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Research Article

Clifford analytic complete function systems for unbounded domains

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Abstract

The main theme of this paper is to construct Clifford analytic-complete function systems in the generalized Bergman spaces:  $B^p Cl_n(\Omega) := \ker D(\Omega) \cap L^p Cl_n(\Omega)$ , and  $B^{p,2} Cl_n(\Omega) := \ker \Delta(\Omega) \cap L^p Cl_n(\Omega)$ . These systems are used to approximate null solutions of elliptic partial differential equations of the *Dirac* and *Laplace* operators over an unbounded domain  $\Omega$  in  $\mathbb{R}^n$ . Copyright ©2002 John Wiley & Sons, Ltd.

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