A Pseudo-differential C*-algebra of Operators on Hardy Spaces of Analytic Functions and Composition Operators Uğur Gül 19/02/2010

Pseudo-differential C*-algebras are C*-algebras of operators generated by multiplication operators and Fourier multipliers. By the help of Paley-Wiener theorem we consider them as the C* algebra of operators on Hardy spaces generated by Toeplitz operators and Fourier multipliers. We show that a certain class of composition operators fall in such a pseudo-differential C*-algebra. Using this fact we analyse the essential spectra of a class of composition operators.