Norm estimate of operators related to the harmonic Bergman projection

K. Nam

It is well known that the weighted harmonic Bergman projection on the ball is bounded on the weighted L^p space for $1 < p < \infty$, but not for $p = 1$. Our first result is an optimal norm estimate for one-parameter family of operators associated with the weighted harmonic Bergman projections on the ball. We then use this result and derive an optimal norm estimate for the weighted harmonic Berman projections.

The talk is based on a joint work with B.R. Choe and H. Koo.