Rudol, K.

A model for some analytic Toeplitz operators. (English) Zbl 0766.47007

Stud. Math. 100, No. 1, 81-86 (1991).

Let G be a bounded plane domain, $f \in H^\infty(G)$ a nonconstant function, $\Omega = f(G)$, and T_f the multiplication by f acting on the Hardy space $H^p(G)$, $1 \leq p < \infty$. Using a change of variable method, the author gives some sufficient conditions such that the operator T_f is isometrically equivalent to a bundle shift over Ω, and some applications on essential spectra.

Reviewer: B.D.Khanh (Paris)

MSC:

47B35 Toeplitz operators, Hankel operators, Wiener-Hopf operators
46J15 Banach algebras of differentiable or analytic functions, H^p-spaces
47A15 Invariant subspaces of linear operators

Keywords:

Hardy space; change of variable; isometrically equivalent to a bundle shift; essential spectra

Full Text: DOI EuDML