HARDY’S TYPE INEQUALITY FOR THE OVER CRITICAL EXPONENT ASSOCIATED WITH THE DUNKL TRANSFORM

RAHMOUNI ATEF

Abstract. For the Hardy space $H^p_{\mu_k}(\mathbb{R}^d, \mu_k)$, $0 < p \leq 1$, we shall improve a Hardy’s type inequality associated with the Dunkl transform respect to the measures $\mu_k$ homogeneous of degree $\gamma$, on the strip $(2\gamma + d)(2 - p) \leq \sigma < 2\gamma + d + p(N + 1)$, where $N = [(2\gamma + d)/(1/p - 1)]$ is the greatest integer not exceeding $(2\gamma + d)/(1/p - 1)$.


Keywords and phrases: Hardy space, Hardy’s type inequality, Dunkl transform.

REFERENCES


