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图书基本信息

书名：<<维纳一温特纳遍历定理WIENER WINTNER ERGODIC THEOREMS>>

13位ISBN编号：9789810244392

10位ISBN编号：9810244398

出版时间：2003-12

出版时间：Penguin

作者：Assani, Idris

页数：213

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内容概要

The Wiener Wintner ergodic theorem is a strengthening of Birkhoff pointwise ergodic theorem. Announced by N Wiener and A Wintner, this theorem has introduced the study of a general phenomenon in ergodic theory in which samplings are "good" for an uncountable number of systems. We study the rate of convergence in the uniform version of this theorem and what we call Wiener Wintner dynamical systems and prove for these systems two pointwise results: the a.e. double recurrence theorem and the a.e. continuity of the fractional rotated ergodic Hilbert transform. Some extensions of the Wiener Wintner ergodic theorem are also given.

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