Il segnole all'ingresso del misterno in Fig. 1 e-
$$\chi(t) = \sum_{i=1}^{\infty} a_i g_i(t-iT) + w(t)$$

$$G_{T}(f) = \sqrt{T} \cos \left(\frac{\pi f T}{2}\right) \operatorname{vect} \left(\frac{f T}{2}\right)$$

$$S_{N}(\xi) = \frac{N_0}{2} \operatorname{vect}\left(\frac{\xi T}{8}\right)$$

Si determini:

- 1) l'espressione in frequente del fietro in ricetione Gra(4) in moolo che a) Non Vision (SI (Interferente Inter Simholica)

  - 6) Si obbia le mossimo SNR m' usuro de fletro
- 2) & colodi la Probabilità di evrore se  $\lambda = -1$

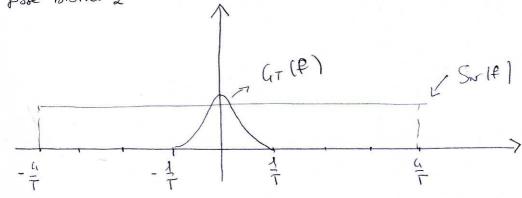
$$\chi(t) = \begin{cases} Q_{\tau}(t-i\tau) + W(t) \end{cases}$$

$$G_{\tau}(\varphi) = J\tau \cos\left(\frac{\pi \varphi}{2}\tau\right) \text{ west } \left(\frac{\varphi}{2}\tau\right)$$

$$ZF(t)$$
 . Coussions con  $S_W(t) = \frac{N_0}{2}$  rect  $\left(\frac{2T}{8}\right) = \frac{N_0}{2}$  rect  $\left(\frac{2}{8}\right)$ 

$$\rightarrow$$
 P(e) se  $\lambda = -1$ 

2/ rumore e-bionco reilo bonole de segnole quinoli c'come se Esse bionce?



come se fisse bionur Jopunioli. 16. fietro ottimo e onche 18. (t) e rede e pri onche 9. (t) e rede e pri onche 9. (t) e rede e pri onche 9. (t) e

$$\frac{2(t)}{c} = \frac{2}{c} a_{i} g(t-iT) + n(t)$$

$$g(t) = g_{\tau}(t) \otimes g_{\tau}(t)$$

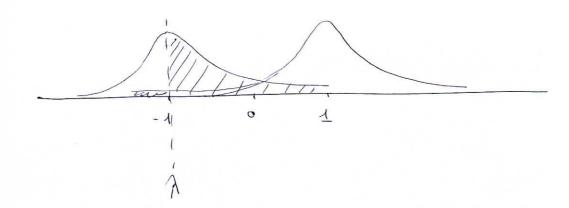
$$G(f) = \frac{1}{2} \left( 1 + \omega S(\pi f T) \right)$$
 rect  $\left( \frac{\rho T}{1} \right)$  cose no riserto

$$g(kT) = \begin{cases} g(o) = 1 & per k=0 \\ 0 & per k\neq 0 \end{cases}$$

$$S_n(\xi) = S_w(\xi) |G_T(\xi)|^2 = \frac{N_0 |G_T(\xi)|^2}{2}$$

$$\frac{2}{G_n} = \frac{N_0}{2} \left( \left| G_T(\beta) \right|^2 d\beta = \frac{N_0}{2} g(0) = \frac{N_0}{2}$$

All'usuta del compronotore



$$Pr_{2-1+nr} > \lambda | ar = -1$$
 = Q(0)

$$\Pr\left\{1+n\kappa < \lambda \mid \alpha_{1}\kappa=1\right\} = Q\left(\frac{1-\lambda}{\delta_{n}}\right) = Q\left(\frac{2}{\delta_{n}}\right)$$