

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

1004-39-62 **Allan C. Peterson*** (apeterso@math.unl.edu), Allan Peterson, Math. Dept. 0130, Lincoln, NE 685880130, and **Bevan B. Thompson** (hbt@maths.uq.oz.au), Math. Dept., University of Queensland, Queensland, 4072, Australia. *Henstock–Kurzweil Delta Integral*. Preliminary report.

We will introduce an integral that will generalize the so-called delta integral that is important in the study of dynamic equations on time scales. This so-called Henstock–Kurzweil integral will allow one to consider more general dynamic equations on time scales. Many examples and theorems will be given. (Received January 14, 2005)