TOEPLITZ OPERATORS AND WEIGHTED NORM INEQUALITIES ON THE BIDISC

Takahiko Nakazi

Abstract. Let $H^p$ be the Hardy space on the bidisc and $1 < p < \infty$. For a function $\phi$ in $L^\infty$, we study the norm of the Hankel operator $H_\phi$ on $H^p$ and the invertibility of the Toeplitz operator $T_\phi$ on $H^p$. The latter is strongly related to weighted norm inequalities on the bidisc.

Key words and phrases: Toeplitz operator, weighted norm inequality, several variables, invertibility, Hankel operator.

REFERENCES