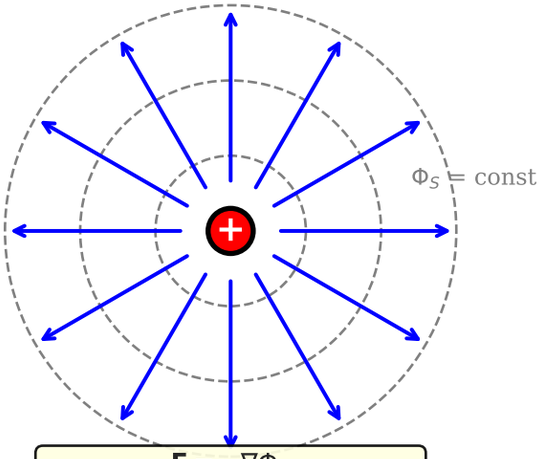
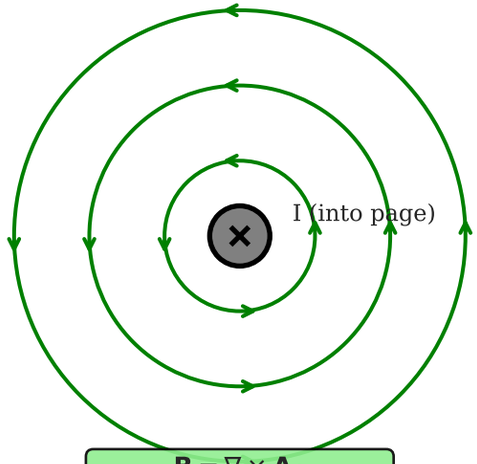
Panel C-5/C-6: Maxwell's Equations from Categorical S-Dynamics

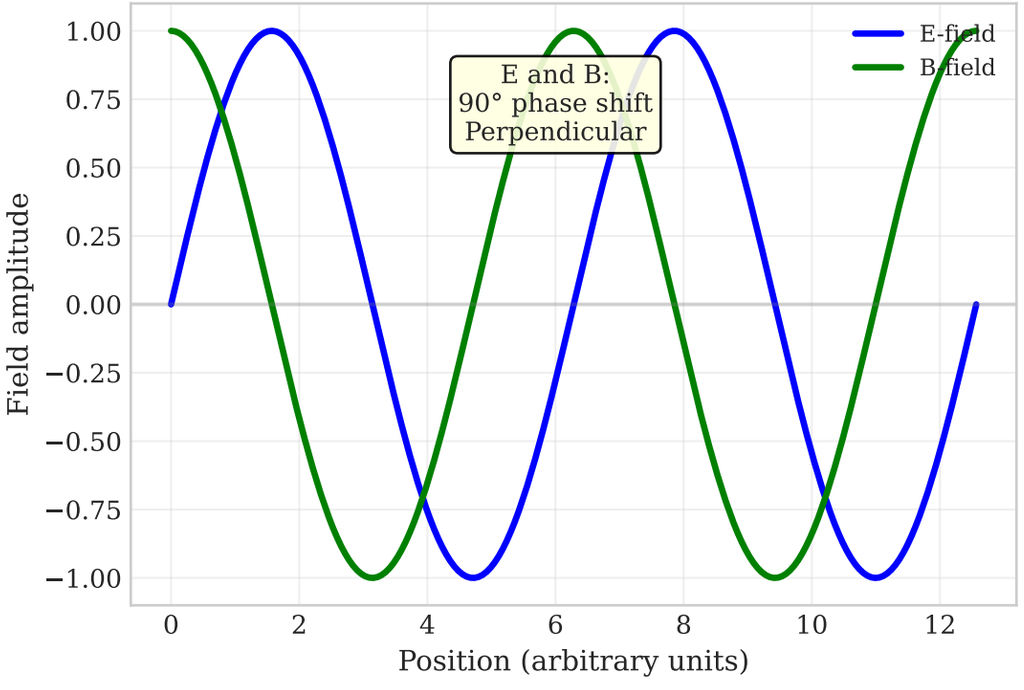
(A) Gauss's Law: E from S-Gradient



(B) Ampère's Law: B from S-Curl



(C) Coupled E-B Oscillation: Electromagnetic Wave



(D) Speed of Light from S-Dynamics

$$\nabla^2 \mathbf{E} = \mu_0 \varepsilon_0 \frac{\partial^2 \mathbf{E}}{\partial t^2}$$

Wave equation from S-dynamics:

$$c = \frac{1}{\sqrt{\mu_0 \varepsilon_0}}$$

= 299,792,458 m/s

S-transformation rate ↔ Wave velocity