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This paper is concerned with a boundaries describing the sprea logical model. The local existe and the asymptotic behavior of cate that two free boundaries te time, and the free boundary p free boundaries if the intra-spe competitions are weak, there ex

Keywords: Free boundary; mut solution.

Mathematics Subject Classificat

1. Introduction

In this paper, we consider the f

$$\begin{cases} u_t - d_1 u_{xx} = u(a_1 - b_1 u + c \\ v_t - d_2 v_{xx} = v(a_2 + b_2 u(t - \\ u(t,x) = 0, \\ u = 0, \quad h'(t) = -\mu \dfrac{\partial u}{\partial x}, \\ u = 0, \quad g'(t) = -\mu \dfrac{\partial u}{\partial x}, \\ -g(0) = h(0) = b \quad (0 < b < \\ u(t,x) = u_0(x) \geq 0, \\ v(t,x) = v_0(x) \geq 0, \end{cases}$$