## **COMPLEX ANALYSIS SEMINAR**

## COMPACTNESS OF HANKEL PRODUCT $H_{\psi}^*H_{\varphi}$ ON THE WEIGHTED BERGMAN SPACE ON THE UNIT BIDISK

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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  $\alpha, \beta \in \mathbb{N}$  and

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

For some special symbols  $\varphi, \psi \in L^{\infty}(\mathbb{D}^2)$ , I will show a necessary condition for this operator to be compact.

Date: Thursday, January 31, 2013 Time: 4pm-5pm Place: UH 4100A

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