M.N. Lazhari

Paley-Wiener theorems for the Schrodinger operator on $\mathbb{R}$

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Abstract: In this paper we define and study generalized Fourier transforms associated with some class of Schrodinger operators on $\mathbb{R}$. Next, we establish Paley-Wiener type theorems which characterize some functional spaces by their generalized Fourier transforms.

Keywords: Schrodinger operator, generalized eigenfunctions, generalized Fourier transforms, Paley-Wiener theorems
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