

Applied Dynamical Systems Seminar

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Friday, February 10, 2012
1:00p.m., HH-3017

*Travelling wavefronts of non-local reaction-diffusion models
for cell adhesion and cancer invasion*

Abstract:

In this talk, we will consider non-local reaction-diffusion models with integro-partial differential equation for cell adhesion and cancer invasion. We provide a valid approach to establishing the existence of traveling wavefronts via the Banach fixed point theorem when the adhesion coefficient is relatively small. Numerical simulations are presented to illustrate the main results, and comparisons of wave patterns in different parameters are demonstrated. This talk is based on the joint work with Dr. Chunhua Ou.

