

Physics of Atoms and Molecules

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Quantum Mechanics versus Local Realism

The Einstein-Podolsky-Rosen
Paradox

Quantum Mechanics Versus Local Realism

Malin Premaratne, Govind P. Agrawal



Quantum Mechanics Versus Local Realism:

Quantum Mechanics Versus Local Realism F. Selleri, 2013-06-29 If you have two small objects one here on Earth and the other on the planet Pluto what would you say of the following statement No modification of the properties of the object on the earth can take place as a consequence of an interaction of the distant object with a third body also located on Pluto The opinion that the previous statement is correct is very natural but modern quantum theory implies that it must be wrong in certain cases Consider in fact two arbitrary objects separated by such a large distance that they are unable to exert any important mutual influence It is possible to show rigorously that a measurable physical quantity exists with a value more than 40% different from the value theoretically predicted by quantum mechanics Necessarily then either space is largely an illusion of our senses and it does not exist objectively or information can be sent from the future to the past or something important has to be changed in modern physics This is the essence of the Einstein Podolsky Rosen EPR paradox A paradox is an argument that derives absurd conclusions by valid deduction from acceptable premises In the case of the EPR paradox the absurd conclusion is that Bell's observable d should have two different values $d \geq 2 J_i$ and The acceptable premises are the following 1 All the empirical predictions of the existing quantum theory are correct

Tests of Quantum Mechanics Versus Local Realism Using an Atomic Deuterium Source T. B. Haji-Hassan, University of Stirling, 1987

Tests of Quantum Mechanics Versus Local Realism Using an Atomic Deuterium Source Torla bin Hassan, 1987

The Einstein, Podolsky, and Rosen Paradox in Atomic, Nuclear, and Particle Physics Alexander Afriat, F. Selleri, 2013-11-11 Paradox conjures up arrows and tortoises But it has a speculative gedanken ring no one would dream of really conjuring up Achilles to confirm that he catches the tortoise The paradox of Einstein Podolsky and Rosen however is capable of empirical test Attempted experimental resolutions have involved photons but these are not detected often enough to settle the matter Kaons are easier to detect and will soon be used to discriminate between quantum mechanics and local realism The existence of an objective physical reality which had disappeared behind the impressive formalism of quantum mechanics was originally intended to be the central issue of the paradox locality like the mathematics used was just assumed to hold Quantum mechanics with its incompatible measurements was born rather by chance in an atmosphere of great positivistic zeal in which only the obviously measurable had scientific respectability Speculation about occult unobservable quantities was viewed as vacuous metaphysics which should surely form no part of a mature scientific attitude Soon the unmeasurable once only disreputable vanished altogether One had first been told not to worry about it then as dogma got more carefully defined one was assured that the unobserved was just not there This made it easier not to think about it and to avoid hazardous metaphysical temptation

Quantum Nonlocality and Reality Mary Bell, Shan Gao, 2016-09-19 A collaboration between distinguished physicists and philosophers of physics this important anthology surveys the deep implications of Bell's nonlocality theorem

Quantum Dynamics of Simple Systems G.L Oppo, Stephen M. Barnett, E Riis, M Wilkinson, 1997-01-01 The present

level of experimental sophistication in quantum physics allows physicists to explore domains unimaginable just a decade ago and to test the most fundamental laws of quantum mechanics This has led to renewed interest in devising new tests experiments and devices where it is possible to observe the interaction and localization of just a few atoms or photons These techniques have been used to reveal new nonclassical effects to question the limit of the principle of correspondence and to force quantum behavior in semiconductors With contributions from leading experts in quantum systems **Quantum Dynamics of Simple Systems** provides an overview of the present range of quantum dynamics exploring their use and exotic behaviors It covers specific subjects of quantum dynamics in a competent and detailed way with emphasis on simple systems where few atoms or electrons are involved This volume will prove to be a useful tool for graduate students as well as experienced physicists

Microphysical Reality and Quantum Formalism Alwyn Van der Merwe, Franco Selleri, G. Tarozzi, 1988-02 Proceedings of the conference Microphysical reality and quantum formalism Urbino Italy September 25th October 3rd 1985

Advances in Electronics and Electron Physics, 1986-10-30 Advances in Electronics and Electron Physics

Einstein's Struggles with Quantum Theory Dipankar Home, Andrew Whitaker, 2007-11-13 This book presents an account of all aspects of Einstein's achievements in quantum theory his own views and the progress his work has stimulated since his death While some chapters use mathematics at an undergraduate physics level a path is provided for the reader more concerned with ideas than equations and the book will benefit to anybody interested in Einstein and his approach to the quantum

Gleason's Theorem and Its Applications Anatolij Dvurecenskij, 2013-06-29 For many years physics and mathematics have had a fruitful influence on one another Classical mechanics and celestial mechanics have produced very deep problems whose solutions have enhanced mathematics On the other hand mathematics itself has found interesting theories which then sometimes after many years have been reflected in physics confirming the thesis that nothing is more practical than a good theory The same is true for the younger physical discipline of quantum mechanics In the 1930s two events not at all random became The mathematical back grounds of both quantum mechanics and probability theory In 1936 G Birkhoff and J von Neumann published their historical paper The logic of quantum mechanics in which a quantum logic was suggested The mathematical foundations of quantum mechanics remains an outstanding problem of mathematics physics logic and philosophy even today The theory of quantum logics is a major stream in this axiomatic knowledge river where L H the system of all closed subspaces of a Hilbert space H due to J von Neumann plays an important role When A M Gleason published his solution to G Mackey's problem showing that any state probability measure corresponds to a density operator he probably did not anticipate that his solution would become a cornerstone of axiomatic theory of quantum mechanics nor that it would provide many interesting applications to mathematics

God, Time, and Eternity W.L. Craig, 2013-03-14 Those who think about time are thinking deeply Those who think about God T are thinking even more deeply still Those who try to think about God and time are pressing the very limits of human understanding Undaunted this is precisely the project

which we have set for ourselves in this study to try to grasp the nature of divine eternity to understand what is meant by the annation that God is etemal to fonnulate a coherent doctrine ofGod s relationship with time This study the second installment of a long range research pro gram devoted to a philosophical analysis of the principal attributes of God flows naturally out of my previous exploration of divine omniscience For the most contentious issue with respect to God s being omniscient concerns divine foreknowledge of future contingents such as free acts of human agents The very concept of foreknowledge presupposes that God is temporal and a good many thinkers from Boethius to certain contemporary philosophers have thought to avoid the alleged incompatibility of divine foreknowledge and human freedom by afflning the timelessness of God Thus in examining the complex of issues surrounding the foreknowledge question we found ourselves already immersed in the question of divine eternity

The Concept of Probability E.I. Bitsakis,C.A. Nicolaidis,2012-12-06 This volume contains articles from invited speakers at a meeting which took place in Delphi during the week of October 12 16 1987 The theme of the meeting was The concept of probability and was organized by the Group of Interdisciplinary Research Physics Department University of Athens and the Theoretical and Physical Chemistry Institute of the National Hellenic Research Foundation Athens The Group ofInterdisciplinary Research organized two previous Meetings 1 on the Concept of physical reality 1982 and 2 on the question of determinism in Physics 1984 This small gathering which was attended by scientists mathematicians and philosophers from more than 22 countries took place on the occasion of the 100th year from the birthday of E Schrodinger As the father of wave mechanics Schrodinger thrused us into an era of physics where knowledge of the IV function is considered for most situations as the ultimate aim and the ultimate truth Yet he as well as another towering figure of 20th century physics A Einstein never really felt confortable with the interpretation of the meaning ofIV and of the information that it contains With Einstein playing the leading role a debate about concepts and interpretation started as soon as quantum mechanics was born Central theme to this debate is the concept of probability a concept which permeates explicitly or implicitly all science and even our decision making in everyday life The articles cover a broad spectrum of thought and results mathematical physical epistemological experimental specific general many of them outside the accepted norm

Advances in Imaging and Electron Physics Peter W. Hawkes,2016-09-26 Advances in Imaging and Electron Physics merges two long running serials Advances in Electronics and Electron Physics and Advances in Optical and Electron Microscopy The series features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies microlithography image science digital image processing electromagnetic wave propagation electron microscopy and the computing methods used in all these domains Contains contributions from leading authorities on the subject matter Informs and updates with all the latest developments in the field of imaging and electron physics Provides practitioners interested in microscopy optics image processing mathematical morphology electromagnetic fields electron and ion emission with a valuable resource Features extended articles on the physics of

electron devices especially semiconductor devices particle optics at high and low energies microlithography image science and digital image processing

Holism in Philosophy of Mind and Philosophy of Physics M. Esfeld, 2013-03-09 The Scope of the Project The concept of holism is at the centre of far reaching changes in various areas of philosophy in the second half of the twentieth century Holism in epistemology and the philosophy of mind is widespread among analytic philosophers subsequent to the work of the later Wittgenstein and to Quine's Two Dogmas of Empiricism Roughly speaking the claim is that a for a person to have beliefs a social linguistic community is required and that b single beliefs have a meaning only within a whole system of beliefs Furthermore holism is discussed in science in particular in the interpretation of quantum physics In fact the term holism goes back to Smuts 1926 who introduces this term in a biological context I Holism in any of these areas has considerable consequences for our philosophical view of the world and ourselves Holism in quantum physics is said to refute atomism which has been predominant in modern philosophy of nature Holism in epistemology and the philosophy of mind is seen as an alternative to what is known as the Cartesian tradition which dominated modern thought down to logical empiricism

Interpreting the Quantum World Jeffrey Bub, 1999-08-26 Philosophy of physics title by highly regarded author fully revised for this paperback edition

Data Science Ivo D. Dinov, Milen Velchev Velev, 2021-12-06 The amount of new information is constantly increasing faster than our ability to fully interpret and utilize it to improve human experiences Addressing this asymmetry requires novel and revolutionary scientific methods and effective human and artificial intelligence interfaces By lifting the concept of time from a positive real number to a 2D complex time kime this book uncovers a connection between artificial intelligence AI data science and quantum mechanics It proposes a new mathematical foundation for data science based on raising the 4D spacetime to a higher dimension where longitudinal data e g time series are represented as manifolds e g kime surfaces This new framework enables the development of innovative data science analytical methods for model based and model free scientific inference derived computed phenotyping and statistical forecasting The book provides a transdisciplinary bridge and a pragmatic mechanism to translate quantum mechanical principles such as particles and wavefunctions into data science concepts such as datum and inference functions It includes many open mathematical problems that still need to be solved technological challenges that need to be tackled and computational statistics algorithms that have to be fully developed and validated Spacekime analytics provide mechanisms to effectively handle process and interpret large heterogeneous and continuously tracked digital information from multiple sources The authors propose computational methods probability model based techniques and analytical strategies to estimate approximate or simulate the complex time phases kime directions This allows transforming time varying data such as time series observations into higher dimensional manifolds representing complex valued and kime indexed surfaces kime surfaces The book includes many illustrations of model based and model free spacekime analytic techniques applied to economic forecasting identification of functional brain activation and high

dimensional cohort phenotyping Specific case study examples include unsupervised clustering using the Michigan Consumer Sentiment Index MCSI model based inference using functional magnetic resonance imaging fMRI data and model free inference using the UK Biobank data archive The material includes mathematical inferential computational and philosophical topics such as Heisenberg uncertainty principle and alternative approaches to large sample theory where a few spacetime observations can be amplified by a series of derived estimated or simulated kime phases The authors extend Newton Leibniz calculus of integration and differentiation to the spacekime manifold and discuss possible solutions to some of the problems of time The coverage also includes 5D spacekime formulations of classical 4D spacetime mathematical equations describing natural laws of physics as well as statistical articulation of spacekime analytics in a Bayesian inference framework The steady increase of the volume and complexity of observed and recorded digital information drives the urgent need to develop novel data analytical strategies Spacekime analytics represents one new data analytic approach which provides a mechanism to understand compound phenomena that are observed as multiplex longitudinal processes and computationally tracked by proxy measures This book may be of interest to academic scholars graduate students postdoctoral fellows artificial intelligence and machine learning engineers biostatisticians econometricians and data analysts Some of the material may also resonate with philosophers futurists astrophysicists space industry technicians biomedical researchers health practitioners and the general public

On Quanta, Mind and Matter Harald Atmanspacher, Anton Amann, U. Müller-Herold, 2012-12-06 INSTEAD OF A FESTSCHRIFT In June 1998 Hans Primas turned 70 years old Although he himself is not fond of jubilees and although he likes to play the decimal system of numbers down as contingent this is nevertheless a suitable occasion to reflect on the professional work of one of the rare distinguished contemporary scientists who attach equal importance to experimental and theoretical and conceptual lines of research Hans Primas interests have covered an enormous range methods and instruments for nuclear magnetic resonance theoretical chemistry C and W algebraic formulations of quantum mechanics the measurement problem and its various implications holism and realism in quantum theory theory reduction the work and personality of Wolfgang Pauli as well as Jungian psychology In many of these fields he provided important and original food for thought in some cases going far beyond the everyday business in the scientific world As is the case with other scientists who are conceptually innovative Hans Primas is read more than he is quoted His influence is due to his writings Even with the current flood of publications he still performs the miracle of having scientists eagerly awaiting his next publication

Time and the Metaphysics of Relativity W.L. Craig, 2013-11-11 the present volume is part of a larger project which is the attempt to draft a coherent doctrine of divine eternity and God's relationship to time In my God I Time and Eternity I argued that whether one construes divine eternity in terms of timelessness or of omnitemporality will depend crucially upon one's views about the objectivity of tensed facts and temporal becoming If one adopts a tensed or in McTaggart's terminology an A Theory of time then a coherent doctrine of divine eternity requires that

one construe God at least since the moment of creation to exist temporally which implies that divine timelessness can be successfully maintained only if a tenseless or B Theory of time is correct Accordingly in my companion volumes *The Tensed Theory of Time a Critical Examination* and *The Tenseless Theory of Time a Critical Examination* I set for myself the task of 2 adjudicating the A vs B Theory of time In the former volume I examine arguments for and against the A Theory of time and in the latter I turn to an examination of arguments for and against the B Theory This inquiry took me into a study of relativity theory its presuppositions and implications The paucity of integrative literature dealing with the concept of God and relativity theory is striking

Theoretical Foundations of Nanoscale Quantum Devices Malin Premaratne, Govind P.

Agrawal, 2021-01-07 This self contained text describes the underlying theory and approximate quantum models of real nanodevices for nanotechnology applications

Beyond Conflict and Reduction William Desmond, John Steffen, Koen

Decoster, 2001 While much attention has been devoted to the conflicts between religion and science in the modern age less rarely has sufficient attention been devoted to the complex interplay between religion science and philosophy This book offers a set of wide ranging essays in which the interplay between all these three is the explicit focus of attention The essays reflect a desire to think of this interplay in terms other than conflict and reduction The book also represents a pluralism of approaches to reflection on this interplay Part I represents a more idealistic orientation in which religion philosophy and science are seen to enjoy a complementarity Part II formulates the interplay more from the standpoint of process philosophy Part III explores the issue with primary emphasis on the contributions of science In Part IV the essays reflect a desire to take the religious on its own terms and explore the interplay with philosophy and science with the proper seriousness solicited by these terms

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v_1, v_2, v_3 composto dai vettori v_1, v_2, v_3 di \mathbb{R}^3 devo calcolare qual è la dimensione e la base del sottospazio W considerato i vettori v_1, v_2, v_3 dello spazio vettoriale V

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