Departmental Colloquium

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Monday, July 24, 2019
1:00p.m., HH-3017

Hopf bifurcations in a two-patch
Nicholson's blowflies model with random dispersal

Abstract:

In this talk, I will report our recent work about Hopf bifurcations for the Nicholson's blowflies equation with Dirichlet boundary condition. We first present a discrete version of diffusive Nicholson's blowflies equation with Dirichlet boundary condition. Then we study the stability of the unique positive steady state and the existence of local and global Hopf bifurcation at the positive steady state. This is a joint work with Houfu Liu and Yuanyuan Cong.