

COMPLEX ANALYSIS SEMINAR

COMPACTNESS OF HANKEL PRODUCT $H_\psi^* H_\varphi$ ON THE WEIGHTED BERGMAN SPACE ON THE UNIT BIDISK (PART II)

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ABSTRACT: We are interested in the Hankel product $H_\psi^* H_\varphi$ on the weighted Bergman space $A^2(\mathbb{D}^2, dV_{\alpha,\beta})$, where

$$dV_{\alpha,\beta} = (1 + \alpha)(1 + \beta)(1 - |z|^2)^\alpha(1 - |w|^2)^\beta dA(z)dA(w)$$

and $\alpha, \beta \in \mathbb{N}$. For symbols $\varphi, \psi \in C(\overline{\mathbb{D}^2})$, I will show a necessary condition for this operator to be compact.

Date: Thursday, February 21, 2013

Time: 4pm-5pm

Place: UH 4100A

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