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COMMUTATORS OF INTRINSIC SQUARE FUNCTIONS ON GENERALIZED MORREY SPACES

Abstract

We study the boundedness of intrinsic square functions including the Lusin area integral, Littlewood-Paley g -function and g_λ^ -function and their commutators on generalized Morrey spaces $M^{\Phi, \varphi}(\mathbb{R}^n)$. In all the cases the conditions for the boundedness are given either in terms of Zygmund-type integral inequalities on $\varphi(x, r)$ without assuming any monotonicity property of $\varphi(x, r)$ on r .*