1077-47-1746 **Maria Neophytou*** (maria.neophytou@belmont.edu). *On the Point Spectrum of the Adjoints of Some Composition Operators and Weighted Composition Operators.*

Let H^2 be the Hardy-Hilbert space. If φ is an analytic map of the unit disk into itself and ψ is analytic on the disk, the composition operator C_φ with symbol φ is defined by $C_\varphi f = f \circ \varphi$, and the weighted composition operator $W_{\psi,\varphi}$ by $W_{\psi,\varphi} f = \psi(f \circ \varphi)$, for f in H^2. We look at adjoints of composition operators with symbols φ that have a fixed point inside the disk and a fixed point on the boundary with finite angular derivative there. By imposing a few extra assumptions on φ, we show that the point spectrum of the adjoint contains a disk centered at the origin, and that the corresponding eigenspaces are infinite-dimensional. We also identify a subspace of H^2 which is invariant for the adjoint and on which the adjoint acts like a weighted shift. Finally, we generalize these results for weighted composition operators. (Received September 20, 2011)