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RESEARCH ARTICLE

On Fourier-Bessel matrix transforms and applications

Mohamed Abdalla, Salah Boulaaras✉, Mohamed Akel,

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Abstract

The Fourier-Bessel transform is an integral transform and is also known as the Hankel transform. This transform is a very important tool in solving many problems in mathematical sciences, physics, and engineering. Very recently, Abdalla (AIMS Mathematics 6: [2021], 6122–6139) introduced certain Hankel integral transforms associated with functions involving generalized Bessel matrix polynomials and various applications. Motivated by this work, we introduce the Fourier-Bessel matrix transform (FBMT) containing Bessel matrix function of the first kind as a kernel. The corresponding inversion formula and several illustrative examples of this transform have been presented. A relation between the Laplace transform and the FBMT has been obtained. Furthermore, a convolution of the FBMT is constructed with some properties. In addition,

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