ON THE HARDY–CARLEMAN INEQUALITY FOR A NEGATIVE EXPONENT

ZHANG DAOXIANG AND PING YAN

Abstract. In this paper we settle an open problem raised by B. Yang (2005, Taiwanese Journal of Mathematics 9, 469-475), by using Hölder’s and Bernoulli’s inequalities. We give a strengthened Hardy-Carleman inequality for a negative exponent.


Keywords and phrases: Hardy-Carleman-inequality, generalized harmonic average, Hölder’s and Bernoulli’s inequalities.

REFERENCES