$$\begin{cases} -\partial_t \Delta\psi + \Delta^2\psi - \Delta\psi = & 0 & \text{in } (0,\infty) \times \Omega \\ \psi(0,x) & = \psi_0(x) & \text{in } \Omega \\ \psi(t,\sigma) & = 0 & \text{on } (0,\infty) \times \partial\Omega \\ \dfrac{\partial\psi}{\partial\mathbf{n}}(t,\sigma) & = 0 & \text{on } (0,\infty) \times \partial\Omega. \end{cases}$$

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