Equations used for this project

github.com/piotrkossa

Used Source

Equations of the Gray-Scott Model

$$\partial u/\partial t = (D_u * \nabla^2 u) - (u * v^2) + (f * (1 - u))$$
$$\partial v/\partial t = (D_v * \nabla^2 v) + (u * v^2) - ((k + f) * v)$$

Symbol	**Description**
u	Concentration of Activator
v	Concentration of Inhibitor
D_u, D_v	Diffusion Rates of Chemicals
$\nabla^2 u, \nabla^2 v$	Laplacian - Spatial Diffusion
f	Feed rate of u
k	Kill rate of v
$\partial u/\partial t, \partial v/\partial t$	Time Derivatives of Concentrations