1014-46-1385   **Tiberiu Constantinescu** and **Troy Banks*** (`tvbanks@salisbury.edu`), Salisbury University, Department of Math and Computer Science, 1101 Camden Avenue, Salisbury, MD 21804.
Orthogonal Polynomials in Several Non-Commuting Variables.

We investigate a certain class of Hankel-like positive definite kernels using their associated orthogonal polynomials. The main result of this paper is about the structure of this kind of kernel. We estabish a connection between moments and Jacobi coefficients, and also describe the Jacobi coefficients of the free products of orthogonal polynomials. (Received September 28, 2005)