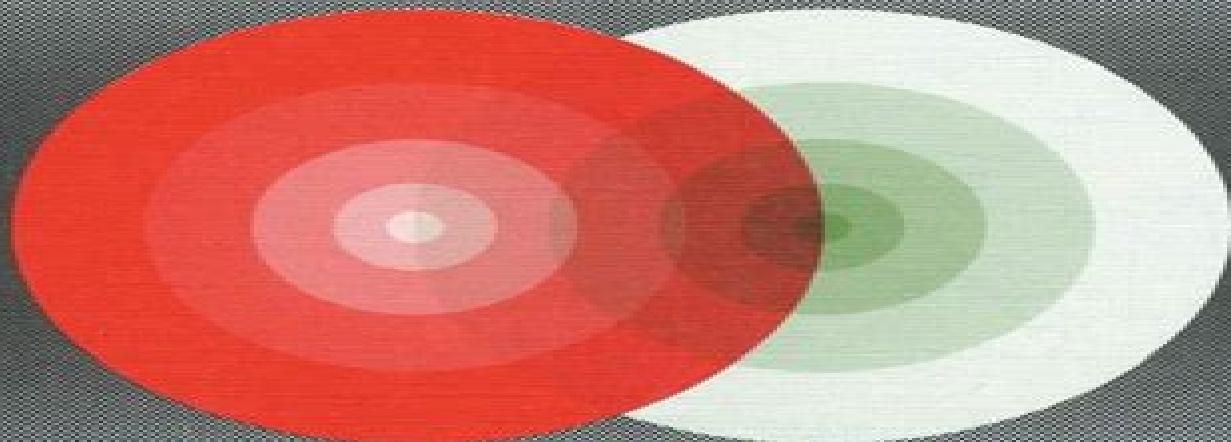


New Developments on Fundamental Problems in Quantum Physics

Edited by
**Miguel Ferrero and
Alwyn van der Merwe**

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Fundamental Theories of Physics

New Developments On Fundamental Problems In Quantum Physics

Vladislav Capek,Daniel P. Sheehan

New Developments On Fundamental Problems In Quantum Physics:

New Developments on Fundamental Problems in Quantum Physics M. Ferrero, Alwyn van der Merwe, 2012-12-06
Quantum theory is one of the most fascinating and successful constructs in the intellectual history of mankind. Nonetheless the theory has very shaky philosophical foundations. This book contains thoughtful discussions by eminent researchers of a spate of experimental techniques newly developed to test some of the stranger predictions of quantum physics. The advances considered include recent experiments in quantum optics, electron and ion interferometry, photon down conversion in nonlinear crystals, single trapped ions interacting with laser beams, atom field coupling in micromaser cavities, quantum computation, quantum cryptography, decoherence and macroscopic quantum effects. The quantum state diffusion model, quantum gravity, the quantum mechanics of cosmology and quantum non-locality, along with the continuing debate surrounding the interpretation of quantum mechanics.

Audience: The book is intended for physicists, philosophers of science, mathematicians, graduate students and those interested in the foundations of quantum theory.

New Developments on Fundamental Problems in Quantum Physics Miguel Ferrero, Melgar, Susana Fernández, 1996

Fundamental Problems in Quantum Physics M. Ferrero, Alwyn van der Merwe, 2013-06-29
For many physicists quantum theory contains strong conceptual difficulties while for others the apparent conclusions about the reality of our physical world and the ways in which we discover that reality remain philosophically unacceptable. This book focuses on recent theoretical and experimental developments in the foundations of quantum physics including topics such as the puzzles and paradoxes which appear when general relativity and quantum mechanics are combined, the emergence of classical properties from quantum mechanics, stochastic electrodynamics, EPR experiments and Bell's Theorem, the consistent histories approach and the problem of datum uniqueness in quantum mechanics, non-local measurements and teleportation of quantum states, quantum non-demolition measurements in optics and matter wave properties observed by neutron, electron and atomic interferometry.

Audience: This volume is intended for graduate students of physics and those interested in the foundations of quantum theory.

Challenges to The Second Law of Thermodynamics Vladislav Capek, Daniel P. Sheehan, 2006-03-30
The advance of scientific thought in ways resembles biological and geologic transformation: long periods of gradual change punctuated by episodes of radical upheaval. Twentieth century physics witnessed at least three major shifts: relativity, quantum mechanics and chaos theory, as well many lesser ones. Now, at early in the 21st century, another shift appears imminent: this one involving the second law of thermodynamics. Over the last 20 years the absolute status of the second law has come under increased scrutiny more than during any other period in its 180 year history. Since the early 1980s, roughly 50 papers representing over 20 challenges have appeared in the refereed scientific literature. In July 2002 the first conference on its status was convened at the University of San Diego, attended by 120 researchers from 25 countries. QSL2002. In 2003 the second edition of Le S and Rex's classic anthology on Maxwell's demons appeared, further raising interest in this emerging field. In 2004 the

mainstream scientific journal Entropy published a special edition devoted to second law challenges 3 And in July 2004 an echo of QSL2002 was held in Prague Czech Republic 4 Modern second law challenges began in the early 1980s with the theoretical proposals of Gordon and Denur Starting in the mid 1990s several proposals for experimentally testable challenges were advanced by Sheehan et al By the late 1990s and early 2000s a rapid succession of theoretical quantum mechanical challenges were being advanced by Capek et al

Worldviews, Science And Us: Bridging Knowledge And Its Implications For Our Perspectives Of The World - Proceedings Of The Workshop On Times Of Entanglement

Diederik Aerts, Jan Broekaert, Bart D'hooghe, Nicole Note, 2011-12-23 The present volume is part of the Worldviews Science and Us series of proceedings It contains selected contributions on the subject of bridging knowledge and its implications for our perspectives of the world This volume also represents the proceedings of the interdisciplinary stream of the international workshop Part 1 Times of Entanglement 21 22 September 2010 at the Minsheng Art Museum in Shanghai People's Republic of China in the context of the Shanghai World Expo 2010 and related cutting edge investigations in the quantum paradigm from discussion panels organized by the Leo Apostel Center for Interdisciplinary studies within the framework of the Research on the Construction of Integrating Worldviews research community set up by the Flanders Fund for Scientific Research Further information about this research community and a full list of the associated international research centers can be found at www.vub.ac.be/CLEA/res/worldviews

Applications of the Theory of Groups in Mechanics and Physics

Petre P. Teodorescu, Nicolae-A.P. Nicorovici, 2004-04-30 The notion of group is fundamental in our days not only in mathematics but also in classical mechanics electromagnetism theory of relativity quantum mechanics theory of elementary particles etc This notion has developed during a century and this development is connected with the names of great mathematicians as E Galois A L Cauchy C F Gauss W R Hamilton C Jordan S Lie E Cartan H Weyl E Wigner and of many others In mathematics as in other sciences the simple and fertile ideas make their way with difficulty and slowly however this long history would have been of a minor interest had the notion of group remained connected only with rather restricted domains of mathematics those in which it occurred at the beginning But at present groups have invaded almost all mathematical disciplines mechanics the largest part of physics of chemistry etc We may say without exaggeration that this is the most important idea that occurred in mathematics since the invention of infinitesimal calculus indeed the notion of group expresses in a precise and operational form the vague and universal ideas of regularity and symmetry The notion of group led to a profound understanding of the character of the laws which govern natural phenomena permitting to formulate new laws correcting certain inadequate formulations and providing unitary and non contradictory formulations for the investigated phenomena

Cosmological Pattern of Microphysics in the Inflationary Universe

Maxim Y. Khlopov, Sergei G. Rubin, 2013-03-20 Modern cosmology is a quickly developing field of research New technical devices and tools supply the community with new experimental data measured with high accuracy The self consistent explanation of these data needs to

oretical models that are based on hypothetical predictions of particle theory. In their turn such predictions imply cosmology for their probe. Speci c sties of the cosmological consequences of particle theory linking them to their observable signatures are actual. This boiling kettle of theoretical research and experimental efforts produces ideas that will be preserved for following generations. The aim of this book is to acquaint the reader with some of these ideas, offering nontrivial ways to probe the physical basis of modern cosmology. An extensive review of the newest ideas in modern cosmology e g related with the development of the M brane theory lies beyond the scope of our book which is aimed at providing a firmly established system of probes for these ideas linking their predictions to their possible experimental test. We use the framework of inflationary paradigm to reveal the phenomena that can shed light on the physical origin of the observed Universe of its matter content and large scale structure. The crucial role of quantum fluctuations in creation of our Universe and in possible features reflecting cosmological impact of microphysics is discussed. These features are shown to be accessible to experimental test in the near future.

Worldviews, Science and Us Diederik Aerts, 2011 Confucianism Chinese History and Society is a collection of essays authored by world renowned scholars on Chinese studies including Professor Ho Peng Yoke Needham Research Institute Professor Leo Ou fan Lee Harvard University Professor Philip Y S Leung Chinese University of Hong Kong Professor Liu Ts un Yan Australian National University Professor Tu Wei Ming Harvard University Professor Wang Gungwu National University of Singapore and Professor Yue Daiyun Peking University. The volume covers many important themes and topics in Chinese Studies including the Confucian perspective on human rights Nationalism and Confucianism Confucianism and the development of Science in China crisis and innovation in contemporary Chinese cultures plurality of cultures in the context of globalization and comparative study of the city cultures in modern China. These essays were originally delivered at the Professor Wu Teh Yao Memorial Lectures Wu Teh Yao 1917 1994 was an educator political scientist specialist in Confucianism and original drafter of the United Nation s Universal Declaration of Human Rights

Finslerian Diffusion with Applications P.L. Antonelli, T.J. Zastawniak, 1998-12-31 The erratic motion of pollen grains and other tiny particles suspended in liquid is known as Brownian motion after its discoverer Robert Brown a botanist who worked in 1828 in London. He turned over the problem of why this motion occurred to physicists who were investigating kinetic theory and thermodynamics at a time when the existence of molecules had yet to be established. In 1900 Henri Poincare lectured on this topic to the 1900 International Congress of Physicists in Paris. Wic95 At this time Louis Bachelier a thesis student of Poincare made a monumental breakthrough with his Theory of Stock Market Fluctuations which is still studied today Co064. Norbert Wiener 1923 who was first to formulate a rigorous concept of the Brownian path is most often cited by mathematicians as the father of the subject while physicists will cite A Einstein 1905 and M Smoluchowski Both considered Markov diffusions and realized that Brownian behaviour and could be formulated in terms of parabolic 2 order linear p d e so. Further more from this perspective the covariance of changes in position could be allowed to depend on the position itself.

according to the invariant form of the diffusion introduced by Kolmogorov in 1937 KoI37 Thus any time homogeneous Markov diffusion could be written in terms of the Laplacian intrinsically given by the symbol covariance of the p d e plus a drift vec tor The theory was further advanced in 1949 when K The Enigmatic Photon M.W. Evans,Jean-Pierre Vigier,1994 The first part of this fifth volwne of The Enigmatic Photon consists of three chapters which develop electrodynamics as a gauge field theory with internal 0 3 symmetry using a complex basis 1 2 3 This is referred to for convenience as 0 3 electrodynamics The field equations are intrinsically non linear and non Abelian and the classical potential is a physical quantity The field equations are shown to be self consistent and a general mathematical basis for the development is given in terms of extended Lie algebra The third chapter develops radiatively induced fermion resonance RFR The opening three chapters are followed by a selection of previously unpublished scientific papers which trace the historical development of 0 3 electrodynamics through the physically observable B 3 field The editors are greatly indebted to Dr Laura J Evans for her painstaking preparation of Part I and Part IT of this volwne This work included typesetting from original manuscripts and indexing The production of the five volwnes of this series would not have been possible without her steadfast and generous contributions Discussions with many colleagues over internet sharpened the ideas behind this volwne Finally the organizational support of the Alpha Foundation founded by Milan Meszaros proved invaluable during the later preparatory stage **Directory of Published Proceedings** ,1999 Journal of Physics A ,2002 Focuses on fundamental mathematical and computational methods underpinning physics Relevant to statistical physics chaotic and complex systems classical and quantum mechanics classical and quantum integrable systems and classical and quantum field theory **General physics, relativity, astronomy and mathematical physics and methods** ,2008 Rivista internazionale di fisica Physics Letters ,2001 General physics atomic physics molecular physics and solid state physics **Mathematical Reviews** ,2003

American Journal of Physics ,1998 Fundamental Problems in Statistical Mechanics E. G. D. Cohen,1980 Vols for 1962 contained the 1961 proceedings of the meetings of the NUFFIC international summer course in science called 1968 74 International Summer School on Fundamental Problems in Statistical Mechanics 1978 International Summer School in Statistical Mechanics **Open Questions in Quantum Physics** G. Tarozzi,Alwyn van der Merwe,2012-12-06 Due to its extraordinary predictive power and the great generality of its mathematical structure quantum theory is able at least in principle to describe all the microscopic and macroscopic properties of the physical world from the subatomic to the cosmological level Nevertheless ever since the Copen hagen and Gottingen schools in 1927 gave it the definitive formu lation now commonly known as the orthodox interpretation the theory has suffered from very serious logical and epistemologi cal problems These shortcomings were immediately pointed out by some of the principal founders themselves of quantum theory to wit Planck Einstein Ehrenfest Schrodinger and de Broglie and by the philosopher Karl Popper who assumed a position of radical criticism with regard to the standard formulation of the theory The aim of the participants in the workshop on Open

Questions in Quantum Physics which was held in Bari Italy in the Department of Physics of the University during May 1983 and whose Proceedings are collected in the present volume accord ingly was to discuss the formal the physical and the epistemo logical difficulties of quantum theory in the light of recent crucial developments and to propose some possible resolutions of three basic conceptual dilemmas which are posed respectively a the physical developments of the Einstein Podolsky Rosen argument and Bell s theorem i e **Problems In Quantum Physics II; Gdansk 89 - Recent And Future Experiments And Interpretations** Marek Zukowski,Jacek Mizerski,Andrzej Posiewnik,Jaroslaw Pykacz,1990-08-30 The papers in this volume discuss both the theoretical concepts and experiments of the fundamental problems associated with the interpretation of Quantum Mechanics The major theme is the continuation of the discussion between Bohr and Einstein in the light of modern technology which can turn gedanken experiments into realizable ones Differences between various interpretations and results of recently performed experiments tests of Bell s inequalities neutron interferometry fourth order interferometry are presented A wide scope of possible intepretations or views are covered but no preference is given to any particular one In addition philosophical problems associated with the question of foundations of quantum mechanics are also discussed The Physical Review ,1929

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