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ON SOME LOG REGULARITY CONDITIONS AND THE BOUNDEDNESS OF WEIGHTED HARDY OPERATOR IN $L^{p(.)}(0,l)$

Abstract

We present two type non-coincide log-conditions on sufficiency and necessity for Hardy operator $Hf(x) = \int_0^x f(t)dt$ to be bounded in variable exponent Lebesgue space $L^{p(.)}(0,l)$.