

Title: Compactness of Riemann–Stieltjes operators between $F(p, q, s)$ spaces and α -Bloch spaces

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Let $H(B)$ denote the space of all holomorphic functions on the unit ball $B \subset \mathbb{C}^n$. In this paper we investigate the following integral operators

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

$f \in H(B)$, $z \in B$, where $g \in H(B)$ and $\Re h(z) = \sum_{j=1}^n z_j \frac{h}{z_j}(z)$ is the radial derivative of h . The operator T_g can be considered as an extension of the Cesàro operator on the unit disk. The compactness of the operators T_g and L_g between the general function space $F(p, q, s)$, which includes the Hardy space, Bergman space, Bloch space, and Q_p space, and the α -Bloch space are discussed.

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