

Hardy-Sobolev Spaces and Algebras of Holomorphic Functions on the Unit Ball in \mathbb{C}^n

Pamela J. Ryan & Manfred Stoll

ABSTRACT. For $0 < p \leq \infty$ let $H^p(\mathbb{B}_n)$ denote the usual Hardy space of holomorphic functions on the unit ball \mathbb{B}_n in \mathbb{C}^n , $n \geq 2$. If f is a holomorphic function on \mathbb{B}_n , the radial derivative $\mathcal{R}f$ is defined by

$$\mathcal{R}f(z) = \sum_{i=1}^n z_i \frac{\partial f}{\partial z_i},$$

and for $m = 2, 3, \dots$ the m^{th} order radial derivative \mathcal{R}^m is defined by $\mathcal{R}^m f = \mathcal{R}(\mathcal{R}^{m-1} f)$. The Hardy-Sobolev space $H_{\mathcal{R}}^m(\mathbb{B}_n)$ of order m is defined as the set of holomorphic functions f on \mathbb{B}_n for which $\mathcal{R}^m f \in H^p(\mathbb{B}_n)$. The main result is as follows: **Theorem.** Let $m \in \{1, 2, 3, \dots\}$. If

- (a) $m \geq n$ and $\frac{n}{m} \leq p \leq \infty$, or
- (b) $1 \leq m < n$ ($n \geq 2$) and $\frac{n}{m} < p \leq \infty$,

then $H_{\mathcal{R}}^m(\mathbb{B}_n)$ is an algebra. Furthermore, $\|\cdot\|_{p,m,\lambda}$ defined for $p \geq 1$ by

$$\|f\|_{p,m,\lambda} = \|f\|_{\infty} + \sum_{k=1}^m \lambda_k \|\mathcal{R}^k f\|_{\frac{p}{p-1}}, \quad f \in H_{\mathcal{R}}^m(\mathbb{B}_n),$$

where $\{\lambda_k\}_{k=1}^m$ is a sequence of positive numbers satisfying

$$\lambda_k \binom{k}{j} \leq \lambda_j \lambda_{k-j}, \quad j = 1, \dots, k,$$

is a Banach algebra norm on $H_{\mathcal{R}}^m(\mathbb{B}_n)$ whenever p, m with $p \geq 1$ satisfy one of (a) or (b) above.

In the paper we also prove that if $m > n$ and $\frac{n}{m} \leq p < 1$, then $H_{\mathcal{R}}^m(\mathbb{B}_n)$ is a p -Banach algebra under a suitable p -norm on $H_{\mathcal{R}}^m(\mathbb{B}_n)$. By examples it is shown that the results are best possible.

Spaces Of Holomorphic Functions In The Unit Ball

Kehe Zhu



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Spaces of Holomorphic Functions in the Unit Ball Kehe Zhu, 2008-11-01 Can be used as a graduate text Contains many exercises Contains new results *Spaces of Holomorphic Functions in the Unit Ball* Kehe Zhu, 2006-03-22 Can be used as a graduate text Contains many exercises Contains new results *N-width for Holomorphic Functions on the Unit Ball in N-space* Thomas J. Watson IBM Research Center, C. A. Micchelli, 1986 **Theory of N_p Spaces** Le Hai Khoi, Javad Mashreghi, 2023-10-09 This monograph provides a comprehensive study of a typical and novel function space known as the N_p spaces These spaces are Banach and Hilbert spaces of analytic functions on the open unit disk and open unit ball and the authors also explore composition operators and weighted composition operators on these spaces The book covers a significant portion of the recent research on these spaces making it an invaluable resource for those delving into this rapidly developing area The authors introduce various weighted spaces including the classical Hardy space H^2 Bergman space B^2 and Dirichlet space \mathcal{D} By offering generalized definitions for these spaces readers are equipped to explore further classes of Banach spaces such as Bloch spaces \mathcal{B}_p and Bergman type spaces A_p Additionally the authors extend their analysis beyond the open unit disk \mathbb{D} and open unit ball \mathbb{B} by presenting families of entire functions in the complex plane \mathbb{C} and in higher dimensions The Theory of N_p Spaces is an ideal resource for researchers and PhD students studying spaces of analytic functions and operators within these spaces *Operator Theory in Function Spaces* Kehe Zhu, 2007 This book covers Toeplitz operators Hankel operators and composition operators on both the Bergman space and the Hardy space The setting is the unit disk and the main emphasis is on size estimates of these operators boundedness compactness and membership in the Schatten classes Most results concern the relationship between operator theoretic properties of these operators and function theoretic properties of the inducing symbols Thus a good portion of the book is devoted to the study of analytic function spaces such as the Bloch space Besov spaces and BMOA whose elements are to be used as symbols to induce the operators we study The book is intended for both research mathematicians and graduate students in complex analysis and operator theory The prerequisites are minimal a graduate course in each of real analysis complex analysis and functional analysis should sufficiently prepare the reader for the book Exercises and bibliographical notes are provided at the end of each chapter These notes will point the reader to additional results and problems Kehe Zhu is a professor of mathematics at the State University of New York at Albany His previous books include *Theory of Bergman Spaces* Springer 2000 with H Hedenmalm and B Korenblum and *Spaces of Holomorphic Functions in the Unit Ball* Springer 2005 His current research interests are holomorphic function spaces and operators acting on them *Modern Methods in Operator Theory and Harmonic Analysis* Alexey Karapetyants, Vladislav Kravchenko, Elijah Lifyand, 2019-08-28 This proceedings volume gathers selected peer reviewed papers from the Modern Methods Problems and Applications of Operator Theory and Harmonic Analysis VIII OTHA 2018 conference which was held

in Rostov on Don Russia in April 2018 The book covers a diverse range of topics in advanced mathematics including harmonic analysis functional analysis operator theory function theory differential equations and fractional analysis all fields that have been intensively developed in recent decades Direct and inverse problems arising in mathematical physics are studied and new methods for solving them are presented Complex multiparameter objects that require the involvement of operators with variable parameters and functional spaces with fractional and even variable exponents make these approaches all the more relevant Given its scope the book will especially benefit researchers with an interest in new trends in harmonic analysis and operator theory though it will also appeal to graduate students seeking new and intriguing topics for further investigation

The Dirichlet Space and Related Function Spaces Nicola Arcozzi, Richard Rochberg, Eric T. Sawyer, Brett D.

Wick, 2019-09-03 The study of the classical Dirichlet space is one of the central topics on the intersection of the theory of holomorphic functions and functional analysis It was introduced about 100 years ago and continues to be an area of active current research The theory is related to such important themes as multipliers reproducing kernels and Besov spaces among others The authors present the theory of the Dirichlet space and related spaces starting with classical results and including some quite recent achievements like Dirichlet type spaces of functions in several complex variables and the corona problem The first part of this book is an introduction to the function theory and operator theory of the classical Dirichlet space a space of holomorphic functions on the unit disk defined by a smoothness criterion The Dirichlet space is also a Hilbert space with a reproducing kernel and is the model for the dyadic Dirichlet space a sequence space defined on the dyadic tree These various viewpoints are used to study a range of topics including the Pick property multipliers Carleson measures boundary values zero sets interpolating sequences the local Dirichlet integral shift invariant subspaces and Hankel forms Recurring themes include analogies sometimes weak and sometimes strong with the classical Hardy space and the analogy with the dyadic Dirichlet space The final chapters of the book focus on Besov spaces of holomorphic functions on the complex unit ball a class of Banach spaces generalizing the Dirichlet space Additional techniques are developed to work with the nonisotropic complex geometry including a useful invariant definition of local oscillation and a sophisticated variation on the dyadic Dirichlet space Descriptions are obtained of multipliers Carleson measures interpolating sequences and multiplier interpolating sequences estimates are obtained to prove corona theorems

Banach Spaces and their Applications in Analysis

Beata Randrianantoanina, Narcisse Randrianantoanina, 2011-12-22 In recent years there has been a surge of profound new developments in various aspects of analysis whose connecting thread is the use of Banach space methods Indeed many problems seemingly far from the classical geometry of Banach spaces have been solved using Banach space techniques This volume contains papers by participants of the conference Banach Spaces and their Applications in Analysis held in May 2006 at Miami University in Oxford Ohio in honor of Nigel Kalton's 60th birthday In addition to research articles contributed by participants the volume includes invited expository articles by principal speakers of the conference who are leaders in their

areas These articles present overviews of new developments in each of the conference's main areas of emphasis namely nonlinear theory isomorphic theory of Banach spaces including connections with combinatorics and set theory algebraic and homological methods in Banach spaces approximation theory and algorithms in Banach spaces This volume also contains an expository article about the deep and broad mathematical work of Nigel Kalton written by his long time collaborator Gilles Godefroy Godefroy's article and in fact the entire volume illustrates the power and versatility of applications of Banach space methods and underlying connections between seemingly distant areas of analysis

Complex Analysis and Potential Theory Andre Boivin, Javad Mashreghi, 2012 This is the proceedings volume of an international conference entitled Complex Analysis and Potential Theory which was held to honor the important contributions of two influential analysts Kohur N Gowri Sankaran and Paul M Gauthier in June 2011 at the Centre de Recherches Mathematiques CRM in Montreal More than fifty mathematicians from fifteen countries participated in the conference The twenty four surveys and research articles contained in this book are based on the lectures given by some of the most established specialists in the fields They reflect the wide breadth of research interests of the two honorees from potential theory on trees to approximation on Riemann surfaces from universality to inner and outer functions and the disc algebra from branching processes to harmonic extension and capacities from harmonic mappings and the Harnack principle to integration formulae in \mathbb{C}^n and the Hartogs phenomenon from fine harmonicity and plurisubharmonic functions to the binomial identity and the Riemann hypothesis and more This volume will be a valuable resource for specialists young researchers and graduate students from both fields complex analysis and potential theory It will foster further cooperation and the exchange of ideas and techniques to find new research perspectives

Harmonic Analysis in China Minde Cheng, Dong-gao Deng, Sheng Gong, Chung-Chun Yang, 2012-12-06 Harmonic Analysis in China is a collection of surveys and research papers written by distinguished Chinese mathematicians from within the People's Republic of China and expatriates The book covers topics in analytic function spaces of several complex variables integral transforms harmonic analysis on classical Lie groups and manifolds LP estimates of the Cauchy Riemann equations and wavelet transforms The reader will also be able to trace the great influence of the late Professor Loo keng Hua's ideas and methods on research into harmonic analysis on classical domains and the theory of functions of several complex variables Western scientists will thus become acquainted with the unique features and future trends of harmonic analysis in China Audience Analysts as well as engineers and physicists who use harmonic analysis

Function Spaces in Analysis Krzysztof Jarosz, 2015-07-28 This volume contains the proceedings of the Seventh Conference on Function Spaces which was held from May 20-24 2014 at Southern Illinois University at Edwardsville The papers cover a broad range of topics including spaces and algebras of analytic functions of one and of many variables and operators on such spaces spaces of integrable functions spaces of Banach valued functions isometries of function spaces geometry of Banach spaces and other related subjects

Lectures on Analytic Function Spaces and their Applications Javad

Mashreghi, 2023-10-13 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 have essential applications in other fields of mathematics and engineering The most important Hilbert space of analytic functions is the Hardy class H^2 However its close cousins the Bergman space A^2 the Dirichlet space D the model subspaces K_t and the de Branges-Rovnyak spaces $H(b)$ have also garnered attention in recent decades Leading experts on function spaces gathered and discussed new achievements and future venues of research on analytic function spaces their operators and their applications in other domains With over 250 hours of lectures by prominent mathematicians the program spanned a wide variety of topics More explicitly there were courses and workshops on Interpolation and Sampling Riesz Bases Frames and Signal Processing Bounded Mean Oscillation de Branges-Rovnyak Spaces Blaschke Products and Inner Functions and Convergence of Scattering Data and Non-linear Fourier Transform among others At the end of each week there was a high profile colloquium talk on the current topic The program also contained two advanced courses on Schramm-Loewner Evolution and Lattice Models and Reproducing Kernel Hilbert Space of Analytic Functions This volume features the courses given on Hardy Spaces Dirichlet Spaces Bergman Spaces Model Spaces Operators on Function Spaces Truncated Toeplitz Operators Semigroups of weighted composition operators on spaces of holomorphic functions the Corona Problem Non-commutative Function Theory and Drury-Arveson Space This volume is a valuable resource for researchers interested in analytic function spaces

New Constructions of Functions Holomorphic in the Unit Ball of C^n Walter Rudin, 1986 Uses as a starting point Aleksandrov's proof that nonconstant inner functions exist in the unit ball B of C^n This title simplifies the construction of such functions by using certain homogeneous polynomials discovered by Ryll and Wojtaszczyk this yields solutions to a large number of problems

Complex Analysis and Dynamical Systems III Mark L'vovich Agranovskii, 2008 The papers in this volume cover a wide variety of topics in the geometric theory of functions of one and several complex variables including univalent functions conformal and quasiconformal mappings minimal surfaces and dynamics in infinite dimensional spaces In addition there are several articles dealing with various aspects of approximation theory and partial differential equations Taken together the articles collected here provide the reader with a panorama of activity in complex analysis drawn by a number of leading figures in the field

Hilbert Spaces of Analytic Functions Javad Mashreghi, Thomas Ransford, Kristian Seip, 2010-01-01 , *Analysis, PDEs, and Applications* Zhirayr Avetisyan, Michael Ruzhansky, Armen Vagharshakyan, 2025-09-19 The present volume collects extended abstracts of lectures and talks presented at the Summer School and Conference Analysis PDEs and Applications held 24 June 6 July 2024 at Yerevan State University Armenia The thematic scope of contributions includes linear and non-linear partial differential equations spectral theory and microlocal analysis harmonic and functional analysis theory of functions and approximation

theory and applications in mathematical physics Each talk or lecture begins with a survey of a body of mathematical work either classic or modern leading up to recent advances This is followed by an exposition of either a specific research problem or a broader area of modern mathematical research presented by an expert in the field The volume will be of interest to not only students and young researchers but also experts looking for a crash course in the main concepts and ideas in one of the many advanced mathematical topics discussed

Mobius Invariant QK Spaces Hasi Wulan, Kehe Zhu, 2017-07-03 This monograph summarizes the recent major achievements in Mobius invariant QK spaces First introduced by Hasi Wulan and his collaborators the theory of QK spaces has developed immensely in the last two decades and the topics covered in this book will be helpful to graduate students and new researchers interested in the field Featuring a wide range of subjects including an overview of QK spaces QK Teichmüller spaces Carleson measures and analysis of weight functions this book serves as an important resource for analysts interested in this area of complex analysis Notes numerous exercises and a comprehensive up to date bibliography provide an accessible entry to anyone with a standard graduate background in real and complex analysis

Composition Operators on Hardy-Orlicz Spaces Pascal Lefèvre, 2010 The authors investigate composition operators on Hardy Orlicz spaces when the Orlicz function Ψ grows rapidly compactness weak compactness to be p summing order bounded and show how these notions behave according to the growth of Ψ They introduce an adapted version of Carleson measure They construct various examples showing that their results are essentially sharp In the last part they study the case of Bergman Orlicz spaces Publisher's description

Operator Theory, Analysis and the State Space Approach Harm Bart, Sanne ter Horst, André C.M. Ran, Hugo J. Woerdeman, 2018-12-30 This volume is dedicated to Rien Kaashoek on the occasion of his 80th birthday and celebrates his many contributions to the field of operator theory during more than fifty years In the first part of the volume biographical information and personal accounts on the life of Rien Kaashoek are presented Eighteen research papers by friends and colleagues of Rien Kaashoek are included in the second part Contributions by J Agler Z A Lykova N J Young J A Ball G J Groenewald S ter Horst H Bart T Ehrhardt B Silbermann J M Bogoya S M Grudsky I S Malysheva A B Tchier E Wegert Z Zhou Y Eidelman I Haimovici A E Frazho A C M Ran B Fritzsche B Kirstein C Madler J J Jaftha D B Janse van Rensburg P Junghanns R Kaiser J Nemcova M Petreczky J H van Schuppen L Plevnik P Semrl A Sakhnovich F O Speck S Sremac H J Woerdeman H Wolkowicz and N Vasilevski

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