

COMPOSITION OPERATORS
BETWEEN WEIGHTED BERGMAN SPACES
AND WEIGHTED BANACH SPACES
OF HOLOMORPHIC FUNCTIONS

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Abstract. An analytic self-map ϕ of the open unit disk \mathbb{D} in the complex plane induces the so-called composition operator $C_\phi : H(\mathbb{D}) \rightarrow H(\mathbb{D})$, $f \mapsto f \circ \phi$, where $H(\mathbb{D})$ denotes the set of all analytic functions on \mathbb{D} . Motivated by [5] we analyze under which conditions on the weight v all composition operators C_ϕ acting between the weighted Bergman space and the weighted Banach space of holomorphic functions both generated by v are bounded.

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Key words. Weighted Banach space of holomorphic functions, weighted Bergman space, composition operator.

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