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Riesz bases of normalized reproducing kernels in Fock type spaces. (English) Zbl 07438138

Summary: We describe some radial Fock type spaces which possess Riesz bases of normalized reproducing kernels, the spaces $F_{\varphi}$ of entire functions $f$ such that $fe^{-\varphi} \in L_2(\mathbb{C})$, where $\varphi(z) = \varphi(|z|)$ is a radial subharmonic function. We prove that $F_{\varphi}$ has Riesz basis of normalized reproducing kernels for sufficiently regular $\psi(r) = \varphi(e^r)$ such that $\psi''(r)$ is bounded above.

MSC:

46E22 Hilbert spaces with reproducing kernels (= (proper) functional Hilbert spaces, including de Branges-Rovnyak and other structured spaces)
30D10 Representations of entire functions of one complex variable by series and integrals

Keywords:
Hilbert spaces; entire functions; reproducing kernels; unconditional bases; Riesz bases

Full Text: DOI

References:


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