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While the algebra of
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a four-dimensional real algebra, it is useful to think of it as a "complexification" of the field of complex numbers; from this perspective, the bicomplex algebra possesses the properties of a one-dimensional theory inside four real dimensions.

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In recent years, due largely to the work of G.B. Price, there has been a resurgence of interest in the study of these numbers and, more importantly, in the study of functions defined on the ring of bicomplex numbers, which mimic the behavior of holomorphic functions of a complex variable.

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algebra are almost
isomorphic to those of
the complex algebra.

arXiv:math/0101200
v1 [math.CV] 24 Jan
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Our goal is to show
that a function theory
on bicomplex numbers
is, in some sense, a
better generalization of
the theory of
holomorphic functions
of one variable, than
the classical theory of
holomorphic functions

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The elementary

bicomplex functions

are defined and their

properties studied. The

derivative of a

bicomplex function is

defined as the limit of

a fraction with

nonsingular

denominator. The

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existence of the
derivative amounts to

the validity of the
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investigates
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The theory of these

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Shapiro, Daniele C.
Struppa, Adrian Vajiac
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In this paper we introduce the algebra of bicomplex numbers as a generalization of the field of complex numbers. We describe how to define elementary functions in such an algebra (polynomials,...

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these numbers and, more importantly, in the study of functions defined on the ring of bicomplex numbers, which mimic the

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the field of complex \mathbb{C} .

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numbers. Accordingly, the main focus is on expressing the similarities with, and differences from, the classical theory of one complex variable.

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The theory of several complex variables gives rise to a functional calculus that is based on the joint

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