# 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 $m = 2, 3, \ldots,$ the $m^{\text{th}}$ order radial derivative $\mathcal{R}^m$ is defined by $\mathcal{R}^m f = \mathcal{R}(\mathcal{R}^{m-1} f)$. The Hardy-Sobolev space $H^p_m(\mathbb{B}_n)$ 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 $m \in \{1, 2, 3, \ldots\}$. 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 $H^p_m(\mathbb{B}_n)$ is an algebra. Furthermore, $\| \ \|_{p,m,\lambda}$ defined for $p \geq 1$ by

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

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

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

is a Banach algebra norm on $H^p_m(\mathbb{B}_n)$ 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 $H^p_m(\mathbb{B}_n)$ is a $p$-Banach algebra under a suitable $p$-norm on $H^p_m(\mathbb{B}_n)$. By examples it is shown that the results are best possible.

# Spaces Of Holomorphic Functions In The Unit Ball

**Harm Bart,Sanne ter Horst,André C.M. Ran,Hugo J. Woerdeman**

**Spaces Of Holomorphic Functions In The Unit Ball:**

   **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    <u>Banach Spaces and their Applications in Analysis</u> 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    <u>Operator Theory in Function Spaces</u> 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    <u>Theory of Np Spaces</u> Le Hai Khoi,Javad Mashreghi,2023-10-09 This monograph provides a comprehensive

study of a typical and novel function space known as the mathcal 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 mathcal N _p Spaces is an ideal resource for researchers and PhD students studying spaces of analytic functions and operators within these spaces      *Modern Methods in Operator Theory and Harmonic Analysis* Alexey Karapetyants,Vladislav Kravchenko,Elijah Liflyand,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 about100 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 **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 **Hilbert Spaces of Analytic Functions** Javad Mashreghi,Thomas Ransford,Kristian Seip,2010-01-01 <u>Lectures on Analytic Function Spaces and their Applications</u> 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 H2 However its close cousins the Bergman space A2 the Dirichlet space D the model subspaces Kt 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 <u>Analysis, PDEs, and Applications</u> 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     New Constructions of Functions Holomorphic in the Unit Ball of $C^n$ Walter Rudin,1986 Uses as a starting point A B Aleksandrov s proof that nonconstant inner functions exist in the unit ball B of C DEGREESn 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 pr     *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 ttcher 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     ,     **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     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 **Complex Analysis and Dynamical Systems III** Mark L′vovich Agranovskiĭ,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 Composition Operators on Hardy-Orlicz Spaces Pascal Lefèvre,2010 The authors investigate composition operators on Hardy Orlicz spaces when the Orlicz function Psi grows rapidly compactness weak compactness to be p summing order bounded and show how these notions behave according to the growth of Psi 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 **Advanced Courses of Mathematical Analysis IV** Francisco Javier P□rez-Fern ndez,Fernando Rambla-Barreno,2012 This proceedings is a collection of articles by front line researchers in Mathematical Analysis giving the reader a wide perspective of the current research in several areas like Functional Analysis Complex Analysis and Measure Theory The works are a fundamental source for current and future developments in these research fields The articles and surveys have been collected as well as reference results scattered in the corresponding literature and thus are highly useful to researchers

Reviewing **Spaces Of Holomorphic Functions In The Unit Ball**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Spaces Of Holomorphic Functions In The Unit Ball**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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**Table of Contents Spaces Of Holomorphic Functions In The Unit Ball**

1. Understanding the eBook Spaces Of Holomorphic Functions In The Unit Ball
   - The Rise of Digital Reading Spaces Of Holomorphic Functions In The Unit Ball
   - Advantages of eBooks Over Traditional Books
2. Identifying Spaces Of Holomorphic Functions In The Unit Ball
   - Exploring Different Genres
   - Considering Fiction vs. Non-Fiction
   - Determining Your Reading Goals
3. Choosing the Right eBook Platform
   - Popular eBook Platforms
   - Features to Look for in an Spaces Of Holomorphic Functions In The Unit Ball
   - User-Friendly Interface
4. Exploring eBook Recommendations from Spaces Of Holomorphic Functions In The Unit Ball
   - Personalized Recommendations
   - Spaces Of Holomorphic Functions In The Unit Ball User Reviews and Ratings
   - Spaces Of Holomorphic Functions In The Unit Ball and Bestseller Lists

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