

quantum information \approx noncommutative probability



probability

quantum

states

$$\Delta_n = \{p \in \mathbb{R}^n, p_i \geq 0, \sum_i p_i = \|p\|_1 = 1\}$$

$$D_n = \{\rho \in \mathbb{C}^{n \times n}, \rho \geq 0, \text{tr} \rho = \|\rho\|_1 = 1\}$$

measurement

$$m \in \mathbb{R}^n, \\ 0 \leq m_i \leq 1$$

$$M \in \mathbb{C}^{n \times n}, \\ 0 \leq M \leq I$$

"accept"

$$\langle m, p \rangle$$

$$\langle M, \rho \rangle = \text{tr}[M\rho]$$

distance
= best bias

$$\frac{1}{2} \|p - q\|_1$$

$$\frac{1}{2} \|\rho - \sigma\|_1$$

Noncommutative Probability

Katrin Zwirgmaier



Noncommutative Probability:

Free Random Variables Dan V. Voiculescu, K. J. Dykema, A. Nica, 1992 This book presents the first comprehensive introduction to free probability theory a highly noncommutative probability theory with independence based on free products instead of tensor products Basic examples of this kind of theory are provided by convolution operators on free groups and by the asymptotic behavior of large Gaussian random matrices The probabilistic approach to free products has led to a recent surge of new results on the von Neumann algebras of free groups The book is ideally suited as a textbook for an advanced graduate course and could also provide material for a seminar In addition to researchers and graduate students in mathematics this book will be of interest to physicists and others who use random matrices

Noncommutative Probability I. Cuculescu, A. G. Oprea, 2013-06-29 The intention of this book is to explain to a mathematician having no previous knowledge in this domain what noncommutative probability is So the first decision was not to concentrate on a special topic For different people the starting points of such a domain may be different In what concerns this question different variants are not discussed One such variant comes from Quantum Physics The motivations in this book are mainly mathematical more precisely they correspond to the desire of developing a probability theory in a new set up and obtaining results analogous to the classical ones for the newly defined mathematical objects Also different mathematical foundations of this domain were proposed This book concentrates on one variant which may be described as von Neumann algebras This is true also for the last chapter if one looks at its ultimate aim In the references there are some papers corresponding to other variants we mention Gudder S P al 1978 Segal I E 1965 also discusses basic ideas

Noncommutative Mathematics for Quantum Systems Uwe Franz, Adam Skalski, 2016-01-07 Noncommutative mathematics is a significant new trend of mathematics Initially motivated by the development of quantum physics the idea of making theory noncommutative has been extended to many areas of pure and applied mathematics This book is divided into two parts The first part provides an introduction to quantum probability focusing on the notion of independence in quantum probability and on the theory of quantum stochastic processes with independent and stationary increments The second part provides an introduction to quantum dynamical systems discussing analogies with fundamental problems studied in classical dynamics The desire to build an extension of the classical theory provides new original ways to understand well known commutative results On the other hand the richness of the quantum mathematical world presents completely novel phenomena never encountered in the classical setting This book will be useful to students and researchers in noncommutative probability mathematical physics and operator algebras

Free Random Variables Dan V. Voiculescu, 1992 This book presents the first comprehensive introduction to free probability theory a highly noncommutative probability theory with independence based on free products instead of tensor products Basic examples of this kind of theory are provided by convolution operators on free groups and by the asymptotic behavior of large Gaussian random matrices The probabilistic approach to free products has led to a recent

surge of new results on the von Neumann algebras of free groups The book is ideally suited as a textbook for an advanced graduate course and could also provide material for a seminar

Noncommutative Probability and Random Matrices at Saint-Flour Philippe Biane, Alice Guionnet, Dan-Virgil Voiculescu, 2012-10-03 Biane Philippe Non commutative stochastic calculus Voiculescu Dan Virgil Lectures on free probability Guionnet Alice Large random matrices Lectures on macroscopic asymptotics

Noncommutative Stationary Processes Rolf Gohm, 2004-01-28 Quantum probability and the theory of operator algebras are both concerned with the study of noncommutative dynamics Focusing on stationary processes with discrete time parameter this book presents without many prerequisites some basic problems of interest to both fields on topics including extensions and dilations of completely positive maps Markov property and adaptedness endomorphisms of operator algebras and the applications arising from the interplay of these themes Much of the material is new but many interesting questions are accessible even to the reader equipped only with basic knowledge of quantum probability and operator algebras

Stochastic Processes and Random Matrices Grégory Schehr, Alexander Altland, Yan V. Fyodorov, Neil O'Connell, Leticia F. Cugliandolo, 2017-08-15 The field of stochastic processes and Random Matrix Theory RMT has been a rapidly evolving subject during the last fifteen years The continuous development and discovery of new tools connections and ideas have led to an avalanche of new results These breakthroughs have been made possible thanks to a large extent to the recent development of various new techniques in RMT Matrix models have been playing an important role in theoretical physics for a long time and they are currently also a very active domain of research in mathematics An emblematic example of these recent advances concerns the theory of growth phenomena in the Kardar Parisi Zhang KPZ universality class where the joint efforts of physicists and mathematicians during the last twenty years have unveiled the beautiful connections between this fundamental problem of statistical mechanics and the theory of random matrices namely the fluctuations of the largest eigenvalue of certain ensembles of random matrices This text not only covers this topic in detail but also presents more recent developments that have emerged from these discoveries for instance in the context of low dimensional heat transport on the physics side or integrable probability on the mathematical side

Random Matrices and Non-Commutative Probability Arup Bose, 2021-10-26 This is an introductory book on Non Commutative Probability or Free Probability and Large Dimensional Random Matrices Basic concepts of free probability are introduced by analogy with classical probability in a lucid and quick manner It then develops the results on the convergence of large dimensional random matrices with a special focus on the interesting connections to free probability The book assumes almost no prerequisite for the most part However familiarity with the basic convergence concepts in probability and a bit of mathematical maturity will be helpful Combinatorial properties of non crossing partitions including the M bius function play a central role in introducing free probability Free independence is defined via free cumulants in analogy with the way classical independence can be defined via classical cumulants Free cumulants are introduced through the M bius function Free product probability spaces

are constructed using free cumulants Marginal and joint tracial convergence of large dimensional random matrices such as the Wigner elliptic sample covariance cross covariance Toeplitz Circulant and Hankel are discussed Convergence of the empirical spectral distribution is discussed for symmetric matrices Asymptotic freeness results for random matrices including some recent ones are discussed in detail These clarify the structure of the limits for joint convergence of random matrices Asymptotic freeness of independent sample covariance matrices is also demonstrated via embedding into Wigner matrices Exercises at advanced undergraduate and graduate level are provided in each chapter

An Introduction to Random Matrices Greg W. Anderson, Alice Guionnet, Ofer Zeitouni, 2010 A rigorous introduction to the basic theory of random matrices designed for graduate students with a background in probability theory

Real and Stochastic Analysis M. M. Rao, 2012-12-06 As in the case of the two previous volumes published in 1986 and 1997 the purpose of this monograph is to focus the interplay between real functional analysis and stochastic analysis show their mutual benefits and advance the subjects The presentation of each article given as a chapter is in a research expository style covering the respective topics in depth In fact most of the details are included so that each work is essentially self contained and thus will be of use both for advanced graduate students and other researchers interested in the areas considered Moreover numerous new problems for future research are suggested in each chapter The presented articles contain a substantial number of new results as well as unified and simplified accounts of previously known ones A large part of the material covered is on stochastic differential equations on various structures together with some applications Although Brownian motion plays a key role semi martingale theory is important for a considerable extent Moreover noncommutative analysis and probability have a prominent role in some chapters with new ideas and results A more detailed outline of each of the articles appears in the introduction and outline to assist readers in selecting and starting their work All chapters have been reviewed

The Semicircle Law, Free Random Variables and Entropy Fumio Hiai, 田村浩典, Dénes Petz, 2000 The book treats free probability theory which has been extensively developed since the early 1980s The emphasis is put on entropy and the random matrix model approach The volume is a unique presentation demonstrating the extensive interrelation between the topics Wigner's theorem and its broad generalizations such as asymptotic freeness of independent matrices are explained in detail Consistent throughout the book is the parallelism between the normal and semicircle laws Voiculescu's multivariate free entropy theory is presented with full proofs and extends the results to unitary operators Some applications to operator algebras are also given Based on lectures given by the authors in Hungary Japan and Italy the book is a good reference for mathematicians interested in free probability theory and can serve as a text for an advanced graduate course This book brings together both new material and recent surveys on some topics in differential equations that are either directly relevant to or closely associated with mathematical physics Its topics include asymptotic formulas for the ground state energy of fermionic gas renormalization ideas in quantum field theory from perturbations of the free Hamiltonian on the circle J selfadjoint Dirac operators spectral

theory of Schrodinger operators inverse problems isoperimetric inequalities in quantum mechanics Hardy inequalities and non adiabatic transitions Excellent survey articles on Dirichlet Neumann inverse problems on manifolds by Uhlmann numerical investigations associated with Laplacian eigenvalues on planar regions by Trefethen Snell s law and propagation of singularities in the wave equation by Vasy random operators on tree graphs by Aizenmann make this book interesting and valuable for graduate students young mathematicians and physicists alike Trace Inequalities Airat M. Bikchentaev,Fuad Kittaneh,Mohammad Sal Moslehian,Yuki Seo,2024-12-18 This book is a comprehensive and advanced exploration of trace inequalities in the context of matrices and operators acting on Hilbert spaces Its goal is to present elegant inequalities with innovative proofs Instead of presenting generalized versions that can be complicated and lack clarity the book focuses on beautiful and original inequalities Divided into eight chapters this book is designed for researchers and graduate students in mathematics physics and engineering It provides detailed explanations for most of the results and includes a variety of exercises and problems to help readers understand the content and inspire further research into advanced topics

Random Matrices: High Dimensional Phenomena Gordon Blower,2009-10-08 This book focuses on the behaviour of large random matrices Standard results are covered and the presentation emphasizes elementary operator theory and differential equations so as to be accessible to graduate students and other non experts The introductory chapters review material on Lie groups and probability measures in a style suitable for applications in random matrix theory Later chapters use modern convexity theory to establish subtle results about the convergence of eigenvalue distributions as the size of the matrices increases Random matrices are viewed as geometrical objects with large dimension The book analyzes the concentration of measure phenomenon which describes how measures behave on geometrical objects with large dimension To prove such results for random matrices the book develops the modern theory of optimal transportation and proves the associated functional inequalities involving entropy and information These include the logarithmic Sobolev inequality which measures how fast some physical systems converge to equilibrium *A Spectral Theory Of Noncommuting Operators*

Rongwei Yang,2024-03-25 The main goal of this book is to describe various aspects of the theory of joint spectra for matrices and linear operators It is suitable for a graduate level topic course in spectral theory and or representation theory The first three chapters can also be adopted for an advanced course in linear algebra Centered around the concept of projective spectrum the book presents a coherent treatment of fundamental elements from a wide range of mathematical disciplines such as complex analysis complex dynamics differential geometry functional analysis group theory and Lie algebras Researchers and students particularly those who aspire to gain a bigger picture of mathematics will find this book both informative and resourceful A First Course in Fuzzy Logic Hung T. Nguyen,Carol Walker,Elbert A. Walker,2018-12-07 A First Course in Fuzzy Logic Fourth Edition is an expanded version of the successful third edition It provides a comprehensive introduction to the theory and applications of fuzzy logic This popular text offers a firm mathematical basis for the calculus of

fuzzy concepts necessary for designing intelligent systems and a solid background for readers to pursue further studies and real world applications New in the Fourth Edition Features new results on fuzzy sets of type 2 Provides more information on copulas for modeling dependence structures Includes quantum probability for uncertainty modeling in social sciences especially in economics With its comprehensive updates this new edition presents all the background necessary for students instructors and professionals to begin using fuzzy logic in its many applications in computer science mathematics statistics and engineering About the Authors Hung T Nguyen is a Professor Emeritus at the Department of Mathematical Sciences New Mexico State University He is also an Adjunct Professor of Economics at Chiang Mai University Thailand Carol L Walker is also a Professor Emeritus at the Department of Mathematical Sciences New Mexico State University Elbert A Walker is a Professor Emeritus Department of Mathematical Sciences New Mexico State University

Representation Theory and Harmonic Analysis on Symmetric Spaces Jens Gerlach Christensen, Susanna Dann, Matthew Dawson, 2018-08-27 This volume contains the proceedings of the AMS Special Session on Harmonic Analysis in honor of Gestur l afsson s 65th birthday held on January 4 2017 in Atlanta Georgia The articles in this volume provide fresh perspectives on many different directions within harmonic analysis highlighting the connections between harmonic analysis and the areas of integral geometry complex analysis operator algebras Lie algebras special functions and differential operators The breadth of contributions highlights the diversity of current research in harmonic analysis and shows that it continues to be a vibrant and fruitful field of inquiry

Random Matrix Theory, Interacting Particle Systems and Integrable Systems Percy Deift, Peter Forrester, 2014-12-15 This volume includes review articles and research contributions on long standing questions on universalities of Wigner matrices and beta ensembles

Re-Thinking Time at the Interface of Physics and Philosophy Albrecht von Müller, Thomas Filk, 2015-05-19 The current volume of the Parmenides Series On Thinking addresses our deepest and most personal experience of the world the experience of the present from a modern perspective combining physics and philosophy Many prominent researchers have contributed articles to the volume in which they present models and express their opinions on and in some cases also their skepticism about the subject and how it may be or may not be addressed as well as which aspects they consider most relevant in this context While Einstein might have once hoped that the present would find its place in the theory of general relativity in a later discussion with Carnap he expressed his disappointment that he was never able to achieve this goal This collection of articles provides a unique overview of different modern approaches representing not only a valuable summary for experts but also a nearly inexhaustible source of profound and novel ideas for those who are simply interested in this question

Ecole d'Ete de Probabilites de Saint-Flour XXVIII, 1998 M. Emery, Arkadiĭ Semenovich Nemirovskiĭ, Dan V. Voiculescu, D. Voiculescu, 2000-06-26 MSC 2000 46L10 46L53

Structural Changes and their Econometric Modeling Vladik Kreinovich, Songsak Sriboonchitta, 2018-11-24 This book focuses on structural changes and economic modeling It presents papers describing how to model structural changes as

well as those introducing improvements to the existing before structural changes models making it easier to later on combine these models with techniques describing structural changes The book also includes related theoretical developments and practical applications of the resulting techniques to economic problems Most traditional mathematical models of economic processes describe how the corresponding quantities change with time However in addition to such relatively smooth numerical changes economical phenomena often undergo more drastic structural change Describing such structural changes is not easy but it is vital if we want to have a more adequate description of economic phenomena and thus more accurate and more reliable predictions and a better understanding on how best to influence the economic situation

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




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