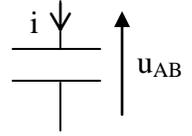
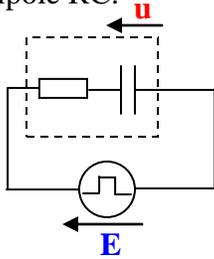


# DIPÔLE RC

- Condensateur:  $q_A = -q_B$ ,  $q_A = Cu_{AB}$ ,  $i = \frac{dq_A}{dt} = C \frac{du_{AB}}{dt}$ ,  $E_e = \frac{1}{2}Cu^2 = \frac{1}{2} \frac{q^2}{C}$



- Dipôle RC:



$$\tau = RC$$

$$\tau \frac{du}{dt} + u = E$$

$$\tau \frac{du}{dt} + u = 0$$

$$u = E(1 - e^{-\frac{t}{\tau}})$$

$$u = E \cdot e^{-\frac{t}{\tau}}$$

