#### RESEARCH

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## On conditional mean ergodic semigroups of random linear operators

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#### Abstract

In this article, we prove two forms of conditional mean ergodic theorem for a strongly continuous semigroup of random isometric linear operators generated by a semigroup of measure-preserving measurable isomorphisms, one of which generalizes and improves several known important results.

#### 1 Introduction and the main results

The notion of a random normed module (briefly, an RN module), which was first introduced in [1] and subsequently elaborated in [2], is a random generalization of that of a normed space. In the last 10 years, the theory of RN modules together with their random conjugate spaces have undergone a systematic and deep development [3–9], in particular the random reflexivity based on the theory of random conjugate spaces and the study of semigroups of random linear operators have also obtained some substantial advances in [6, 8, 10–12].

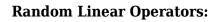
It is well known that the  $(\varepsilon, \lambda)$ -topology induced by the  $L^{\circ}$ -norm on an RN module is exactly the topology of convergence in probability P. Actually, it is Mustari and Taylor that earlier observed the essence of the  $(\varepsilon, \lambda)$ -topology, studied probability theory in Banach spaces and did many excellent works [13, 14] under the framework of the special RN module  $L^0(\mathcal{E}, X)$ , where  $L^0(\mathcal{E}, X)$  is the RN module of equivalence classes of X-valued random variables defined on a probability space  $(\Omega, \mathcal{E}, P)$ , see [4] or Section 2 for the construction of  $L^0(\mathcal{E}, X)$ . Motivated by these works, we have recently begun to study the mean ergodic theorem under the framework of RN modules to obtain the mean ergodic theorem in the sense of convergence in probability, in particular we proved a mean ergodic theorem for a strongly continuous semigroup of random unitary operators defined on complete random inner product modules in [8] and further investigated the mean ergodicity for an almost surely bounded strongly continuous semigroup of random linear operators on a random. reflexive RN module in [11]. Based on these and motivated by the idea of [15, 16], the purpose of this article is to investigate the conditional mean ergodicity for a special semigroup of random linear operator on the RN module  $L_F^p(\mathcal{E}, X)$  and the construction of  $L_F^p(\mathcal{E}, X)$ is detailed as follows.

Now let us first recall the construction of  $L^p_{\mathcal{F}}(\mathcal{E})$  in [16]. Let  $(\Omega, \mathcal{E}, P)$  be a probability space,  $\mathcal{F}$  a sub  $\sigma$ -algebra of  $\mathcal{E}$  and  $\bar{L}^0(\mathcal{E})$  (or  $L^0(\mathcal{E})$ ) the set of equivalence classes of  $\mathcal{E}$ -measurable extended real-valued (real-valued) random variables on  $\Omega$ . Let  $\bar{L}^0_+(\mathcal{E}) = \{\xi \in \bar{L}^0(\mathcal{E}) | \xi \geq 0 \}$  and  $L^0_+(\mathcal{E}) = \{\xi \in L^0(\mathcal{E}) | \xi \geq 0 \}$ . Similarly, one can understand such notions as



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#### **Table of Contents Random Linear Operators**

- 1. Understanding the eBook Random Linear Operators
  - The Rise of Digital Reading Random Linear Operators
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Random Linear Operators
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - $\circ\,$  Features to Look for in an Random Linear Operators
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Random Linear Operators
  - Personalized Recommendations

- Random Linear Operators User Reviews and Ratings
- Random Linear Operators and Bestseller Lists
- 5. Accessing Random Linear Operators Free and Paid eBooks
  - Random Linear Operators Public Domain eBooks
  - Random Linear Operators eBook Subscription Services
  - Random Linear Operators Budget-Friendly Options
- 6. Navigating Random Linear Operators eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Random Linear Operators Compatibility with Devices
  - Random Linear Operators Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Random Linear Operators
  - Highlighting and Note-Taking Random Linear Operators
  - Interactive Elements Random Linear Operators
- 8. Staying Engaged with Random Linear Operators
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Random Linear Operators
- 9. Balancing eBooks and Physical Books Random Linear Operators
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Random Linear Operators
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Random Linear Operators
  - Setting Reading Goals Random Linear Operators
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Random Linear Operators
  - Fact-Checking eBook Content of Random Linear Operators

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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