

Poly-Bergman spaces on domains Möbius equivalent to a disk

L.V. Pessoa

Let U be a complex domain Möbius equivalent to a disk and let j be in \mathbb{Z}_+ . The talk will focusses on explicit representation of the poly-Bergman projection $B_{U,j}$ in terms of the singular integral operators $S_{U,j}$. One also show how the Lebesgue space $L^2(U, dA)$ decompose on the true poly-Bergman spaces. The poly-Bergman kernels of U are explicitly calculated.