



Quantum Finance

Path Integrals and
Hamiltonians for Options
and Interest Rates

Belal E. Baaquie

CAMBRIDGE

Quantum Finance Path Integrals And Hamiltonians For Options And Interest Rates

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Quantum Finance Path Integrals And Hamiltonians For Options And Interest Rates:

Quantum Finance Belal E. Baaquie, 2007-07-23 This book applies the mathematics and concepts of quantum mechanics and quantum field theory to the modelling of interest rates and the theory of options Particular emphasis is placed on path integrals and Hamiltonians Financial mathematics is dominated by stochastic calculus The present book offers a formulation that is completely independent of that approach As such many results emerge from the ideas developed by the author This work will be of interest to physicists and mathematicians working in the field of finance to quantitative analysts in banks and finance firms and to practitioners in the field of fixed income securities and foreign exchange The book can also be used as a graduate text for courses in financial physics and financial mathematics *Quantum Finance* B. E. Baaquie, 2004

Quantum Computers Belal Ehsan Baaquie, Leong-Chuan Kwek, 2023-01-03 This book presents various theories and algorithms to create a quantum computer The concept of the classical and quantum computers and the concept of circuits and gates are reviewed The example of the Deutsch and the Deutsch Josza algorithm is discussed to illustrate some key features of quantum computing The Grover algorithm considered to be of major milestone of the subject is discussed in detail to exemplify the techniques used in computer algorithms The role of quantum superposition also called quantum parallelism and of quantum entanglement is discussed in order to understand the key advantages of a quantum over a classical computer

Econophysics of Agent-Based Models Frédéric Abergel, Hideaki Aoyama, Bikas K. Chakrabarti, Anirban Chakraborti, Asim Ghosh, 2013-09-07 The primary goal of this book is to present the research findings and conclusions of physicists economists mathematicians and financial engineers working in the field of Econophysics who have undertaken agent based modelling comparison with empirical studies and related investigations Most standard economic models assume the existence of the representative agent who is perfectly rational and applies the utility maximization principle when taking action One reason for this is the desire to keep models mathematically tractable no tools are available to economists for solving non linear models of heterogeneous adaptive agents without explicit optimization In contrast multi agent models which originated from statistical physics considerations allow us to go beyond the prototype theories of traditional economics involving the representative agent This book is based on the Econophysics Kolkata VII Workshop at which many such modelling efforts were presented In the book leading researchers in their fields report on their latest work consider recent developments and review the contemporary literature *Quantum Concepts in the Social, Ecological and Biological Sciences* Fabio Bagarello, 2019-05-30 An overview of how complex systems from a variety of fields can be modelled using principles of quantum mechanics from biology and ecology to sociology and decision making The mathematical basis of these models is fully described providing a self contained introduction for students and researchers in applied mathematics or theoretical physics *Quantum Tools for Macroscopic Systems* Fabio Bagarello, Francesco Gargano, Francesco Oliveri, 2023-05-24 This book describes how complex systems from a variety of fields can be modeled using quantum

mechanical ideas from biology and ecology to sociology and decision making Quantum mechanics is traditionally associated with microscopic systems however quantum concepts have also been successfully applied to a wide range of macroscopic systems both within and outside physics The mathematical basis of these models is covered in detail providing a self contained and consistent approach This book provides unique insight into the dynamics of these macroscopic systems and opens new interdisciplinary research frontiers The authors present an essential resource for researchers in applied mathematics or theoretical physics who are interested in applying quantum mechanics to complex systems in the social biological or ecological sciences Describes how complex systems from a variety of fields can be modeled using quantum mechanical ideas Provides insight into the dynamics of macroscopic systems and opens new interdisciplinary research frontiers Introduces quantum tools needed for the analysis of the dynamical behavior of macroscopic systems

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

Statistical and Fuzzy Approaches to Data Processing, with

Applications to Econometrics and Other Areas Vladik Kreinovich, 2020-06-19 Mainly focusing on processing uncertainty this book presents state of the art techniques and demonstrates their use in applications to econometrics and other areas Processing uncertainty is essential considering that computers which help us understand real life processes and make better decisions based on that understanding get their information from measurements or from expert estimates neither of which is ever 100% accurate Measurement uncertainty is usually described using probabilistic techniques while uncertainty in expert estimates is often described using fuzzy techniques Therefore it is important to master both techniques for processing data This book is highly recommended for researchers and students interested in the latest results and challenges in uncertainty as well as practitioners who want to learn how to use the corresponding state of the art techniques *Looking Beyond The Frontiers Of Science: Dedicated To The 80th Birthday Of Kk Phua* Lars Brink, Ngee-pong Chang, Kazuo Fujikawa, Da-hsuan Feng, Mo-lin Ge, Leong-chuan Kwek, Spenta R Wadia, 2022-07-25 Professor Kok Khoo Phua is the Founding Director and Emeritus Professor of the Institute of Advanced Studies IAS at Nanyang Technological University NTU and Adjunct Professor of Department of Physics both at Nanyang Technological University NTU and National University of Singapore NUS He is the Chairman and Editor in Chief of World Scientific Publishing Co Pte Ltd When he was elected a Fellow of the American Physical Society APS in 2009 the citation read For tireless efforts to strengthen scientific research throughout Asia and promote international physics education and scholarly exchanges and for enriching science and education through the World Scientific Publishing Company he founded This unique volume on the occasion of his 80th birthday is a compilation of tributes from his friends who have known him for decades along with scientific articles that celebrate his visionary approach to promote science worldwide *Proceedings of World Conference on Information Systems for Business Management* Andres Iglesias, Jungpil Shin, Bharat Patel, Amit Joshi, 2024-02-29 This book includes selected papers presented at World Conference on Information Systems for Business Management ISBM 2023 held in Bangkok Thailand during September 7 8 2023 It covers up to date cutting edge research on data science information systems infrastructure and computational systems engineering systems business information systems and smart secure systems **A First Course in Quantitative Finance** Thomas Mazzoni, 2018-03-22 This new and exciting book offers a fresh approach to quantitative finance and utilises novel features including stereoscopic images which permit 3D visualisation of complex subjects without the need for additional tools Offering an integrated approach to the subject A First Course in Quantitative Finance introduces students to the architecture of complete financial markets before exploring the concepts and models of modern portfolio theory derivative pricing and fixed income products in both complete and incomplete market settings Subjects are organised throughout in a way that encourages a gradual and parallel learning process of both the economic concepts and their mathematical descriptions framed by additional perspectives from classical utility theory financial economics and behavioural finance Suitable for postgraduate students studying courses in quantitative finance financial engineering and financial

econometrics as part of an economics finance econometric or mathematics program this book contains all necessary theoretical and mathematical concepts and numerical methods as well as the necessary programming code for porting algorithms onto a computer

Algebraic Techniques and Their Use in Describing and Processing Uncertainty Hung T. Nguyen, Vladik Kreinovich, 2020-02-13 This book discusses heuristic methods lacking a solid theoretical justification which are ubiquitous in numerous application areas and explains techniques that can make heuristic methods more reliable Focusing on algebraic techniques i.e. those that use only a few specific features of a situation it describes various state of the art applications ranging from fuzzy methods for dealing with imprecision to general optimization methods and quantum based methods for analyzing economic phenomena The book also includes recent results from leading researchers which could and hopefully will provide the basis for future applications As such it is a valuable resource for mathematicians interested in potential applications of their algebraic results and ideas as well as for application specialists wanting to discover how algebraic techniques can help in their domains

Beyond Traditional Probabilistic Methods in Economics Vladik Kreinovich, Nguyen Ngoc Thach, Nguyen Duc Trung, Dang Van Thanh, 2018-11-24 This book presents recent research on probabilistic methods in economics from machine learning to statistical analysis Economics is a very important and at the same a very difficult discipline It is not easy to predict how an economy will evolve or to identify the measures needed to make an economy prosper One of the main reasons for this is the high level of uncertainty different difficult to predict events can influence the future economic behavior To make good predictions and reasonable recommendations this uncertainty has to be taken into account In the past most related research results were based on using traditional techniques from probability and statistics such as p value based hypothesis testing These techniques led to numerous successful applications but in the last decades several examples have emerged showing that these techniques often lead to unreliable and inaccurate predictions It is therefore necessary to come up with new techniques for processing the corresponding uncertainty that go beyond the traditional probabilistic techniques This book focuses on such techniques their economic applications and the remaining challenges presenting both related theoretical developments and their practical applications

Complexity in Economic and Social Systems Stanisław Drożdż, Jarosław Kwapien, Paweł Oświecimka, 2021-05-11 There is no term that better describes the essential features of human society than complexity On various levels from the decision making processes of individuals through to the interactions between individuals leading to the spontaneous formation of groups and social hierarchies up to the collective herding processes that reshape whole societies all these features share the property of irreducibility i.e. they require a holistic multi level approach formed by researchers from different disciplines This Special Issue aims to collect research studies that by exploiting the latest advances in physics economics complex networks and data science make a step towards understanding these economic and social systems The majority of submissions are devoted to financial market analysis and modeling including the stock and cryptocurrency

markets in the COVID 19 pandemic systemic risk quantification and control wealth condensation the innovation related performance of companies and more Looking more at societies there are papers that deal with regional development land speculation and the fake news fighting strategies the issues which are of central interest in contemporary society On top of this one of the contributions proposes a new improved complexity measure Quantum Field Theory for Economics and Finance Belal Ehsan Baaquie,2018-08-23 An introduction to how the mathematical tools from quantum field theory can be applied to economics and finance providing a wide range of quantum mathematical techniques for designing financial instruments The ideas of Lagrangians Hamiltonians state spaces operators and Feynman path integrals are demonstrated to be the mathematical underpinning of quantum field theory and which are employed to formulate a comprehensive mathematical theory of asset pricing as well as of interest rates which are validated by empirical evidence Numerical algorithms and simulations are applied to the study of asset pricing models as well as of nonlinear interest rates A range of economic and financial topics are shown to have quantum mechanical formulations including options coupon bonds nonlinear interest rates risky bonds and the microeconomic action functional This is an invaluable resource for experts in quantitative finance and in mathematics who have no specialist knowledge of quantum field theory *Biomedical and Other Applications of Soft Computing* Nguyen Hoang Phuong,Vladik Kreinovich,2022-11-22 This book describes current and potential use of artificial intelligence and computational intelligence techniques in biomedicine and other application areas Medical applications range from general diagnostics to processing of X ray images to e medicine related privacy issues Medical community understandably prefers methods that have been successful other on other application areas where possible mistakes are not that critical This book describes many promising methods related to deep learning fuzzy techniques knowledge graphs and quantum computing It also describes the results of testing these new methods in communication networks education environmental studies food industry retail industry transportation engineering and many other areas This book helps practitioners and researchers to learn more about computational intelligence methods and their biomedical applications and to further develop this important research direction **Ubiquitous Quantum Structure** Andrei Y. Khrennikov,2010-01-23 Quantum like structure is present practically everywhere Quantum like QL models i e models based on the mathematical formalism of quantum mechanics and its generalizations can be successfully applied to cognitive science psychology genetics economics finances and game theory This book is not about quantum mechanics as a physical theory The short review of quantum postulates is therefore mainly of historical value quantum mechanics is just the first example of the successful application of non Kolmogorov probabilities the first step towards a contextual probabilistic description of natural biological psychological social economical or financial phenomena A general contextual probabilistic model V xj model is presented It can be used for describing probabilities in both quantum and classical statistical mechanics as well as in the above mentioned phenomena This model can be represented in a quantum like way namely in complex and more general

Hilbert spaces In this way quantum probability is totally demystified Born's representation of quantum probabilities by complex probability amplitudes wave functions is simply a special representation of this type

Quantum Interaction
Peter Bruza, Donald Sofge, William Lawless, C.J. van Rijbergen, Matthias Klusch, 2009-03-09 This book constitutes the refereed proceedings of the Third International Symposium on Quantum Interaction QI 2009 held in Saarbrücken Germany in March 2009 The 21 revised full papers presented together with the 3 position papers were carefully reviewed and selected from numerous submissions The papers show the cross disciplinary nature of quantum interaction covering topics such as computation cognition decision theory information retrieval information systems social interaction computational linguistics and finance

Quantum Computing For The Brain Melanie Swan, Renato P Dos Santos, Mikhail A Lebedev, Frank Witte, 2022-05-30 Quantum Computing for the Brain argues that the brain is the killer application for quantum computing No other system is as complex as multidimensional in time and space as dynamic as less well understood as of peak interest and as in need of three dimensional modeling as it functions in real life as the brain Quantum computing has emerged as a platform suited to contemporary data processing needs surpassing classical computing and supercomputing This book shows how quantum computing's increased capacity to model classical data with quantum states and the ability to run more complex permutations of problems can be employed in neuroscience applications such as neural signaling and synaptic integration State of the art methods are discussed such as quantum machine learning tensor networks Born machines quantum kernel learning wavelet transforms Rydberg atom arrays ion traps boson sampling graph theoretic models quantum optical machine learning neuromorphic architectures spiking neural networks quantum teleportation and quantum walks Quantum Computing for the Brain is a comprehensive one stop resource for an improved understanding of the converging research frontiers of foundational physics information theory and neuroscience in the context of quantum computing

Quantum International Relations James Der Derian, Alexander Wendt, 2022 The contributors to this volume are motivated by a common apprehension and a common hope The apprehension was first voiced by Einstein who lamented the inability of humanity at the individual and social level to keep up with the increased speed of technological change brought about by the quantum revolution As quantum science and technology fast forward into the 21st century the social sciences remain stuck in classical 19th century ways of thinking Can such a mechanistic model of the mind and society possibly help us manage the fully realized technological potential of the quantum That's where the hope appears that perhaps quantum is not just a physical science but a human science too In Quantum International Relations James Der Derian and Alexander Wendt gather rising scholars and leading experts to make the case for quantum approaches to world politics As a fundamental theory of reality and enabler of new technologies quantum now touches everything with the potential to revolutionize how we conduct diplomacy wage war and make wealth Contributors present the core principles of quantum mechanics entanglement uncertainty superposition and the wave function as significant catalysts and superior heuristics for an accelerating quantum

future Facing a reality which no longer corresponds to an outdated Newtonian worldview of states as billiard balls individuals as rational actors or power as objective interest Der Derian and Wendt issue an urgent call for a new human science of quantum International Relations At the centenary of the first quantum thought experiment in the 1920s this book offers a diversity of explorations speculations and approaches for understanding geopolitics in the 21st century

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