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Brittney R. Miller* (mille753@purdue.edu). *Kernels of Composition Operators and Their Adjoints on the Bergman Space*. Preliminary report.

Let φ be an analytic function from \mathbb{D} to itself. Then, the composition operator C_φ , with symbol φ , is defined by $C_\varphi f = f \circ \varphi$ for f in a Hilbert space of analytic functions on \mathbb{D} . Results in the Hardy space relate the kernels and spectra of this composition operator and its adjoint to properties of φ . In this talk, I will discuss similar results in the Bergman space for the class of functions φ where $\varphi(0) = 0 = \varphi'(0)$. (Received September 15, 2014)