
We use the tight frame associated with a Wilson basis \( \{ \psi_{j,k} \} \) to create a convolution for Gabor systems which are Bessel. The function \( \{ \psi_{0,0} \} \) acts as a left identity for this convolution when we restrict to the Modulation space \( M^1 \) with norm defined by the Wilson basis \( \{ \psi_{j,k} \} \). We use the convolution to approximate the canonical duals of \( M^1 \) functions with \( M^1 \) functions. (Received September 27, 2002)