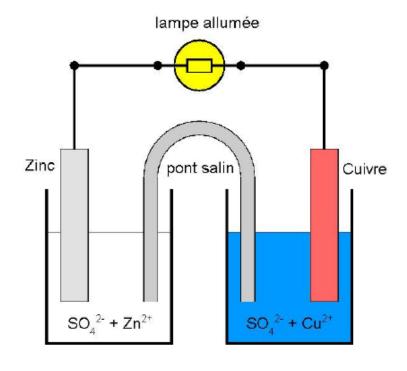
LC 26 : Conversion réciproque d'énergie électrique en énergie chimique

Prérequis: Thermodynamique et cinétique de l'oxydo-réduction

Exemple introductif: pile Daniell

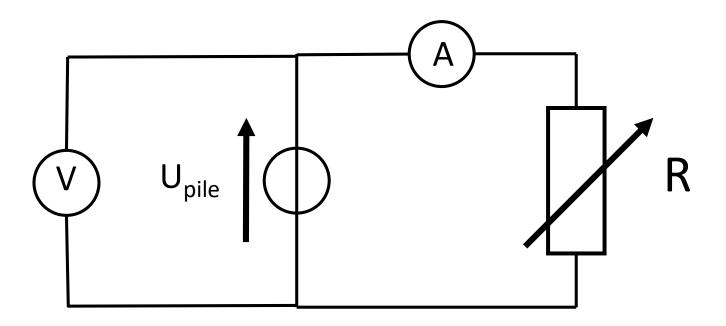
La pile Daniell



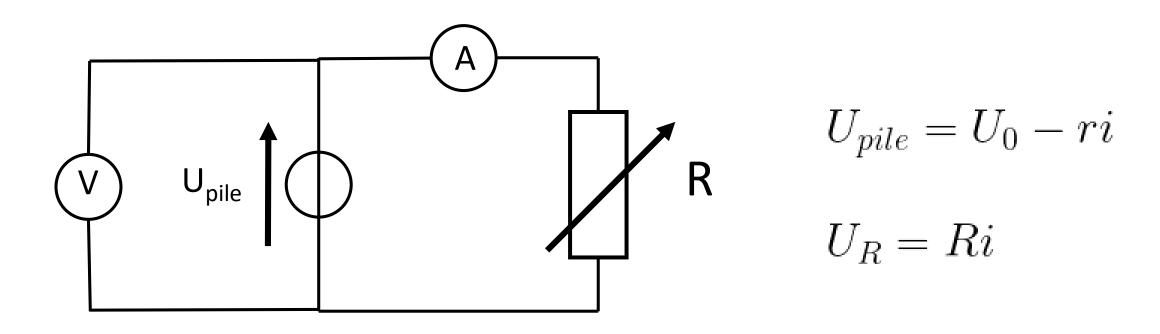
Une demi-réaction redox à chaque électrode : production d'un courant

→ Dans quel sens les électrons traversent-ils la lampe ?

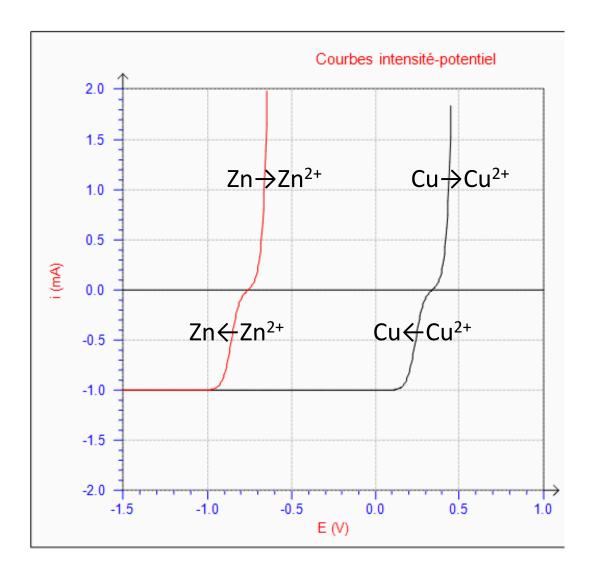
Décharge de la pile

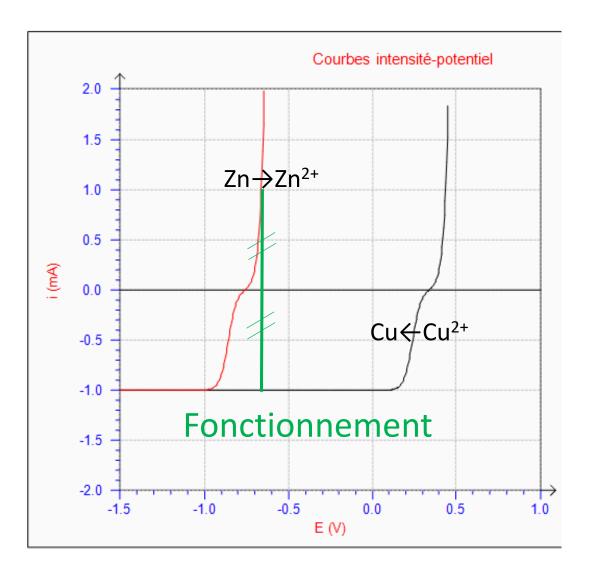


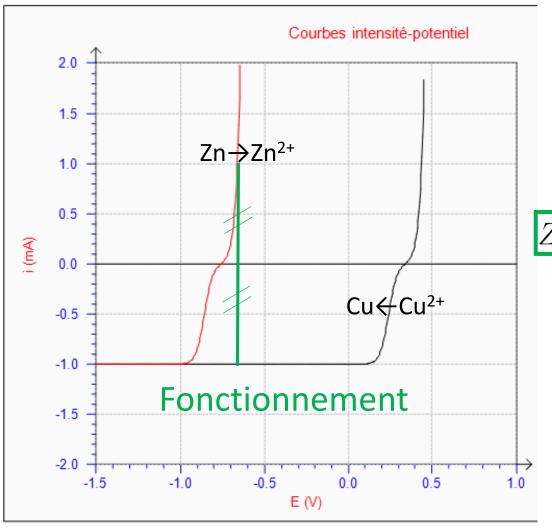
Décharge de la pile



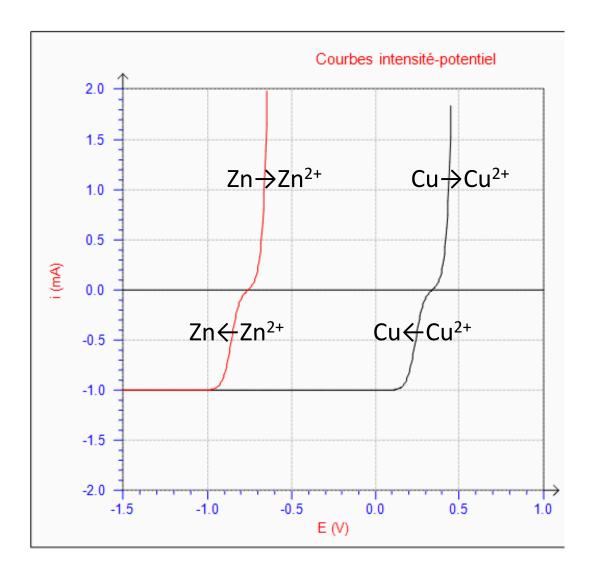
$$U_{pile} = U_0 - ri$$
 Avec $U_0 = \Delta E_N - \eta$

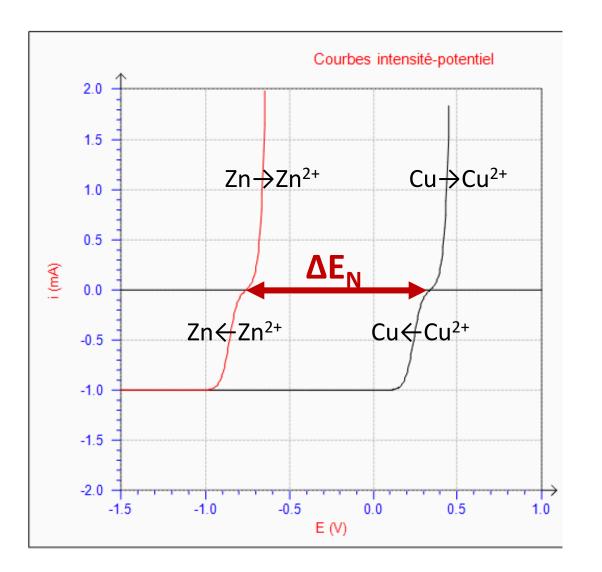


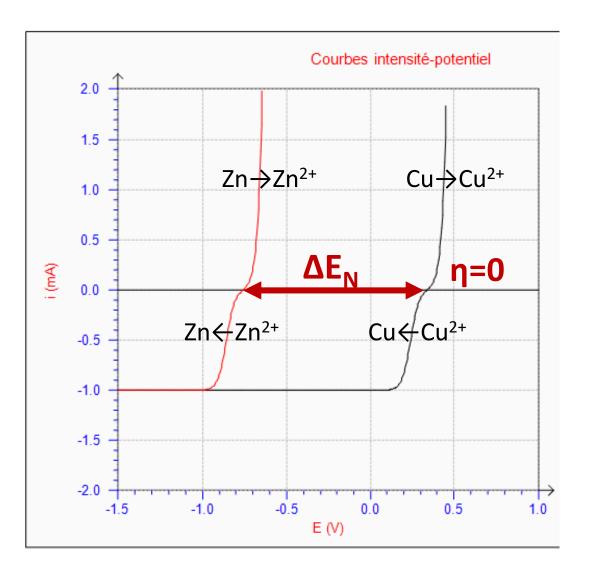




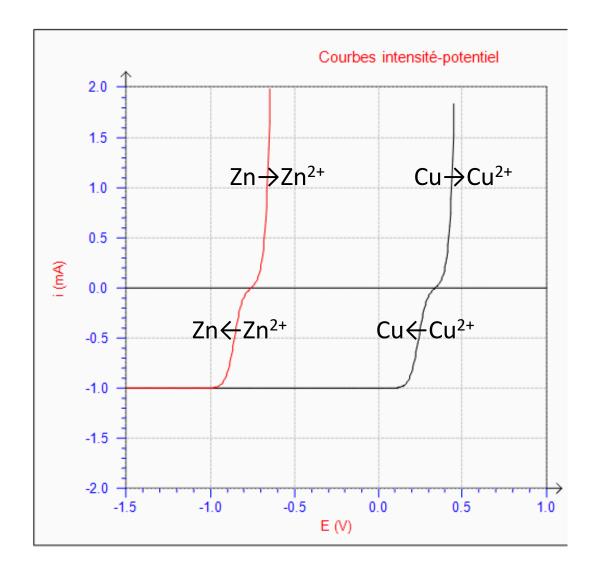
$$Zn + Cu^{2+} \rightarrow Cu + Zn^{2+}$$



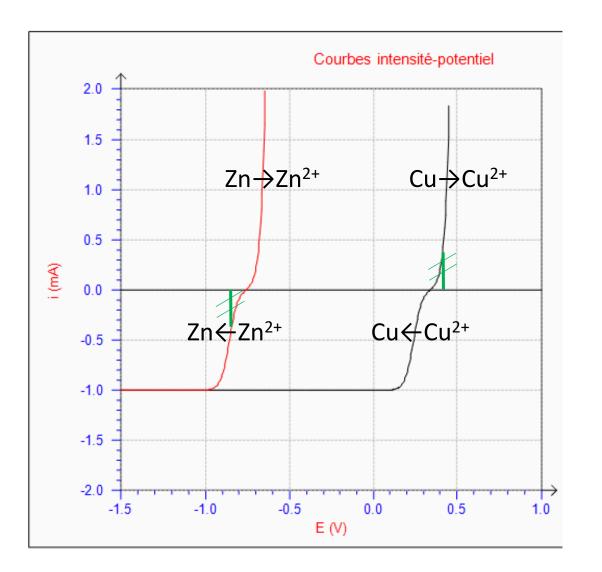




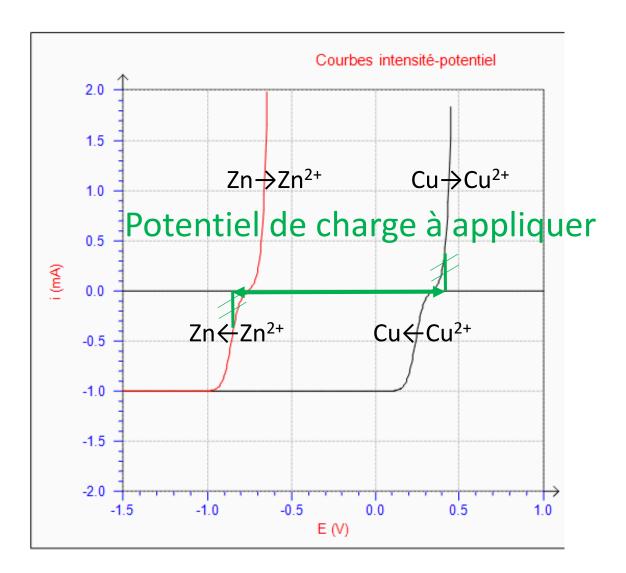
Electrolyse



Electrolyse



Electrolyse



Electrozingage

