

APPLIED MATHEMATICS SEMINAR
Department of Mathematics
University of West Georgia
4:30 PM, MONDAY, AUGUST 21, 2006, BOYD 304

Speaker: Dr. Amin Boumenir, UWG

Title: **The approximation of the transmutation kernel**

Abstract

We would like to approximate the kernel of the transformation operator used in the Gelfand-Levitan theory. By using the analytic properties of the solution, we obtain its series representation which helps us recover the kernel from its Fourier cosine series. Once the kernel is known we show how it can be used to compute the spectral function.

All are welcome.