



PURDUE UNIVERSITY

Outstanding Alumnus Colloquium Lecture

Speaker: Dr. Jeffery McNeal, Ohio State University
Title: "Non-holomorphic Projections and Extension of Biholomorphic Maps"
Date: Thursday, September 4, 2008
Time: 4:30 P.M.
Place: BRNG 2290

Abstract

I'll discuss the general problem of whether biholomorphic mappings, between smoothly bounded domains in C^n , extend smoothly to the boundaries of these domains. Previously, the most general, positive results on this problem were obtained by S. Bell, using regularity results obtained by D. Catlin on the certain system of PDEs. A relationship between biholomorphic mappings and an operator projecting weighted L^2 spaces onto their "twisted holomorphic" subspaces allows us to obtain some new results on this problem.

Refreshments will be served in the Math Library Lounge at 4:00 p.m.