

Texas Tech University. Applied Mathematics Seminar.

**DIFFERENCE EQUATIONS THAT ARE  
DYNAMICALLY CONSISTENT WITH  
DIFFERENTIAL EQUATIONS**

Lih-Ing W. Roeger, Texas Tech University

October 29, 2008

Room: MA 112, Time: 4:00pm

ABSTRACT. Nonstandard finite difference schemes are applied to differential equations such that the resulting difference equations preserve many qualitative properties of the differential equations.