

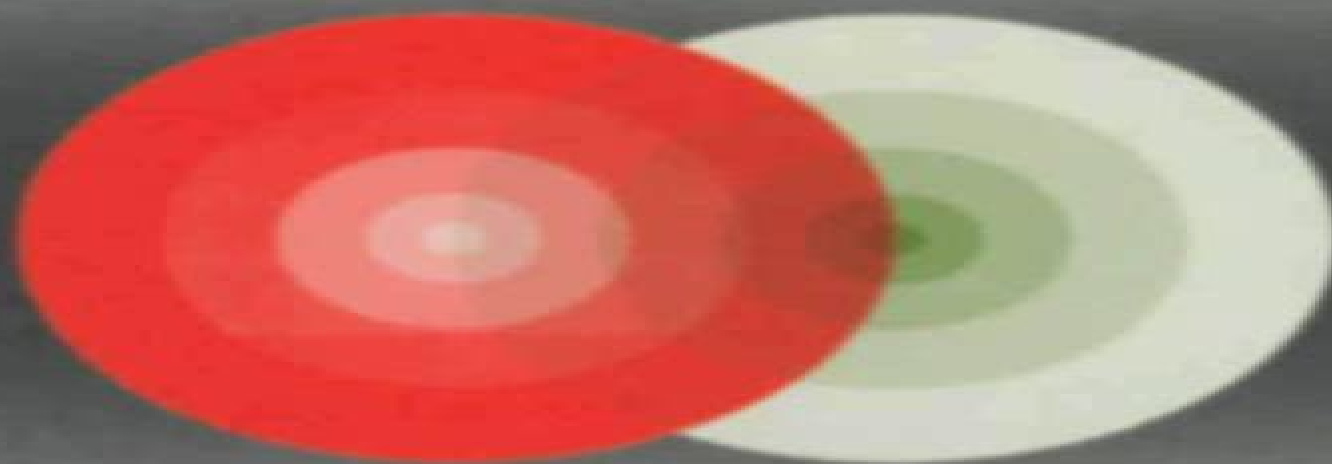
The Enigmatic Photon

Volume 4: New Directions

Edited by

**Myron W. Evans, Jean-Pierre Vigier,
Sisir Roy and Geoffrey Hunter**

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Fundamental Theories of Physics

The Enigmatic Photon Volume 4 New Directions

B.R. Iyer, B. Bhawal



The Enigmatic Photon Volume 4 New Directions:

The Enigmatic Photon M.W. Evans, J.P. Vigiér, S. Roy, G. Hunter, 1998-02-14 This volume establishes the fact that electrodynamics is by no means a completely understood theory by bringing together several in depth review papers from leading specialists The major portion of the volume is built around the nonlinear structure which leads to the B 3 field introduced in the previous three volumes published Audience Specialists graduate and senior undergraduate students in physics chemistry and electrical engineering

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Theory of High Temperature Superconductivity S. Fujita, S. Godoy, 2006-04-11 Flux quantization experiments indicate that the carriers Cooper pairs pairons in the supercurrent have charge magnitude $2e$ and that they move independently Josephson interference in a Superconducting Quantum Interference Device SQUID shows that the centers of masses CM of pairons move as bosons with a linear dispersion relation Based on this evidence we develop a theory of superconductivity in conventional and materials from a unified point of view Following Bardeen Cooper and Schrieffer BCS we regard the phonon exchange attraction as the cause of superconductivity For cuprate superconductors however we take account of both optical and acoustic phonon exchange BCS started with a Hamiltonian containing electron and hole kinetic energies and a pairing interaction with the phonon variables eliminated These electrons and holes were introduced formally in terms of a free electron model which we consider unsatisfactory We define electrons and holes in terms of the curvatures of the Fermi surface Electrons 1 and holes 2 are different and so they are assigned with different effective masses Blatt Schafroth and Butler proposed to explain superconductivity in terms of a Bose Einstein Condensation BEC of electron pairs each having mass M and a size The system of free massive bosons having a quadratic dispersion relation and moving in three dimensions 3D undergoes a BEC transition at where is the pair density

New Foundations for Classical Mechanics David Hestenes, 1999-09-30 This book provides an introduction to geometric algebra as a unified language for physics and mathematics It contains extensive applications to classical mechanics in a textbook format suitable for courses at an intermediate level The text is supported by more than 200 diagrams to help develop geometrical and physical intuition Besides covering the standard material for a

course on the mechanics of particles and rigid bodies the book introduces new coordinate free methods for rotational dynamics and orbital mechanics developing these subjects to a level well beyond that of other textbooks These methods have been widely applied in recent years to biomechanics and robotics to computer vision and geometric design to orbital mechanics in government and industrial space programs as well as to other branches of physics The book applies them to the major perturbations in the solar system including the planetary perturbations of Mercury s perihelion Geometric algebra integrates conventional vector algebra along with its established notations into a system with all the advantages of quaternions and spinors Thus it increases the power of the mathematical language of classical mechanics while bringing it closer to the language of quantum mechanics This book systematically develops purely mathematical applications of geometric algebra useful in physics including extensive applications to linear algebra and transformation groups It contains sufficient material for a course on mathematical topics alone The second edition has been expanded by nearly a hundred pages on relativistic mechanics The treatment is unique in its exclusive use of geometric algebra and in its detailed treatment of spacetime maps collisions motion in uniform fields and relativistic precession It conforms with Einstein s view that the Special Theory of Relativity is the culmination of developments in classical mechanics

Quantum Measurements and Decoherence M. Mensky, 2013-04-17 Quantum measurement Le a measurement which is sufficiently precise for quantum effects to be essential was always one of the most important points in quantum mechanics because it most evidently revealed the difference between quantum and classical physics Now quantum measurement is again under active investigation first of all because of the practical necessity of dealing with highly precise and complicated measurements The nature of quantum measurement has become understood much better during this new period of activity the understanding being expressed by the concept of decoherence This term means a physical process leading from a pure quantum state wave function of the system prior to the measurement to its state after the measurement which includes classical elements More concretely decoherence occurs as a result of the entanglement of the measured system with its environment and results in the loss of phase relations between components of the wave function of the measured system Decoherence is essentially nothing else than quantum measurement but considered from the point of view of its physical mechanism and resolved in time The present book is devoted to the two concepts of quantum measurement and decoherence and to their interrelation especially in the context of continuous quantum measurement

Classical Relativistic Many-Body Dynamics M.A. Trump, W.C. Schieve, 2013-03-09 in this work we must therefore assume several abstract concepts that hardly need defending at this point in the history of mechanics Most notably these include the concept of the point particle and the concept of the inertial observer The study of the relativistic particle system is undertaken here by means of a particular classical theory which also exists on the quantum level and which is especially suited to the many body system in flat spacetime In its fundamental postulates the theory may be considered to be primarily the work of E C G Stückelberg in the 1940 s and of L P Horwitz and

C Piron in the 1970 s who may be said to have provided the generalization of Stiickelberg s theory to the many body system The references for these works may be found in Chapter 1 The theory itself may be legitimately called off shell Hamiltonian dynamics parameterized relativistic mechanics or even classical event dynamics The most important feature of the theory is probably the use of an invariant world time parameter usually denoted T which provides an evolution time for the system in such as way as to allow manifest co variance within a Hamiltonian formalism In general this parameter is neither a Lorentz frame time nor the proper time of the particles in the system

Clifford Algebras and Their Application in Mathematical Physics Volker Dietrich,Klaus Habetha, Gerhard Jank,1998 Clifford Algebras continues to be a fast growing discipline with ever increasing applications in many scientific fields This volume contains the lectures given at the Fourth Conference on Clifford Algebras and their Applications in Mathematical Physics held at RWTH Aachen in May 1996 The papers represent an excellent survey of the newest developments around Clifford Analysis and its applications to theoretical physics Audience This book should appeal to physicists and mathematicians working in areas involving functions of complex variables associative rings and algebras integral transforms operational calculus partial differential equations and the mathematics of physics

Black Holes, Gravitational Radiation and the Universe B.R. Iyer,B. Bhawal,2013-06-29 Our esteemed colleague C V Vishveshwara popularly known as Vishu turned sixty on 6th March 1998 His colleagues and well wishers felt that it would be appropriate to celebrate the occasion by bringing out a volume in his honour Those of us who have had the good fortune to know Vishu know that he is unique in a class by himself Having been given the privilege to be the volume s editors we felt that we should attempt something different in this endeavour Vishu is one of the well known relativists from India whose pioneer ing contributions to the studies of black holes is universally recognised He was a student of Charles Misner His Ph D thesis on the stability of the Schwarzschild black hole coordinate invariant characterisation of the stationary limit and event horizon for Kerr black holes and subsequent seminal work on quasi normal modes of black holes have passed on to become the starting points for detailed mathematical investigations on the nature of black holes He later worked on other aspects related to black holes and compact objects Many of these topics have matured over the last thirty years New facets have also developed and become current areas of vigorous research interest No longer are black holes ultracompact objects or event horizons mere idealisations of mathematical physicists but concrete entities that astrophysicists detect measure and look for Astrophysical evidence is mounting up steadily for black holes

The Many Faces of Maxwell, Dirac and Einstein Equations Waldyr A. Rodrigues, Jr,Edmundo Capelas de Oliveira,2016-04-26 This book is an exposition of the algebra and calculus of differential forms of the Clifford and Spin Clifford bundle formalisms and of vistas to a formulation of important concepts of differential geometry indispensable for an in depth understanding of space time physics The formalism discloses the hidden geometrical nature of spinor fields Maxwell Dirac and Einstein fields are shown to have representatives by objects of the same mathematical nature namely sections of an appropriate Clifford bundle

This approach reveals unity in diversity and suggests relationships that are hidden in the standard formalisms and opens new paths for research. This thoroughly revised second edition also adds three new chapters on the Clifford bundle approach to the Riemannian or semi Riemannian differential geometry of branes on Komar currents in the context of the General Relativity theory and an analysis of the similarities and main differences between Dirac Majorana and ELKO spinor fields. The exercises with solutions, the comprehensive list of mathematical symbols and the list of acronyms and abbreviations are provided for self study for students as well as for classes. From the reviews of the first edition: The text is written in a very readable manner and is complemented with plenty of worked out exercises which are in the style of extended examples; their book could also serve as a textbook for graduate students in physics or mathematics. Alberto Molgado, *Mathematical Reviews* 2008 k.

Causality and Locality in Modern Physics G. Hunter, Stanley Jeffers, J.P. Vigiér, 2013-06-29. The Symposium entitled Causality and Locality in Modern Physics and Astronomy: 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 symposium 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 Vigiér 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.

Nuclear Matter in Different Phases and Transitions Jean-Paul Blaizot, Xavier Campi, Marek Płoszajczak, 2012-12-06. Nuclei in their ground states behave as quantum fluids: Fermi liquids. When the density or the temperature of that fluid increases, various phase transitions may occur. Thus, for moderate excitation energies of the order of a few MeV per nucleon, nuclear matter behaves as an ordinary fluid with gaseous and liquid phases and a coexistence region below a critical temperature. For higher excitation energies of the order of a few GeV per nucleon, the composition of nuclear matter changes: nucleons being gradually turned into baryonic resonances of various kinds. Finally, when the energy density exceeds some few GeV/fm³, nuclear matter turns into a gas of weakly interacting quarks and gluons. This new phase of matter has been called the quark gluon plasma and its existence is a prediction of Quantum Chromodynamics. Collisions of heavy ions produce nuclear matter with various degrees of excitation. In fact, by selecting the impact parameter and the bombarding

energy one can produce nuclear matter with specified baryonic density and excitation energy Several major experimental programs are under way for instance at GANIL with the detector INDRA at GSI with the detector ALADIN at the CERN SPS at the AGS of Brookhaven etc or are in preparation RRIC LHC etc The goal of these experiments is to get evidence for the different phases of nuclear matter predicted by the theory and to study their properties

Maximum Entropy and Bayesian Methods Garching, Germany 1998 Wolfgang von der Linden, Volker Dose, Rainer Fischer, Roland Preuss, 1999-07-31 In 1978 Edwin T Jaynes and Myron Tribus initiated a series of workshops to exchange ideas and recent developments in technical aspects and applications of Bayesian probability theory The first workshop was held at the University of Wyoming in 1981 organized by C R Smith and W T Grandy Due to its success the workshop was held annually during the last 18 years Over the years the emphasis of the workshop shifted gradually from fundamental concepts of Bayesian probability theory to increasingly realistic and challenging applications The 18th international workshop on Maximum Entropy and Bayesian Methods was held in Garching Munich Germany 27-31 July 1998 Opening lectures by G Larry Bretthorst and by Myron Tribus were dedicated to one of the pioneers of Bayesian probability theory who died on the 30 of April 1998 Edwin Thompson Jaynes Jaynes revealed and advocated the correct meaning of probability as the state of knowledge rather than a physical property This interpretation allowed him to unravel longstanding mysteries and paradoxes Bayesian probability theory the logic of science as E T Jaynes called it provides the framework to make the best possible scientific inference given all available experimental and theoretical information We gratefully acknowledge the efforts of Tribus and Bretthorst in commemorating the outstanding contributions of E T Jaynes to the development of probability theory

The Many Faces of Maxwell, Dirac and Einstein Equations Waldyr A. Rodrigues, Edmundo C. de Oliveira, 2007-07-03 This book is a comprehensive reference on differential geometry It shows that Maxwell Dirac and Einstein fields which were originally considered objects of a very different mathematical nature have representatives as objects of the same mathematical nature The book also analyzes some foundational issues of relativistic field theories All calculation procedures are illustrated by many exercises that are solved in detail

Kinematical Theory of Spinning Particles M. Rivas, 2006-04-11 Classical spin is described in terms of velocities and acceleration so that knowledge of advanced mathematics is not required Written in the three dimensional notation of vector calculus it can be followed by undergraduate physics students although some notions of Lagrangian dynamics and group theory are required It is intended as a general course at a postgraduate level for all purpose physicists This book presents a unified approach to classical and quantum mechanics of spinning particles with symmetry principles as the starting point A classical concept of an elementary particle is presented The variational statements to deal with spinning particles are revisited It is shown that by explicitly constructing different models symmetry principles are sufficient for the description of either classical or quantum mechanical elementary particles Several spin effects are analyzed

Theory of the Electron J. Keller, 2001-11-30 In the first century after its discovery the electron has come to be a

fundamental element in the analysis of physical aspects of nature This book is devoted to the construction of a deductive theory of the electron starting from first principles and using a simple mathematical tool geometric analysis Its purpose is to present a comprehensive theory of the electron to the point where a connection can be made with the main approaches to the study of the electron in physics The introduction describes the methodology Chapter 2 presents the concept of space time action relativity theory and in chapter 3 the mathematical structures describing action are analyzed Chapters 4 5 and 6 deal with the theory of the electron in a series of aspects where the geometrical analysis is more relevant Finally in chapter 7 the form of geometrical analysis used in the book is presented to elucidate the broad range of topics which are covered and the range of mathematical structures which are implicitly or explicitly included The book is directed to two different audiences of graduate students and research scientists primarily to theoretical physicists in the field of electron physics as well as those in the more general field of quantum mechanics elementary particle physics and general relativity secondly to mathematicians in the field of geometric analysis

Statistical Geometry and Applications to Microphysics and Cosmology S.

Roy,2012-12-06 Recent results from high energy scattering and theoretical developments of string theory require a change in our understanding of the basic structure of space time This book is about the advancement of ideas on the stochastic nature of space time from the 1930s onward In particular the author promotes the concept of space as a set of hazy lumps first introduced by Karl Menger and constructs a novel framework for statistical behaviour at the microlevel The various chapters address topics such as space time fluctuation and random potential non local fields and the origin of stochasticity

Implications in astro particle physics and cosmology are also explored Audience This volume will be of interest to physicists chemists and mathematicians involved in particle physics astrophysics and cosmology

Finslerian Geometries P.L.

Antonelli,2012-12-06 The International Conference on Finsler and Lagrange Geometry and its Applications A Meeting of Minds took place August 13 20 1998 at the University of Alberta in Edmonton Canada The main objective of this meeting was to help acquaint North American geometers with the extensive modern literature on Finsler geometry and Lagrange geometry of the Japanese and European schools each with its own venerable history on the one hand and to communicate recent advances in stochastic theory and Hodge theory for Finsler manifolds by the younger North American school on the other The intent was to bring together practitioners of these schools of thought in a Canadian venue where there would be ample opportunity to exchange information and have cordial personal interactions The present set of refereed papers begins with the Pedagogical Section I where introductory and brief survey articles are presented one from the Japanese School and two from the European School Romania and Hungary These have been prepared for non experts with the intent of explaining basic points of view The Section III is the main body of work It is arranged in alphabetical order by author Section II gives a brief account of each of these contributions with a short reference list at the end More extensive references are given in the individual articles

The Landscape of Theoretical Physics: A Global View M. Pavsic,2001-11-30 Today many important

directions of research are being pursued more or less independently of each other These are for instance strings and membranes induced gravity embedding of spacetime into a higher dimensional space the brane world scenario the quantum theory in curved spaces Fock Schwinger proper time formalism parametrized relativistic quantum theory quantum gravity wormholes and the problem of time machines spin and supersymmetry geometric calculus based on Clifford algebra various interpretations of quantum mechanics including the Everett interpretation and the recent important approach known as decoherence A big problem as I see it is that various people thoroughly investigate their narrow field without being aware of certain very close relations to other fields of research What we need now is not only to see the trees but also the forest In the present book I intend to do just that to carry out a first approximation to a synthesis of the related fundamental theories of physics I sincerely hope that such a book will be useful to physicists From a certain viewpoint the book could be considered as a course in theoretical physics in which the foundations of all those relevant fundamental theories and concepts are attempted to be thoroughly reviewed Unsolved problems and paradoxes are pointed out I show that most of those approaches have a common basis in the theory of unconstrained membranes The very interesting and important concept of membrane space the tensor calculus in and functional transformations in are discussed

Classical And Quantum

Electrodynamics And The B(3) Field Lawrence Barr Crowell, Myron W Evans, 2001-05-11 It is well known that classical electrodynamics is riddled with internal inconsistencies springing from the fact that it is a linear Abelian theory in which the potentials are unphysical This volume offers a self consistent hypothesis which removes some of these problems as well as builds a framework on which linear and nonlinear optics are treated as a non Abelian gauge field theory based on the emergence of the fundamental magnetizing field of radiation the B 3 field

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