Future work

- Analytical solutions of the problem

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- Different approaches to the problem (integral equations framework)

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- Control problems

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- Approach to the degenerate case (K0 = 0)

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- Analysis of simple specific cases (pattern formation)
  – Fisher model

$$\frac{\partial p}{\partial t} - K\frac{\partial^2 p}{\partial y^2} - F(p) \;=\; 0$$
$$F(p) \;=\; \alpha p(1 - p).$$