

ERGODICITY, MIXING DAN EXACTNESS **PADA OPERATOR MARKOV**

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INTISARI

Dalam thesis ini akan diperlihatkan kekonvergenan rata-rata barisan $\{A_n f\}$. Sifat konvergensi maupun prekompak barisan $\{A_n f\}$, dapat digunakan untuk menunjukkan keberadaan fungsi densitas stasioner.

Syarat-syarat konstruktif (*constrictive*) operator Markov menjamin adanya suatu densitas stasioner f_* . Selanjutnya dengan menggunakan sifat kekonstruktifan operator Markov dapat ditunjukkan *ergodicity*, *mixing* dan *exactness* pada operator Markov.

Kata kunci : *operator Markov, constrictive, ergodicity, mixing dan exactness.*

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ERGODICITY, MIXING AND EXACTNESS OF MARKOV OPERATOR

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Abstract

This thesis contains the convergence of sequence averages $\{A_n f\}$. Convergence and precompact properties of $\{A_n f\}$ that can be applied to show that density stationer function exists.

Constrictive conditions of Markov operator guarantees existence of stationer density function f_* . Furthermore, by using constrictiveness of Markov operator we will show the *ergodicity*, *mixing* and *exactness* properties of Markov operator.

Key words : *Markov operator, constrictive, ergodicity, mixing and exactness*

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