

Der-Chen Chang

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will speak on

**Estimates for the Cauchy-Riemannian Equation
in Several Complex Variables**

ABSTRACT: Let $\Omega \subset\subset \mathbb{C}^{n+1}$ be a bounded, pseudoconvex domain of finite type with smooth boundary. We assume further that the Levi form of $\partial\Omega$ is diagonalizable. In this talk, we give detailed discussion of recent progress of the $\bar{\partial}$ -Neumann problem. Using this result, we obtain solving operator for inhomogeneous Cauchy-Riemann equation $\bar{\partial}U = f$ in Ω . Here $f = \sum_{j=1}^{n+1} f_j \bar{\omega}_j$ is a given $(0, 1)$ -form. Then we discuss the “possible” optimal estimates of the solution.

MONDAY, 24 OCTOBER 2011

LECTURE AT 4:00 PM

COFFEE, TEA, AND REFRESHMENTS FROM 3:30-5:00 PM

ROOM 617, WACHMAN BUILDING

DEPARTMENT OF MATHEMATICS