

# An Alternative Theory of Everything: Classical Quantum Physics

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## Summary

This paper recaps the main results of our photon, proton and electron models and also revisits our earlier hypothesis of the neutrino being the carrier of the strong force carrier. As such, we think this paper contains all necessary ingredients of an alternative interpretation of quantum mechanics. We refer to this interpretation as a *realist* or *classical* interpretation because it does not require any equations or assumptions beyond the classical framework of physics: Maxwell's equations and the Planck-Einstein relation are all that is needed. In order to distinguish our approach from mainstream physics (read: the Standard Model), we refer to our ideas as *classical quantum physics*.

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# Notes In Classical And Quantum Physics

**Malcolm H. Mac Gregor**



## Notes In Classical And Quantum Physics:

Notes in Classical and Quantum Physics Franco Battaglia, Thomas F. George, 1990-01-01      **The Epistemology of Quantum Physics** Taha Sochi, 2022-08-07 This book is about the epistemology of quantum physics and its interpretation as a scientific theory in its technical form The contents of the book are essentially of non formal nature although the formalism of quantum mechanics is also investigated rather briefly inline with the needs and requirements of the epistemological investigation and considerations The reader should note that a general scientific and mathematical background at the undergraduate level is required to understand the book properly and appreciate its contents The book is like my previous books in style and favorable characteristics such as clarity graduality and intensive cross referencing with hyperlinks in the electronic versions However the book unlike my previous books does not contain questions or exercises or solved problems The book is particularly useful to those who have special interest in the interpretative aspects of quantum theory and the philosophy of science although it should be useful even to those who are interested in the purely scientific and technical aspects of the quantum theory since the contents of the book should broaden the understanding of these aspects and provide them with qualitative and interpretative dimensions as well as the added benefit of the brief investigation of the formalism of quantum mechanics      **Information Theory, Combinatorics, and Search Theory** Harout Aydinian, Ferdinando Cicalese, Christian Deppe, 2013-03-09 This volume is dedicated to the memory of Rudolf Ahlswede who passed away in December 2010 The Festschrift contains 36 thoroughly refereed research papers from a memorial symposium which took place in July 2011 The four macro topics of this workshop theory of games and strategic planning combinatorial group testing and database mining computational biology and string matching information coding and spreading and patrolling on networks provide a comprehensive picture of the vision Rudolf Ahlswede put forward of a broad and systematic theory of search      *The Enigmatic Electron* Malcolm H. Mac Gregor, 1992-09-30 The Rationale for the Present Book Perhaps the most critical problem facing present day particle physics is to delineate the relationship between classical and quantum systems This relationship has many facets Particle wave duality is one The concept of the point particle is another And the concept of particle mass is yet another The electron as the lightest of the charged particles represents a fundamental ground state and many of the essential problems in the murky area between the domains of classical and quantum physics can be brought into focus by studying just this one particle Thus the present book is centered on questions that arise in connection with the electron and in particular with its mass which has remained an unsolved and indeed almost unexplored mystery Each student of physics beginner and professional alike has to fashion for himself a way of thinking about the electron If after reading this book the reader views this topic somewhat differently than before the efforts of the author will have been amply rewarded When physicists were confronted with the properties of the electron they made a conceptual leap into the unknown they concluded that the electron does not obey classical laws with respect to mechanics as connected to the spin of the electron

and also with respect to electrodynamics as connected to the magnetic moment of the electron      **Schrödinger's Cat Smile** Sergey Suprun, Anatoly Suprun, Victor Petrenko, 2022-10-07 The book presents a multidisciplinary analysis of the context of quantum physics experiments and the function of the human mind that makes it possible to demonstrate that an object based model of reality formed at the level of the unconscious is the basis of our worldview The consciousness experiences a time flow because of the specific features of perception in the form of a model with a sequential fixation of events Together with the need to relate objects in terms of the model this generates a space time representation of the world around us Acceptance of a mental character of our construct of reality allows for resolution of the problems in quantum physics and its paradoxes thereby opening the way to an insight into reality The presented material is organized in a specific order to facilitate the reader's understanding First the fact that if there are no objects in the area of quantum mechanics then they belong to the corresponding model rather than the reality is proved by case studies of the most discussed and relevant paradoxes of quantum physics The authors consider a topological variant in constructing an object based space that describes the physical properties of an object that are the most verified in science and describable with mathematical relations The functionality of the proposed construct is tested by deriving the laws of conservation of energy and momentum in a relativistic form The book is oriented towards experts in physics and psychology advanced students and readers interested in state of the art science and the philosophy connected to it      **The Role of Topology in Classical and Quantum Physics** Giuseppe Morandi, 2014-01-15      図形と空間 (Japan), 1900      **When Form Becomes Substance** Luciano Boi, Carlos Lobo, 2022-11-30 This interdisciplinary volume collects contributions from experts in their respective fields with as common theme diagrams Diagrams play a fundamental role in the mathematical visualization and philosophical analysis of forms in space Some of the most interesting and profound recent developments in contemporary sciences whether in topology geometry dynamic systems theory quantum field theory or string theory have been made possible by the introduction of new types of diagrams which in addition to their essential role in the discovery of new classes of spaces and phenomena have contributed to enriching and clarifying the meaning of the operations structures and properties that are at the heart of these spaces and phenomena The volume gives a closer look at the scope and the nature of diagrams as constituents of mathematical and physical thought their function in contemporary artistic work and appraise in particular the actual importance of the diagrams of knots of braids of fields of interaction of strings in topology and geometry in quantum physics and in cosmology but also in theory of perception in plastic arts and in philosophy The editors carefully curated this volume to be an inspiration to students and researchers in philosophy phenomenology mathematics and the sciences as well as artists musicians and the general interested audience      **Ecole d'Ete de Probabilites de Saint-Flour XV-XVII, 1985-87** Persi Diaconis, David Elworthy, Hans Föllmer, Edward Nelson, George Papanicolaou, Srinivasa R.S. Varadhan, 2006-11-14 This volume contains detailed worked out notes of six main courses given

at the Saint Flour Summer Schools from 1985 to 1987

**The Probability Map of the Universe** Barry Loewer, Brad

Weslake, Eric Winsberg, 2023-01-10 David Albert's 2000 book *Time and Chance* attempts to account for some of the most intractable problems in theoretical physics in particular those arising from the direction of time This collection assembles essays exploring and debating Albert's ideas now recognized as among the most important recent contributions to the philosophy of science

*The Palgrave Handbook of Twentieth and Twenty-First Century Literature and Science* Neel Ahuja, Monique Allewaert, Lindsey Andrews, Gerry Canavan, Rebecca Evans, Nihad M. Farooq, Erica Fretwell, Nicholas Gaskill, Patrick Jagoda, Erin Gentry Lamb, Jennifer Rhee, Britt Rusert, Matthew A. Taylor, Aarthi Vadde, Priscilla Wald, Rebecca Walsh, 2020-11-26 This handbook illustrates the evolution of literature and science in collaboration and contestation across the twentieth and twenty first centuries The essays it gathers question the charged rhetoric that pits science against the humanities while also demonstrating the ways in which the convergence of literary and scientific approaches strengthens cultural analyses of colonialism race sex labor state formation and environmental destruction The broad scope of this collection explores the shifting relations between literature and science that have shaped our own cultural moment sometimes in ways that create a problematic hierarchy of knowledge and other times in ways that encourage fruitful interdisciplinary investigations innovative modes of knowledge production and politically charged calls for social justice Across units focused on epistemologies techniques and methods ethics and politics and forms and genres the chapters address problems ranging across epidemiology and global health genomics and biotechnology environmental and energy sciences behaviorism and psychology physics and computational and surveillance technologies Chapter 19 is available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](https://link.springer.com)

**Untying the Gordian**

**Knot** Timothy E. Eastman, 2020-12-10 In *Untying the Gordian Knot: Process, Reality, and Context* Timothy E. Eastman proposes a new creative synthesis the Logoi framework which is radically inclusive and incorporates both actuality and potentiality to show how the fundamental notions of process logic and relations woven with triads of input output context and quantum logical distinctions can resolve a baker's dozen of age old philosophic problems Further Eastman leverages a century of advances in quantum physics and the Relational Realism interpretation pioneered by Michael Epperson and Elias Zafiris and augmented by the independent research of Ruth Kastner and Hans Primas to resolve long standing issues in understanding quantum physics Adding to this Eastman makes use of advances in information and complex systems semiotics and process philosophy to show how multiple levels of context combined with relations including potential relations both local and local global can provide a grounding for causation emergence and physical law Finally the Logoi framework goes beyond standard ways of knowing that of context independence science and context focus arts humanities to demonstrate the inevitable role of ultimate context meaning spiritual dimension as part of a transformative ecological vision which is urgently needed in these times of human and environmental crises

**Partitioning a Many-Dimensional Containment Space** Dr. Martin

Concoyle,2014-01-16 This book is an introduction to the simple math patterns used to describe fundamental stable spectral orbital physical systems represented as discrete hyperbolic shapes The containment set has many dimensions and these dimensions possess macroscopic geometric properties which are discrete hyperbolic shapes Thus it is a description that transcends the idea of materialism i e it is higher dimensional and it can also be used to model a life form as a unified high dimension geometric construct which generates its own energy and which has a natural structure for memory where this construct is made in relation to the main property of the description being the spectral properties of both material systems and of the metric spaces that contain the material systems where material is simply a lower dimension metric space and where both material components and metric spaces are in resonance with the containing space

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multivariate polynomial arithmetic over the integers and rational numbers over methods for certifying the isolated zeros of polynomial systems to computer algebra problems in quantum computing

**The Autobiography of Light** George Grammatikakis, 2024-08-01 This book brings to life one of the most fundamental entities in the universe the electromagnetic waves that we perceive as light With his gift for narrative the author explains the nature of light and the long history of its influence on human ideas technology and culture From early efforts to understand vision and colours through relativity and quantum theory visual art and laser technology to the birth of stars and attempts to photograph their end readers will come to appreciate the central role of light not only in human history but also in the history of the cosmos This grand tour ends in a flourish with an epilogue written in the first person by the protagonist itself a true Autobiography of Light All chapters in the book are relatively self contained allowing readers to dip freely in and out What makes this captivating story so original is the effort made to point out the affinity between the study of light and achievements in the realm of culture *Philosophy, Science and Divine Action* F. LeRon Shults, Nancey C. Murphy, Robert John Russell, 2009-08-31 One of the most important and controversial themes in the contemporary dialogue among scientists and Christian theologians is the issue of divine action in the world This volume brings together contributions from leading scholars on this topic which emerged out of the Scientific Perspectives on Divine Action project co sponsored by the Vatican Observatory and the Center for Theology and Natural Science This multi year collaboration involved over 50 authors meeting at five international conferences The essays collected here demonstrate the pervasive role of philosophy in this dialogue Contributors include Ian Barbour Philip Clayton George F R Ellis Nancey Murphy Arthur Peacocke John Polkinghorne Robert John Russell F LeRon Shults William Stoeger Thomas F Tracy and Wesley Wildman *Quantum Social Science* Emmanuel Haven, Andrei Khrennikov, 2013-01-17 Written by world experts in the foundations of quantum mechanics and its applications to social science this book shows how elementary quantum mechanical principles can be applied to decision making paradoxes in psychology and used in modelling information in finance and economics The book starts with a thorough overview of some of the salient differences between classical statistical and quantum mechanics It presents arguments on why quantum mechanics can be applied outside of physics and defines quantum social science The issue of the existence of quantum probabilistic effects in psychology economics and finance is addressed and basic questions and answers are provided Aimed at researchers in economics and psychology as well as physics basic mathematical preliminaries and elementary concepts from quantum mechanics are defined in a self contained way The New Yearbook for Phenomenology and Phenomenological Philosophy Burt Hopkins, John Drummond, 2015-03-18 The New Yearbook for Phenomenology and Phenomenological Philosophy provides an annual international forum for phenomenological research in the spirit of Husserl's groundbreaking work and the extension of this work by such figures as Scheler Heidegger Sartre Levinas Merleau Ponty and Gadamer Mathematical and Physical Aspects of Stochastic Mechanics Ph. Blanchard, Philippe Blanchard, Philippe Combe, Ph. Combe, W. Zheng, 1987-07-08 This

lecture is meant as an introduction to stochastic mechanics for graduate students. The concepts and most of the statements are formulated in precise and exact mathematical language. Nevertheless the emphasis is on the physical concepts. The authors discuss thoroughly the aspects of stochastic mechanics in quantum mechanics firstly as a way of quantization as proposed by E. Nelson and secondly as a tool to give a more detailed description of microphysics within the framework of the standard form of quantum theory. Another part of their work treats stochastic mechanics as a general description of a class of dynamical systems disturbed by some isotropic translation invariant noise thus extending Nelson's theory within the framework of classical physics. The necessary tools like stochastic processes in particular those used in mathematical physics existence and construction of diffusion processes as well as stochastic variational principles are presented in detail. Here is certainly an excellent text on this important field of mathematical physics.



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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Notes In Classical And Quantum Physics**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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