Global dynamics of a competition model with nonlocal dispersal II: The full system

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\textbf{Abstract}

In this paper, we study logistic models with non-local dispersal for 2 × 2 competing species. In the weak competition case, the global asymptotic behavior of solutions are completely classified provided one of the following conditions is valid:

\begin{itemize}
  \item one diffusion rate is small;
  \item one diffusion rate is large;
  \item two diffusion rates are close.
\end{itemize}

This is a continuation of the work [1]. Our results illustrate the effects of non-local dispersals and interspecific competition coefficients in the competition system with spatially heterogeneous environments.

\textbf{Keywords:} nonlocal dispersal, global convergent, uniqueness, two-species competition

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\textbf{References}

[1] F. Li, Y. Lou and Y. Wang, Global dynamics of a competition model with nonlocal dispersal I: The shadow system, submitted to JMAA.

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