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Wei-Ming Ni received his B.S. from National Taiwan University and Ph.D. from Courant Institute, New York University. He is currently on the faculty of University of Minnesota, and the Director of the Center for PDE at East China Normal University in Shanghai. His research interests are mainly in elliptic and/or parabolic equations/systems, including: Symmetry properties of solutions, solutions on entire space and their stability properties, peak

solutions (spiky Turing patterns), and interactions between spatial and/or temporal heterogeneities and diffusion.

From Logistic Equation to Lotka-Volterra Competition-Diffusion System

Abstract

In this lecture I shall report some of the recent progress on the logistic equation and 2×2 Lotka-Volterra competition-diffusion system when spatial heterogeneity and/or temporal periodicity are present.