COMPLEX ANALYSIS SEMINAR

JOINT WITH SHOEMAKER LECTURE SERIES

EIGENVALUE DISTRIBUTION OF THE $\bar{\partial}$-NEUMANN LAPLACIAN

Siqi Fu

Rutgers University-Camden

ABSTRACT: In this lecture, we continue our discussion of spectral theory of the $\bar{\partial}$-Neumann Laplacian. Here the focus is on pure discreteness of the spectrum and asymptotic distribution of eigenvalues. We explain how this is related to problems in quantum mechanics and how the compactly supported wavelets constructed by Daubechies and Lemarié;-Meyer play a role in the subject. Part of this talk is based on previous joint work with E. Straube and with M. Christ.

Date: Thursday, April 15, 2011
Time: 4pm-5pm
Place: UH 4440

Webpage: `http://math.utoledo.edu/~sonmez/complexseminar.html`