

Physics of Atoms and Molecules

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Quantum Mechanics versus Local Realism

The Einstein-Podolsky-Rosen
Paradox

Quantum Mechanics Versus Local Realism

Franco Selleri



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 should have two different values $d \neq d_2$ and The acceptable premises are the following 1 All the empirical predictions of the existing quantum theory are correct

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

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

Foundations and Interpretation of Quantum Mechanics Gennaro Auletta, Giorgio Parisi, 2001 The aim of this book is twofold to provide a comprehensive account of the foundations of the theory and to outline a theoretical and philosophical interpretation suggested from the results of the last twenty years There is a need to provide an account of the foundations of the theory because recent experience has largely confirmed the theory

and offered a wealth of new discoveries and possibilities On the other side the following results have generated a new basis for discussing the problem of the interpretation the new developments in measurement theory the experimental generation of Schrödinger cats recent developments which allow for the first time the simultaneous measurement of complementary observables quantum information processing teleportation and computation To accomplish this task the book combines historical systematic and thematic approaches

Foundations Of Quantum Mechanics, The: Historical Analysis And Open Questions Claudio Garola, Arcangelo Rossi, 2000-05-11 This volume provides a sample of the present research on the foundations of quantum mechanics and related topics by collecting the papers of the Italian scholars who attended the conference entitled The Foundations of Quantum Mechanics Historical Analysis and Open Questions Lecce 1998 The perspective of the book is interdisciplinary and hence philosophical historical and technical papers are gathered together so as to allow the reader to compare different viewpoints and cultural approaches Most of the papers confront directly or indirectly the objectivity problem taking into account the positions of the founders of QM or more recent developments More specifically the technical papers in the book pay special attention to the interpretation of the experiments on Bell's inequalities and to decoherence theory but topics on unsharp QM the consistent history approach quantum probability and alternative theories are also discussed Furthermore a number of historical and philosophical papers are devoted to Planck's, Weyl's and Pauli's thought but topics such as quantum ontology predictivity of quantum laws etc are treated

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

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

The Foundations of Quantum Mechanics Claudio Garola, Arcangelo Rossi, 2012-12-06 In The Foundations of Quantum Mechanics Historical Analysis and Open Questions leading Italian researchers involved in different aspects of the foundations and history of quantum mechanics are brought together in an interdisciplinary debate The book therefore presents an invaluable overview of the state of Italian work in the field at this moment and of the open problems that still exist in the foundations of the theory Audience Physicists logicians mathematicians and epistemologists whose research concerns the historical analysis of quantum mechanics

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

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

The Concept of Probability E.I. Bitsakis, C.A. Nicolaides, 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 of Interdisciplinary 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 thrusted 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 comfortable with the interpretation of the meaning of IV 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

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

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 affirmation that God is eternal to formulate a coherent doctrine of God's relationship with time This study the second installment of a long range research program 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 affirming 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

Wave-Particle Duality Franco

Selleri, 2012-12-06 This volume tries to continue a tradition of reviews of the contemporary research on the foundations of modern physics begun by the volume on the Einstein Podolsky Rosen paradox that appeared a few years ago I Its publication coincides with the hundredth anniversary of de Broglie's birth 1892 a very welcome superposition given the lasting influence of the Einstein de Broglie conception of wave particle duality The present book however contains papers based on a broad spectrum of basic ideas some even opposite to those that Einstein and de Broglie would have liked The order of the contributions in this book is alphabetical by first author's name It is important here to stress the presence of three reviews of fundamental experimental data by Hasselbach electron interferometry Rauch neutron interferometry and Tonomura Aharonov Bohm effect Hasselbach reviews several interesting experiments performed in 1971 in Ubingen with the electron biprism

interferometer Wave particle duality is brought out in striking ways e g in the buildup of an interference pattern out of single events The Sagnac effect for electrons is also discussed The chapter by Rauch presents interesting results on wave particle duality for neutrons Of particular interest are the differences between stochastic and deterministic absorption in the neutron interferometer and the concrete evidence for the quantum mechanical 41T symmetry of spinors In the short chapter by Tonomura conclusive evidence for the reality of the Aharonov Bohm effect is reviewed collected in experiments based on advanced technologies of electron holography and microlithography

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

Beyond Sight Dirk Fallon, *Beyond Sight* Realms Outside the Visible Spectrum explores the unseen universe that surrounds us an astonishing world that exists beyond the limits of human vision This 3 in 1 collection opens your eyes to the hidden forces wavelengths and cosmic secrets that remain invisible to the naked eye yet profoundly shape our understanding of reality In *Beyond the Visible* you ll journey through the electromagnetic spectrum uncovering the science behind infrared ultraviolet X rays and gamma rays Discover how astronomers use radio telescopes and other technologies to see the universe in frequencies far outside human sight revealing galaxies black holes and nebulae otherwise invisible In *Search of Darkness* ventures even further exploring the mysterious realms of dark matter and dark energy These elusive components may make up the vast majority of the cosmos yet they have never been seen or directly detected What evidence do we have for their existence and what could they tell us about the true nature of the universe In *the Shadow of the Stars* brings together lightless wonders from rogue planets wandering through interstellar space to cold stars and cosmic voids Learn how the absence of light doesn t mean the absence of meaning In fact some of the most powerful cosmic truths lie in the darkness With vivid explanations and fascinating insights *Beyond Sight* is your guide to understanding what lies outside our visual grasp from the smallest particles to the grandest cosmic structures Prepare to expand your vision scientifically and philosophically

Data Science Ivo D. Dinov, Milen Velchev Vele, 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

Between Rationalism and Empiricism Erhard Scheibe, 2012-12-06 Erhard Scheibe is one of the most outstanding German

philosophers of science He has written extensively on all the problems that confront the philosophy of mathematics and physics rationalism versus empiricism the laws of nature and reductionism He has published books on the logical foundations of quantum mechanics and on the reduction of physical theories Little of his work has been translated into English This collection of 38 essays is intended to remedy this omission and to help to make Erhard Scheibe's philosophical ideas better known to an international audience

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

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 backgrounds 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

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