

NOTES ON THE L^p -TOEPLITZ ALGEBRA ON $L^p(N)$

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Abstract: Let $p > 1$, the L^p Toeplitz algebra is a Banach algebra generated by unilateral shift and its reverse on $L^p(N)$. This algebra contains the compact operators on $L^p(N)$ as a closed two - sided ideal. In this talk, we show that the quotient by this ideal is isometrically isomorphic to the reduced group L^p operator algebra of the integers. This answers a question of Phillips. As an application, we show that the K - theory of the L^p Toeplitz algebra is independent of p .