Chiara De Fabritiis

Università di Ancona

From Holomorphicity to Slice-Regularity. A path inspired by Edoardo Vesentini

Abstract

We will look to analogies and dissimilarities in the behavior of holomorphic functions on complex numbers and slice-regular functions on the quaternions. From the very definition of slice-regular functions to the newest results on exponential, logarithm and Riemann manifolds, we will try to outline a path which follows several suggestions originating from Edoardo Vesentini's work.