

Storozhenko, Eh. A.

Smoothness and derivatives of functions in $H^p(B^n)$ spaces. (Russian) Zbl 0649.32004
Vestn. Mosk. Univ., Ser. I 1988, No. 4, 13-16 (1988).

By making use of suitable k -modules of continuity connected with some subsets of the group of unitary operators in \mathbb{C}^n it is investigated the connection between behaviour of certain derivatives (radial and orthogonal to O_z ones) and smoothness of boundary values of H^p -functions ($0 < p \leq \infty$) in the unit ball of \mathbb{C}^n .

Reviewer: [T.Tonev](#)

MSC:

[32A35](#) H^p -spaces, Nevanlinna spaces of functions in several complex variables

[32A40](#) Boundary behavior of holomorphic functions of several complex variables

[41A17](#) Inequalities in approximation (Bernstein, Jackson, Nikol'skiĭ-type inequalities)

Cited in 1 Review

Keywords:

H^p -functions in $bbfC^n$; modulus of continuity; Haar measure; derivatives