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## ADAMS TYPE RESULT FOR SUBLINEAR OPERATORS GENERATED BY RIESZ POTENTIALS ON GENERALIZED MORREY SPACES

## Abstract

In this paper the authors study the boundedness for a large class of sublinear operators  $T_{\alpha}$ ,  $\alpha \in (0,n)$  generated by Riesz potential operator on generalized Morrey spaces  $M_{p,\varphi}$ . We prove the boundedness of the sublinear operator  $T_{\alpha}$ ,  $\alpha \in (0,n)$  satisfies the condition (1.2) generated by Riesz potential operator from one generalized Morrey space  $M_{p,\varphi^{\frac{1}{p}}}$  to  $M_{q,\varphi^{\frac{1}{q}}}$  for  $1 and from <math>M_{1,\varphi}$  to  $WM_{q,\varphi^{\frac{1}{q}}}$  for  $1 < q < \infty$ . In all the cases the conditions for the boundedness are given it terms of Zygmund-type integral inequalities on  $\varphi$ , which do not assume any assumption on monotonicity of  $\varphi$  in r. Conditions of these theorems are satisfied by many important operators in analysis, in particular fractional maximal operator, Riesz potential operator and Marcinkiewicz operator.