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On Slice Polyanalytic Functions of a Quaternionic Variable

Daniel Alpay, Kamal Diki, and Irene Sabadini

Abstract. In this paper, we introduce the quaternionic slice polyanalytic functions and we prove some of their properties. Then, we apply the obtained results to begin the study of the quaternionic Fock and Bergman spaces in this new setting. In particular, we give explicit expressions of their reproducing kernels.

Mathematics Subject Classification. Primary 30G35.

Keywords. Bergman spaces, Fock spaces, quaternions, slice polyanalytic functions.

1. Introduction

The theory of polyanalytic functions is an interesting topic in complex analysis. It extends the concept of holomorphic functions to nullsolutions of higher order powers of the Cauchy–Riemann operator. An excellent reference on this subject is the book of Balk [7]. Some famous Hilbert spaces of holomorphic functions that were extended to the setting of polyanalytic functions are the Bergman and Fock spaces, see for example [1,2,7,15] and the references therein. In the last years, the classical theory of holomorphic functions in complex analysis was extended to obtain the theory of slice hyperholomorphic functions of a quaternionic variable, see [11,13] and the references therein. This function theory has several applications, in particular in operator theory and Schur analysis, see [3,11]. In this paper, we extend the definition of slice hyperholomorphic functions to higher order and define the slice polyanalytic functions of a quaternionic variable. Then, we shall use the obtained results to introduce

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  Polyanalytic Functions Mark Benevich Balk,1991-11-13   *Polyanalytic Type Function Spaces* Nikolai Vasilevski,2024-12-31 This book is about function spaces aspects of polyanalytic functions a topic that has gained a lot of attention in the past decades This book fills a gap in literature and is written by a leading researcher in the field Rather than studying polyanalytic functions from a complex analysis point of view it considers the Lie algebraic part of the theory Several generalizations are offered The presented theory has many applications including to quantum physics An extensive introduction to the topic is provided making the book accessible to specialists and newcomers alike   Complex Analysis I A.A. Gonchar,Viktor P. Havin,N.K. Nikolski,2013-11-11 A two part volume containing a comprehensive description of the theory of entire and meromorphic functions of one complex variable and its applications and a detailed review of recent investigations concerning the function theoretical pecularities of polyanalytic functions boundary behaviour value distributions degeneration uniqueness etc   **Quaternionic Hilbert Spaces and Slice Hyperholomorphic Functions** Daniel Alpay,Fabrizio Colombo,Irene Sabadini,2024-12-09 The purpose of the present book is to develop the counterparts of Banach and Hilbert spaces in the setting of slice hyperholomorphic functions Banach and Hilbert spaces of analytic functions in one or several complex variables play an important role in analysis and related fields Besides their intrinsic interest such spaces have numerous applications The book is divided into three parts In the first part some foundational material on quaternionic functions and functional analysis are introduced The second part is the core of the book and contains various types of functions spaces ranging from the Hardy spaces also in the fractional case to the Fock space extended to the case of quaternions The third and final part present some further generalization Researchers in functional analysis and hypercomplex analysis will find this book a key contribution to their field but also researchers in mathematical physics especially in quantum mechanics will benefit from the insights presented   **Analysis and Mathematical Physics** Björn Gustafsson,Alexander Vasil'ev,2009-10-02 Our knowledge of objects of complex and potential analysis has been enhanced recently by ideas and constructions of theoretical and mathematical physics such as quantum field theory nonlinear hydrodynamics material science These are some of the themes of this refereed collection of papers which grew out of the first conference of the European Science Foundation Networking Programme Harmonic and Complex Analysis and Applications held in Norway 2007   Further Progress in Analysis International Society for Analysis, Applications, and Computation. Congress,Heinrich G. W. Begehr,A. Okay Celebi,Robert P. Gilbert,2009 The ISAAC International Society for Analysis its Applications and Computation Congress which has been held every second year since 1997 covers the major progress in analysis applications and computation in recent years In this proceedings volume plenary lectures highlight the recent research results while 17 sessions organized by well known specialists reflect the state of the art of important subfields This volume concentrates on partial differential equations function spaces operator theory integral transforms and

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functions and their applications to the problems of fluid mechanics conformal field theory Hamiltonian and Lagrangian mechanics and signal processing This book is a collection of surveys written as a result of activities of the Programme and will be interesting and useful for professionals and novices in analysis and mathematical physics as well as for graduate students Browsing the volume the reader will undoubtedly notice that as the scope of the Programme is rather broad there are many interrelations between the various contributions which can be regarded as different facets of a common theme

Toeplitz Operators and Random Matrices Estelle Basor,Albrecht Böttcher,Torsten Ehrhardt,Craig A. Tracy,2023-01-01 This volume is dedicated to the memory of Harold Widom 1932 2021 an outstanding mathematician who has enriched mathematics with his ideas and ground breaking work since the 1950s until the present time It contains a biography of Harold Widom personal notes written by his former students or colleagues and also his last previously unpublished paper on domain walls in a Heisenberg Ising chain Widom s most famous contributions were made to Toeplitz operators and random matrices While his work on random matrices is part of almost all the present day research activities in this field his work in Toeplitz operators and matrices was done mainly before 2000 and is therefore described in a contribution devoted to his achievements in just this area The volume contains 18 invited and refereed research and expository papers on Toeplitz operators and random matrices These present new results or new perspectives on topics related to Widom s work *Complex Analysis* Mario Gonzalez,2018-03-09 A selection of some important topics in complex analysis intended as a sequel to the author s Classical complex analysis see preceding entry The five chapters are devoted to analytic continuation conformal mappings univalent functions and nonconformal mappings entire function meromorphic fu

Topics in Classical and Modern Analysis Martha Abell,Emil Iacob,Alex Stokolos,Sharon Taylor,Sergey Tikhonov,Jiehua Zhu,2019-10-21 Different aspects of harmonic analysis complex analysis sampling theory approximation theory and related topics are covered in this volume The topics included are Fourier analysis Pad approximation dynamical systems and difference operators splines Christoffel functions best approximation discrepancy theory and Jackson type theorems of approximation The articles of this collection were originated from the International Conference in Approximation Theory held in Savannah GA in 2017 and organized by the editors of this volume *Boundary Value Problems* F. D. Gakhov,1990-01-01 A brilliant monograph directed to graduate and advanced undergraduate students on the theory of boundary value problems for analytic functions and its applications to the solution of singular integral equations with Cauchy and Hilbert kernels With exercises **Function Spaces, Theory and Applications** Ilia Binder,Damir Kinzebulatov,Javad Mashreghi,2023-12-11 The focus program on Analytic Function Spaces and their Applications took place at Fields Institute from July 1st to December 31st 2021 Hilbert spaces of analytic functions form one of the pillars of complex analysis These spaces have a rich structure and for more than a century have been studied by many prominent mathematicians They also have several essential applications in other fields of mathematics and engineering e g robust control engineering signal and image processing and

theory of communication The most important Hilbert space of analytic functions is the Hardy class H2 However its close cousins e g the Bergman space A2 the Dirichlet space D the model subspaces Kt and the de Branges Rovnyak spaces H b have also been the center of attention in the past two decades Studying the Hilbert spaces of analytic functions and the operators acting on them as well as their applications in other parts of mathematics or engineering were the main subjects of this program During the program the world leading experts on function spaces gathered and discussed the new achievements and future venues of research on analytic function spaces their operators and their applications in other domains With more than 250 hours of lectures by prominent mathematicians a wide variety of topics were covered More explicitly there were mini courses and workshops on Hardy Spaces Dirichlet Spaces Bergman Spaces Model Spaces Interpolation and Sampling Riesz Bases Frames and Signal Processing Bounded Mean Oscillation de Branges Rovnyak Spaces Operators on Function Spaces Truncated Toeplitz Operators Blaschke Products and Inner Functions Discrete and Continuous Semigroups of Composition Operators The Corona Problem Non commutative Function Theory Drury Arveson Space and Convergence of Scattering Data and Non linear Fourier Transform At the end of each week there was a high profile colloquium talk on the current topic The program also contained two semester long advanced courses on Schramm Loewner Evolution and Lattice Models and Reproducing Kernel Hilbert Space of Analytic Functions The current volume features a more detailed version of some of the talks presented during the program **New Trends in Analysis and Interdisciplinary Applications** Pei Dang,Min Ku,Tao Qian,Luigi G. Rodino,2017-04-18 This book presents a collection of papers from the 10th ISAAC Congress 2015 held in Macau China The papers prepared by respected international experts address recent results in Mathematics with a special focus on Analysis By structuring the content according to the various mathematical topics the volume offers specialists and non specialists alike an excellent source of information on the state of the art in Mathematical Analysis and its interdisciplinary applications **Complex Analysis – Methods, Trends, and Applications** Eberhard Lanckau,Wolfgang Tutschke,1983-12-31 No detailed description available for Complex Analysis Methods Trends and Applications *Multivariable Operator Theory* Ernst Albrecht,Raúl Curto,Michael Hartz,Mihai Putinar,2023-12-21 Over the course of his distinguished career J rg Eschmeier made a number of fundamental contributions to the development of operator theory and related topics The chapters in this volume compiled in his memory are written by distinguished mathematicians and pay tribute to his many significant and lasting achievements **More Progresses in Analysis** ,2009-05-12 International ISAAC International Society for Analysis its Applications and Computation Congresses have been held every second year since 1997 The proceedings report on a regular basis on the progresses of the field in recent years where the most active areas in analysis its applications and computation are covered Plenary lectures also highlight recent results This volume concentrates mainly on partial differential equations but also includes function spaces operator theory integral transforms and equations potential theory complex analysis and generalizations stochastic analysis

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