

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

12:00 PM, WEDNESDAY, MARCH 8, 2017, BOYD 306

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

Title: **Inverse problem for the Sturm-Liouville equation on a star-shaped graph**

**Abstract:** We consider an inverse problem for the Sturm-Liouville equation on  $n$  edges of equal length of a compact star-shaped graph with one vertex of degree  $n$ . We impose the Dirichlet conditions at the pendant vertices and the continuity condition together with Kirchhoff's condition at the vertex of degree  $n$ . In particular, we derive the results obtained by V. Pivovarchilk in [SIAM J. Math. Anal. **32** (2000), pp. 801-819].

This is a joint work with Dr. Vu Kim Tuan

All are welcome.