



HARDY-TYPE INEQUALITY ASSOCIATED WITH A CLASS OF GENERALIZED HANKEL OPERATORS IN n -DIMENSIONAL SPACES

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Abstract. This paper aims to establish a Hardy-type inequality associated with a class of generalized Hankel operators in n -dimensional spaces $n \geq 1$ for critical exponent $\sigma_0 = (\sigma_{0,1}, \sigma_{0,2}, \dots, \sigma_{0,n})$ by using the atomic decomposition. Moreover, we extend this inequality to exponents $\sigma = (\sigma_1, \sigma_2, \dots, \sigma_n)$ belonging to a hypercube of \mathbb{R}^n containing σ_0 .

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