DIFFERENCE OF COMPOSITION OPERATORS
ON THE BERGMAN SPACES OVER THE BALL

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Abstract. This paper characterizes the compactness of a linear combination of three composition operators on $A^p_\alpha(\mathbb{B}^N)$, the weighted Bergman space over the unit ball $\mathbb{B}^N$ in $\mathbb{C}^N$. In this setting, we show that there is no cancellation property for the compactness of double difference of composition operators, which extends Koo-Wang's results over the unit disk in [13]. In addition, we investigate the compactness and essential norm estimate of the differences of weighted composition operators between weighted Bergman spaces.

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