



Composition Operators on Vector-Valued Function Spaces

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Abstract

In this paper we consider the norm of composition operators on vector-valued function spaces. Let X be a complex Banach space and θ be an inner function. We show that the norm of the composition operator C_θ on the vector-valued Hardy space $H^p(\mathbb{T}, X)$ ($1 \leq p < \infty$) is given by

$$\|C_\theta\|_{\mathcal{B}(H^p(\mathbb{T}, X))} = \left(\frac{1 + |\theta(0)|}{1 - |\theta(0)|} \right)^{\frac{1}{p}}.$$

Also we are concerned with the Poisson integral of vector-valued function on the unit circle $\mathbb{T}$ and showed some properties in composition operators on vector-valued function spaces, and operator-valued function spaces.

Keywords Composition operators · Vector-valued functions · Poisson integrals

Mathematics Subject Classification Primary 47B33 · 46E40; Secondary 42B30

1 Introduction

In this paper, we are concerned with the norm of composition operator C_θ on the vector-valued function spaces, and operator-valued function spaces. Also we consider the Poisson integral of vector-valued function on the unit circle $\mathbb{T}$ and showed some properties (isometricity, invertibility, unitarity) in composition operators on vector-valued function spaces. For an inner function θ , the composition operator $C_\theta : L^2(\mathbb{T}) \rightarrow L^2(\mathbb{T})$ is defined by

$$C_\theta f := f \circ \theta.$$

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