Byoung Soo Kim (mathkbs@dreamwiz.com), Department of Mathematics, Yonsei University, 120-749 Seoul, Korea, and David L Skoug* (dskoug@math.unl.edu). Integral transforms of functionals in $L_2(C_0[0,T])$.

In this paper we give a necessary and sufficient condition that a functional F(x) in $L_2(C_0[0,T])$ has an integral transform $\mathcal{F}_{\alpha,\beta}F(x)$ which also belongs to $L_2(C_0[0,T])$. (Received September 29, 2000)