

On the rate of convergence for semigroups and processes of Feller type

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Abstract

Based on the probabilistic theory, the paper contains local estimates of the rate of convergence for a contraction C_0 -semigroup. Simultaneously a class of linear positive operators of Feller-Stancu type is introduced, and the local and global rate of convergence for continuous functions is studied.

Key words and phrases: contraction C_0 -semigroup, approximation processes, moduli of smoothness. K -functional

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