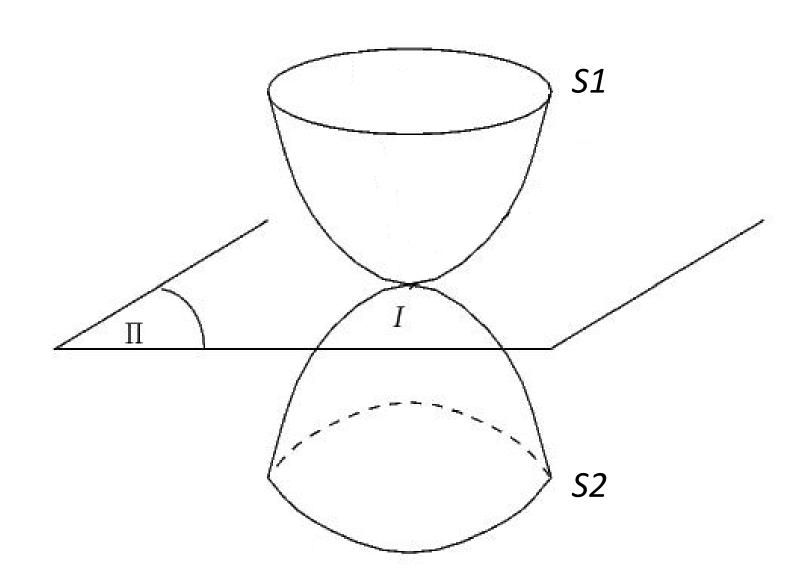
Frottements

Niveau: L1

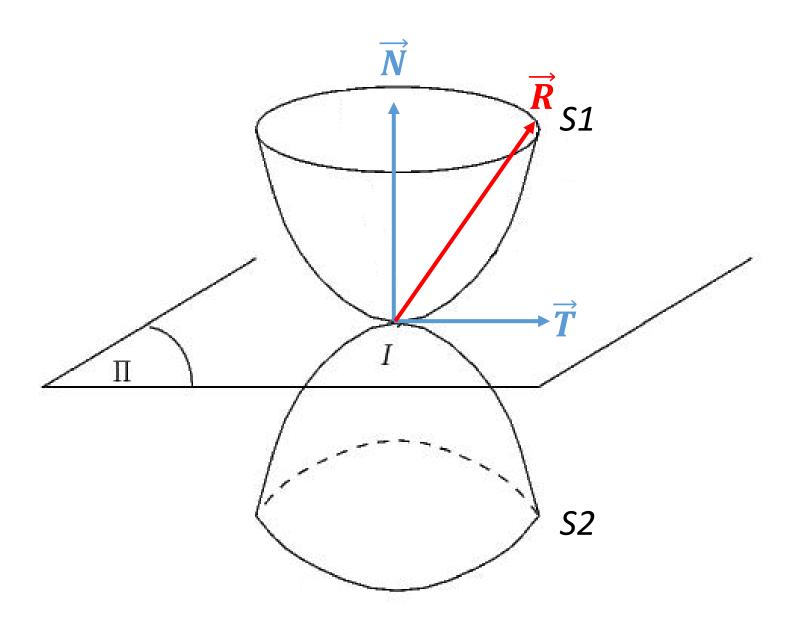
Prérequis:

- Mécanique du point et du solide
- Oscillateurs harmoniques
- Etude d'un signal, transformée de Fourier
- Nombre de Reynolds

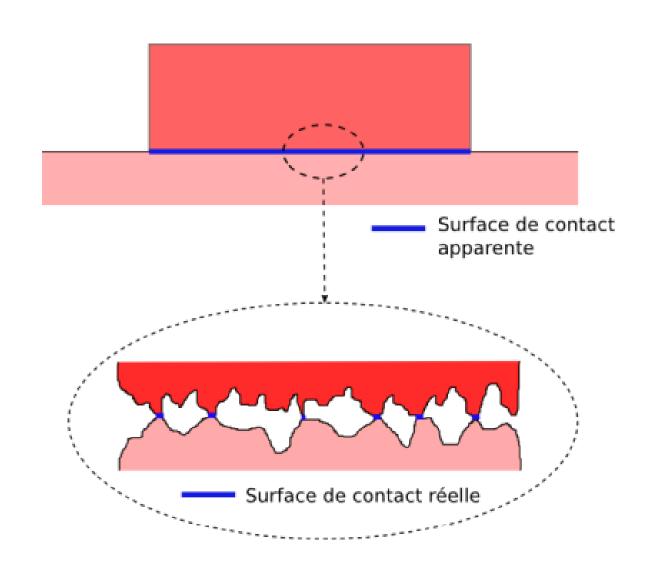
Contact entre deux solides



Contact entre deux solides



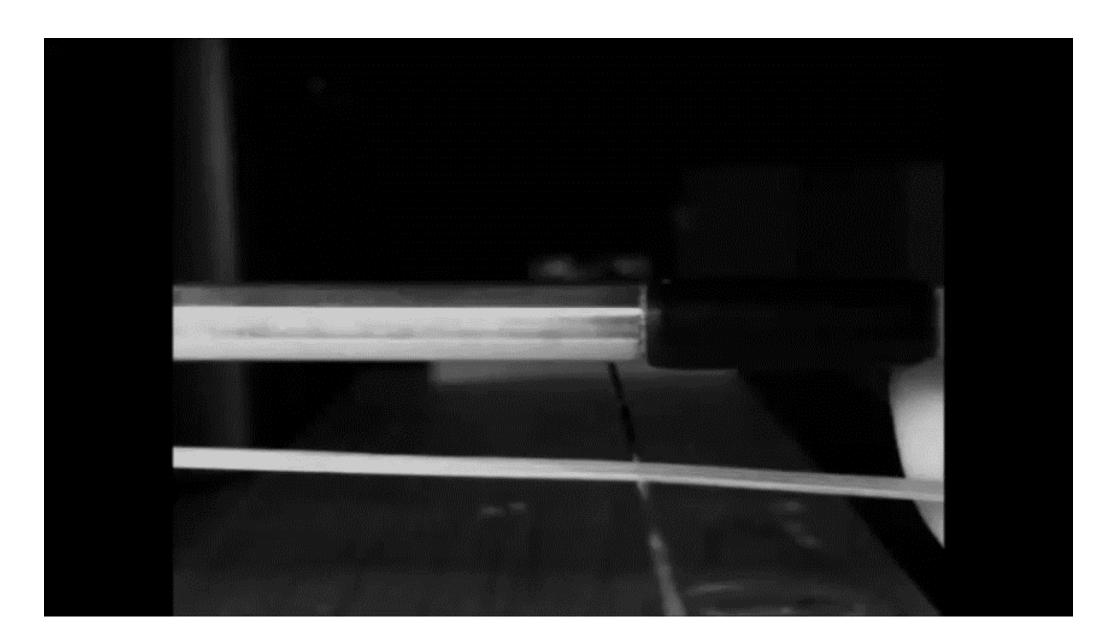
Aspect mésoscopique



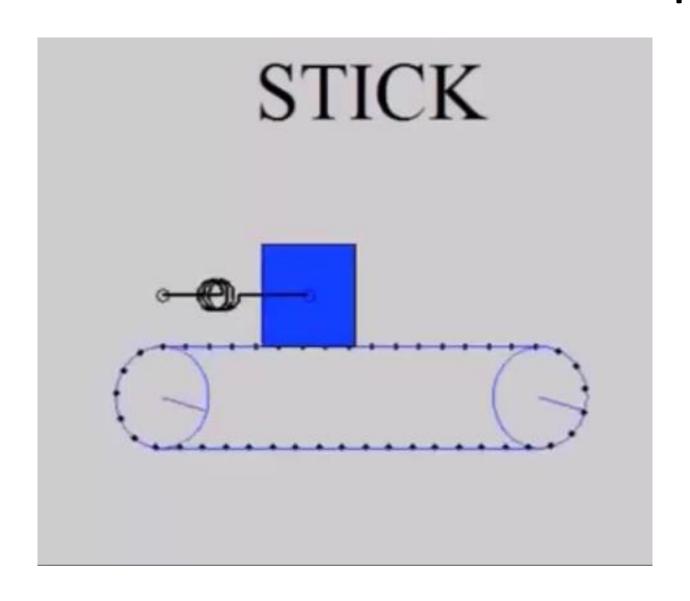
Coefficients de frottement statique et dynamique

	f_s	f
Caoutchouc/Verre	2	
Pneu/ Route sèche	0.9	0.8
Pneu/Route mouillée	0.5	0.35

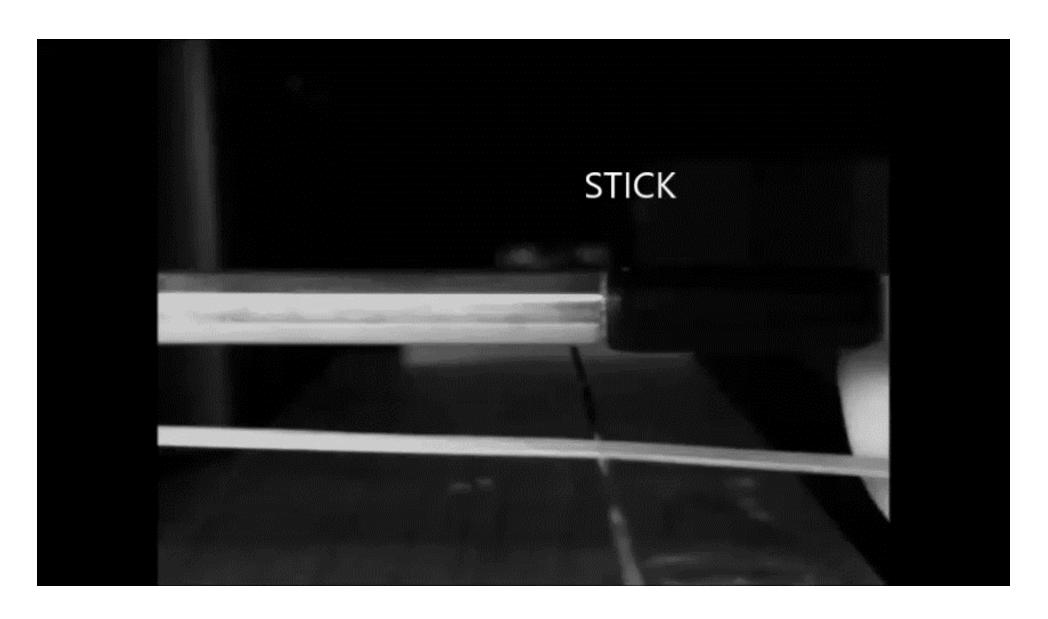
Mouvement d'un archet

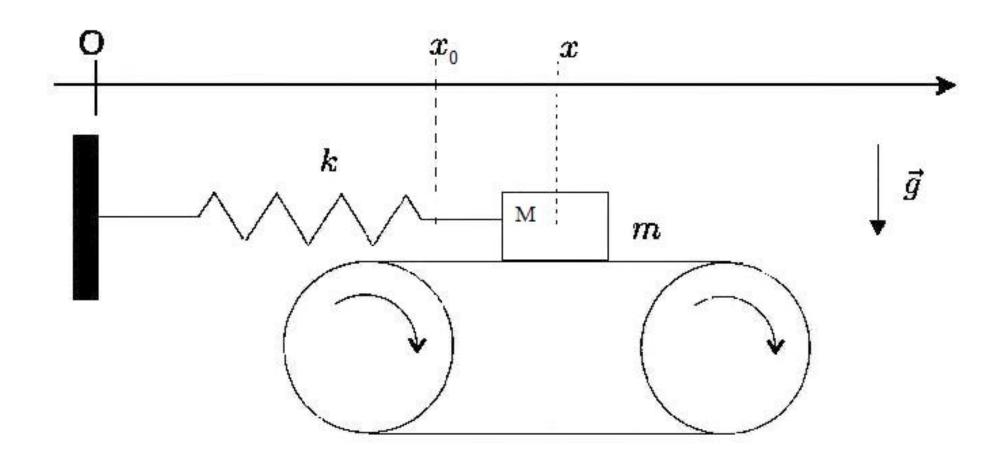


Mouvement de stick & slip

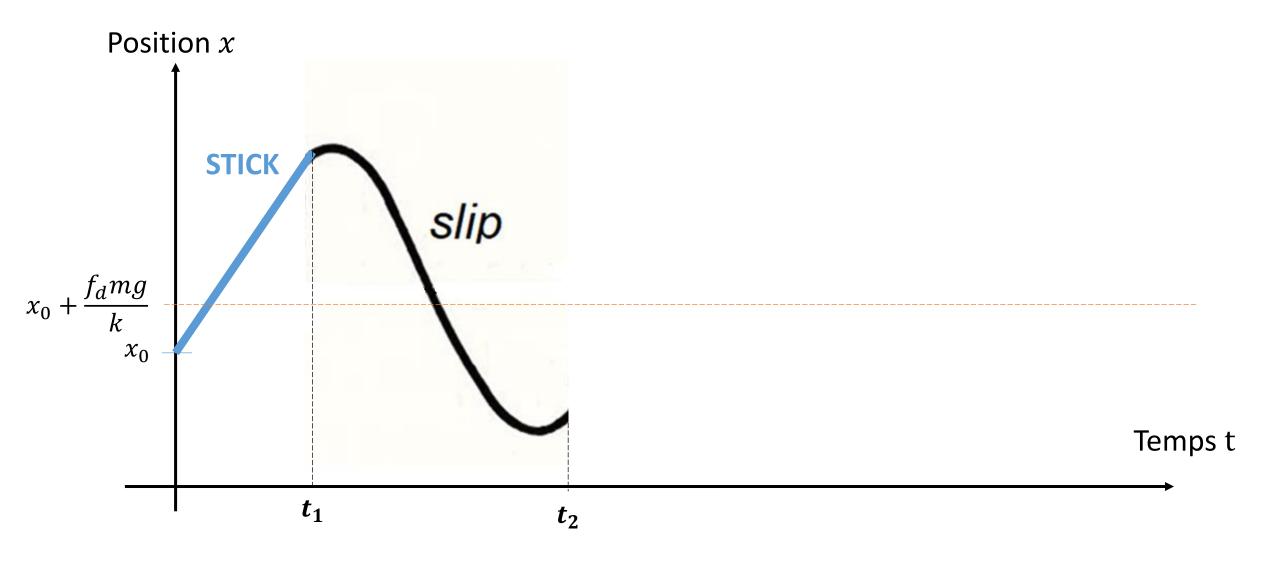


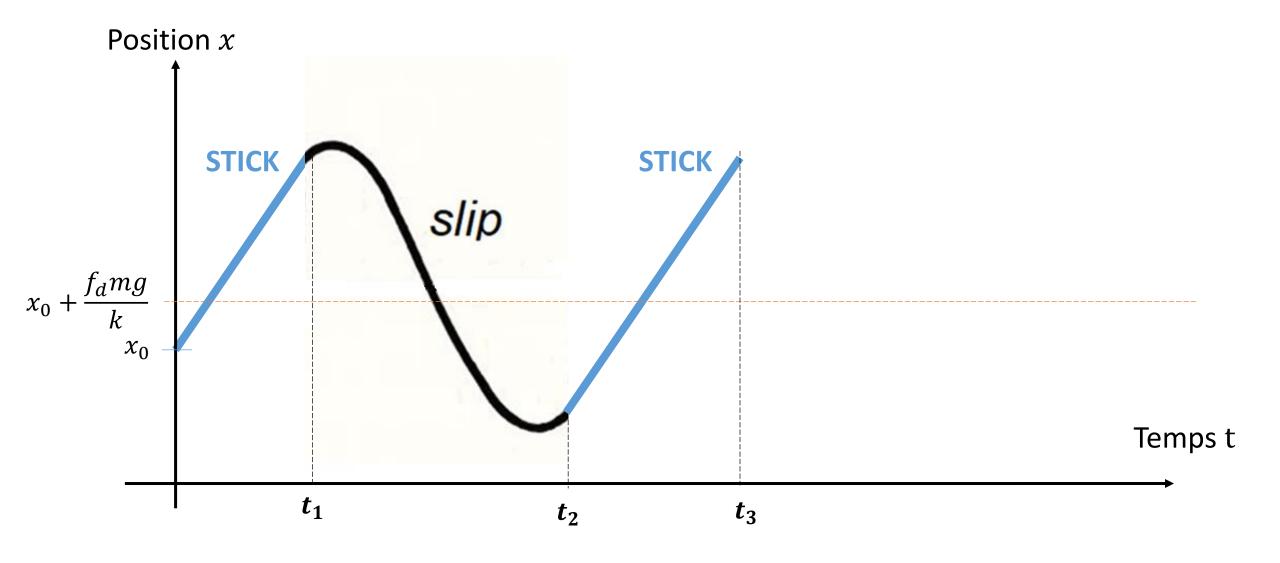
Mouvement d'un archet

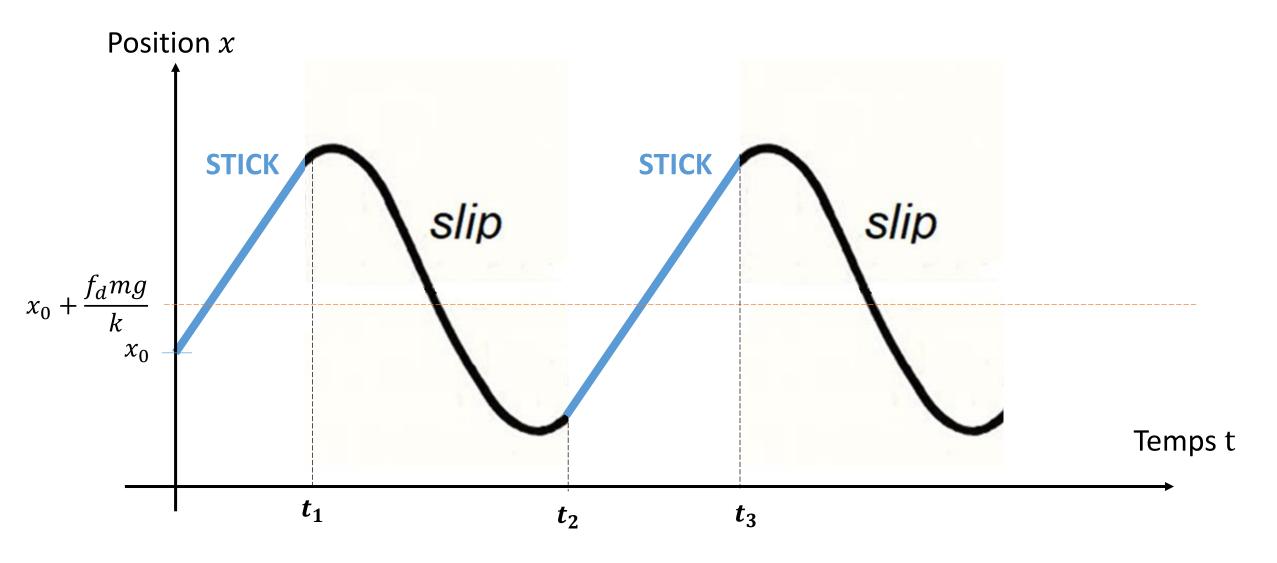




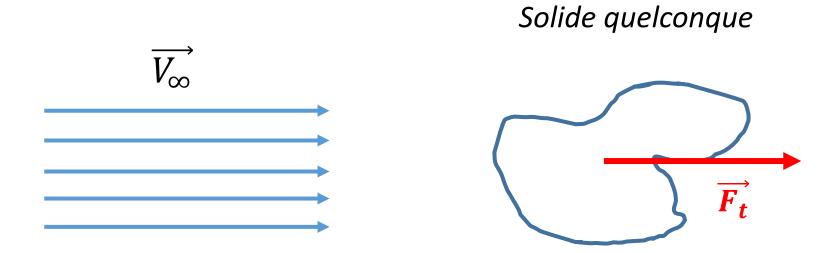




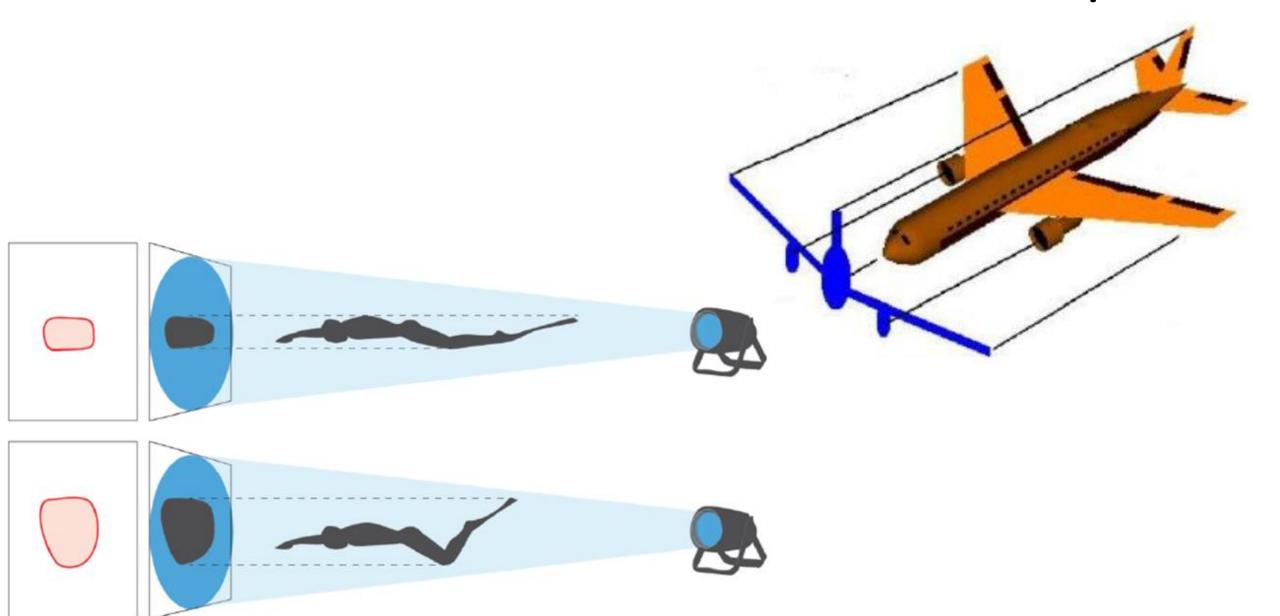




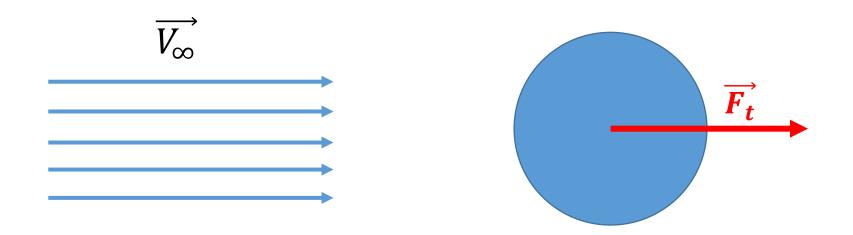
Force de traînée



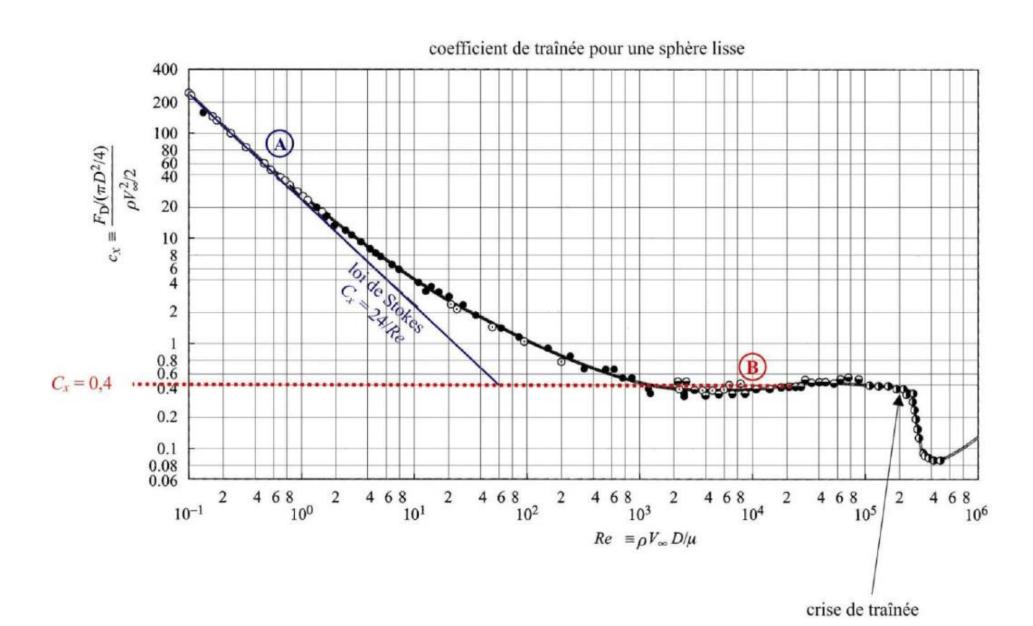
Force de traînée: notion de maître couple



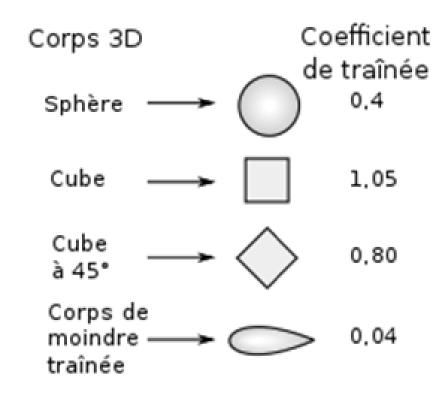
Force de traînée d'une sphère



Evolution du coefficient de traînée avec Re



Coefficients de traînée constants



Coefficients de traînée frontaux