

Analysis Seminar Thursday April 23, 2015

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Title: *The \square_b equation on quadric submanifolds*

Abstract: In this talk, I will discuss ongoing work with Albert Boggess of Arizona State University. I will review the $\bar{\partial}_b$ complex, the Kohn Laplacian \square_b , and discuss the $\bar{\partial}_b$ problem. From there, I will discuss the \square_b heat equation on quadric submanifolds and its applications to the $\bar{\partial}_b$ problem on both quadric submanifolds and decoupled domains in \mathbb{C}^n .