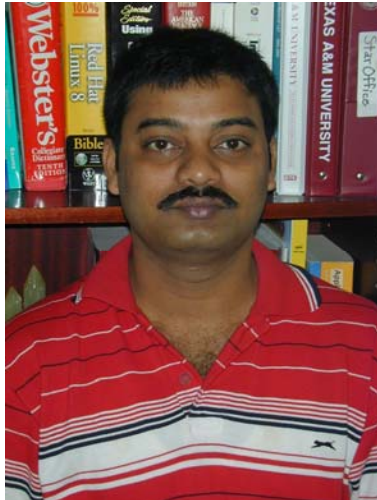




Fall 2008 Seminar Series



Dr. Jaydeb Sarkar

Visiting Assistant Professor
Department of Mathematics
Texas A&M University

Friday, December 5, 2008

Time: 3:00 PM

Room: MS 2.02.52

Hilbert modules and unitarily equivalent submodules

Abstract: In this talk, we discuss the question of which Hilbert modules have proper submodules unitarily equivalent to the original. We begin by explaining a class of well known examples where the answer to the above question is positive and where it fails. We prove that a proper submodule which is unitarily equivalent to the original one is a very rare property. Our discussion will include all natural examples of function spaces on any nice domain in \mathbf{C}^n . Also we discuss the situation when the Hilbert module is essentially normal. This is a joint work with R. G. Douglas.

A reception will follow the talk and will be held in MS 2.02.52