# SUMS OF AN ENTIRE FUNCTION IN CERTAIN WEIGHTED $L^{2}$-SPACES 

Bruno Brive


#### Abstract

We consider the functional equation $f(z+\sigma)-f(z)=g(z)$ where $\sigma$ is a complex number, $f$ and $g$ are entire functions of a complex variable $z$, with growth conditions. We prove the existence of certain types of solutions of this equation by an a priori estimate method in certain weighted $L^{2}$-spaces.


Key words. Entire functions, Bergman spaces, difference operators, translation operators, a priori estimates.

