

Pendule de torsion et frottement interne

Mécanique, cours 7

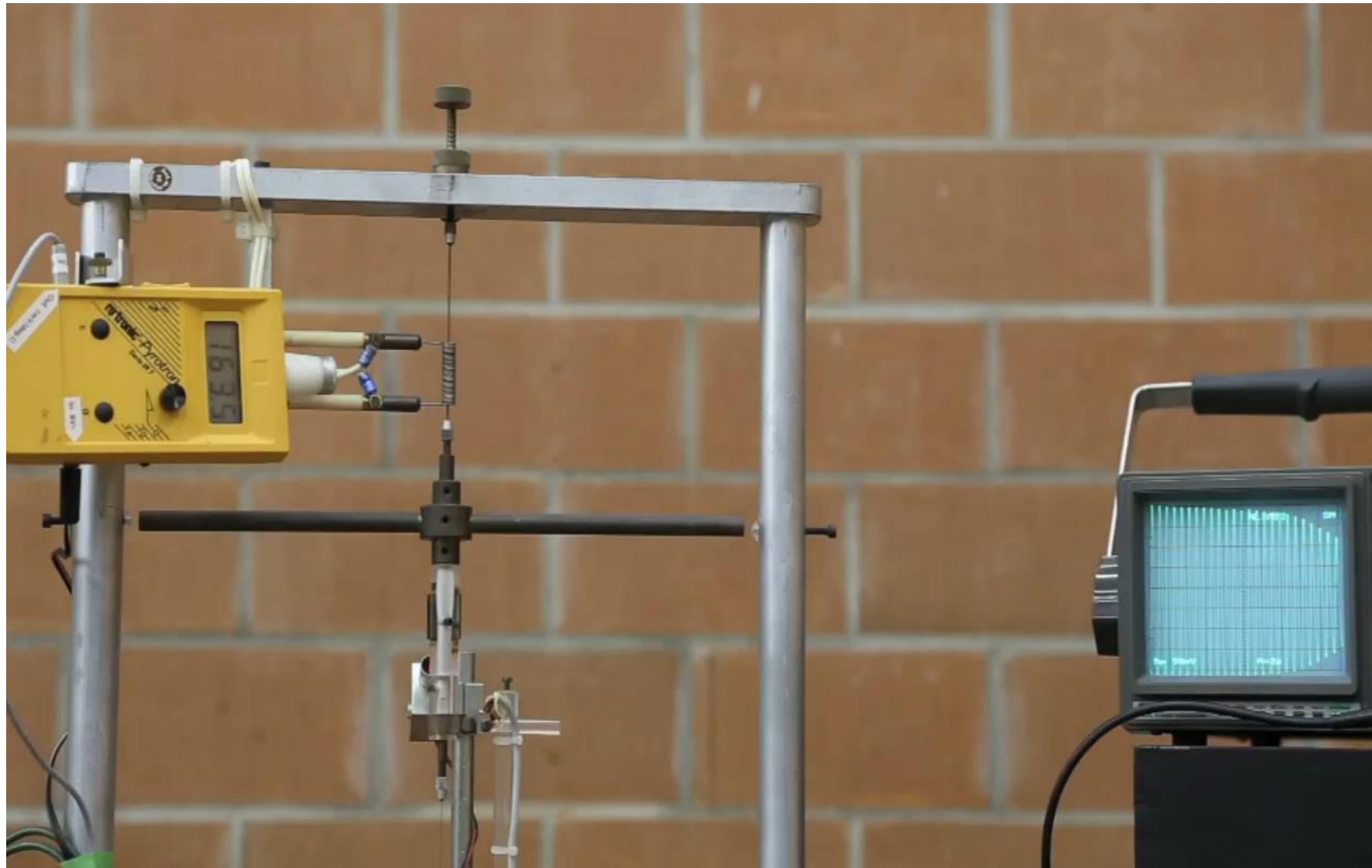
Daniele Mari

Pendule de torsion et frottement interne

Dr. Daniele Mari

Laboratoire de Physique de la Matière
Complexe - EPFL

Pendule de torsion inversé



$$l\ddot{\theta} + b\dot{\theta} + k\theta = 0$$

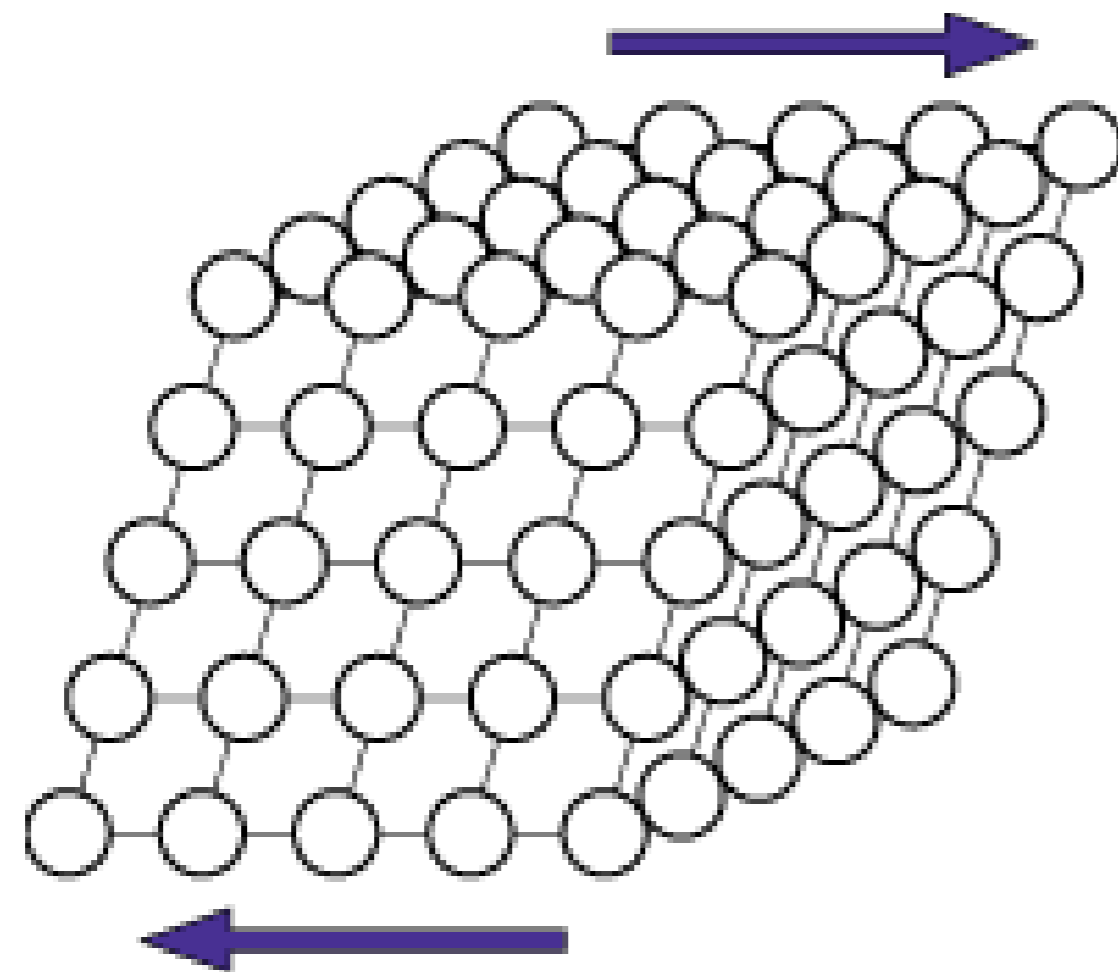
$$\ddot{\theta} + 2\lambda\dot{\theta} + \omega_0^2\theta = 0$$

$$\lambda = \frac{b}{2l} \quad \omega_0^2 = \frac{k}{l}$$

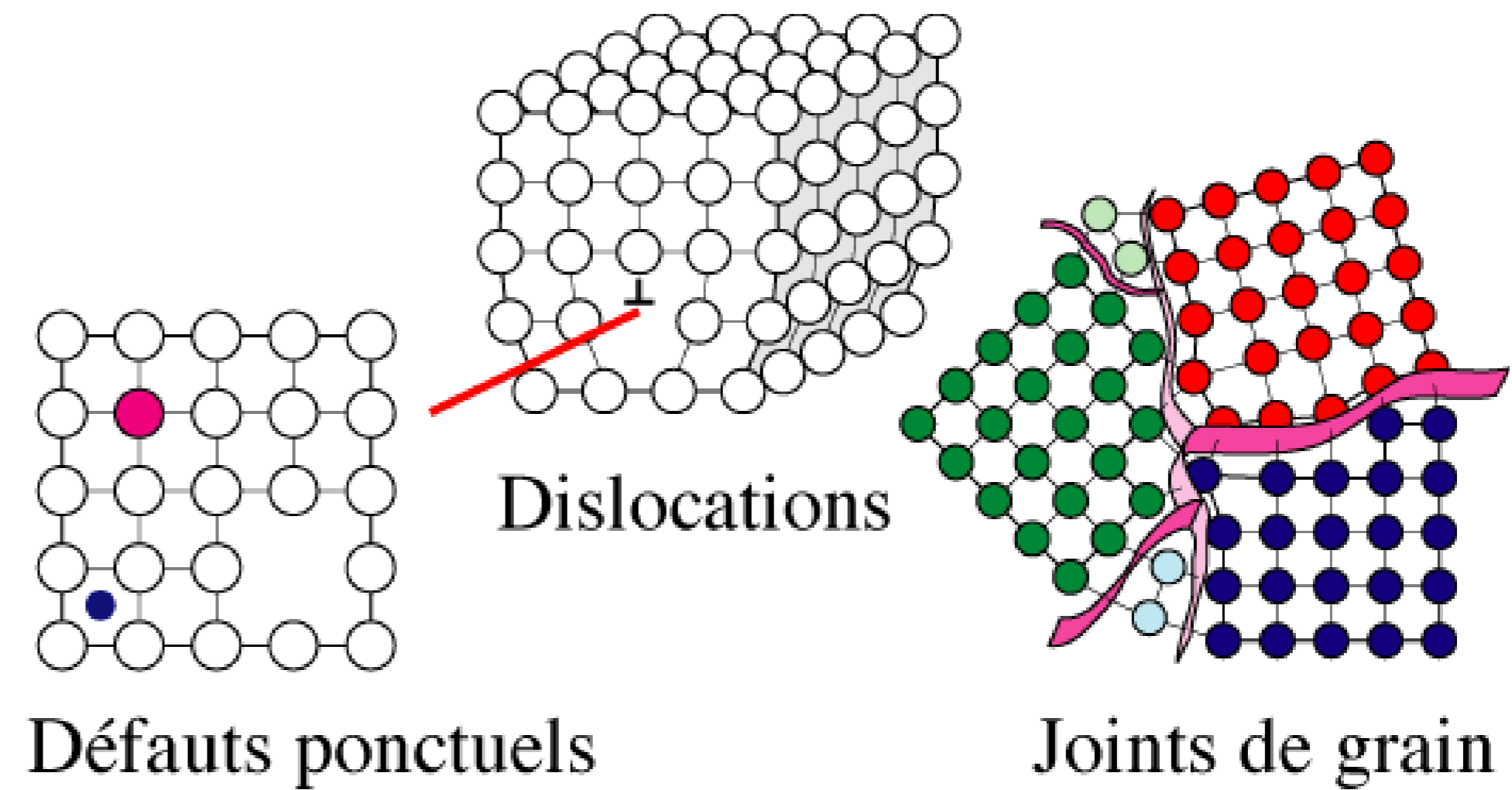


Propriétés mécaniques des cristaux

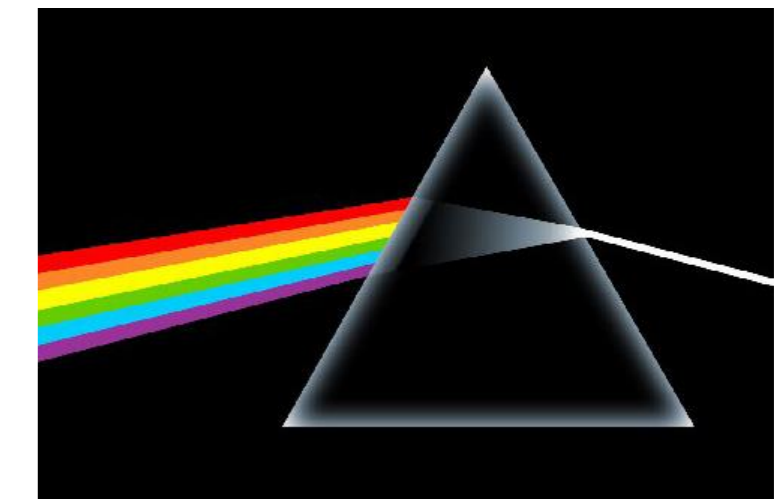
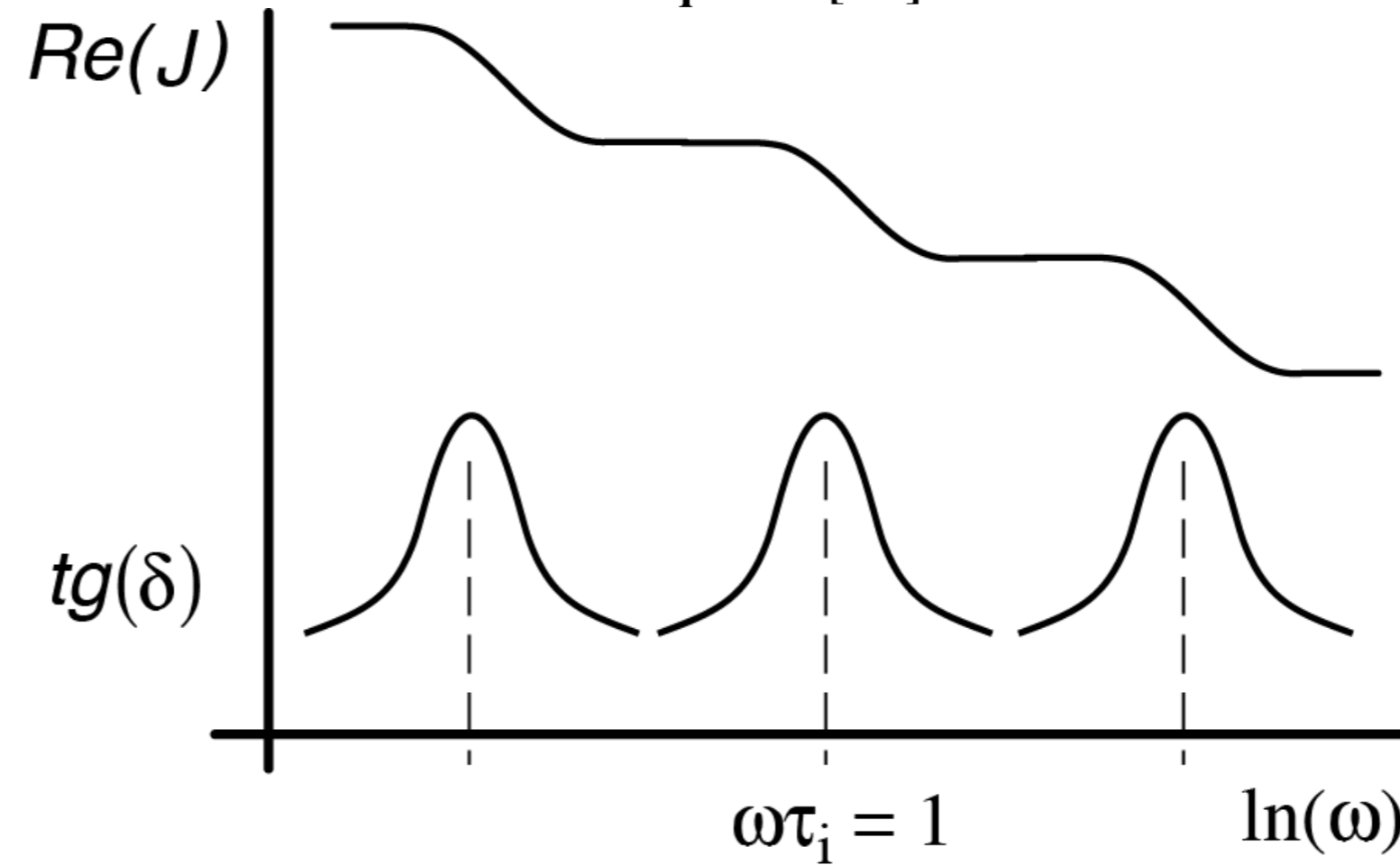
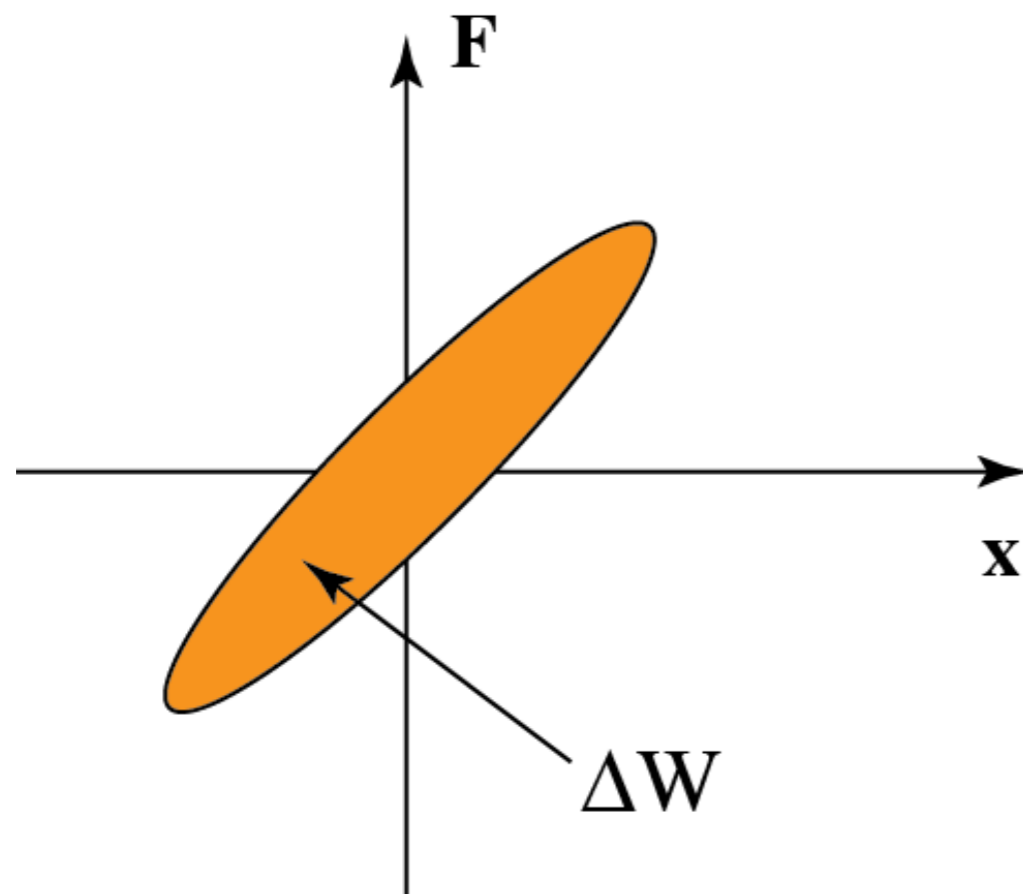
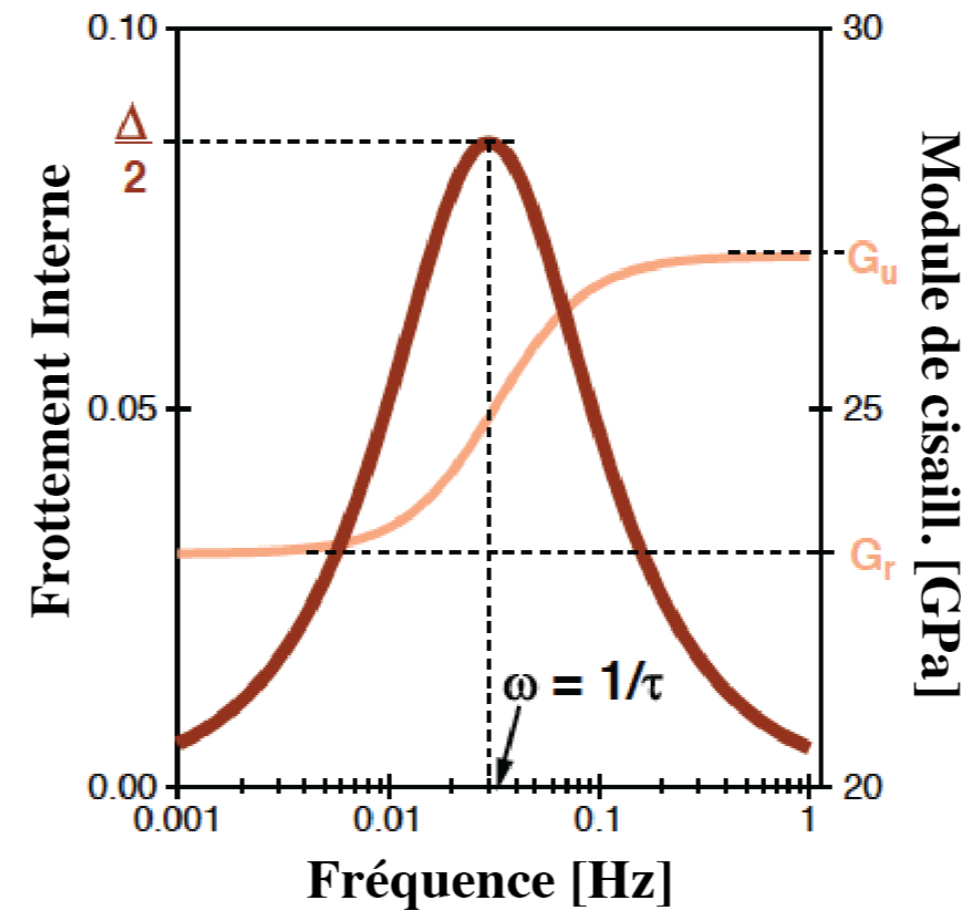
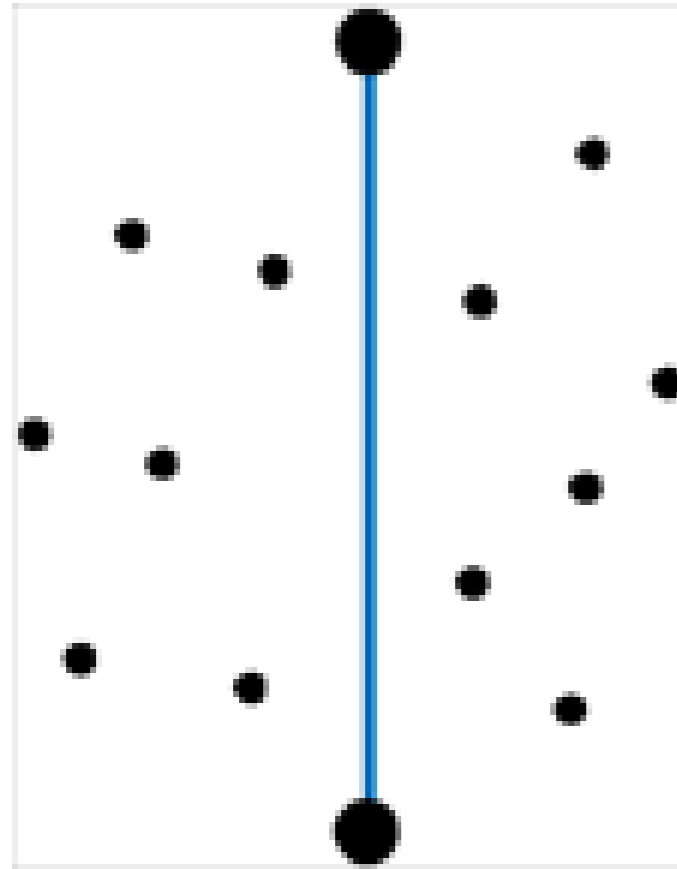
Elasticité
(reversible)



+ défauts



Frottement interne



spectre de frottement interne

Spectre de frottement interne Au-Cu-Pd

