

# Scratch Tex file for rendering equations

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## 1 Purkinje Set of Equations

For CCOM seminar slides...

Vector of cytosolic concentrations:

$$\begin{aligned}\partial_t u_i &= \nabla \cdot (D_{ij} \nabla u_j) + f_i(u, t) \text{ in } \Omega \\ D_{ij}(\partial_n u_j) &= J_i(u|_{\partial\Omega}, v, t) \text{ on } \partial\Omega\end{aligned}$$

System of ODEs:

$$\partial_t v_i = g_i(u|_{\partial\Omega}, v, t)$$