

Announcing

Graduate Seminar

November 11, 2005 at 2:00 pm

Southern Hall 303

at The University of Southern Mississippi

Speaker: Douglas Magomo

Center for Science and Mathematics Education (CSME)
The University of Southern Mississippi

Title: Predator-prey system with a switching effect

Abstract:

Population dynamics of interacting species depend on the parameters that define the distinct biological responsiveness. Varying these parameters lead to variations in interactions. We study the Lotka-Volterra system which incorporates density-dependent interaction coefficients under a special functional response function. Bifurcation of equilibria may to a hysteresis phenomenon.

Further Information

Refreshments are served from 1:50 pm until 2:00 pm in Southern Hall 303. Further details and information about this and other seminars is available online at <http://www.math.usm.edu/colloquia/colloquia.html>.