

SOME RESULTS FOR A FAMILY OF INTEGRAL OPERATORS OF SINGULAR TYPE IN WEIGHTED VARIABLE LEBESGUE SPACES

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Abstract. In this study, our purpose is to prove inequalities concerning the boundedness of a family of singular type integral operators in weighted variable Lebesgue spaces $L_{p(\cdot),\omega,v}(\mathbb{R}_{k,+}^n)$ with general weight functions. As an application, we finally provide an inequality for the Riesz-Bessel transform of high order in weighted variable Lebesgue space.

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