Unbounded Bergman Operators

Sherwin Kouchekian

Abstract

In this talk we consider the operator of multiplication on Bergman spaces, where the underlying open sets are unbounded. We will discuss the questions and consequences of the obtained generalization of the Berger-Shaw theorem in the unbounded case. In particular, we present some published and some new results regarding the density problems for domain, self-commutator, and core of the Bergman operator.