(\frac{B}{B}\right)$$

$$\begin{array}{c|c}
A/B \\
\hline
-B \\
\hline
2 \\
\hline
2
\end{array}$$

$$Z(P) = \frac{A}{2B} \operatorname{rect}\left(\frac{P}{B}\right) + \frac{A}{2B} \left(1 - \frac{|P|}{2B}\right) \operatorname{rect}\left(\frac{P}{B}\right)$$

$$Z(t) = \frac{A}{2} ainc \left(Bt\right) + \frac{A}{4} ainc^2 \left(\frac{B}{2}t\right)$$

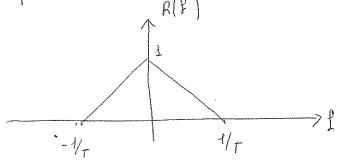
$$= \frac{A^{2}}{4B} + \frac{A^{2}}{4B} + \frac{A^{2}}{4B} = \frac{4}{12} \frac{A^{2}}{B}$$



i)
$$P(f) = \text{rect}\left(\frac{f}{2/T}\right)$$

$$E_{S} = \frac{1}{2}(1)^{2}E_{P} + \frac{1}{2}(-1)^{2}E_{P} = E_{P} = \frac{2}{7}$$

$$R(\xi) = \left(1 - |\xi| + \right) \operatorname{rect}\left(\frac{\xi}{2|T|}\right)$$



$$G_{n}^{2} = \frac{N_{0}}{2} \left(R^{2}(P) dP = \frac{N_{0}}{2} \cdot \frac{1}{T} \cdot \frac{2}{3} = \frac{N_{0}}{3T} \right)$$

$$H(F) = P(F)R(F) = R(F)$$

$$h(0) = \int_{-\infty}^{+\infty} H(\beta) d\beta = \frac{1}{T}$$

Rispostar impulsito del sisteme che sodolifor la constitione du nyopust

Dopo

Psimble e All assess the is compromotore

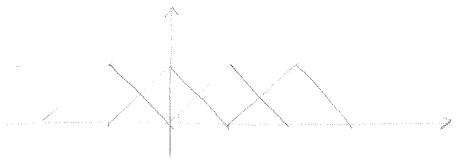
$$P(e) = 2Q \left(\frac{1/r}{\sqrt{\frac{N_2}{3T}}} \right) = 2Q \left(\sqrt{\frac{3}{NOT}} \right)$$

2)
$$P(P) = \sqrt{2(1-|P|T)} \operatorname{rect} \left(\frac{4}{2}/2/T\right)$$

$$E_{S} = E_{p} = \int_{-\infty}^{+\infty} P^{2}(\beta) = 2 \int_{-\infty}^{+\infty} \left(1 - |\beta| T\right) \operatorname{rect}\left(\frac{\beta}{2I_{T}}\right) = \frac{2}{T}$$

$$\delta_n^2 = \frac{N_0}{2} \left(R^2(P) dP = \frac{N_0}{2T} \right)$$

$$H(g) = P(g) R(g) = \sqrt{2} \left(1 - |g|T\right) rect \left(\frac{g}{2/T}\right)$$



Soddisfu la conditione di Nyomith

$$P_{E}(b) = 2Q \left(\frac{12}{7} \frac{1}{\sqrt{\frac{N_{0}}{2T}}} \right) = 2Q \left(\sqrt{\frac{4}{N_{0}T}} \right)$$

3)
$$2Q\left(\sqrt{\frac{4}{N_{0}T}}\right) < 2Q\left(\sqrt{\frac{3}{N_{0}T}}\right)$$

Infatti nel secondo coso le riculitore e- le riculitore attimo in quando il filtro in ricultance e adottato all'impulso tramassa.