

# Approximation of functions by some special matrix means

Radosława Kranz and Aleksandra Rzepka

University of Zielona Góra  
Faculty of Mathematics, Computer Science and Econometrics  
65-516 Zielona Góra, ul. Szafrana 4a, Poland

**Abstract.** The rate of pointwise approximation of functions from  $L^p$  by some matrix means of a Fourier series will be presented. The corollary on the norm approximation will be derived. As a measure of such approximation the pointwise local modulus of continuity will be used.