

APPROXIMATION PROPERTIES OF CESARO MEANS
FOR FOURIER SERIES OF INTEGRABLE FUNCTIONS

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Summary. Deviation of Cesaro (C, α) means for integrable functions and these functions is represented in a form with a main term as an improper integral of second order difference for these functions and a remainder. The exact order of this remainder is obtained, that is an estimation from above and below are proved in terms of second moduli of smoothness for given function but not only the estimation from above as in the papers of other authors dealing with this problem. Detailed proofs are given.