

SEMINAR
CENTER FOR APPLIED MATHEMATICS AND SCIENCE
DEPARTMENT OF MATHEMATICS
UNIVERSITY OF WEST GEORGIA

1:00 PM, THURSDAY, JANUARY 28th, 2016, BOYD 306

Speaker: Mr. Nguyen Du Vi Nhan, Graduate Student, Department of Mathematics, UWG

Title: **Dynamic Picone identities and their applications**

Abstract: We first prove some dynamic Picone identities for a class of first-order nonlinear dynamic systems and apply them to derive Wirtinger inequalities on time scales. The results are then used to establish oscillatory and related properties concerning these systems including a Reid roundabout theorem that gives conditions equivalent to disconjugacy, some comparison theorems and a method in oscillation theory.

This is a joint work with D. T. Duc, V. K. Tuan and T. D. Phung.
All are welcome.