

J. E. Galé and T. J. Ransford, **On the growth of analytic semigroups along vertical lines**, *Studia Math.*, 138 (2000), 165–177.

**Abstract**

We construct two Banach algebras, one which contains analytic semigroups  $(a^z)_{\Re z > 0}$  such that  $\|a^{1+iy}\| \rightarrow \infty$  arbitrarily slowly as  $|y| \rightarrow \infty$ , the other which contains ones such that  $\|a^{1+iy}\| \rightarrow \infty$  arbitrarily fast.