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Hamed M Obiedat* (hobiedat@hu.edu.jo), Hashemite University, Department of Mathematics, P.O. 13115, Zarqa, 150459, Jordan. *Short-time Fourier transform over the Silva space.*

We use a previously obtained symmetric characterization of the silva \mathcal{G} of test functions for Fourier ultrahyperfunctions, to prove a characterization via the short-time Fourier transform. We use the characterizations of \mathcal{G} to prove representation theorems for the dual space \mathcal{G}' . The proof of the representation theorems based on the classical F. Riesz representation theorem. (Received July 18, 2007)