ON POINTWISE APPROXIMATION OF FUNCTIONS
BY SOME MATRIX MEANS OF FOURIER SERIES

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Abstract. The results corresponding to some theorems of S. Lal [Appl. Math. and Comput. 209 (2009), 346–350] and the results of the authors [Banach Center Publ., 95, (2011), 339–351] are shown. The same and sometimes better degrees of pointwise approximation as in mentioned papers by weaker assumptions on considered functions and examined summability methods are obtained. From presented pointwise results the estimation on norm approximation are derived. Some special cases as corollaries for iteration of the Nörlund or the Riesz method with the Euler one are also formulated.


Keywords and phrases: Degree of approximation, Fourier series.

REFERENCES