# THE WAVELET CHARACTERIZATION OF HERZ-TYPE HARDY SPACES WITH VARIABLE EXPONENT

HONGBIN WANG[1]* AND ZONGGUANG LIU[2]

Communicated by O. Christensen

ABSTRACT. In this paper, using the atomic theory of the Herz-type Hardy spaces with variable exponent, we give their wavelet characterization by means of some discrete tent spaces with variable exponent at the origin.

[1] DEPARTMENT OF MATHEMATICS, CHINA UNIVERSITY OF MINING AND TECHNOLOGY(BEIJING), BEIJING 100083, P. R. CHINA.
    E-mail address: hbwang_2006@163.com

[2] DEPARTMENT OF MATHEMATICS, CHINA UNIVERSITY OF MINING AND TECHNOLOGY(BEIJING), BEIJING 100083, P. R. CHINA.
    E-mail address: liuzg@cumtb.edu.cn