

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

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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.

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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
5. Accessing Spaces Of Holomorphic Functions In The Unit Ball Free and Paid eBooks

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 - Spaces Of Holomorphic Functions In The Unit Ball eBook Subscription Services
 - Spaces Of Holomorphic Functions In The Unit Ball Budget-Friendly Options
6. Navigating Spaces Of Holomorphic Functions In The Unit Ball eBook Formats
 - ePub, PDF, MOBI, and More
 - Spaces Of Holomorphic Functions In The Unit Ball Compatibility with Devices
 - Spaces Of Holomorphic Functions In The Unit Ball Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Spaces Of Holomorphic Functions In The Unit Ball
 - Highlighting and Note-Taking Spaces Of Holomorphic Functions In The Unit Ball
 - Interactive Elements Spaces Of Holomorphic Functions In The Unit Ball
 8. Staying Engaged with Spaces Of Holomorphic Functions In The Unit Ball
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Spaces Of Holomorphic Functions In The Unit Ball
 9. Balancing eBooks and Physical Books Spaces Of Holomorphic Functions In The Unit Ball
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Spaces Of Holomorphic Functions In The Unit Ball
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Spaces Of Holomorphic Functions In The Unit Ball
 - Setting Reading Goals Spaces Of Holomorphic Functions In The Unit Ball
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Spaces Of Holomorphic Functions In The Unit Ball
 - Fact-Checking eBook Content of Spaces Of Holomorphic Functions In The Unit Ball
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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