



Announcing

A Mathematics Seminar

February 27, 2009 at 2:00 pm

Southern Hall 303

at The University of Southern Mississippi

Speaker: Chuanxi Qian

Department of Mathematics and Statistics
Mississippi State University

Title: Global Attractivity of Higher-order Difference Equations and Applications

Abstract:

Higher order nonlinear difference equations often arise in applications where the $(n + 1)^{st}$ generation (or state) of the system depends on the previous k generations (or states). Such equations also appear naturally as discrete analogue of differential and delay differential equations which model various diverse phenomena in biology, ecology, physiology, engineering, and economics, and as difference schemes for the numerical solutions of such equations. In this talk, we will discuss global attractivity of a class of higher order difference equations. Applications to several difference equation models derived from a variety of biological and physical phenomena will also be presented.

Further Information

Further details and information about this and other departmental activities is available online at http://www.math.usm.edu/bulletin_board/.