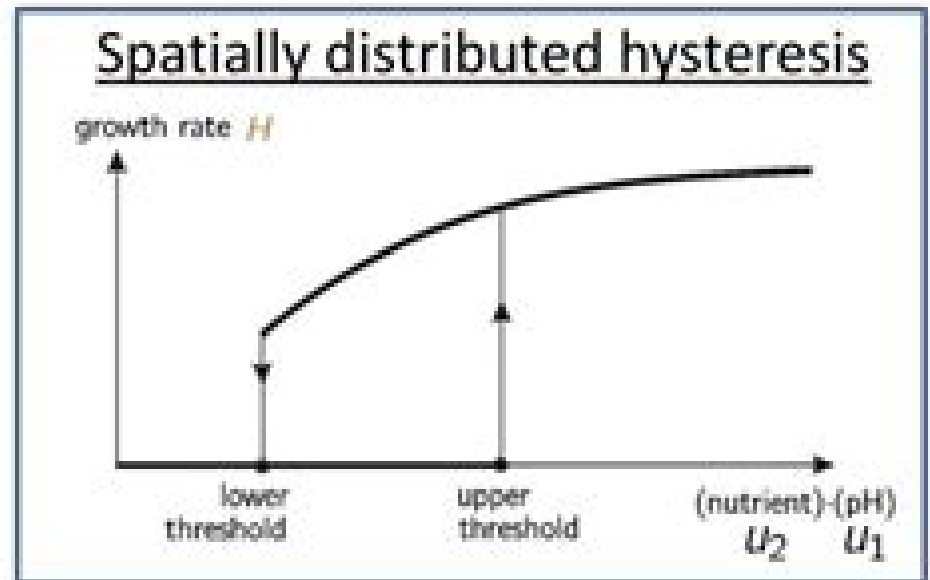


# Reaction-diffusion equations

$$\begin{cases} \frac{\partial B}{\partial t} = aHB, \\ \frac{\partial u_1}{\partial t} = D_1 \Delta u_1 - a_1 HB, \\ \frac{\partial u_2}{\partial t} = D_2 \Delta u_2 - a_2 HB. \end{cases}$$



- $a, a_1, a_2, D_1, D_2$  – given constants
- $B(x, t)$  – density of bacteria
- $u_1(x, t)$  – pH-level
- $u_2(x, t)$  – nutrient
- $H(u_1, u_2)(x, t)$  – spatially distributed hysteresis

# Reaction Diffusion Equations

**Ian Pickup**



## Reaction Diffusion Equations:

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