An optimal convergence rate result with application to a Gauss-type problem

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Abstract

Using Theorem Al of [2], we give a solution to a Gauss-type problem related to the extended case of doubly infinite versions of $(s_n)_{n\,N}$ connected with the regular continued fraction. Also, we obtain the optimal convergence rate $O(g^{2n})$.

Key words and phrases: Gauss'measure, Markov chain, regular continued fraction

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