PublisherInfo		
PublisherName	:	Springer International Publishing
PublisherLocation	:	Cham
PublisherImprintName	:	Springer

An Estimate of the Essential Norm of a Composition Operator from $F(p,q,s)$ to $\mathcal{B}^{\alpha}$ in the Unit Ball

ArticleInfo		
ArticleID	:	2061
ArticleDOI	:	10.1155/2010/132970
ArticleCitationID	:	132970
ArticleSequenceNumber	:	13
ArticleCategory	:	Research Article
ArticleFirstPage	:	1

ArticleLastPage	:	1
ArticleHistory	:	RegistrationDate : 2009–6–29 Received : 2009–6–29 Revised : 2010–1–9 Accepted : 2010–2–17 OnlineDate : 2010–3–2
ArticleCopyright	:	The Author(s).2010 This article is published under license to BioMed Central Ltd. This is an open access article distributed under the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.
ArticleGrants	:	
ArticleContext	:	136602010201011

Hong-Gang Zeng,[Aff1]
Email: zengshi_79@eyou.com

Ze-Hua Zhou,[Aff1]
Corresponding Affiliation: Aff1
Email: zehuazhou2003@yahoo.com.cn

Aff1 Department of Mathematics, Tianjin University, Tianjin 300072, China

Abstract

Let B_n be the unit ball of $\mathbb{C}^n$ and $\phi=(\phi_1,\ldots,\phi_n)$ a holomorphic self-map of B_n. Let $0<p,s<\infty$, $-n-1<q<\infty$, $q+s>-1$, $\alpha>0$, and let C_ϕ be the composition operator between the space $F(p,q,s)$ and α-Bloch space $\mathcal{B}^\alpha$ induced by ϕ. This paper gives an estimate of the essential norm of C_ϕ. As a consequence, a necessary and sufficient condition for the composition

operator C_ϕ to be compact from $F(p,q,s)$ to $\mathcal{B}^\alpha$ is obtained.

Publisher note

To access the full article, please see PDF.

BodyRef		
FileRef	:	BodyRef/PDF/13660_2009_Article_2061.pdf
TargetType	:	OnlinePDF