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Jennifer Halfpap* (halfpap@mso.umt.edu). *Understanding Projection Operators in Several Complex Variables through Harmonic Analysis.*

Operators such as the Bergman and Szegő projections are fundamental objects of study in several complex variables. In general, obtaining explicit expressions for the associated integral kernels is difficult. If, however, the domain under consideration is tube-like (hence preserved by certain translations), techniques from harmonic analysis lead to explicit expressions for these kernels. In this talk we outline this approach and discuss the kinds of results we have recently obtained with these techniques. (Received September 24, 2012)