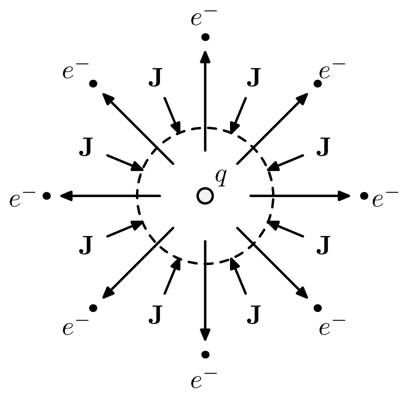

$$\nabla \cdot \mathbf{J} = -\frac{\partial \rho}{\partial t}$$

$$\left(\text{Gauss} \Rightarrow \iiint \nabla \cdot \mathbf{J}\, dV \equiv \underbrace{\oint\!\!\!\oint \mathbf{J} \cdot d\mathbf{S}}_{\text{C/s}} = -\iiint \frac{\partial \rho}{\partial t}\, dV = -\frac{\partial}{\partial t} \underbrace{\iiint \rho\, dV}_{\text{“}q\text{”, C}}\right)$$

$$\frac{\partial \rho(\mathbf{x}, t)}{\partial t} > 0 \qquad \Leftrightarrow \qquad \nabla \cdot \mathbf{J}(\mathbf{x}, t) < 0$$