

Maximal functions measuring smoothness

V.G. Krotov

Dedicated to Professor Konstantin Osolkov on the occasion of his 65th birthday
Abstract In work of A.Calderón, K.I.Osolkov and V.I.Kolyada was introduced the family of maximal operators, measuring local smoothness of $L^p(\mathbb{R}^n)$ -functions. These maximal operators turned out to be to be useful at decision of the series of the important problems of function theory (the embedding theorems of Sobolev type, description of Sobolev space in terms of the metric and measure, quantitative estimates of Luzin property). Our review is dedicated to the history of such operators and the main results, connected with them. We consider also properties and applications such operators in general context of metric spaces with doubling measure.

1 Calderón-Kolyada maximal functions

1.1 Notation

Let (X, d, μ) be a metric space with metric d and a regular Borel measure μ such that the measure of any ball

$$B(x, r) = \{y \in X : d(x, y) < r\}$$

is positive and finite. The balls $B \subset X$ will often be denoted just by one letter B , in this case r_B will stand for the radius of B .

For $x \in X$ we set

$$\mathfrak{B}(x) = \{B \subset X : x \in B \text{ and } r_B < 2\}.$$

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Maximal Functions Measuring Smoothness

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