

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

1:00 PM, WEDNESDAY, SEPTEMBER 19, 2012, BOYD 306

Speaker: Dr. Amin Boumenir, Department of Mathematics, UWG

Title: An inverse problem for rank one perturbations

Abstract: We use the determinant of an infinite matrix to compute, by an explicit formula, the eigenvalues of a rank one perturbation of a self-adjoint operator acting in a separable Hilbert space. We also solve the inverse problem of reconstructing the perturbation by an explicit formula based on the inverse of a Hilbert type matrix.

All are welcome.