Zero Product of Two-level Toeplitz Operators

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Abstract

In this talk I will give necessary and sufficient conditions for $T_f T_g = T_f g$ where $T_f$ and $T_g$ are Toeplitz operators on the Hardy space of bidisk. I will then show that $T_f T_g = 0$ if and only if $f$ or $g$ is identically zero. This result is an extension of the well-known result by A. Brown and P. Halmos.