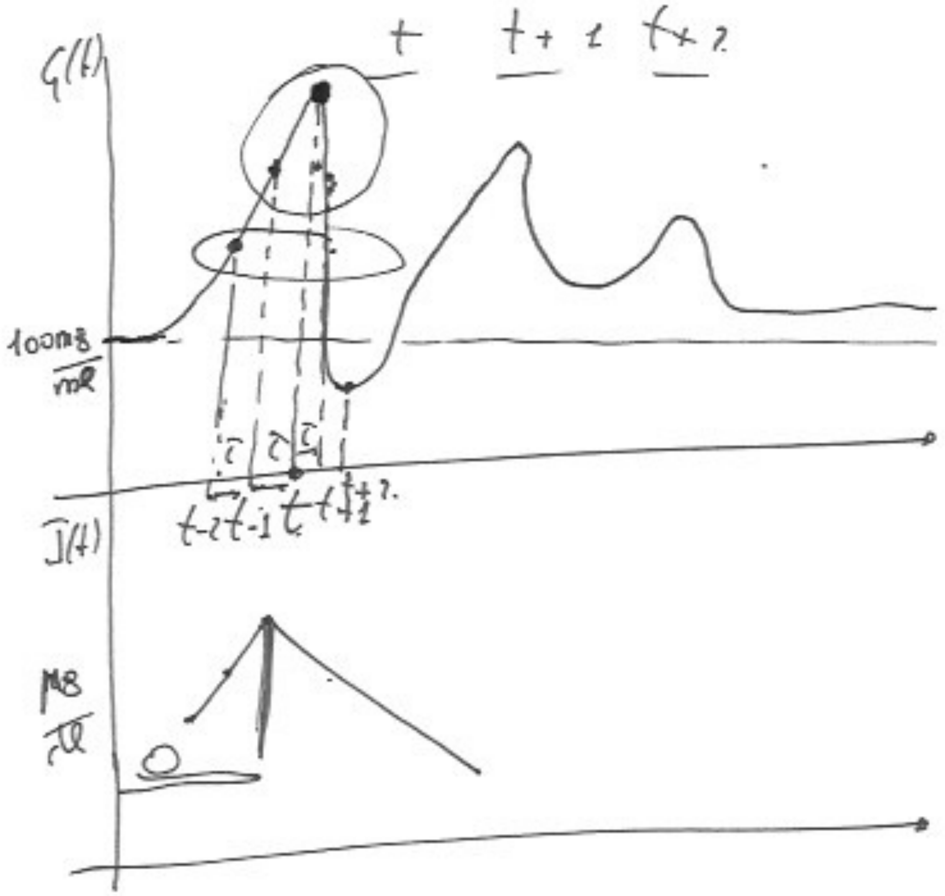


Fishes

Fisher $I(t) = a_0 + a_1 (G(t) - BI) + a_2 \frac{dG}{dt}$

$$
\begin{cases}
I(t) = a_0 + a_1 \left(G(t) - BI \right) + a_2 \dfrac{G(t) - G(t-1)}{\tau} \\
I(t-1) = a_0 + a_1 \left(G(t-1) - BI \right) + a_2 \dfrac{G(t-1) - G(t-2)}{\tau} \\
I(t-2) = a_0 + a_1 \left(G(t-2) - BI \right) + a_2 \dfrac{G(t-2) - G(t-3)}{\tau}
\end{cases}
$$

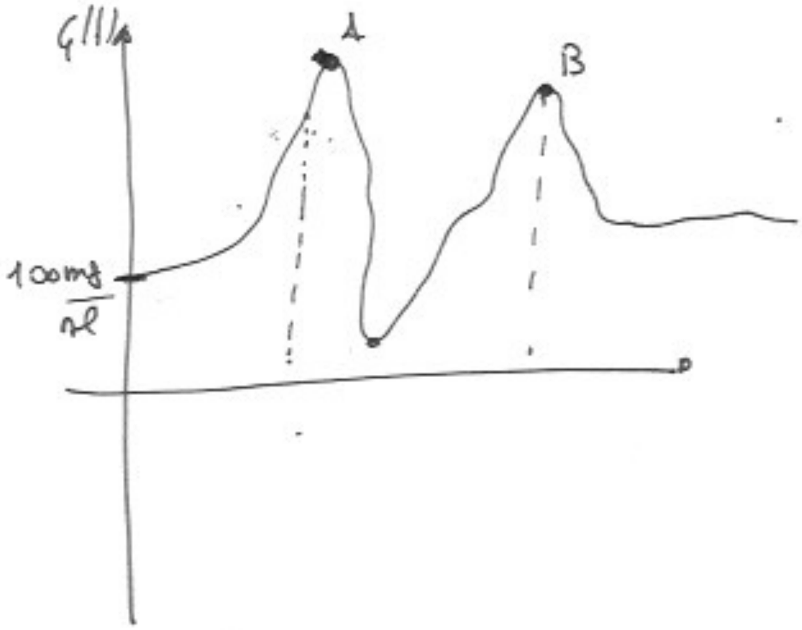
$I(t) = I_{max}$ $\qquad$ $\tau = 15\ min$

$I(t-1) = I_{max} - \frac{1}{4} I_{max} = \frac{3}{4} I_{max}$

$I(t-2) = I_{max} - \frac{1}{4} I_{max} - \frac{1}{4} max = 0.5\, I_{max}$

$a_0, a_1, a_2 > \emptyset$

Clemens ②



$I_R = K \frac{dG(t)}{dt}$ dinamica

$J_n(t) = RI\left[1 + \frac{G(t) - BI}{QI}\right]^{2}$? statica $\quad K > 0$

$K > \phi$

$100 \frac{mg}{dl} = K_1 \frac{G_A(t) - G_A^{min}(t-1)}{\tau}$ $\quad K_1 = 1$

$100 \frac{mg}{dl} = K_2 \frac{G_B(t) - G_B^{min}(t-1)}{\tau}$ $\quad K_2 = 1$

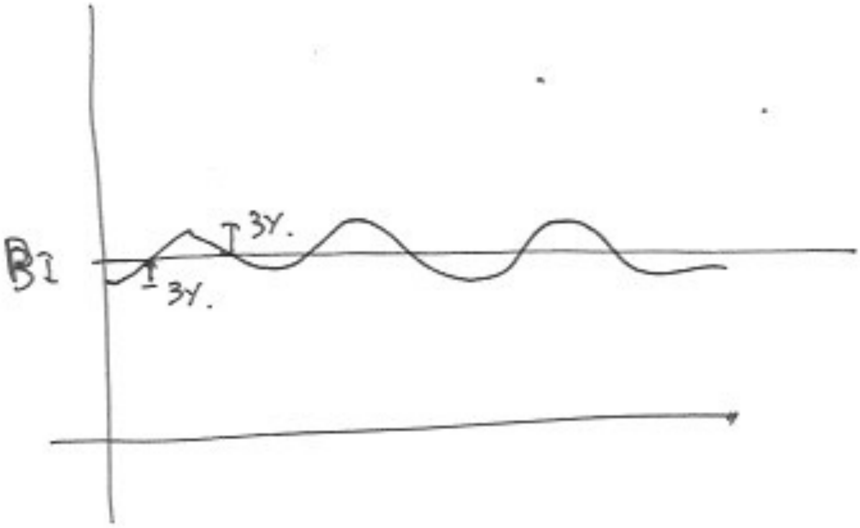
$\boxed{0 < K < 1}$

$\tau = t_{max} - t_{min}$

$K = \max(K_1, K_2)$ → gli diamo insulina maggiore

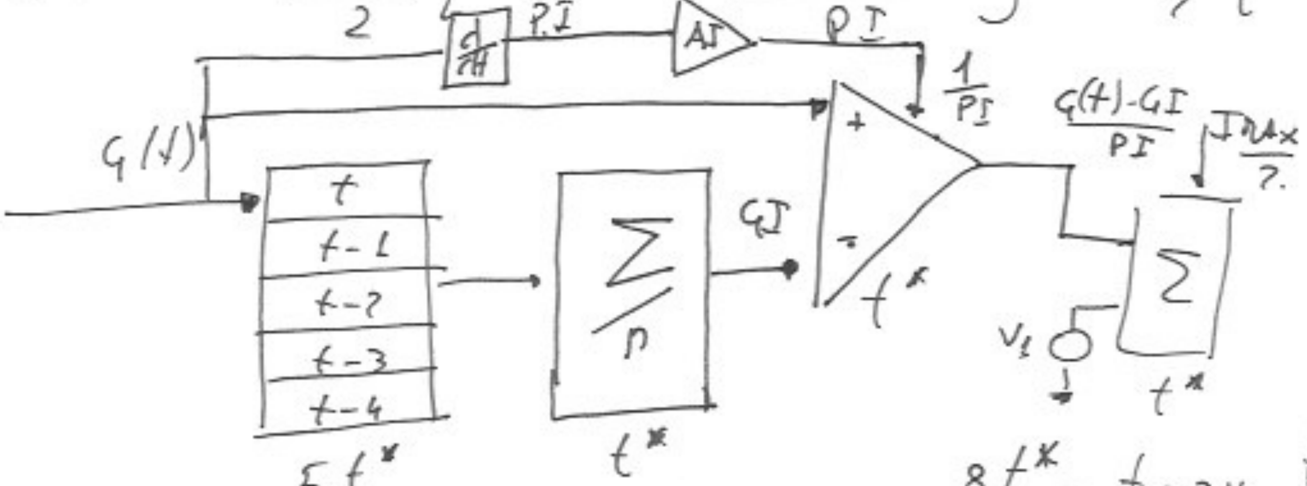
$K = \min(K_1, K_2)$ → gli diamo $J_n \geq \phi$

$\boxed{K = \text{media}(K_1, K_2)}$



Albisser

$$I(t) = \frac{I_{max}}{2}\left[1 + \tanh\frac{G(t) - GI}{PI}\right] \simeq \frac{I_{max}}{2}\left[1 + \frac{G(t) - GI}{PI}\right]$$

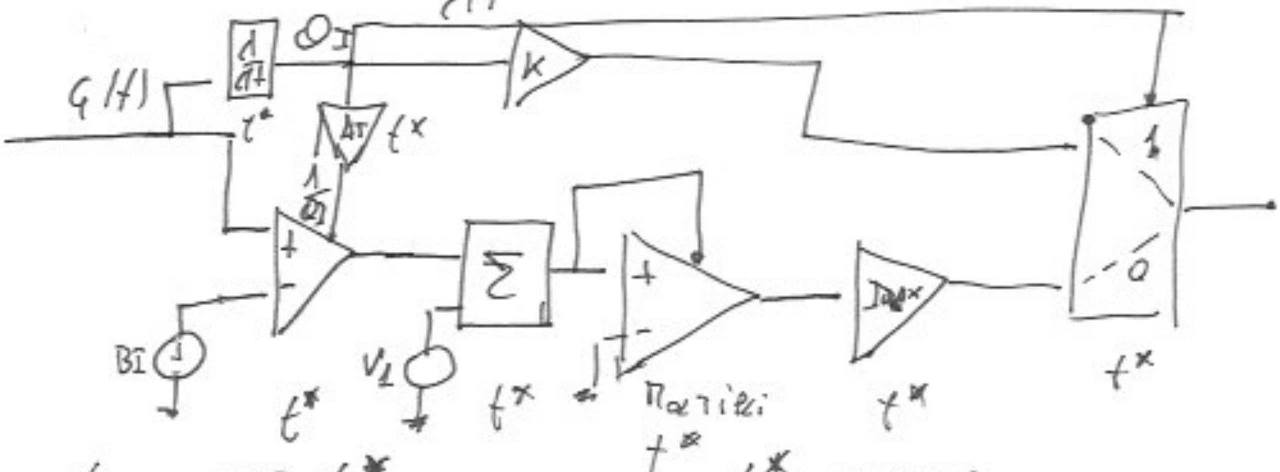


$8t^* = t_{max}$ $\quad t^* = \frac{0.4ms}{8}$

Clemens

$$I_R = I_{max}\left[1 + \frac{G(t) - BI}{QI}\right] ?$$

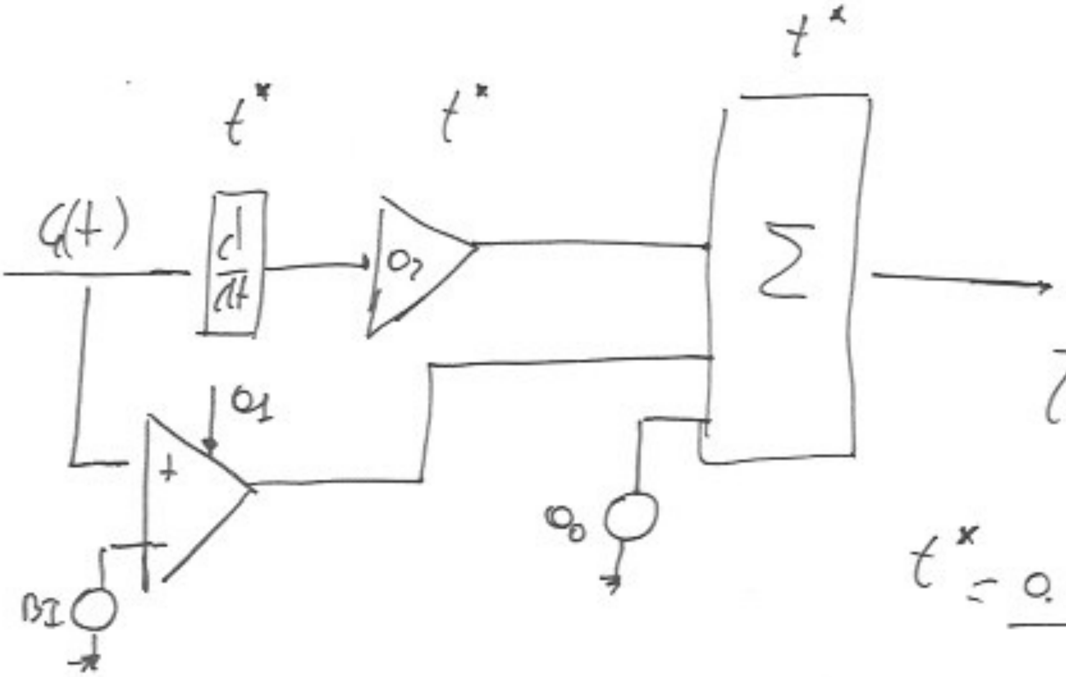
$$I_R = K\frac{dG(t)}{dt}$$



$t_{max} = 7t^*$ $\quad t^* = \frac{0.4ms}{7}$

4

$I(t) = a_0 + a_1 (G(t) - BI) + a_2 \frac{dG}{dt}$ $\boxed{\text{fisher}}$



$T_{campo} = 3t^*$

$t^* = \frac{0.4\,ms}{3}$