Ahmed FITOUHI

An essay toward a unified theory of the L^p version of Hardy's inequality and q-analogues

Abstract. In this paper, we give an L^p version of Hardy's uncertainty principles for a large class of integral transforms. As applications, we discuss an L^p version of Hardy's theorem for the generalized Fourier transform associated to the Sturm-Liouville operator and for the Jacobi-Dunkl transform.