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

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*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.