

Meeting: 1004, Bowling Green, Kentucky, SS 3A, Special Session on Dynamic Equations on Time Scales and Applications

1004-34-174 **Eric R Kaufmann*** (erkaufmann@ualr.edu), 2801 S. University Ave, Department of Mathematics and Statistics, Little Rock, AR 72204, and **Youssef N Raffoul** (youssef.raffoul@notes.udayton.edu), Department of Mathematics, Dayton, OH 45469-2316. *Positive Solutions for a Nonlinear Functional Dynamical Equation on a Time Scale*. Preliminary report.

In this paper we obtain sufficient conditions for the existence of positive solutions to a non-local eigenvalue problem for a class of nonlinear functional dynamic equations on a time scale. We employ a cone theoretic fixed-point theorem to establish our results. (Received January 24, 2005)