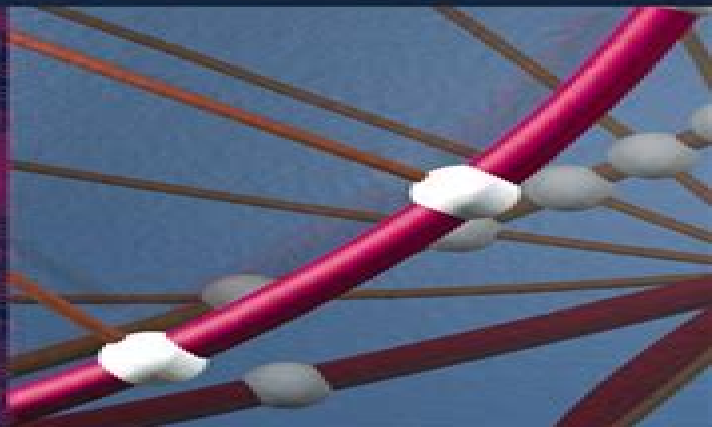


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A. Elitzur · S. Dolev · N. Kolenda (Eds.)

# QUO VADIS QUANTUM MECHANICS?

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# Quo Vadis Quantum Mechanics

**Ina Wunn, Davina Grojnowski**



## **Quo Vadis Quantum Mechanics:**

**Quo Vadis Quantum Mechanics?** Avshalom C. Elitzur, 2005-01-19 For more than a century quantum mechanics has served as a very powerful theory that has expanded physics and technology far beyond their classical limits yet it has also produced some of the most difficult paradoxes known to the human mind This book represents the combined efforts of sixteen of today's most eminent theoretical physicists to lay out future directions for quantum physics The authors include Yakir Aharonov Anton Zeilinger the Nobel laureates Anthony Leggett and Gerardus t Hooft Basil Hiley Lee Smolin and Henry Stapp Following a foreword by Roger Penrose the individual chapters address questions such as quantum non locality the measurement problem quantum insights into relativity cosmology and thermodynamics and the possible bearing of quantum phenomena on biology and consciousness

**Quo Vadis Quantum Mechanics?** Avshalom C. Elitzur, Shahr Dolev, Nancy Kolenda, 2005

**Quo Vadis Quantum Mechanics?** Avshalom C. Elitzur, Shahr Dolev, Nancy Kolenda, 2006-03-30 Each contribution is an article in itself and great effort has been made by the authors to be lucid and not too technical A few brief highlights of the round table discussions are given between the chapters Topics include Quantum non locality the measurement problem quantum insights into relativity cosmology and thermodynamics and possible bearings of quantum mechanics to biology and consciousness Authors include Yakir Aharonov and Anton Zeilinger plus Nobel laureates Anthony J Leggett 2003 and Gerardus t Hooft 1999 Foreword written by Sir Roger Penrose best selling author The Emperor's New Mind and world renowned mathematical physicist

**Prologue to Super Quantum Mechanics** Victor Vaguine, 2012-03 Since its foundation more than eight decades ago quantum mechanics has been plagued by enigmas mysteries and paradoxes and held hostage by quantum positivism This fact strongly suggests that something is fundamentally wrong with the quantum mechanics paradigm The best scientific minds such as Albert Einstein Louis de Broglie David Bohm Richard Feynman and others have spent years of their professional lives attempting to find resolution to the quantum mechanics predicament with not much success A shift of the quantum mechanics paradigm toward a deeper physics theory is long overdue The Prologue is an introduction by Victor Vaguine of a fundamentally new quantum mechanics paradigm which he calls Super Quantum Mechanics SQM The theory and concept will be further expanded in a companion book Conceptual and Philosophical Foundations of Super Quantum Mechanics February 2013 In contrast with quantum mechanics which remains an enigmatic and mysterious science full of paradoxes SQM is an ontological science The SQM is a giant step in the progression of quantum mechanics toward a deeper physics theory Fulfilling Einstein's dream the centerpiece of SQM is an elementary quantum entity event which can be visualized by humans Each quantum entity is tangible with all its physical attributes at all times and not hanging in limbo The philosophy of SQM is non local realism SQM brings non locality dimension into focus and into system Einstein stubbornly rejected non locality in effect imposing a subjective constraint on objective reality He thus missed a supreme opportunity of a lifetime to free quantum mechanics from the detrimental influence of quantum positivism

and to bring it to a deeper level In contrast with the Standard Model of particle physics which assumes elementary particles as point like with no structure SQM states that elementary particles and forces have dimension and structure Based on three fundamental reasons Victor Vaguine declares that the string theory is not valid scientific theory The author ventures into cosmology by declaring intrinsic connections of SQM with the origin of the Universe through his original concept of absolute quantum entanglement at the pre Big Bang state Victor Vaguine states that the inflationary multiverse theory is scientifically invalid and replaces it with a concept of Uni Universe a new term coined by the author The Uni Universe is an assembly of habitable universes in 4 dimensional space Each individual universe such as our Universe is sharply and uniquely defined Based on the law of fine tuning the author estimates expected time of arrival of humans on the cosmic scene versus actual timing size of our Universe unknown to science until now the extent of the habitability in the Milky Way galaxy the observed Universe and our Universe a time window for emerging intelligence in our Universe Never ending scientific progress is presented as a series of curtains each hiding a fundamentally new scientific paradigm None of the curtains can be opened by logic or mathematical formalism alone requiring instead great intuition and counter intuition Victor Vaguine declares that the lethal combination of materialism and quantum positivism is an impediment to scientific progress in theoretical physics and cosmology The book written at a high scientific level contains minimal mathematical formalism and is accessible for laypersons with intellectual curiosity

**Quantum Mechanics and Gravity** Mendel Sachs, 2004-01-12 This book describes a paradigm change in modern physics from the philosophy and mathematical expression of the quantum theory to those of general relativity The approach applies to all domains from elementary particles to cosmology The change is from the positivistic views in which atomism nondeterminism and measurement are fundamental to a holistic view in realism wherein matter electrons galaxies are correlated modes of a single continuum the universe A field that unifies electromagnetism gravity and inertia is demonstrated explicitly with new predictions in terms of quaternion and spinor field equations in a curved spacetime Quantum mechanics emerges as a linear flatspace approximation for the equations of inertia in general relativity

Quantum Theory as an Emergent Phenomenon Stephen L. Adler, 2004-08-26 Quantum mechanics is our most successful physical theory However it raises conceptual issues that have perplexed physicists and philosophers of science for decades This 2004 book develops an approach based on the proposal that quantum theory is not a complete final theory but is in fact an emergent phenomenon arising from a deeper level of dynamics The dynamics at this deeper level are taken to be an extension of classical dynamics to non commuting matrix variables with cyclic permutation inside a trace used as the basic calculational tool With plausible assumptions quantum theory is shown to emerge as the statistical thermodynamics of this underlying theory with the canonical commutation anticommutation relations derived from a generalized equipartition theorem Brownian motion corrections to this thermodynamics are argued to lead to state vector reduction and to the probabilistic interpretation of quantum theory making contact with phenomenological proposals for stochastic modifications

to Schrödinger dynamics      *Interpretative Aspects of Quantum Mechanics* Matteo Campanella, David Jou, Maria Stella Mongiovì, 2020-08-27 This book presents a selection of Prof Matteo Campanella's writings on the interpretative aspects of quantum mechanics and on a possible derivation of Born's rule one of the key principles of the probabilistic interpretation of quantum mechanics that is independent of any priori probabilistic interpretation This topic is of fundamental interest and as such is currently an active area of research Starting from a natural method of defining such a state Campanella found that it can be characterized through a partial density operator which occurs as a consequence of the formalism and of a number of reasonable assumptions connected with the notion of a state The book demonstrates that the density operator arises as an orbit invariant that has to be interpreted as probabilistic and that its quantitative implementation is equivalent to Born's rule The appendices present various mathematical details which would have interrupted the continuity of the discussion if they had been included in the main text For instance they discuss baricentric coordinates mapping between Hilbert spaces tensor products between linear spaces orbits of vectors of a linear space under the action of its structure group and the class of Hilbert space as a category      *Selected Topics in Applications of Quantum Mechanics* Mohammad Reza Pahlavani, 2015-05-13 This book has two sections The section Selected Topics in Applications of Quantum Mechanics provides seven chapters about different applications of quantum mechanics in science and technology The section Selected Topics in Foundations of Quantum Mechanics provides seven chapters about the foundations of quantum mechanics This book is written by a community of expert scientists from different research institutes and universities from all over the world Without a doubt quantum mechanics is the greatest discovery of the 20th century Therefore its history and foundations are of great interest to scientists and students This book covers some of the applications of quantum mechanics in nuclear physics medical science information technology atomic physics and material science as well as selected topics of quantum mechanics through different bases and ideas about quantum mechanics The basic idea of the publication of this book is to make scientists and researchers as well as graduate students familiar with the foundations of quantum mechanics      **Quantum Mechanics at the Crossroads** James Evans, Alan S. Thorndike, 2006-11-02 Quantum mechanics is a beautiful strange and successful theory that originated in the 1920s The theory which Niels Bohr regarded as finished and complete has in the last few decades rapidly developed in unexpected directions An intense new focus on the stranger aspects of the theory including entanglement and nonlocality has resulted in new perceptions of the foundations of quantum mechanics as well as surprising new exploitations of quantum phenomena Historians and philosophers of science have also renewed their attention to quantum mechanics opening up its human dimensions and asking searching questions about its meaning This volume brings together new insights from different vantage points Historians of physics such as J L Heilbron philosophers of science such as Abner Shimony and Michel Bitbol and quantum physicists such as Wolfgang Ketterle and Roland Omnès join forces to tackle essential questions in quantum mechanics and its interpretation All the authors have written for a broad readership

and the resulting volume will appeal to everyone wishing to keep abreast of new developments in quantum mechanics as well as its history and philosophy      *Modern Quantum Theory* Reinhold Bertlmann, Reinhold A. Bertlmann, Nicolai Friis, 2023

Suitable for undergraduate students in physics and related subjects who encounter quantum mechanics for the first time this book also serves as a resource for graduate students who want to engage with more advanced topics offering a collection of derivations proofs technical methods and references for graduate students and more experienced readers engaged with teaching and active research The book is divided into three parts Part I Quantum Mechanics Part II Entanglement and Non Locality and Part III Advanced Topics in Modern Quantum Physics Part I provides a modern view on quantum mechanics a central topic of theoretical physics      *Probability in Physics* Yemima Ben-Menahem, Meir Hemmo, 2012-01-10

What is the role and meaning of probability in physical theory in particular in two of the most successful theories of our age quantum physics and statistical mechanics Laws once conceived as universal and deterministic such as Newton's laws of motion or the second law of thermodynamics are replaced in these theories by inherently probabilistic laws This collection of essays by some of the world's foremost experts presents an in depth analysis of the meaning of probability in contemporary physics Among the questions addressed are How are probabilities defined Are they objective or subjective What is their explanatory value What are the differences between quantum and classical probabilities The result is an informative and thought provoking book for the scientifically inquisitive      *The Routledge Companion to Philosophy of Physics* Eleanor Knox, Alastair Wilson, 2021-09-28

The Routledge Companion to Philosophy of Physics is a comprehensive and authoritative guide to the state of the art in the philosophy of physics It comprises 54 self contained chapters written by leading philosophers of physics at both senior and junior levels making it the most thorough and detailed volume of its type on the market nearly every major perspective in the field is represented The Companion's 54 chapters are organized into 12 parts The first seven parts cover all of the major physical theories investigated by philosophers of physics today and the last five explore key themes that unite the study of these theories I Newtonian Mechanics II Special Relativity III General Relativity IV Non Relativistic Quantum Theory V Quantum Field Theory VI Quantum Gravity VII Statistical Mechanics and Thermodynamics VIII Explanation IX Intertheoretic Relations X Symmetries XI Metaphysics XII Cosmology The difficulty level of the chapters has been carefully pitched so as to offer both accessible summaries for those new to philosophy of physics and standard reference points for active researchers on the front lines An introductory chapter by the editors maps out the field and each part also begins with a short summary that places the individual chapters in context The volume will be indispensable to any serious student or scholar of philosophy of physics      **Why More Is Different** Brigitte Falkenburg, Margaret Morrison, 2015-02-26

The physics of condensed matter in contrast to quantum physics or cosmology is not traditionally associated with deep philosophical questions However as science largely thanks to more powerful computers becomes capable of analysing and modelling ever more complex many body systems basic questions of philosophical relevance arise

Questions about the emergence of structure the nature of cooperative behaviour the implications of the second law the quantum classical transition and many other issues This book is a collection of essays by leading physicists and philosophers Each investigates one or more of these issues making use of examples from modern condensed matter research Physicists and philosophers alike will find surprising and stimulating ideas in these pages [Spirals and Vortices](#) Kinko Tsuji, Stefan C. Müller, 2019-04-04 This richly illustrated book explores the fascinating and ubiquitous occurrence of spirals and vortices in human culture and in nature Spiral forms have been used as elements in the arts for thousands of years whereas their role in nature and science from DNA and sea shells to galaxies is still a topic of investigation in numerous fields Following an introduction to the cultural history of spiral forms the book presents contributions from leading experts who describe the origins mechanisms and dynamics of spirals and vortices in their special fields As a whole the book provides a valuable source of information while also taking the reader on an aesthetic and scientific journey through the world of spiral forms

*Information—Consciousness—Reality* James B. Glattfelder, 2019-04-10 This open access book chronicles the rise of a new scientific paradigm offering novel insights into the age old enigmas of existence Over 300 years ago the human mind discovered the machine code of reality mathematics By utilizing abstract thought systems humans began to decode the workings of the cosmos From this understanding the current scientific paradigm emerged ultimately discovering the gift of technology Today however our island of knowledge is surrounded by ever longer shores of ignorance Science appears to have hit a dead end when confronted with the nature of reality and consciousness In this fascinating and accessible volume James Glattfelder explores a radical paradigm shift uncovering the ontology of reality It is found to be information theoretic and participatory yielding a computational and programmable universe *Energy, Complexity and Wealth Maximization* Robert Ayres, 2016-07-14 This book is about the mechanisms of wealth creation or what we like to think of as evolutionary progress The massive circular flow of goods and services between producers and consumers is not a perpetual motion machine it has been dependent for the past 150 years on energy inputs from a finite storage of fossil fuels In this book you will learn about the three key requirements for wealth creation and how this process acts according to physical laws and usually after some part of the natural wealth of the planet has been exploited in an episode of creative destruction Knowledge and natural capital particularly energy will interact to power the human wealth engine in the future as it has in the past Will it sputter or continue along the path of evolutionary progress that we have come to expect Can the new immaterial wealth of information and ideas which makes up the so called knowledge economy replace depleted natural wealth These questions have no simple answers but this masterful book will help you to understand the grand challenge of our time Praise for *Energy Complexity and Wealth Maximization* people who run the modern world politicians economists and lawyers have a very poor grasp of how it really works because they do not understand the fundamentals of energy exergy and entropy those decision makers would greatly benefit from reading this book Vaclav Smil Distinguished Professor Emeritus University of Manitoba A

grandiose design impressive worth reading and reflecting Prof Dr Ernst Ulrich von Weizsäcker Founder of Wuppertal Institute Co President of the Club of Rome Former Member of the German Bundestag co chair of the UN's Resource Panel The book is a must read for concerned citizens and decision makers across the globe RK Pachauri Founder and Executive Vice Chairman The Energy and Resources Institute TERI and ex chair International Panel on Climate Change IPCC     *The Challenge of Chance* Klaas Landsman, Ellen van Wolde, 2016-06-09 This book presents a multidisciplinary perspective on chance with contributions from distinguished researchers in the areas of biology cognitive neuroscience economics genetics general history law linguistics logic mathematical physics statistics theology and philosophy The individual chapters are bound together by a general introduction followed by an opening chapter that surveys 2500 years of linguistic philosophical and scientific reflections on chance coincidence fortune randomness luck and related concepts A main conclusion that can be drawn is that even after all this time we still cannot be sure whether chance is a truly fundamental and irreducible phenomenon in that certain events are simply uncaused and could have been otherwise or whether it is always simply a reflection of our ignorance Other challenges that emerge from this book include a better understanding of the contextuality and perspectival character of chance including its scale dependence and the curious fact that throughout history including contemporary science chance has been used both as an explanation and as a hallmark of the absence of explanation As such this book challenges the reader to think about chance in a new way and to come to grips with this endlessly fascinating phenomenon     **Ancestors, Territoriality, and Gods** Ina Wunn, Davina Grojnowski, 2016-07-27 This book sets out to explain how and why religion came into being Today this question is as fascinating as ever especially since religion has moved to the centre of socio political relationships In contrast to the current but incomplete approaches from disciplines such as cognitive science and psychology the present authors adopt a new approach equally manifest and constructive that explains the origins of religion based strictly on behavioural biology They employ accepted research results that remove all need for speculation Decisive factors for the earliest demonstrations of religion are thus territorial behaviour and ranking coping with existential fears and conflict solution with the help of rituals These in turn in a process of cultural evolution are shown to be the roots of the historical and contemporary religions     *Space, Time and the Limits of Human Understanding* Shyam Wuppuluri, Giancarlo Ghirardi, 2016-12-01 In this compendium of essays some of the world's leading thinkers discuss their conceptions of space and time as viewed through the lens of their own discipline With an epilogue on the limits of human understanding this volume hosts contributions from six or more diverse fields It presumes only rudimentary background knowledge on the part of the reader Time and again through the prism of intellect humans have tried to diffract reality into various distinct yet seamless atomic yet holistic independent yet interrelated disciplines and have attempted to study it contextually Philosophers debate the paradoxes or engage in meditations dialogues and reflections on the content and nature of space and time Physicists too have been trying to mold space and time to fit their notions concerning micro and



macro worlds Mathematicians focus on the abstract aspects of space time and measurement While cognitive scientists ponder over the perceptual and experiential facets of our consciousness of space and time computer scientists theoretically and practically try to optimize the space time complexities in storing and retrieving data information The list is never ending Linguists logicians artists evolutionary biologists geographers etc all are trying to weave a web of understanding around the same duo However our endeavour into a world of such endless imagination is restrained by intellectual dilemmas such as Can humans comprehend everything Are there any limits Can finite thought fathom infinity We have sought far and wide among the best minds to furnish articles that provide an overview of the above topics We hope that through this journey a symphony of patterns and tapestry of intuitions will emerge providing the reader with insights into the questions What is Space What is Time Chapter 15 of this book is available open access under a CC BY 4.0 license [The Physical Basis of The Direction of Time](#) H. Dieter Zeh, 2007-08-13 This thoroughly revised 5th edition of Zeh's classic text investigates irreversible phenomena and their foundation in classical quantum and cosmological settings It includes new sections on the meaning of probabilities in a cosmological context irreversible aspects of quantum computers and various consequences of the expansion of the Universe In particular the book offers an analysis of the physical concept of time

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