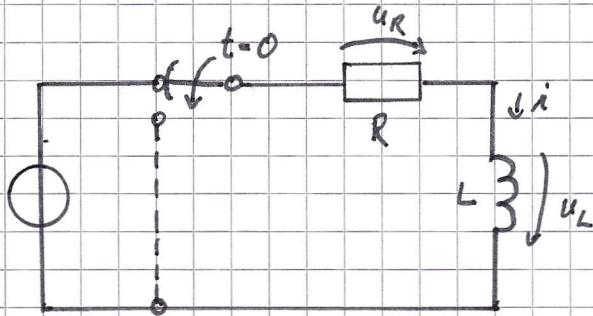


Abschalten einer Spule



$$u_R + u_L = 0 = iR + L \frac{di}{dt}$$

$$i(\pm 0) = \frac{U_q}{R}$$

$$u_L = L \cdot \frac{di}{dt}$$

$$\int \frac{di}{i} = - \int \frac{dt}{\tau}$$

$$i(t) = K \cdot e^{-\frac{t}{\tau}}$$

$$i(0) = \frac{U_q}{R} = K$$

$$i(t) = \frac{U_q}{R} \cdot e^{-\frac{t}{\tau}}$$

$$u_L = -U_q \cdot e^{-\frac{t}{\tau}}$$