



Department of Mathematics and Statistics
St. John's, NL Canada A1C 5S7
Tel: (709) 864-8784 Fax: (709) 864-3010

Applied Dynamical Systems Seminar

Speaker: Ms. Yuxiang Zhang

Affiliation: Memorial University

Date: Friday, October 28, 2011

Time: 1:00 p.m.

Room: HH-3017

Title: *Bistable Traveling Waves for A Competition Model with Seasonal Succession*

Abstract:

In this talk, I will report our recent research on a periodic reaction and diffusion competition model, which describes the propagation of two competing species in the bad and good seasons. The existence and global stability of time-periodic bistable traveling waves are established for such a system under appropriate conditions. The methods involve the upper and lower solutions, spreading speeds of monostable systems, and the monotone semiflows approach. This talk is based on the joint work with Dr. Xiaoqiang Zhao.