

Oscillation results for second order neutral dynamic equations on time scales

E. Tunç¹, O. Özdemir²

¹ *Gaziosmanpaşa University, Tokat, Turkey, ercantunc72@yahoo.com*

² *Gaziosmanpaşa University, Tokat, Turkey, orhanozdemir37@yahoo.com*

Abstract

In this talk, we discuss oscillatory behavior to a class of second-order neutral dynamic equations containing mixed nonlinearities on an arbitrary time scale \mathbb{T} . Using a Riccati-type transformation and the arithmetic-geometric mean inequality, we present some new sufficient conditions which ensure that all solutions of the studied equation are oscillatory. The results obtained improve and complement some known results in the literature. An example is given to illustrate the results.

Key Words: Oscillation, Neutral, Second order, Dynamic equations on time scales.

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