

On Fourier Type Integral Transform for a Class of Generalized Quotients

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Abstract : In this paper, we investigate certain spaces of generalized functions for the Fourier and Fourier type integral transforms. We discuss convolution theorems and establish certain spaces of distributions for the considered integrals. The new Fourier type integral is well-defined, linear, one-to-one and continuous with respect to certain types of convergences. Many properties and an inverse problem are also discussed in some details.

Keywords : Boehmian, Fourier integral, Fourier type integral, generalized quotient

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