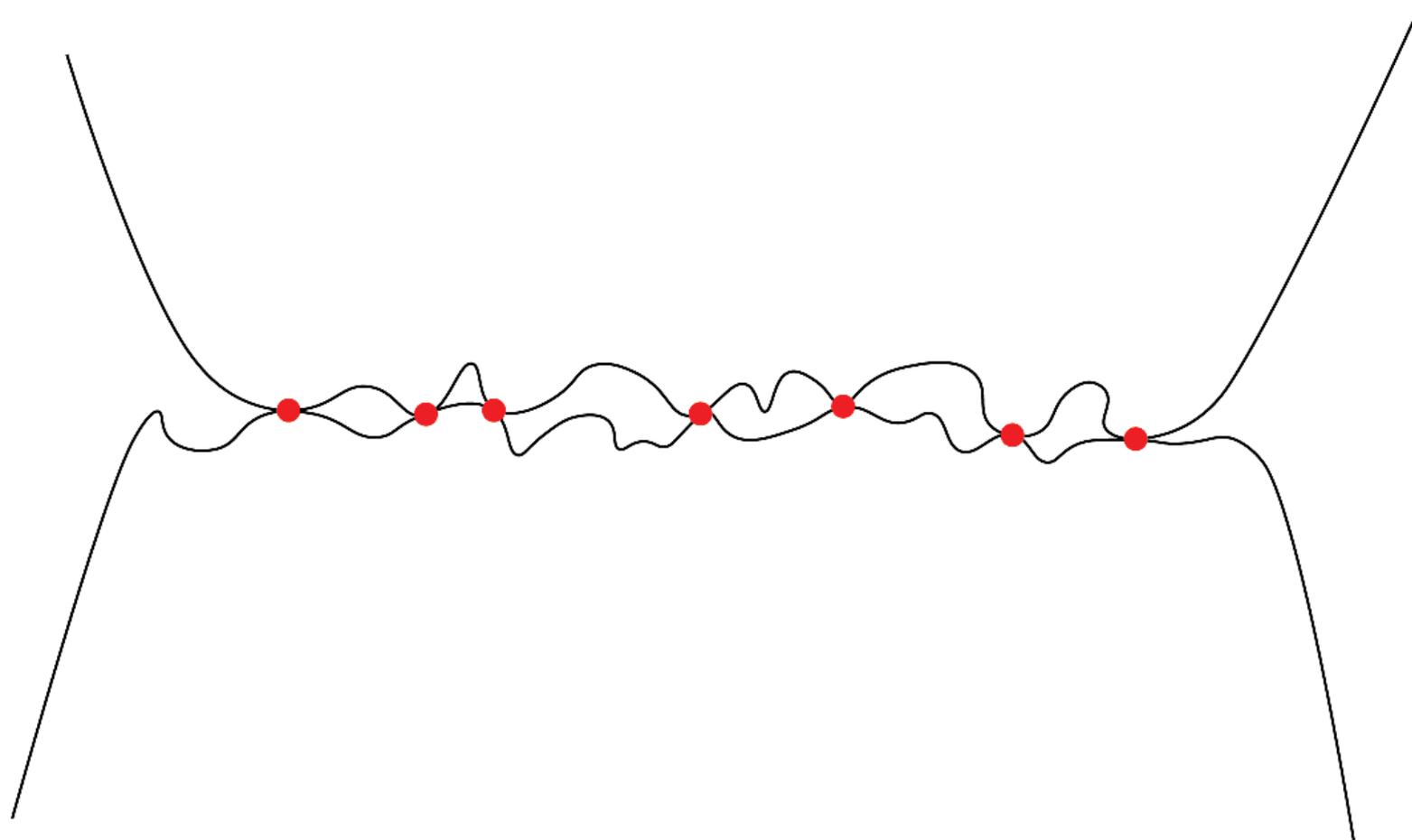


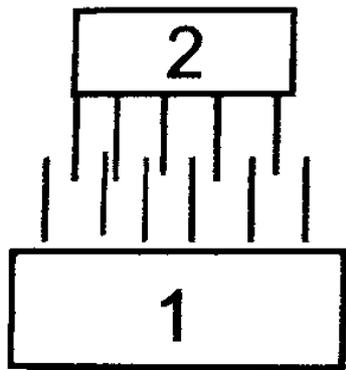
LP 01

Contact entre deux solides.
Frottements.

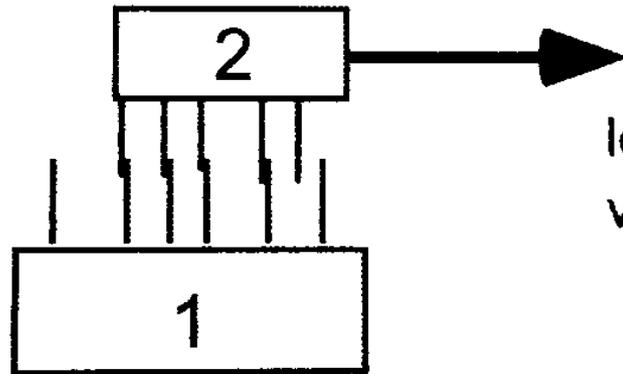
Rugosité et surface de contact



Modèle de la brosse

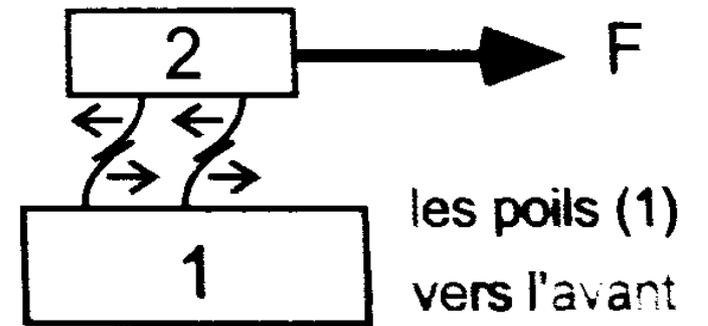


2a - 2 blocs.



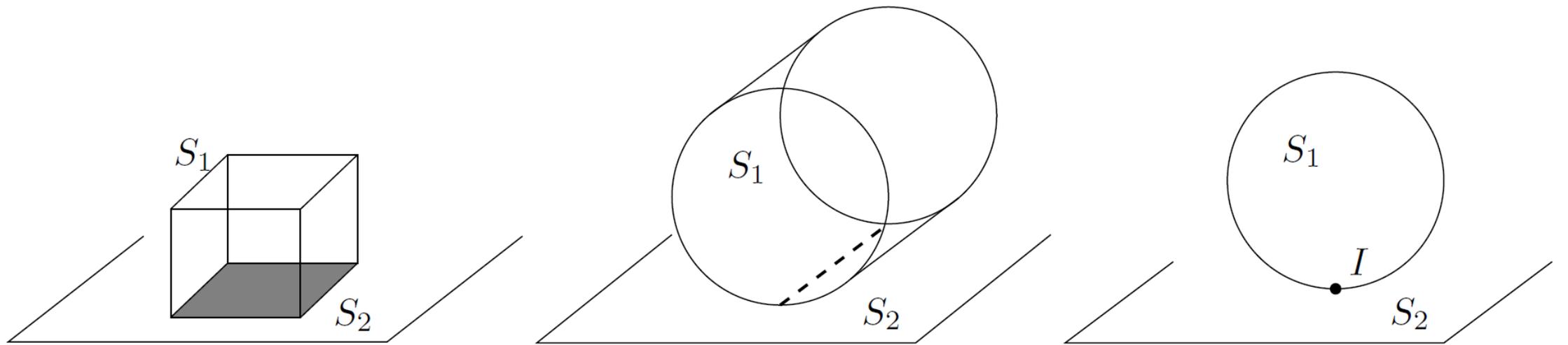
*2b - Mise en contact
des poils.*

les poils (2)
vers
l'arrière

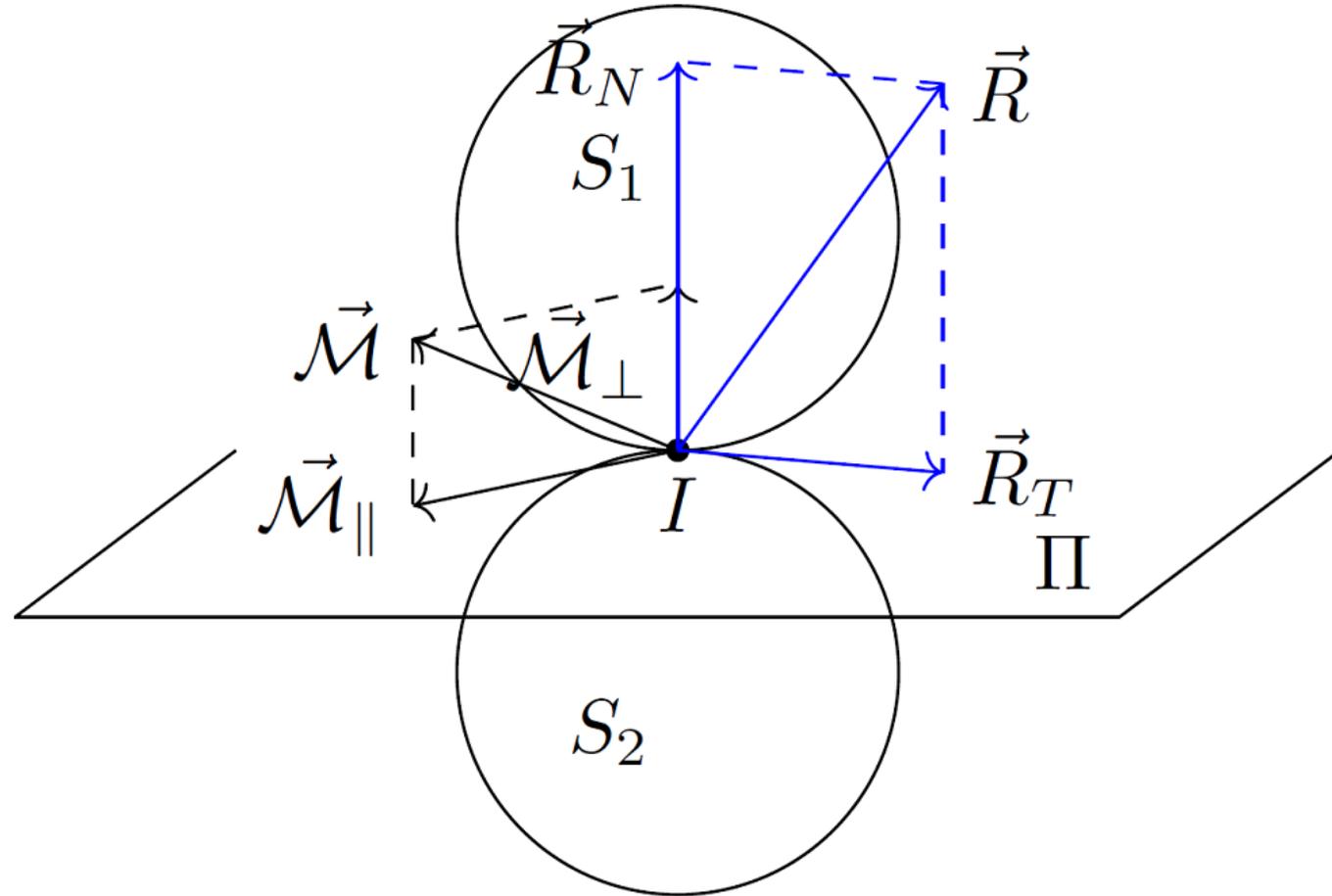


2c - Déformation des poils.

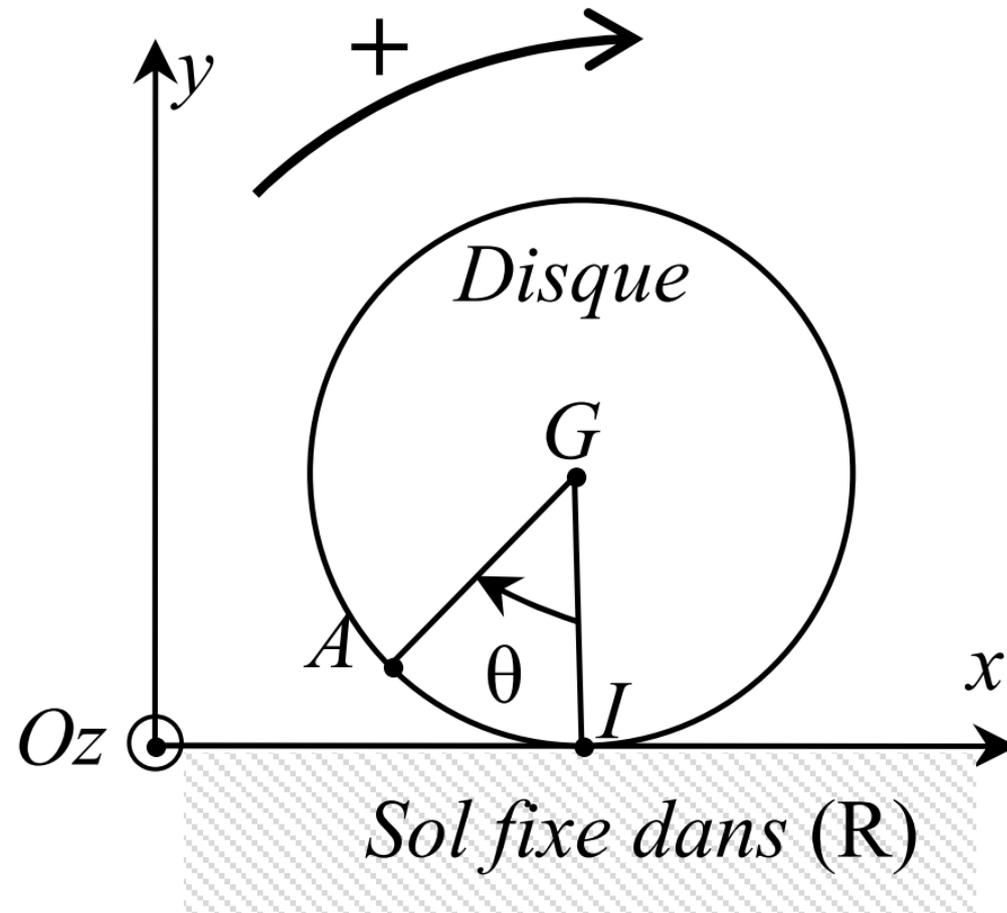
Surface de contact



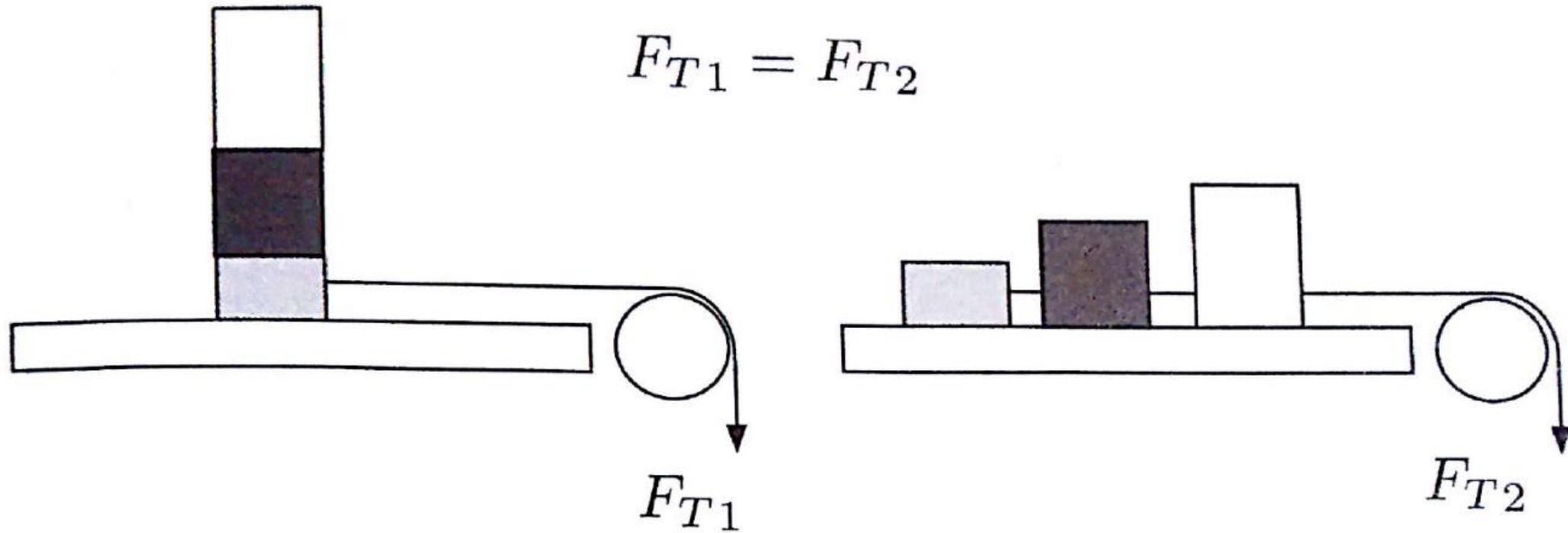
Les actions de contact



Approche cinématique



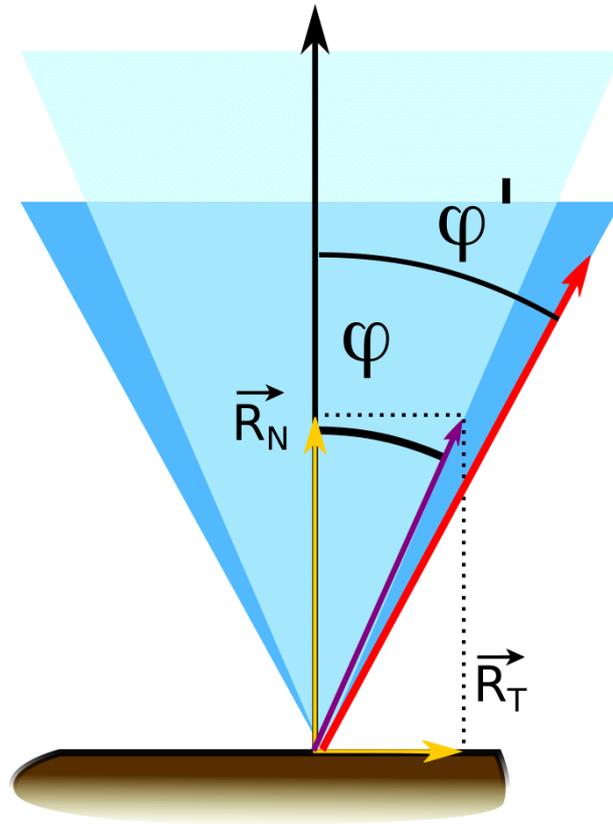
Expérience de De Vinci



Quelques valeurs de coefficients de frottement

Type de contact	f_d	f_s
acier-acier sec	0,6	0,4
acier-acier graissé	0,1	0,05
pneu-chaussée sèche	1	0,7
pneu-chaussée humide	0,7	0,3
bois-bois	0,5	0,3
bois-métal	0,6	0,1
téflon-acier	0,04	0,04

Cône de frottement

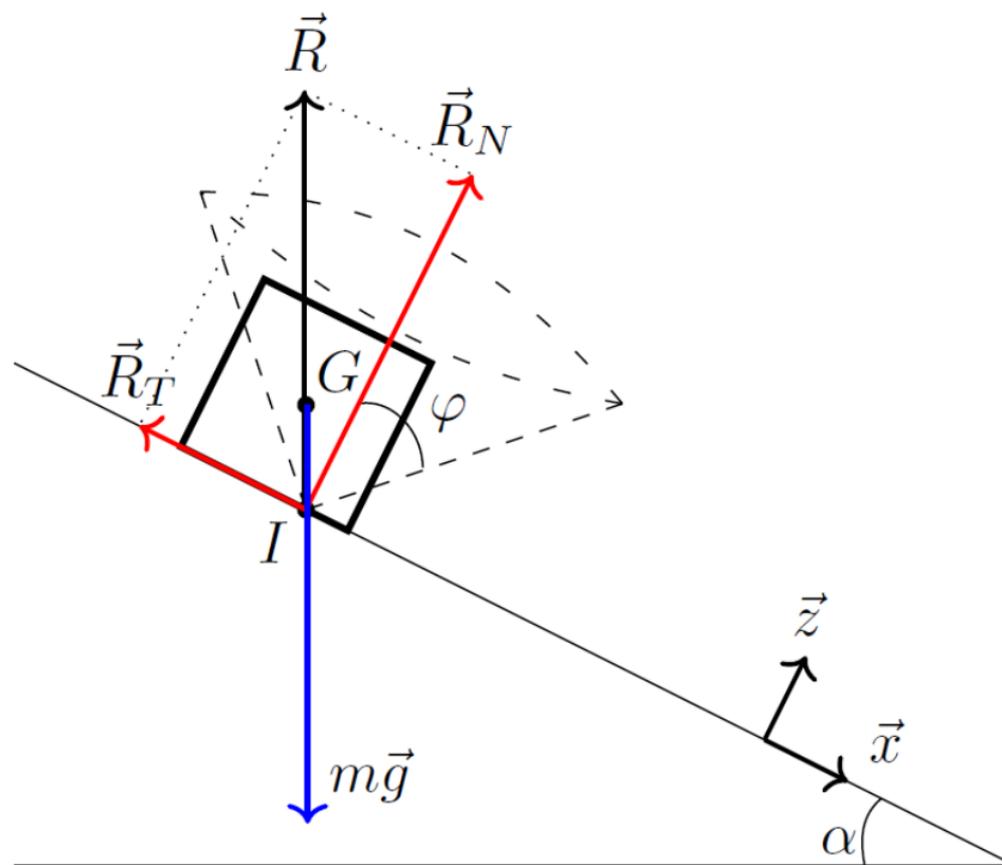


$$\varphi' > \varphi$$

$$f_d = \tan \varphi$$

$$f_s = \tan \varphi'$$

Le plan incliné



Le Stick-Slip (collé glissé)

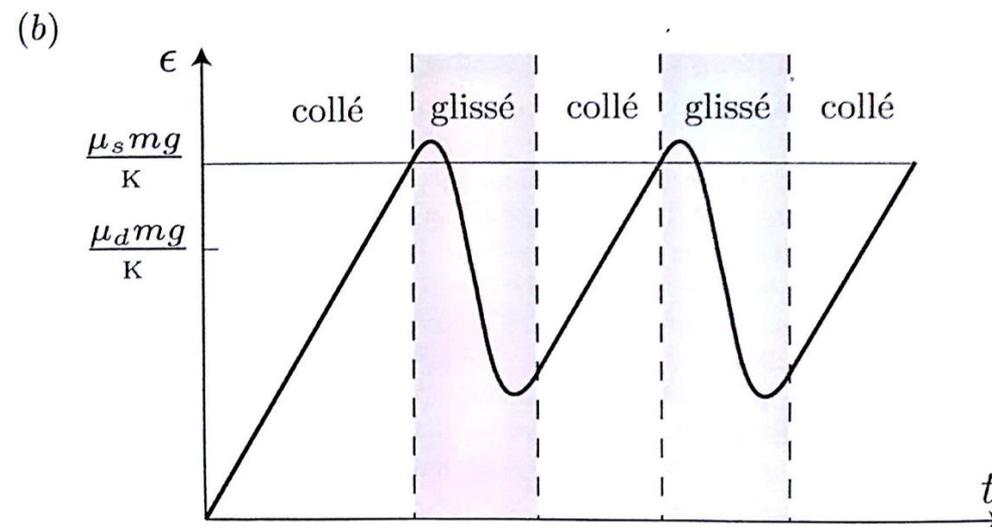
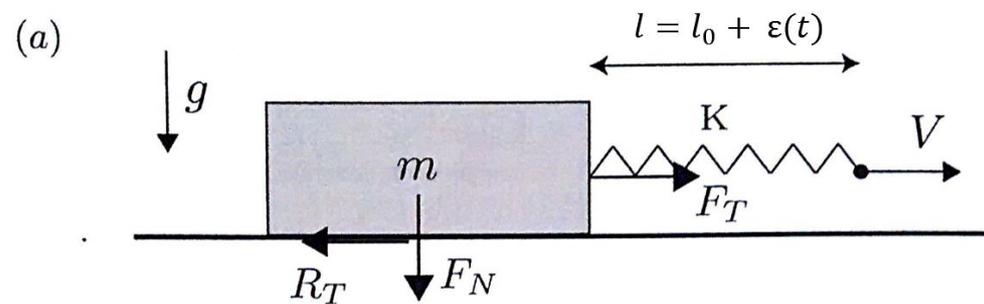


Diagramme de phase du Stick-Slip

