John T. Anderson\* (anderson@mathcs.holycross.edu), Dept. of Mathematics and Computer Science, College of the Holy Cross, Worcester, MA 01610-2395. Uniform Approximation by  $\Box_b$  -harmonic functions.

The Mergelyan and Ahlfors-Beurling estimates for the Cauchy transform give quantitative information on uniform approximation on a compact plane set K by rational functions with poles off K. We will present an analogous result for an integral transform on the unit sphere in  $\mathbb{C}^2$  introduced by Henkin, and show how it can be used to study approximation by functions that are locally harmonic with respect to the Kohn Laplacian  $\square_b$ . (Received February 14, 2011)