

Equations de Föppl-Von Karman

$$\rho \frac{\partial^2 \zeta}{\partial t^2} = \underbrace{-\frac{Eh^2}{12(1-\sigma^2)} \Delta^2 \zeta}_{\text{bending}} + \underbrace{\{\zeta, \chi\}}_{\text{stretching}} \quad (1)$$

$$\frac{1}{E} \Delta^2 \chi = -\frac{1}{2} \{\zeta, \zeta\} \quad (2)$$

Prédictions de la WTT

Régime stationnaire :

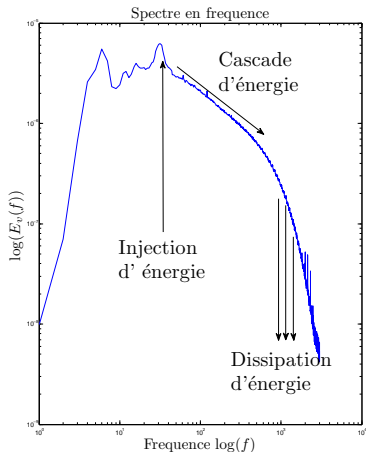
- Mouvement composé de paquets d'ondes
- Spectre $E_v(f) \propto P^{1/3} f^0 \ln(f/f^*)$

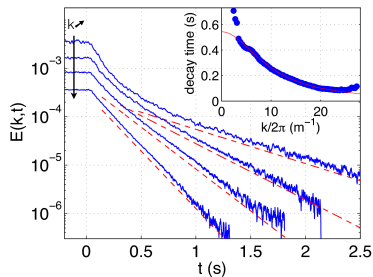
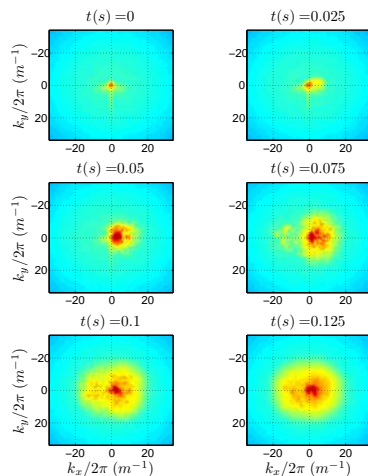
Ondes

$$\omega = ck^2$$

Spectre exp.

$$E_v(f) \propto P^{1/2} f^{-2/3} \ln(f/f^*)$$





Observations

- Rôle du forçage
- Résonances 2-2
- Séparation d'échelles

$$t_d > t_{NL}$$

