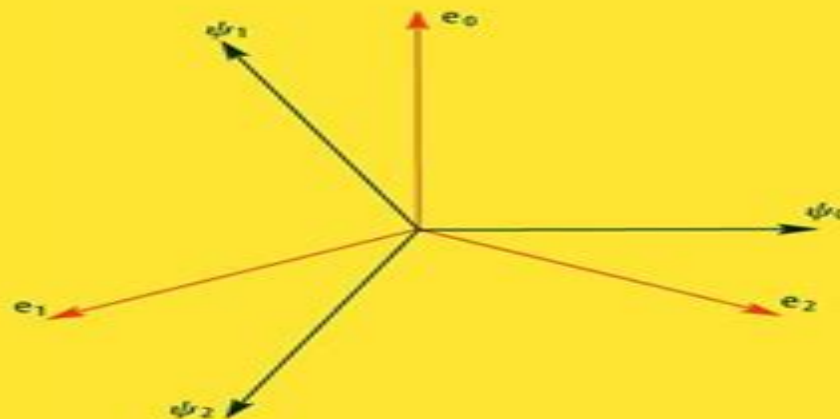


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Dynamics, Information and Complexity in Quantum Systems Fabio Benatti, 2023-08-22 This second edition of *Dynamics Information and Complexity in Quantum Systems* widens its scope by focussing more on the dynamics of quantum correlations and information in microscopic and mesoscopic systems and their use for metrological and machine learning purposes The book is divided into three parts Part One Classical Dynamical Systems Addresses classical dynamical systems classical dynamical entropy and classical algorithmic complexity Includes a survey of the theory of simple perceptrons and their storage capacity Part Two Quantum Dynamical Systems Focuses on the dynamics of entanglement under dissipative dynamics and its metrological use in finite level quantum systems Discusses the quantum fluctuation approach to large scale mesoscopic systems and their emergent dynamics in quantum systems with infinitely many degrees of freedom Introduces a model of quantum perceptron whose storage capacity is computed and compared with the classical one Part Three Quantum Dynamical Entropies and Complexities Devoted to quantum dynamical entropies and algorithmic complexities This book is meant for advanced students young and senior researchers working in the fields of quantum statistical mechanics quantum information and quantum dynamical systems It is self contained and the only prerequisites needed are a standard knowledge of statistical mechanics quantum mechanics and linear operators on Hilbert spaces

The Palgrave Handbook of Quantum Models in Social Science Emmanuel Haven, Andrei Khrennikov, 2017-02-06 It is not intuitive to accept that there exists a link between quantum physical systems and cognitive systems However recent

research has shown that cognitive systems and collective social systems including biology exhibit uncertainty which can be successfully modelled with quantum probability. The use of such probability allows for the modelling of situations which typically violate the laws of classical probability. The Palgrave Handbook of Quantum Models in Social Science is a unique volume that brings together contributions from leading experts on key topics in this new and emerging field. Completely self-contained, it begins with an introductory section which gathers all the fundamental notions required to be able to understand later chapters. The handbook then moves on to address some of the latest research and applications for quantum methods in social science disciplines including economics, politics and psychology. It begins with the issue of how the quantum mechanical framework can be applied to economics. Chapters devoted to this topic range from how Fisher information can be argued to play a role in economics to the foundations and application of quantum game theory. The handbook then progresses in considering how belief states can be updated with the theory of quantum measurements and also with more general methods. The practical use of the Hilbert space and Fock space in decision theory is then introduced and open quantum systems are also considered. The handbook also treats a model of neural oscillators that reproduces some of the features of quantum cognition. Other contributions delve into causal reasoning using quantum Bayes nets and the role of quantum probability in modelling so-called affective evaluation. The handbook is rounded off with two chapters which discuss the grand challenges which lie ahead of us: How can the quantum formalism be justified in social science and is the traditional quantum formalism too restrictive? Finally, a question is posed: whether there is a necessary role for quantum mathematical models to go beyond physics. This book will bring the latest and most cutting edge research on quantum theory to social science disciplines. Students and researchers across the discipline as well as those in the fields of physics and mathematics will welcome this important addition to the literature.

Quantum Measurement Paul Busch, Pekka Lahti, Juha-Pekka Pellonpää, Kari Ylinen, 2016-08-23. This is a book about the Hilbert space formulation of quantum mechanics and its measurement theory. It contains a synopsis of what became of the Mathematical Foundations of Quantum Mechanics since von Neumann's classic treatise with this title. Fundamental non-classical features of quantum mechanics: indeterminacy and incompatibility of observables, unavoidable measurement disturbance, entanglement, nonlocality are explicated and analysed using the tools of operational quantum theory. The book is divided into four parts: 1. Mathematics provides a systematic exposition of the Hilbert space and operator theoretic tools and relevant measure and integration theory leading to the Naimark and Stinespring dilation theorems. 2. Elements develops the basic concepts of quantum mechanics and measurement theory with a focus on the notion of approximate joint measurability. 3. Realisations offers in-depth studies of the fundamental observables of quantum mechanics and some of their measurement implementations and 4. Foundations discusses a selection of foundational topics: quantum-classical contrast, Bell nonlocality, measurement limitations, measurement problem, operational axioms from a measurement theoretic perspective. The book is addressed to physicists, mathematicians and philosophers of

physics with an interest in the mathematical and conceptual foundations of quantum physics specifically from the perspective of measurement theory *Analytical and Stochastic Modelling Techniques and Applications* Marco Gribaudo, Eduard Sopin, Irina Kochetkova, 2020-11-07 This book constitutes the refereed proceedings of the 25th International Conference on Analytical and Stochastic Modelling Techniques and Applications ASMTA 2019 held in Moscow Russia in October 2019 Methods of analytical and stochastic modelling are widely used in engineering to assess and design various complex systems like computer and communication networks and manufacturing systems The 13 full papers presented in this book were carefully reviewed and selected from 22 submissions The papers detail a diverse range of analysis techniques including Markov processes queueing theoretical results reliability of stochastic systems stochastic network calculus and wide variety of applications **Quantum Information and Foundations** Giacomo Mauro D'Ariano, Paolo Perinotti, 2020-03-23 Quantum information has dramatically changed information science and technology looking at the quantum nature of the information carrier as a resource for building new information protocols designing radically new communication and computation algorithms and ultra sensitive measurements in metrology with a wealth of applications From a fundamental perspective this new discipline has led us to regard quantum theory itself as a special theory of information and has opened routes for exploring solutions to the tension with general relativity based for example on the holographic principle on non causal variations of the theory or else on the powerful algorithm of the quantum cellular automaton which has revealed new routes for exploring quantum fields theory both as a new microscopic mechanism on the fundamental side and as a tool for efficient physical quantum simulations for practical purposes In this golden age of foundations an astonishing number of new ideas frameworks and results spawned by the quantum information theory experience have revolutionized the way we think about the subject with a new research community emerging worldwide including scientists from computer science and mathematics **Quantum Independent Increment Processes II** Ole E. Barndorff-Nielsen, 2006 Lectures given at the school Quantum Independent Increment Processes Structure and Applications to Physics held at the Alfried Krupp Wissenschaftskolleg in Greifswald in March 9 22 2003 Collected Papers Vol.1: Quantum Field Theory and Statistical Mechanics James Glimm, Arthur Jaffe, 1985-01-01 Bibliography 325 Critical point dominance in quantum field models 326 q quantum field model in the single phase regions Differentiability of the mass and bounds on critical exponents 341 Remark on the existence of q 345 On the approach to the critical point 348 Critical exponents and elementary particles 362 V Particle Structure Introduction 371 Bibliography 371 The entropy principle for vertex functions in quantum field models 372 Three particle structure of q 4 interactions and the scaling limit 397 Two and three body equations in quantum field models 409 Particles and scaling for lattice fields and Ising models 437 The resummation of one particle lines 450 VI Bounds on Coupling Constants Introduction 479 Bibliography 479 Absolute bounds on vertices and couplings 480 The coupling constant in a q 4 field theory 491 VII Confinement and Instantons Introduction 497 Bibliography 497 Instantons in a U I lattice gauge theory A

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Quantum Field Theory and Statistical Mechanics James Glimm, Arthur Jaffe, 2012-12-06 This volume contains a selection of expository articles on quantum field theory and statistical mechanics by James Glimm and Arthur Jaffe They include a solution of the original interacting quantum field equations and a description of the physics which these equations contain Quantum fields were proposed in the late 1920s as the natural framework which combines quantum theory with relativity They have survived ever since The mathematical description for quantum theory starts with a Hilbert space H of state vectors Quantum fields are linear operators on this space which satisfy nonlinear wave equations of fundamental physics including coupled Dirac Maxwell and Yang Mills equations The field operators are restricted to satisfy a locality requirement that they commute or anti commute in the case of fermions at space like separated points This condition is compatible with finite propagation speed and hence with special relativity Asymptotically these fields converge for large time to linear fields describing free particles Using these ideas a scattering theory had been developed based on the existence of local quantum fields

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web the prescription nonprescription stakeholder forum provides an opportunity to discuss compendial issues related to prescription and non prescription drugs and