

# Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics

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#### **Holomorphic Functions: The Algebra,**

Functions Bicomplex Holomorphic The Algebra, Geometry and Analysis of Bicomplex Numbers M Elena Luna-Elizarrarás • Michael Shapiro Daniele C Struppa • Adrian Vajiac DOI 101007/978-3-319- - Library of Congress Control Number: Springer Cham Heidelberg New York Dordrecht London

#### **Bicomplex Holomorphic Functions The Algebra Geometry And ...**

Bicomplex Holomorphic Functions The Algebra Bicomplex Holomorphic Functions The Algebra, Geometry and Analysis of Bicomplex Numbers Authors: Luna-Elizarrarás, ME, Shapiro, M, Struppa, DC, Vajiac, A Free Preview Presents a comprehensive study of the analysis and geometry of bicomplex numbers; Offers a fundamental

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The bicomplex functions of interest are the holomorphic ones, which are characterized by the fact that they are differentiable They are almost

isomorphic to the complex holomorphic functions, not surprisingly, because the operations of the bicomplex algebra are almost isomorphic to those of the complex algebra. The bicomplex algebra has an

### **Bicomplex holomorphic functional calculus**

of monogenic functions (see the book [8]). The theory of several complex variables gives rise to a functional calculus that is based on the joint spectrum of operators. The analysis of bicomplex holomorphic functions started in the thirties with the works ...

### **Normal Families of Bicomplex Holomorphic Functions**

Normal Families of Bicomplex Holomorphic Functions commutative but not division algebra. It is also convenient to write the set of bicomplex numbers as  $T := \{w_0 + w_1 i_1 + w_2 i_2 + w_3 j \mid w_0, w_1, w_2, w_3 \in \mathbb{R}\}$  (3). In particular, if we put  $z_1 = x$  and  $z_2 = y i$

### **Normal Families of Bicomplex Holomorphic Functions**

Normal Families of Bicomplex Holomorphic Functions KS Charak<sup>1</sup>, D Rochon<sup>2</sup>, N Sharma<sup>3</sup> <sup>1</sup> Department of Mathematics, University of Jammu, Jammu-180 006, INDIA E-mail: kscharak7@redimail.com <sup>2</sup> D epartement de math ematiques et d'informatique, Universit e du Qu ebec a Trois-Rivi eres, CP 500 Trois-Rivi eres, Qu ebec, Canada G9A 5H7

### **Bicomplex extensions of zero mean curvature surfaces in $\mathbb{R}^4$**

In [2], we summarize basic facts on  $\mathbb{B}$  and bicomplex holomorphic functions in a form suitable for our purpose, and in [3], consider zero mean curvature complex surfaces in  $\mathbb{C}^n$  which are given by projections of bicomplex holomorphic maps, and give a generic results for such maps to have fold singularities. In [4-5], we observe bicomplex extensions

### **Bicomplex Numbers and their Elementary Functions**

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 in two complex variables. RESUMEN En este artículo introducimos el algebra de números bicomplejos como una general-

### **Solution of Maxwell's Wave Equations in Bicomplex Space**

In 1928 and 1932, Futagawa developed the concept of holomorphic functions of a bicomplex variable in a series of papers [9], [10]. In 1934, Dragoni [11] discussed some basic results of bicomplex holomorphic functions while Price [12] and Ronn [13] have developed the bicomplex algebra ...

### **Singularities of functions of one and several bicomplex ...**

Abstract In this paper we study the singularities of holomorphic functions of bicomplex variables introduced by G B Price (An Introduction to Multicomplex Spaces and Functions, Dekker, New York, 1991). In particular, we use computational algebra techniques to show that even in the case of one bicomplex variable, there cannot be compact

### **On Factorization of Bicomplex Meromorphic Functions**

On Factorization of Bicomplex Meromorphic Functions 59-22 Bicomplex holomorphic functions. It is also possible to define differentiability of a function at a point of  $T$ : Definition 2.1 Let  $U$  be an open set of  $T$  and  $w_0 \in U$ . Then,  $f: U \subseteq T \rightarrow T$  is said to be  $T$ -differentiable at  $w_0$  with derivative equal to  $f'(w_0) \in T$  if  $\lim_{w \rightarrow w_0} (w$

### **DUAL-COMPLEX NUMBERS AND THEIR HOLOMORPHIC ...**

morphicity to dual-complex functions. Moreover, a general representation of holomorphic dual-complex functions has been obtained. Finally and as concrete examples, some usual complex functions have been generalized to the algebra of dual-complex numbers. 1 Introduction Alternative

definitions of the imaginary unit  $i$  other than  $i^2 = -1$  can give

### **On a new type of conformality in R4 bicomplex holomorphic ...**

conformality of bicomplex holomorphic functions For this new notion, it is presented a positive hyperbolic-valued norm defined on the algebra of bicomplex numbers As a second step it is presented the trigonometric re-presentation of bicomplex numbers in hyperbolic terms, this means that not  
**arXiv:1404.4236v1 [math.CV] 16 Apr 2014**

Indeed in case of bicomplex-valued holomorphic functions most often the properties of its idempotent complex-valued holomorphic components are just carried over their bicomplex counterpart [17]

### **Bicomplex Version of Laplace Transform - Engg Journals**

2 Certain Basics of Bicomplex Analysis: In 1928 and 1932, Michiji Futagawa originated the concept of holomorphic functions of a bicomplex variable, in a series of papers [3], [4] In 1934, Dragoni [5] gave some basic results in the theory of bicomplex holomorphic functions A full account of the updated theory can be had from Price[6]

### **On Anti-Hermitian Metric Connections Preserving a ...**

The algebra of bicomplex numbers is the  $(A_4)$  are bicomplex-holomorphic functions Let now  $\Pi$  be an integrable regular bicomplex structure on  $M_4$  tensor field of type  $(0, s)$

### **Self-Inversive Bicomplex Polynomials**

Self-Inversive Bicomplex Polynomials 57 Definition 3 The derivative of the function  $f$  at a point  $Z_0 \in U$  is the limit, if it exists,  $f'(Z_0) := \lim_{Z \rightarrow Z_0} \frac{f(Z) - f(Z_0)}{Z - Z_0}$  if  $(Z - Z_0)^{-1}$  is an invertible bicomplex number We shall say that the function  $f$  is bicomplex holomorphic ( $C^2$  holomorphic) on an open set  $U$  if and only if  $f$  is  $C^2$  differentiable at each point

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### **A STUDY OF MELLIN TRANSFORM OF FRACTIONAL ...**

In 1928 and 1932, Futagawa Michiji originated the concept of holomorphic functions of a bicomplex variable in a series of papers [15], [16] In 1934, Dragoni [11] gave some basic results in the theory of bicomplex holomorphic functions while Price GB [9] and Rönns S [29] have developed the bicomplex algebra and function theory