

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

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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, 2005-02-08 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

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

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

New Constructions of Functions Holomorphic in the Unit Ball of $\mathbb{C}^n$ Walter Rudin, 1986 Uses as a starting point A B Aleksandrov's proof that nonconstant inner functions exist in the unit ball B of $\mathbb{C}^n$ 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 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 GowriSankaran 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

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