

Maxwell-Gleichungen (ohne Materie in den Feldern)

$$(1) \quad \text{rot } \vec{B} = \mu_0 \left(\epsilon_0 \frac{\partial \vec{E}}{\partial t} + \vec{j} \right)$$

$$(2) \quad \text{rot } \vec{E} = - \frac{\partial \vec{B}}{\partial t}$$

$$(3) \quad \text{div } \vec{E} = \frac{1}{\epsilon_0} \rho_{\text{el}}$$

$$(4) \quad \text{div } \vec{B} = 0$$