

APPROXIMATION BY POLYANALYTIC FUNCTIONS IN HÖLDER SPACES

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ABSTRACT. The problem of approximation of functions on plane compact sets by polyanalytic functions of order higher than two in the Hölder spaces C^m , $m \in (0, 1)$, is significantly more complicated than the well-studied problem of approximation by analytic functions. In particular, the fundamental solutions of the corresponding operators belong to all the indicated Hölder spaces, but this does not lead to the triviality of the approximation conditions.

In the model case of polyanalytic functions of order 3, approximation conditions and a constructive approximation method generalizing the Vitushkin localization method are studied. Some unsolved problems are formulated.

§1. INTRODUCTION

Let $\bar{\partial} = \partial/\partial\bar{z}$ be the Cauchy–Riemann operator on the complex plane $\mathbb{C}$ of the variable $z = x + iy$. A function f is said to be *polyanalytic of order n* on an open set D in $\mathbb{C}$ (in symbols, $f \in A_n(D)$) if $f \in C^n(D)$ and $\bar{\partial}^n f = 0$ in D . It is well known (see, e.g., [1]) that the condition $f \in A_n(D)$ is equivalent to the representability of f in the form

$$(1.1) \quad f(z) = \sum_{k=0}^{n-1} f_k(z) z^k,$$

where all f_k are functions holomorphic in D , called the *holomorphic components of f* . For $n = 2$ and $n = 3$, the functions in $A_n(D)$ are called, respectively, *bisanalytic* and *trisanalytic*.

We recall the definition of the normed spaces $BLip^m$ and BC^m , restricting ourselves by the case where $m \in [0, 1)$ (for all $m \geq 0$ see, e.g., [2, §1.3]). Let $V \subset \mathbb{C}$ contain at least two points, let $BC(V)$ be the class of all (complex-valued) functions bounded and continuous on V , and let $\|g\|_V = \sup_{z \in V} |g(z)|$ be the uniform norm of a function $g \in BC(V)$. We define the *m -continuity modulus* of g to be the quantity

$$\omega_V^m(g, \delta) = \sup \frac{|g(z) - g(z')|}{|z - z'|^m}, \quad \delta \in (0, +\infty),$$

where the supremum is taken over all $z \neq z' \in V$ satisfying $0 < |z - z'| < \delta$. Next,

$$BLip^m(V) = \{f \in BC(V) \mid \omega_V^m(f, \infty) < \infty\},$$

$$BC^m(V) = \{f \in BLip^m(V) \mid \omega_V^m(f, \delta) \rightarrow 0 \text{ as } \delta \rightarrow 0_+\},$$

the norm being given by

$$(1.2) \quad \|f\|_{m,V} = \max\{\|f\|_V, \omega_V^m(f, \infty)\}.$$

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