

Title: Integral type operators between logarithmic Bloch-type space and $F(p, q, s)$ space on the unit ball

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Let $H(\mathbb{B}_N)$ be the space of all holomorphic functions on the unit ball $\mathbb{B}_N$ in $\mathbb{C}^N$, and $S(\mathbb{B}_N)$ the collection of all holomorphic self-maps of $\mathbb{B}_N$. Let $\varphi \in S(\mathbb{B}_N)$ and $g \in H(\mathbb{B}_N)$, the generalized composition operator is defined by

$$C_\varphi^g(f)(z) = \int_0^1 \Re f(\varphi(tz))g(tz) \frac{dt}{t},$$

and the product of composition and integral operators is defined by

$$P_\varphi^g(f)(z) = \int_0^1 f(\varphi(tz))g(tz) \frac{dt}{t}.$$

In this paper, we characterize the boundedness and compactness of these two integral operators, acting from the logarithmic Bloch-type space to $F(p, q, s)$ space on the unit ball $\mathbb{B}_N$.

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