



Speaker: Bogdan Kazmierczak
Polish Academy of Sciences

Wednesday, September 10, 2008
4:00 PM
117 Hayes-Healy Hall

Title: Calcium waves in systems with immobile buffers as a limit of waves for systems with nonzero diffusion

Abstract:

We study the existence and properties of calcium waves in the presence of buffers. The model represents a reaction-diffusion system of equations with some diffusion coefficients equal to zero. They correspond to immobile buffers. The proof of the existence of traveling waves is carried out by passing to zero in the diffusion coefficients.