

Question 1: Recall that the eigenfunction of the infinite square well potential as given by $\phi_n(x)$. Collection A contains a large number of identical particles, each of which is described by the initial wave function

$$\Psi_A(x, t = 0) = \frac{1}{\sqrt{2}}(\phi_1(x) - \phi_2(x)).$$

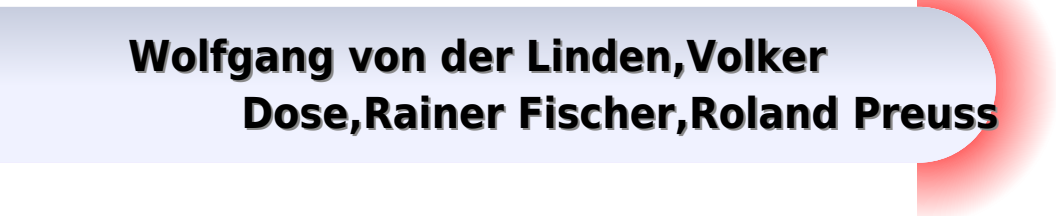
- A. Suppose you were to measure the energy of a very large number of particles at $t = 0$. Would the number of particles with energy E_1 be *greater than*, *less than*, or *approximately equal to* the number of particles with energy E_2 ? Explain your reasoning.
- B. At some later time, the wave function for the particles is given by

$$\Psi_A(x, t) = \frac{1}{\sqrt{2}}(\phi_1(x)e^{-iE_1t/\hbar} - \phi_2(x)e^{-iE_2t/\hbar}).$$

Suppose you were to measure the energy of a very large number of particles at a later time. Is there a time $t > 0$ when the number of particles with energy E_1 is *greater than* the number of particles with energy E_2 ? If so, determine at least one such time. If not, state why not.

Open Questions In Quantum Physics

**Wolfgang von der Linden, Volker
Dose, Rainer Fischer, Roland Preuss**



Open Questions In Quantum Physics:

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 Copenhagen and Göttingen schools in 1927 gave it the definitive formulation now commonly known as the orthodox interpretation the theory has suffered from very serious logical and epistemological problems These shortcomings were immediately pointed out by some of the principal founders themselves of quantum theory to wit Planck Einstein Ehrenfest Schrödinger 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 accordingly was to discuss the formal the physical and the epistemological 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 at the physical developments of the Einstein Podolsky Rosen argument and Bell's theorem i e

Open Questions in Quantum Physics G. Tarozzi, Alwyn van der Merwe, 2014-01-15 Open Questions in Quantum Physics Gino Tarozzi, Alwyn Van Der Merwe, 1985 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 *Geometry, Fields and Cosmology* B.R. Iyer, C.V. Vishveshwara, 2013-04-09 This volume is based on the lectures given at the First Inter University Graduate School on Gravitation and Cosmology organized by IUCAA Pune in 1989 This series of Schools have been carefully planned to provide a sound background and preparation for students embarking on research in these and related topics Consequently the contents of these lectures have been meticulously selected and arranged The topics in the present volume offer a firm mathematical foundation for a number of subjects to be developed later These include Geometrical Methods for Physics Quantum Field Theory Methods and Relativistic Cosmology The style of the book is pedagogical and should appeal to students and research workers attempting to learn the modern techniques involved A number of specially selected problems with hints and solutions have been included to assist the reader in achieving mastery of the topics We decided to bring out this volume containing the lecture notes since we felt that they would be useful to a wider community of research workers many of whom could not participate in the school We thank all the lecturers for their

meticulous lectures the enthusiasm they brought to the discussions and for kindly writing up their lecture notes It is a pleasure to thank G Manjunatha for his meticulous assistance over a long period in preparing this volume for publication

Nonlinear Optical Waves A.I. Maimistov, A.M. Basharov, 2013-03-09 A non linear wave is one of the fundamental objects of nature They are inherent to aerodynamics and hydrodynamics solid state physics and plasma physics optics and field theory chemistry reaction kinetics and population dynamics nuclear physics and gravity All non linear waves can be divided into two parts dispersive waves and dissipative ones The history of investigation of these waves has been lasting about two centuries In 1834 J S Russell discovered the extraordinary type of waves without the dispersive broadening In 1965 N J Zabusky and M D Kruskal found that the Korteweg de Vries equation has solutions of the solitary wave form This solitary wave demonstrates the particle like properties i e stability under propagation and the elastic interaction under collision of the solitary waves These waves were named solitons In succeeding years there has been a great deal of progress in understanding of soliton nature Now solitons have become the primary components in many important problems of nonlinear wave dynamics It should be noted that non linear optics is the field where all soliton features are exhibited to a great extent This book had been designed as the tutorial to the theory of non linear waves in optics The first version was projected as the book covering all the problems in this field both analytical and numerical methods and results as well However it became evident in the process of work that this was not a real task

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 physicists 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

Complex General Relativity Maria Rosaria D'Esposito, 1995-02-28 This book is written for theoretical and mathematical physicists and mathematicians interested in recent developments in complex general relativity and their application to classical and quantum gravity Calculations are presented by paying attention to those details normally omitted in research papers for pedagogical reasons Familiarity with fibre bundle theory is certainly helpful

but in many cases I only rely on two spinor calculus and conformally invariant concepts in gravitational physics The key concepts the book is devoted to are complex manifolds spinor techniques conformal gravity planes surfaces Penrose transform complex 3 1 space time models with non vanishing torsion spin fields and spin potentials 2 2 Problems have been inserted at the end to help the reader to check his understanding of these topics Thus I can find at least four reasons for writing yet another book on spinor and twistor methods in general relativity i to write a textbook useful to ginning graduate students and research workers where two component spinor calculus is the unifying mathematical language The Electron D. Hestenes, A. Weingartshofer, 2012-12-06 techniques and raises new issues of physical interpretation as well as possibilities for deepening the theory 3 Barut contributes a comprehensive review of his own ambitious program in electron theory and quantum electrodynamics Barut's work is rich with ingenious ideas and the interest it provokes among other theorists can be seen in the critique by Grandy Cooperstock takes a much different approach to nonlinear field electron coupling which leads him to conclusions about the size of the electron 4 Capri and Bandrauk work within the standard framework of quantum electrodynamics Bandrauk presents a valuable review of his theoretical approach to the striking new photoelectric phenomena in high intensity laser experiments 5 Jung proposes a theory to merge the ideas of free free transitions and of scattering chaos which is becoming increasingly important in the theoretical analysis of nonlinear optical phenomena For the last half century the properties of electrons have been probed primarily by scattering experiments at ever higher energies Recently however two powerful new experimental techniques have emerged capable of giving alternative experimental views of the electron We refer to 1 the confinement of single electrons for long term study and 2 the interaction of electrons with high intensity laser fields Articles by outstanding practitioners of both techniques are included in Part II of these Proceedings The precision experiments on trapped electrons by the Washington group quoted above have already led to a Nobel prize for the most accurate measurements of the electron magnetic moment **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 so early in the 21st 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 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 QLSL2002 1 In 2003 the second edition of Le's and Rex's classic anthology on Maxwell demons appeared 2 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 QLSL2002 was held in Prague Czech Republic

4 Modern second law challenges began in the early 1980 s with the theoretical proposals of Gordon and Denur Starting in the mid 1990 s several proposals for experimentally testable challenges were advanced by Sheehan et al By the late 1990 s and early 2000 s a rapid succession of theoretical quantum mechanical challenges were being advanced by C apek et al

Information Dynamics in Cognitive, Psychological, Social, and Anomalous Phenomena Andrei Y. Khrennikov, 2013-06-29 In this book we develop various mathematical models of information dynamics I dynamics including the process of thinking based on methods of classical and quantum physics The main aim of our investigations is to describe mathematically the phenomenon of consciousness We would like to realize a kind of Newton Descartes program corrected by the lessons of statistical and quantum mechanics for information processes Starting from the ideas of Newton and Descartes in physics there was developed an adequate description of the dynamics of material systems We would like to develop an analogous mathematical formalism for information and in particular mental processes At the beginning of the 21st century it is clear that it would be impossible to create a deterministic model for general information processes A deterministic model has to be completed by a corresponding statistical model of information flows and in particular flows of minds It might be that such an information statistical model should have a quantum like structure

Cosmology in Scalar-Tensor Gravity Valerio Faraoni, 2004-04-30 Cosmology in Scalar Tensor Gravity covers all aspects of cosmology in scalar tensor theories of gravity Considerable progress has been made in this exciting area of physics and this book is the first to provide a critical overview of the research Among the topics treated are Scalar tensor gravity and its limit to general relativity Effective energy momentum tensors and conformal frames Gravitational waves in scalar tensor cosmology Specific scalar tensor theories Exact cosmological solutions and cosmological perturbations Scalar tensor scenarios of the early universe and inflation Scalar tensor models of quintessence in the present universe and their far reaching consequences for the ultimate fate of the cosmos

Vavilov-Cherenkov and Synchrotron Radiation G.N. Afanasiev, 2006-01-17 Annotation This monograph is intended for the students of the third year and higher for postgraduates for the professional scientists both experimentalists and theoreticians dealing with Vavilov Cherenkov and synchrotron radiations Jacket

The Universe of Fluctuations B. G. Sidharth, 2006-03-30 The Universe of Fluctuations The Architecture of Spacetime and the Universe is a path breaking work which proposes solutions to the impasse and crisis facing fundamental physics and cosmology It describes a cosmological model based on fuzzy spacetime that has correctly predicted a dark energy driven acceleration of our expanding universe with a small cosmological constant at a time when the popular belief was quite the contrary It describes how the Universe is made up of an underpinning of Planck oscillators in a Quantum Vacuum This leads to amongst other things a characterization of gravitation as being distributional over the entire Universe thereby providing an answer to a puzzle brought to light by Weinberg years ago and since overlooked There is also a simple formula for the mass spectrum of all known elementary particles based on QCD dynamics Many other interesting ramifications and experimental tests for the future are also

discussed This apart there is a brief survey of some of the existing theories The book is accessible to junior and senior researchers in High Energy Physics and Cosmology as well as the serious graduate student in 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 sta tionary 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

Maximum Entropy and Bayesian Methods Garching, Germany 1998 Wolfgang von der Linden,Volker Dose,Rainer Fischer,Roland Preuss,2012-12-06 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 th 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 inter pretation 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 exper imental 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

Uniformly Accelerating Charged Particles Stephen Lyle,2008-07-22 This book examines the problems with the LD equation in flat spacetime and details its extension to curved spacetime It compares different equivalence principles as well as vindicates some

Relativity and

the Dimensionality of the World Vesselin Petkov, 2007-10-08 All physicists would agree that one of the most fundamental problems of the 21st century physics is the dimensionality of the world In the four dimensional world of Minkowski or Minkowski spacetime the most challenging problem is the nature of the temporal dimension In Minkowski spacetime it is merely one of the four dimensions which means that it is entirely given like the other three spacial dimensions If the temporal dimension were not given in its entirety and only one constantly changing moment of it existed Minkowski spacetime would be reduced to the ordinary three dimensional space But if the physical world represented by Minkowski spacetime is indeed four dimensional with time being the fourth dimension then such a world is drastically different from its image based on our perceptions Minkowski four dimensional world is a block Universe a frozen world in which nothing happens since all moments of time are given at once which means that physical bodies are four dimensional worldtubes containing the whole histories in time of the three dimensional bodies of our everyday experience The implications of a real Minkowski world for physics itself and especially for our world view are enormous The main focus of this volume is the question is spacetime nothing more than a mathematical space which describes the evolution in time of the ordinary three dimensional world or is it a mathematical model of a real four dimensional world with time entirely given as the fourth dimension It contains fourteen invited papers which either directly address the main question of the nature of spacetime or explore issues related to it **Maximum Entropy and Bayesian Methods** Ali Mohammad-Djafari, G.

Demoment, 2013-03-14 The Twelfth International Workshop on Maximum Entropy and Bayesian Methods in Sciences and Engineering MaxEnt 92 was held in Paris France at the Centre National de la Recherche Scientifique CNRS July 19 24 1992 It is important to note that since its creation in 1980 by some of the researchers of the physics department at the Wyoming University in Laramie this was the second time that it took place in Europe the first time was in 1988 in Cambridge The two specificities of MaxEnt workshops are their spontaneous and informal characters which give the participants the possibility to discuss easily and to make very fruitful scientific and friendship relations among each others This year's organizers had fixed two main objectives i to have more participants from the European countries and ii to give special interest to maximum entropy and Bayesian methods in signal and image processing We are happy to see that we achieved these objectives i we had about 100 participants with more than 50 per cent from the European countries ii we received many papers in the signal and image processing subjects and we could dedicate a full day of the workshop to the image modelling restoration and reconstruction problems Maximum Entropy and Bayesian Methods C.R. Smith, G. Erickson, Paul O. Neudorfer, 2013-06-29 Bayesian probability theory and maximum entropy methods are at the core of a new view of scientific inference These new ideas along with the revolution in computational methods afforded by modern computers allow astronomers electrical engineers image processors of any type NMR chemists and physicists and anyone at all who has to deal with incomplete and noisy data to take advantage of methods that in the past have been applied only in some areas of theoretical physics This

volume records the Proceedings of Eleventh Annual Maximum Entropy Workshop held at Seattle University in June 1991. These workshops have been the focus of a group of researchers from many different fields and this diversity is evident in this volume. There are tutorial papers, theoretical papers and applications in a very wide variety of fields. Almost any instance of dealing with incomplete and noisy data can be usefully treated by these methods and many areas of theoretical research are being enhanced by the thoughtful application of Bayes' theorem. The contributions contained in this volume present a state of the art review that will be influential and useful for many years to come.

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