CONTINUOUS, DISCRETE, OR SOMEWHERE IN BETWEEN: AN INTRODUCTION TO TIME SCALES

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Friday December 1, 2017 • 11am – 12pm • DERR 329

Speaker
Dr. Higgins joined the Department of Mathematics and Statistics at Texas Tech University in 2008, after earning her doctorate from the University of Nebraska -Lincoln.

Her research focus is on oscillation criteria of dynamic equations on time scales.

She is engaged in programs supporting women and minorities in mathematics.

Abstract
A time scale $\mathbb{T}$ is a nonempty closed subset of the real numbers. Using the exponential function $e^{pt}$, we will introduce to the theory of time scales. We will then use the fact that $e^{pt}$ is the solution of $x' = px; x(0) = 1$ to define a generalized exponential function on a time scale $\mathbb{T}$ and derive several important properties of the exponential function. Examples and applications will be given.

Mentoring lunch with the speaker
Female students within the College of Science and Engineering, graduate and undergraduate, are invited to have lunch with the speaker after her talk.

There is no cost for lunch, but seats are limited. Please, sign up in the Women Doing Math website if you would like to participate:

http://womendoingmath.wp.txstate.edu/

Women Doing Math
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