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Seung Jun Chang, Hyun Soo Chung and David Skoug* (dskoug@math.unl.edu),
Department of Mathematics, University of Nebraska-Lincoln, Lincoln, NE 68588-0130. *Convolution
Products, Integral Transforms and Inverse Integral Transforms of Functionals in $L_2(C_0[0, T])$.*

In this paper we establish several very basic formulas relating convolution products, integral transforms and inverse integral transforms for functionals in $L_2(C_0[0, T])$. The expansion of functionals in $L_2(C_0[0, T])$ in terms of Fourier-Hermite functionals plays a key role. (Received September 09, 2008)