ON THE ORDER OF THE UNIFORM CONVERGENCE OF PARTIAL CUBIC SUMS OF MULTIPLE TRIGONOMETRIC FOURIER SERIES ON THE FUNCTION CLASSES $H_{1,m}^l[\omega]$

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A solution of the problem on the exact order of deviation in the uniform metric of partial cubic sums of multiple trigonometric Fourier series on classes of functions with a given majorant for the total modulus of smoothness of the lth order in $L_1(\mathbb{T}^m)$ is presented, where $l \in \mathbb{N}$, $m \geq 1$.

Keywords: multiple trigonometric Fourier series, partial cubic sums, order of uniform convergence, total modulus of smoothness, exact order of deviation in the uniform metric.

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