
*Workshop dedicated to the memory of Professor Gabriela Kohr
(2nd edition)*

Geometric Function Theory in Several Complex Variables and Complex Banach Spaces

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Contributed talk

The Graham-Kohr extension operator and subclasses of biholomorphic mappings in \mathbb{C}^n

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Abstract

Let $\mathbb{B}^n \subseteq \mathbb{C}^n$ be the Euclidean unit ball. We present two subclasses of convex, respectively starlike biholomorphic mappings on \mathbb{B}^n together with some interesting properties of them. Using the Graham-Kohr extension operator (introduced by I. Graham and G. Kohr in 2002) we study how the previous subclasses are preserved from one to several complex variables.