BOUNDINESS OF HARDY OPERATORS
ON GENERALIZED AMALGAMS

PANKAJ JAIN AND SUKET KUMAR

Abstract. Boundedness of the Hardy operator \((Tf)(x) = \int_{-\infty}^{x} f(t)dt\) between amalgam spaces \(\ell^q(X_u)\) and \(\ell^q(L^p_v)\) is obtained, where \(X_u\) is a weighted Banach function space. The adjoint operator \((T^*f)(x) = \int_{x}^{\infty} f(t)dt\) has also been treated.


Keywords and phrases: Hardy operator, amalgam spaces, Banach function space, Hardy inequality, adjoint Hardy operator.

REFERENCES