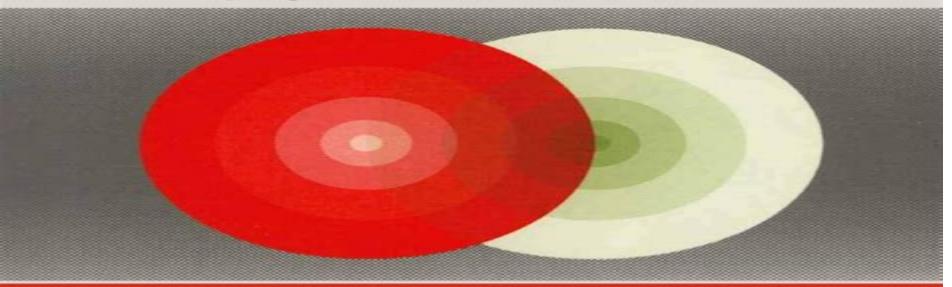
The Quantum Dice

An Introduction to Stochastic Electrodynamics

by

Luis de la Peña and Ana María Cetto

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Fundamental Theories of Physics

Quantum Dice An Introduction To Stochastic Electrodynamics

Giampiero Esposito, A. Yu. Kamenshchik, G. Pollifrone

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<u>Electromagnetism</u> and the <u>Structure of Matter</u> Daniele Funaro, 2008 The classical theory of electromagnetism is entirely revised in this book by proposing a variant of Maxwell equations that allows solitonic solutions photons The Lagrangian is the standard one but it is minimized on a constrained space that enforces the wave packets to follow the rules of geometrical optics Exact solutions are explicitly shown this opens a completely new perspective for the study of light wave phenomena In the framework of general relativity the equations are written in covariant form A coupling with the metric is obtained

through the Einstein equation whose solutions are computed exactly in a lot of original situations Finally the explicit construction of elementary particles consisting of rotating photons is indicated The results agree qualitatively and quantitatively with what it is actually observed This opens the path to an understanding of the structure of matter and its Euclidean Quantum Gravity on Manifolds properties also aimed to provide a causal explanation to quantum phenomena with Boundary Giampiero Esposito, A.Yu. Kamenshchik, G. Pollifrone, 2012-12-06 This book reflects our own struggle to understand the semiclassical behaviour of quantized fields in the presence of boundaries Along many years motivated by the problems of quantum cosmology and quantum field theory we have studied in detail the one loop properties of massless spin l 2 fields Euclidean Maxwell the ory gravitino potentials and Euclidean quantum gravity Hence our book begins with a review of the physical and mathematical motivations for studying physical theories in the presence of boundaries with emphasis on electrostatics vacuum v Maxwell theory and quantum cosmology We then study the Feynman propagator in Minkowski space time and in curved space time In the latter case the corre sponding Schwinger DeWitt asymptotic expansion is given The following chapters are devoted to the standard theory of the effective action and the geometric im provement due to Vilkovisky the manifestly covariant quantization of gauge fields zeta function regularization in mathematics and in quantum field theory and the problem of boundary conditions in one loop quantum theory. For this purpose we study in detail Dirichlet Neumann and Robin boundary conditions for scalar fields local and non local boundary conditions for massless spin l 2 fields mixed boundary conditions for gauge fields and gravitation This is the content of Part I Part II presents our investigations of Euclidean Maxwell theory simple super gravity and Euclidean quantum gravity Towards a Local Realist View of the Quantum Phenomenon Alberto Casado, Ana Maria Cetto, Karl Hess, Andrea Valdés-Hernández, 2021-05-03 Causality and Locality in Modern Physics G. Hunter, Stanley Jeffers, J.P. Vigier, 2013-06-29 The Symposium entitled Causality and Locality in Modern Physics and As tronomy Open Questions and Possible Solutions was held at York University Toronto during the last week of August 1997 It was a sequel to a similar sym posium entitled The Present Status of the Quantum Theory of Light held at the same venue in August 1995 These symposia came about as a result of discussions between Professor Stanley Jeffers and colleagues on the International Organizing Committee Professor Jeffers was the executive local organizer of the symposia The 1997 symposium attracted over 120 participants representing 26 different countries and academic institutions The broad theme of both symposia was the enigma of modern physics the non local and possibly superluminal interactions implied by quantum mechanics the structure of fundamental particles including the photon the reconciliation of quantum mechanics with the theory of relativity and the nature of gravity and inertia Jean Pierre Vigier was the guest of honour at both symposia He was a lively contributor to the discussions of the presentations. The presentations were made as 30 minute lectures or during an evening poster session Some participants did not submit a written account of their presentation at the symposium and not all of the articles submitted for the Proceedings could be included because of the publisher's page limit

The titles and authors of the papers that had to be excluded are listed in an appendix **Beyond the Quantum** Theo M. Nieuwenhuizen, 2007 Already Einstein could never see quantum mechanics as a complete theory Nowadays many researchers including t Hooft view quantum mechanics as a statistical description of some underlying reality The workshop Beyond the Quantum organized in Spring 2006 at the Lorentz Center in Leiden The Netherlands was one of the first meetings completely devoted to physics that may need an explanation beyond quantum mechanics A broad variety of subjects The Quantum Dissidents Olival Freire Junior, 2014-12-26 This book tells the was covered The present book reflects this fascinating story of the people and events behind the turbulent changes in attitudes to quantum theory in the second half of the 20th century The huge success of quantum mechanics as a predictive theory has been accompanied from the very beginning by doubts and controversy about its foundations and interpretation This book looks in detail at how research on foundations evolved after WWII when it was revived until the mid 1990s when most of this research merged into the technological promise of quantum information It is the story of the quantum dissidents the scientists who brought this subject from the margins of physics into its mainstream It is also a history of concepts experiments and techniques and of the relationships between physics and the world at large touching on themes such as the Cold War McCarthyism Zhdanovism and the unrest of the late 1960s The Geometry of Higher-Order Lagrange Spaces R. Miron, 1997-01-31 This monograph is devoted to the problem of the geometrizing of Lagrangians which depend on higher order accelerations It presents a construction of the geometry of the total space of the bundle of the accelerations of order k 1 A geometrical study of the notion of the higher order Lagrange space is conducted and the old problem of prolongation of Riemannian spaces to k osculator manifolds is solved Also the geometrical ground for variational calculus on the integral of actions involving higher order Lagrangians is dealt with Applications to higher order analytical mechanics and theoretical physics are included as well Audience This volume will be of interest to scientists whose work involves differential geometry mechanics of particles and systems calculus of variation and optimal control optimization optics electromagnetic theory and biology

Hierarchical Methods V. Kulish,2006-04-11 Everybody is current in a world surrounded by computer Computers determine our professional activity and penetrate increasingly deeper into our everyday life Therein we also need increasingly refined c puter technology Sometimes we think that the next generation of c puter will satisfy all our dreams giving us hope that most of our urgent problems will be solved very soon However the future comes and il sions dissipate This phenomenon occurs and vanishes sporadically and possibly is a fundamental law of our life Experience shows that indeed systematically remaining problems are mainly of a complex tech logical nature the creation of new generation of especially perfect croschemes elements of memory etc But let us note that amongst these problems there are always ones solved by our purely intellectual efforts alone Progress in this direction does not require the invention of any superchip or other similar elements It is important to note that the results obtained in this way very often turn out to be more significant

than the fruits of relevant technological progress The hierarchical asymptotic analytical numerical methods can be garded as results of such purely intellectual efforts Their application allows us to simplify essentially computer calculational procedures and consequently to reduce the calculational time required It is obvious that this circumstance is very attractive to any computer user

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