ALTERNATIVE CRITERIA FOR THE BOUNDEDNESS OF VOLTERRA INTEGRAL OPERATORS IN LEBESGUE SPACES

VLADIMIR D. STEPANOV AND ELENA P. USHAKOVA

Abstract. Three different criteria for $L^p - L^q$ boundedness of Volterra integral operator (??) with locally integrable weight functions $w, v$ and a non-negative kernel $k(x,y)$ satisfying Oinarov’s condition for each case $1 < p \leq q < \infty$ and $1 < q < p < \infty$ are given. Relations between components of the boundedness constants are described.

Keywords and phrases: Integral operators, Lebesgue spaces, weights, boundedness.

REFERENCES


