

COMPLEX ANALYSIS SEMINAR

INVERTIBLE COMPOSITION OPERATORS: THE PRODUCT OF A COMPOSITION OPERATOR WITH THE ADJOINT OF A COMPOSITION OPERATOR

John Clifford

University of Michigan–Dearborn

ABSTRACT: I will introduce the two operators formed by multiplying a composition operator C_φ with the adjoint of a composition operator C_ψ^* on the Hardy space $H^2(\mathbb{D})$. I will characterize when the operator $C_\varphi C_\psi^*$ is invertible, isometric, and unitary, respectively. If one of the inducing maps φ or ψ is univalent, I will completely characterize when $C_\psi^* C_\varphi$ is invertible or unitary.

Date: Thursday, January 24, 2013

Time: 4pm-5pm

Place: UH 4100A

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