

Meeting: 999, Nashville, Tennessee, SS 7A, Special Session on Operator Theory on Function Spaces

999-47-258 **Karel Stroethoff*** (karel.stroethoff@umontana.edu), Department of Mathematical Sciences, University of Montana, Missoula, MT 59812, and **Dechao Zheng** (zheng@math.vanderbilt.edu), Mathematics Department, Vanderbilt University, Nashville, TN 37240. *Bounded Toeplitz Products on Weighted Bergman Spaces.*

We consider the question for which square integrable analytic functions f and g on the unit disk the densely defined Toeplitz products $T_f T_{\bar{g}}$ are bounded on weighted Bergman spaces. We prove results analogous to those we obtained in the setting of the unweighted Bergman space. We will furthermore completely describe when the Toeplitz product $T_f T_{\bar{g}}$ is invertible or Fredholm. (Received August 24, 2004)