

BOUNDEDNESS OF A CLASS OF INTEGRAL OPERATORS ON THE BERGMAN SPACE OVER THE UPPER HALF-PLANE

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Abstract:

Let Π denote the upper half-plane and $\mathcal{A}^2(\Pi)$ be the Bergman space over the upper half-plane. In this talk, we define a class of integral operators on the space $\mathcal{A}^2(\Pi)$. We characterize the integral kernels so that the operators are bounded. We also discuss various operator theoretic properties and a C^* -subalgebra of it which is generated by Toeplitz operators with special symbols. This is based on the joint work with D. Venku Naidu and Pinlodi Mohan.