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J. Differential Equations 258 (2015) 2655–2685

**Journal of
Differential
Equations**

www.elsevier.com/locate/jde

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

Xueli Bai, Fang Li*

Center for Partial Differential Equations, East China Normal University, 500 Dong Chuan Road, Minhang 200241, Shanghai, PR China

Received 11 August 2013; revised 30 July 2014

Available online 6 January 2015

Abstract

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

- one diffusion rate is small;
- one diffusion rate is large;
- two diffusion rates are close.

This is a continuation of the work [16]. Our results illustrate the effects of non-local dispersals and inter-specific competition coefficients in the competition system with spatially heterogeneous environments.

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MSC: 45G15; 45M05; 45M10; 45M20

Keywords: Nonlocal dispersal; Global convergence; Uniqueness; Two-species competition

* Corresponding author.

E-mail addresses: baixueli2012@gmail.com (X. Bai), fangli0214@gmail.com (F. Li).