

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

2:00 PM, WEDNESDAY, MARCH 12th, 2014, BOYD 306

Speaker: Dr. Kwang Shin, Department of Mathematics, UWG

Title: A Necessary and Sufficient Condition for Reality of Eigenvalues of Anharmonic Oscillators in the complex plane and \mathcal{PT} -symmetry

Abstract: All Hermitian anharmonic oscillators have real eigenvalues only. However, Hermiticity is a sufficient condition for real eigenvalues but not a necessary condition. A large class of non-Hermitian \mathcal{PT} -symmetric anharmonic oscillators have real eigenvalues only. In this talk, we examine a necessary and sufficient condition for reality of eigenvalues of a large class of anharmonic oscillators in the complex plane.

All are welcome.