

[Carro, María J.](#); [Soria, Javier](#)

Boundedness of some integral operators. (English) Zbl 0798.42010
[Can. J. Math.](#) 45, No. 6, 1155-1166 (1993).

The authors consider the integral operator given by $Tf(x) = \int_0^\infty k(x,t)f(t)dt$, where $k : \mathcal{M} \times \mathbb{R}^+ \rightarrow \mathbb{R}^+$ and (\mathcal{M}, μ) is some measure space. They determine the mapping properties of T mapping functions in L^p_{dec} , $0 < p \leq 1$, into functions in L^q_w , $q \geq p$; here L^p_{dec} is the class of nonincreasing functions in L^p , and $L^q(w)$ is a weighted L^q space. They also prove related weak-type inequalities and apply their results to generalized Hardy operators.

Reviewer: [A.Seeger \(Madison\)](#)

MSC:

[42B25](#) Maximal functions, Littlewood-Paley theory

Cited in **38** Documents

Keywords:

[integral operator](#); [weak-type inequalities](#); [generalized Hardy operators](#)

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