

**TOEPLITZ OPERATORS AND MULTIPLICATION  
OPERATORS IN THE COMMUTANT OF A  
COMPOSITION OPERATOR ON WEIGHTED  
BERGMAN SPACES**

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**Abstract.** Let  $\varphi$  be an analytic self-map of  $\mathbb{D}$ . We investigate which Toeplitz operators and multiplication operators commute with a given composition operator  $C_\varphi$  on  $A_\alpha^p(\mathbb{D})$  for  $1 < p < \infty$  and  $-1 < \alpha < \infty$ . Let  $S$  be a bounded linear operator in the commutant of  $C_\varphi$ . We show that under a certain condition on  $S$ ,  $S$  is a polynomial in  $C_\varphi$ .

[Full text](#)

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