

## Volterra composition operators from generalized weighted Bergman spaces to $\mu$ -Bloch spaces

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**Abstract.** Let  $\varphi$  be a holomorphic self-map and  $g$  be a fixed holomorphic function on the unit ball  $B$ . The boundedness and compactness of the operator

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

from the generalized weighted Bergman space into the  $\mu$ -Bloch space are studied in this paper.

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### 1. Introduction

Let  $B$  be the unit ball of  $\mathbb{C}^n$ . Let  $z = (z_1, \dots, z_n)$  and  $w = (w_1, \dots, w_n)$  be points in  $\mathbb{C}^n$ , we write

$$\langle z, w \rangle = z_1 \bar{w}_1 + \dots + z_n \bar{w}_n, \quad |z| = \sqrt{|z_1|^2 + \dots + |z_n|^2}.$$

Thus  $B = \{z \in \mathbb{C}^n : |z| < 1\}$ . Let  $dv$  be the normalized Lebesgue measure of  $B$ , i.e.  $v(B) = 1$ . Let  $H(B)$  be the space of all holomorphic functions