1046-Z1-1852Aprillya Lanz\* (lanzar@vmi.edu), Dept. of Mathematics and Computer Science, 430 Mallory<br/>Hall, Lexington, VA 24450, and Ana Tameru (atameru@alasu.edu), Department of<br/>Mathematics, 915 S. Jackson St., Montgomery, AL 36101. Solution Matching for a Second Order<br/>Boundary Value Problem on a Time Scale.

We will show the existence and uniqueness of solution for a boundary value problem

$$y^{\Delta\Delta}(t) = f(t, y(t), y^{\Delta}(t)), \quad t \in [a, b]_{\mathbb{T}}$$
$$y(a) = A, \quad y(b) = B,$$

by matching the solution of the two-point boundary problem on  $[a, c]_{\mathbb{T}}$  with the solution of the two-point boundary value problem on  $[c, b]_{\mathbb{T}}$  where  $c \in (a, b)_{\mathbb{T}}$ . (Received September 16, 2008)