Primer avance

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Energía e inductancia de Josephson

$$E_J = \int\limits_0^t I_0 \sin(\delta) \frac{\hbar}{2e} \frac{d\delta}{dt} dt = \frac{\hbar I_0}{2e} \int\limits_0^\delta \sin(\delta) dt = \frac{\hbar I_0}{2e} (1 - \cos(\delta))$$

$$\frac{dI_J}{dt} = I_0 \cos(\delta) \frac{d\delta}{dt} = I_0 \cos(\delta) \frac{2e}{\hbar} V_J$$

$$L_J = \frac{\hbar}{2eI_0\cos(\delta)}$$

$$E_C = \frac{(2e)^2}{2C}$$

$$E_L = \frac{\hbar^2}{4e^2L}$$



The end

Has ended sooner