

ADDITIVE WEIGHTED L_p ESTIMATES OF SOME CLASSES OF INTEGRAL OPERATORS INVOLVING GENERALIZED OINAROV KERNELS

A. M. ABYLAYEVA, A. O. BAIARYSTANOV, L.-E. PERSSON AND P. WALL

Abstract. Inequalities of the form

$$\|u\mathcal{K}f\|_q \leq C(\|p f\|_p + \|vHf\|_p), \quad f \geq 0,$$

are considered, where \mathcal{K} is an integral operator of Volterra type and H is the Hardy operator. Under some assumptions on the kernel \mathcal{K} we give necessary and sufficient conditions for such an inequality to hold.

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