Workshop dedicated to the memory of Professor Gabriela Kohr
(4th edition)
Geometric Function Theory in Several Complex Variables and Complex Banach Spaces

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On some coefficients inequalities in one and several variables

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Abstract

In this talk we study first the bounds of the difference of moduli of initial successive coefficients, i.e. $||a_{n+1}| - |a_n||$ for $n = 1, 2$ for some subclasses of univalent functions defined on the unit disk of the complex plane (i.e α-convex functions, Janowski starlike and convex functions). Also, we extend the above sharp inequalities to several complex variables. We investigate similar inequalities for α-quasi-convex mappings of type B and Janowski type mappings defined on the open unit ball of a complex Banach space.