

Extension of Nörlund and Riesz means: new estimates

By JORGE BUSTAMANTE (Puebla) and LÁZARO FLORES-DE-JESÚS (Puebla)

Abstract. In this paper, we present several new results related with the approximation of functions in \mathbb{L}^p , $1 \leq p \leq \infty$, by Nörlund and Riesz type operators. We prove that the errors can be measured in terms of Fejér operators and provided specific constants. Some known facts are improved.

JORGE BUSTAMANTE &
LÁZARO FLORES-DE-JESÚS
FACULTAD DE CIENCIAS FÍSICO-MATEMÁTICAS
BENEMÉRITA UNIVERSIDAD AUTÓNOMA DE PUEBLA
AVENIDA SAN CLAUDIO Y 18 SUR, COLONIA SAN MANUEL
EDIFICIO FM1-101B, CIUDAD UNIVERSITARIA
C. P. 72570, PUEBLA
MÉXICO

Mathematics Subject Classification: 42A24, 41A25, 42A10.

Key words and phrases: Nörlund and Riesz operators, Fejér operators, approximation of Lipschitz type functions, rate of convergence.