

$$g^{\mu\nu} = \eta^{\mu\nu} + i \frac{m_0 c \ell}{\hbar \rho_0} \bar{\psi} [\gamma^\mu, \gamma^\nu] \psi$$

$$\mathcal{L} = i \hbar c g^{\mu\nu} \bar{\psi} \gamma_\mu \left( \partial_\nu + \frac{i e A_\nu}{\hbar c} \right) \psi - \frac{1}{4} F_{\mu\nu} F^{\mu\nu}$$