

Applied Dynamical Systems seminar

Mr. Isam Al-Darabsah, Memorial University of Newfoundland

15:00-16:00, October 28, 2013 (Monday)

HH-3017

Dynamics on a general stage structured in parallel food chains

Abstract:

We propose a general model with n parallel food chains through the stage structured maturation time delay, which can cover most of the prey-predator models in the literature. We discuss some basic dynamical properties of the system with single or multiple patches and with general or some particular functional responses, including the existence of equilibrium points and their local and global stabilities. Numerical simulations are given to complement the theoretical analysis.

Coffee and cookies will be served.

Seminar website: <http://www.math.mun.ca/~shuz/seminars.html>

-----All are welcome-----