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$$n_+=\frac{q_+}{2e}$$

$$\rho_+=\frac{2\pi}{\Phi_0}\phi_+$$

$$\rho_x=\frac{2\pi}{\Phi_0}\Phi_x$$

$$E_{ct}=\frac{e^2}{2\frac{c}{2}}=\frac{e^2}{2}$$

$$E_{Jt}=2E_J$$

$$E_L=\frac{1}{2L_C}\left(\frac{\Phi_0}{2\pi}\right)$$

$$n_g=?$$