Abstract

Let $(a^z)_{\Re z > 0}$ be a holomorphic semigroup in a Banach algebra. Provided that a certain integral along the line $\Re z = 1$ is finite, it is possible to estimate $\|a^z\|$ purely in terms of this integral and the spectral radius of a. This generalizes earlier results of Esterle and Sinclair (used to prove tauberian theorems), which were applicable just to radical Banach algebras.