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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A lot of one kind, or a little bit of different kinds, which is better?

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Abstract

If we were to ask this question to a nutritionist, the answer would surely be that the second option is better.

In the present talk we will try to explore the advantages and disadvantages of the two options, in the context of the representation of analytic function. A bit more precise, we will try to compare the representation of an analytic function by means of its Taylor series development at a point (that is, knowing a lot of information about the function at a single point, i.e. the value of the function and all its derivatives at a point) and the representation of the function given by the values of the function at a sequence of points which accumulate to the given point (a little bit of information about different points).