

SHORT COMMUNICATIONS

ABSOLUTE CONTINUITY OF MEASURES CORRESPONDING TO MARKOV
PROCESSES WITH DISCRETE TIME

A. A. LODKIN

(Translated by K. Durr)

We shall consider probability measures on a space $X = X_1 \times X_2 \times \dots$ (the space of trajectories of a random process), where $X_i = (Y, \mathfrak{A})$ is a measurable space (the space of states) on the σ -algebra generated by the cylindrical sets

$$A_1 \times A_2 \times \dots \times A_n \times X_{n+1} \times \dots, \quad A_i \subset X_i, \quad A_i \in \mathfrak{A}, \quad i = 1, \dots, n.$$

In the case when two measures μ and $\tilde{\mu}$ are products of measures

$$\mu = \prod_{i=1}^{\infty} \mu_i, \quad \tilde{\mu} = \prod_{i=1}^{\infty} \tilde{\mu}_i,$$

and the μ_i and $\tilde{\mu}_i$ are mutually absolutely continuous ($\mu_i \sim \tilde{\mu}_i$), the question of the equivalence of μ and $\tilde{\mu}$ is completely resolved by a theorem of Kakutani [1]. This theorem gives a criterion from which it results that two such measures are either equivalent or singular. A. M. Vershik proposed that one consider the wider class of Markov measures in which such a dichotomy exists.

1. Let us note several general facts on absolute continuity. Let μ and $\tilde{\mu}$ be measures on X . If $\tilde{\mu}$ is absolutely continuous with respect to μ ($\tilde{\mu} < \mu$), then their projections $\tilde{\mu}_n$ and μ_n onto $X_1 \times \dots \times X_n$ stand in the same relationship. Below we shall always assume that $\tilde{\mu}_n < \mu_n$.

Let

$$\rho_n(x) = \frac{d\tilde{\mu}_n}{d\mu_n}(x_1, \dots, x_n), \quad x = (x_1, x_2, \dots) \in X.$$

The sequence $\{\rho_n\}$ is a martingale and thus converges to some function ρ_∞ μ -a.e. (by a theorem of Doob, [2], p. 319).

Theorem 1. The absolute continuity of $\tilde{\mu}$ with respect to μ is equivalent to each of the following conditions:

- the functions ρ_n are uniformly integrable with respect to μ ;
- $\rho_n \rightarrow \rho_\infty$ in $L^1(X, \mu)$;
- $\int_X \rho_\infty d\mu = 1$;
- $\rho_n \rightarrow \rho_\infty$ weakly in $L^1(X, \mu)$;
- $\rho_n^{1/q} \rightarrow \rho_\infty^{1/q}$ in $L^q(X, \mu)$, $q > 1$;
- $\lim_{q \rightarrow 1+0} \lim_n \int_X \rho_n^{1/q} d\mu = 1$.¹

PROOF. Assertions a–d follow from the cited theorem of Doob. Note that the sequence

$$f_n = |\rho_n^{1/q} - \rho_\infty^{1/q}|^q$$

¹ This condition is due to A. M. Vershik. Its proof was given in one of a series of lectures on the theory of measure on linear spaces given at Leningrad State University during the academic year 1967–68.

Absolute Continuity Of Measures In The Class Of Markov And

Jianjun Gao



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Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability Lucien Marie Le Cam, Jerzy Neyman, 1967 **From Stochastic Calculus to Mathematical Finance** Yu. Kabanov, R. Liptser, J. Stoyanov, 2007-04-03 Dedicated to the Russian mathematician Albert Shiryaev on his 70th birthday this is a collection of papers written by his former students co authors and colleagues The book represents the modern state of art of a quickly maturing theory and will be an essential source and reading for researchers in this area Diversity of topics and comprehensive style of the papers make the book attractive for PhD students and young researchers Point Process Theory and Applications Martin Jacobsen, 2006-07-27 The book aims at presenting a detailed and mathematically rigorous exposition of the theory and applications of a class of point processes and piecewise deterministic processes The framework is sufficiently general to unify the treatment of several classes of stochastic phenomena point processes Markov chains and other Markov processes in continuous time semi Markov processes queueing and storage models and likelihood processes There are applications to finance insurance and risk population models survival analysis and congestion models A major aim has been to show the versatility of piecewise deterministic Markov processes for applications and to show how they may also become useful in areas where thus far they have not been much in evidence Originally the plan was to develop a graduate text on marked point processes indexed by time which would focus on probabilistic structure and be essentially self contained However it soon became apparent that the discussion should naturally include a traditional class of continuous time stochastic processes constructed from certain marked point processes This class consists of piecewise deterministic processes that is processes with finitely many jumps on finite time intervals which roughly speaking develop deterministically between the random jump times The position starts with the point process theory and then uses this to treat the piecewise deterministic processes **Mathematical Reviews** , 2005-06 *Mathematical and Statistical Models and Methods in Reliability* V.V. Rykov, N. Balakrishnan, M.S. Nikulin, 2010-11-02 The book is a selection of invited chapters all of which deal with various aspects of mathematical and statistical models and methods in reliability Written by renowned experts in the field of reliability the contributions cover a wide range of applications reflecting recent developments in areas such as survival analysis aging lifetime data analysis artificial intelligence medicine carcinogenesis studies nuclear power financial modeling aircraft engineering quality control and transportation Mathematical and Statistical Models and Methods in Reliability is an excellent reference text for researchers and practitioners in applied probability and statistics industrial statistics engineering medicine finance transportation the oil and gas industry and artificial intelligence Dirichlet Forms and Related Topics Zhen-Qing Chen, Masayoshi Takeda, Toshihiro Uemura, 2022-09-04 This conference proceeding contains 27 peer reviewed invited papers from leading experts as well as young researchers all over the world in the related fields that Professor Fukushima has made important contributions to These 27 papers cover a wide range of topics in probability theory ranging

from Dirichlet form theory Markov processes heat kernel estimates entropy on Wiener spaces analysis on fractal spaces random spanning tree and Poissonian loop ensemble random Riemannian geometry SLE space time partial differential equations of higher order infinite particle systems Dyson model functional inequalities branching process to machine learning and Hermitizable problems for complex matrices Researchers and graduate students interested in these areas will find this book appealing

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Continuous Measures and Strange Attractors in One Dimension Stewart Dorin Johnson,1985

Probability Theory Subject Indexes from Mathematical Reviews American Mathematical Society,1987

Invariant and Quasiinvariant Measures in Infinite-dimensional Topological Vector Spaces Gogi Pantsulaia,2007 This monograph deals with certain aspects of the general theory of systems The author develops the ergodic theory which is the theory of quaslinvariant and invariant measures in such infinite dimensional vector spaces which appear as models of various physical economic genetic linguistic social etc processes The methods of ergodic theory are successful as applied to study properties of such systems A foundation for ergodic theory was stimulated by the necessity of a consideration of statistic mechanic problems and was directly connected with the works of G Birkhoff Kryloff and Bogoliuboff E Hoph and other famous mathematicians

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