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Coposinormal weighted composition operators on $H^2(D)$. (English) Zbl 07487920

Summary: In this paper, we study coposinormal composition operators and posinormal weighted composition operators on the Hardy space $H^2(D)$. We show that if $W_{\psi, \varphi}$ is coposinormal on $H^2(D)$, then $\varphi$ never vanishes on $D$ also we prove that $\varphi$ is univalent. Moreover, we study the commutant of a coposinormal weighted composition operator.

MSC:
47B20 Subnormal operators, hyponormal operators, etc.
47B33 Linear composition operators
47B38 Linear operators on function spaces (general)

Keywords:
posinormal operator; composition operator; cyclic operator; Toeplitz operator; Hardy space

Full Text: DOI

References:

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