

$$\Delta S = k \ln \Omega$$

$$\frac{dS}{dt} > 0$$

$$i\hbar \frac{\partial}{\partial t} \psi(\mathbf{r}, t) = -\frac{\hbar^2}{2m} \nabla^2 \psi(\mathbf{r}, t) + V(\mathbf{r}, t) \psi(\mathbf{r}, t)$$

$$F = ma$$

$$\frac{dp}{dt} = -\frac{\partial H}{\partial q} \quad \frac{dq}{dt} = \frac{\partial H}{\partial p} \quad H = \frac{p^2}{2m} + V(q)$$



$$\frac{d[\rho]}{dt} = k_2 [E_0] \frac{[E_0]}{k_m + [E_0]}$$

$$\oint E \cdot dA = \frac{q}{\epsilon_0}$$

$$\oint B \cdot dA = 0$$

$$\oint E \cdot ds = -\frac{d\Phi_B}{dt}$$

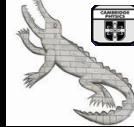
$$\oint B \cdot ds = \mu_0 i + \frac{1}{c^2} \frac{\partial}{\partial t} \int E \cdot dA$$

Physics of Living Matter Symposium II

Emerging properties of biological networks
Dynamics of cellular assemblies
From molecules to cells

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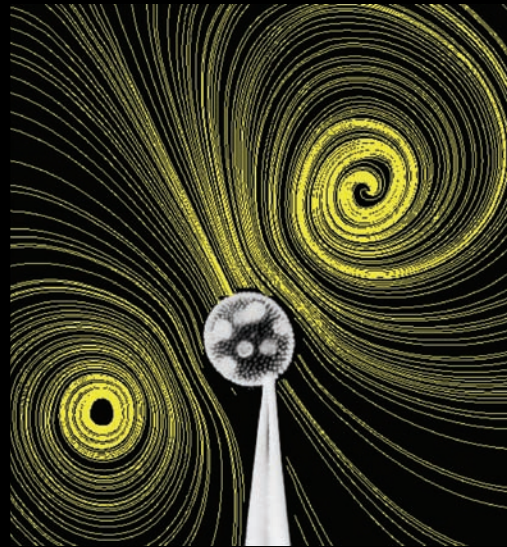


Image courtesy of Sujoy Ganguly and Raymond Goldstein, University of Cambridge

**The L. Bragg Lecture
by**

Wolfgang Baumeister

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