

1070-32-293

Siqi Fu* (sfu@camden.rutgers.edu), Department of Mathematical Sciences, Rutgers University, Camden, NJ 08102. *Problems in spectral theory of the $\bar{\partial}$ -Neumann Laplacian*. Preliminary report.

In this talk, I will discuss several results and problems in spectral theory of the $\bar{\partial}$ -Neumann Laplacian. The focus is on inverse problems: how the geometry of a domain in several complex variables is determined by the spectrum of its $\bar{\partial}$ -Neumann Laplacian. (Received February 14, 2011)