INTERSECTION PROPERTIES FOR CONES OF MONOTONE 
AND CONVEX FUNCTIONS IN SCALE OF LIPSCHITZ SPACES 

INNA KOZLOV 

Abstract. The basic results of the real interpolation method is known to be valid for couples 
\((X_0 \cap Q, X_1 \cap Q)\) under the condition that the cone \(Q\) has the so-called intersection property 
with respect to the couple \((X_0, X_1)\). In this paper we study this property for the cones of monotone 
and convex functions with respect to the couple of Lipschitz (Nikol’skii-Besov) spaces.

Key words and phrases: Intersection property, real interpolation method, Lipschitz (Nikol’skii-Besov) 
spaces, cones of monotone and convex functions.

REFERENCES 

[1] I. ASEKRITOV A, On the K – functional of the couple \((K_{\Phi_0}(\bar{X}), K_{\Phi_1}(\bar{X}))\), Studies in the Theory of 
43–49, MR32 2808.
Holland.
233–245.
[7] C. S. HERZ, Lipschitz spaces and Bernstein’s theorem on absolutely convergent Fourier transforms, in: 
[10] S. NIKOL’SKIÍ, Approximation of functions of several variables and imbedding theorems, Springer-Verlag 
(1975).
[12] Y. SAGHER, Some remarks in interpolation of operators and Fourier coefficients, Studia Math.44, 