COMPLEX ANALYSIS SEMINAR

THE CAUCHY-RIEMANN EQUATIONS AND L² SERRE DUALITY ON COMPLEX MANIFOLDS

Mei-Chi Shaw

University of Notre Dame

ABSTRACT: In this talk we study the closed range property and boundary regularity of the Cauchy-Riemann equations on domains in complex manifolds. Recently, L^2 results for the Cauchy-Riemann equations on product domains in complex manifolds and an analogue of the classical Künneth formula have been obtained (joint work with Debraj Chakrabarti). We also discuss an L^2 version of the Serre duality on domains in complex manifolds with applications.

Date: Thursday, October 21, 2010

Time: 4pm-5pm

Place: UH 3800

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