

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

1:00 PM, THURSDAY, MARCH 24, 2016, BOYD 306

Speaker: Dr. Dinh Thanh Duc
Department of Mathematics
Quynhon University, Vietnam

Title: Some new dynamic inequalities on time scales and their applications

Abstract:

We prove some weighted inequalities for delta derivatives acting on products and compositions of functions on time scales and derive generalized dynamic Opial-type inequalities. We also employ these inequalities to establish some new dynamic Lyapunov-type inequalities which are essential in studying dis-focality, disconjugacy, lower bounds of eigenvalues and distance between generalized zeros for half-linear dynamic equations. The results presented in this talk generalize, unify, and improve most of known results not only in the discrete and continuous analysis but also on time scales.

All are welcome.