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Sharp Weighted Bounds for the Bergman Projection and Related Operators on $A^2(\mathbb{B}^n)$

Abstract

Using techniques of dyadic harmonic analysis, we are able to prove sharp estimates for the Bergman projection and Berezin transform and more general operators in weighted Bergman spaces on the unit ball in \mathbb{C}^n . The estimates are in terms of the Bekolle-Bonami constant of the weight. This generalizes results of Pott-Reguera to several variables and to a more general class of operators. This is joint work with Brett Wick and Edgar Tchoundja.

Talk time: 07/21/2016 2:30PM— 07/21/2016 2:50PM

Talk location: Crow 204

Special Session: Harmonic analysis. Organized by K. Bickel.