

COMPLEX ANALYSIS SEMINAR

COMPACTNESS OF THE $\bar{\partial}$ -NEUMANN OPERATOR AND OF COMMUTATORS OF THE BERGMAN PROJECTION WITH CONTINUOUS FUNCTIONS

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ABSTRACT: We show that on a bounded pseudoconvex domain compactness of the $\bar{\partial}$ -Neumann operator on square integrable forms, compactness of commutator operators (of the Bergman projection with functions continuous on $\bar{\Omega}$) on square integrable $\bar{\partial}$ -closed forms, and compactness of the canonical solution operator of the non-homogeneous $\bar{\partial}$ -equation on square integrable $\bar{\partial}$ -closed forms are equivalent. (This is a joint work with Sonmez Sahutoglu.)

Date: Thursday, October 18, 2012

Time: 4pm-5pm

Place: UH 4100A

Webpage: <http://math.utoledo.edu/~ssahuto/complexseminar.html>