

Project GANIL: fast variable elimination

N. Dhib

$$N = N_{fast} + N_{slow}$$

no.



change la CI:

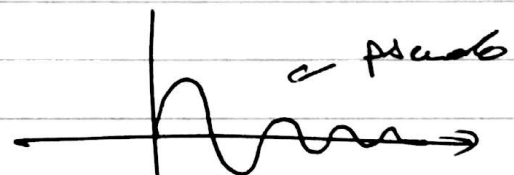
mais input pour:

or

est ce que c'est or à cause de shift?

$\beta > 2w \rightarrow$ apériodique

$\beta \gg w \rightarrow$

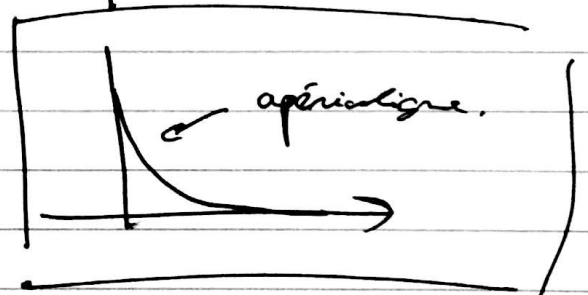


$$\beta \gg w$$

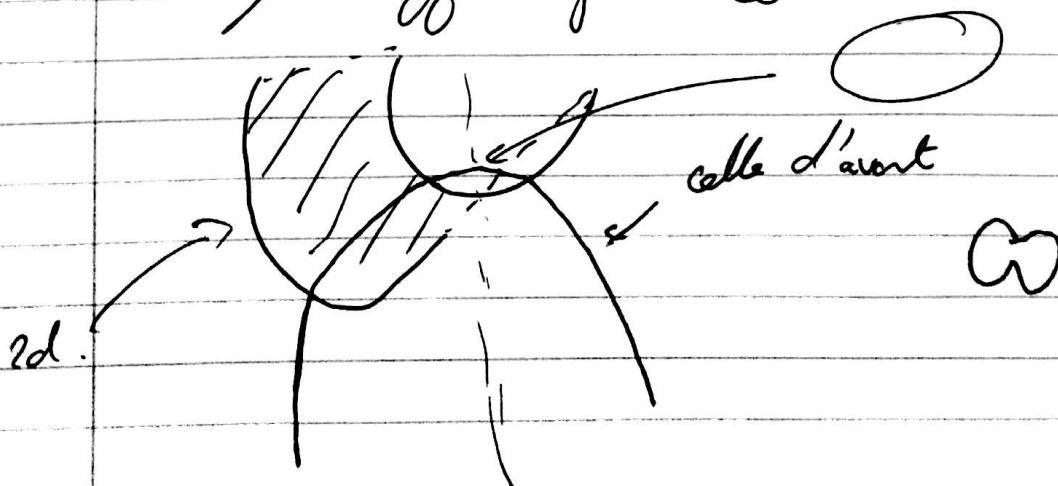
Schrodinger

$$u/g + u\beta/g + u w/g = r(t)$$

no



\Rightarrow éga diff après cor:



\Rightarrow 2 équa diff couplés

\rightarrow barrière : $\ddot{q}_2 + \beta_2 \dot{q}_2 + \beta_{21} \dot{q}_1 - \omega_2^2 q_2 = x_2(t)$

\rightarrow puit : $\ddot{q}_1 + \beta_1 \dot{q}_1 + \beta_{12} \dot{q}_2 - \omega_1^2 q_1 = x_1(t)$

On prend : $\gamma = \frac{\omega}{\Omega}$

$\gamma \beta_2 = \sqrt{\beta_1} \quad \gamma > 1$

$\gamma \beta_{12} = \beta_{21} = \frac{\gamma}{\beta_1}$

$\Rightarrow [\beta] = \begin{pmatrix} \beta_1 & \gamma \beta \\ \gamma \beta & \beta_2 \end{pmatrix}$ $\gamma < 1$ avec $\beta_{12}^2 < \beta_1 \beta_2$

Random force : $r_1 r_2 = 2\beta_1 S(t)$
 $= 2\beta_1 T S(t)$