

APPROXIMATION OF SEVERAL VARIABLES FUNCTIONS IN LORENTZ SPACES

HASAN YURT

CANAKKALE ONSEKIZ MART UNIVERSITY, CANAKKALE, TURKEY

ABSTRACT. The multivariate Lorentz spaces, which was generalization of Lebesgue spaces, were introduced by Blozinski in 1981. In his paper, he investigated some problems in these spaces. In this study, we will give Jackson type direct and Berstein-Stechkin-type converse theorems for trigonometric polynomials in Lorentz spaces, in the case of several variables. In particular, we will obtain a constructive characterization of the generalized Lipschitz classes in these spaces.