

$$\mathbf{1.} \quad \iiint_V n(M, t) . d\tau = - \iint_S \overrightarrow{j} (M, t) \cdot d\overrightarrow{S} = - \iiint_V div \overrightarrow{j} \, d\tau$$

$$\mathbf{2.} \quad \frac{\partial n}{\partial t} + div \overrightarrow{j} = 0, \text{ ce qui donne ici } j = \frac{A}{r}$$