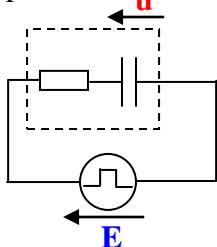


DIPOLE RC

- 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:



$$\tau = RC$$

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

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

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

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

