1046-39-1781 **Rebecca Burton Kalhorn***, North Carolina State University, Department of Mathematics, Box 8205, Raleigh, NC 27695, and **Jesus Rodriguez**. Weakly Nonlinear Boundary Value Problems on Time Scales.

We analyze weakly nonlinear boundary value problems on time scales. Our focus is problems at resonance, or where the solution space of the corresponding homogeneous linear boundary value problem is nontrivial. Conditions for the existence of solutions are presented as well as a discussion of parameter dependence of these solutions. (Received September 16, 2008)