

# Operators of Class $C_0$ With Spectra in Multiply Connected Regions (Memoirs of the American Mathematical Society)



Let  $\Omega$  be a bounded finitely connected region in the complex plane, whose boundary  $\Gamma$  consists of disjoint, analytic, simple closed curves. The author considers linear bounded operators on a Hilbert space  $H$  having  $\overline{\Omega}$  as spectral set, and no normal summand with spectrum in  $\Gamma$ . For each operator satisfying these properties, the author defines a weak $^*$ -continuous functional calculus representation on the Banach algebra of bounded analytic functions on  $\Omega$ . An operator is said to be of class  $C_0$  if the associated functional calculus has a non-trivial kernel. In this work, the author studies operators of class  $C_0$ , providing a complete classification into quasisimilarity classes, which is analogous to the case of the unit disk.

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