

For relativistic case, we start with relativistic energy momentum relationship

$$E^2 = \mathbf{p}^2 + m^2,$$

$$E^2 - \mathbf{p}^2 = p^\mu p_\mu = m^2. \quad \text{-----}(3)$$

Using operator substitution and operating over scalar wave function ϕ

$$p^\mu p_\mu \phi = m^2 \phi,$$

$$\text{or,} \quad (i\hbar\partial^\mu)(i\hbar\partial_\mu)\phi = m^2\phi,$$

$$\text{or,} \quad -\hbar^2\Box\phi = m^2\phi.$$

$$\Box = \partial^2 = \partial^\mu \partial_\mu = \frac{\partial^2}{\partial t^2} - \nabla^2,$$

Relativistic Quantum Mechanics Wave Equa

Walter Greiner



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Mechanics Donald Stephen Staudte, 1993 **Advanced Molecular Quantum Mechanics** R. Moss, 2012-12-06 This book is primarily intended for graduate chemists and chemical physicists Indeed it is based on a graduate course that I give in the Chemistry Department of Southampton University Nowadays undergraduate chemistry courses usually include an introduction to quantum mechanics with particular reference to molecular properties and there are a number of excellent textbooks aimed specifically at undergraduate chemists In valence theory and molecular spectroscopy physical concepts are often encountered that are normally taken on trust For example electron spin and the anomalous magnetic moment of the electron are usually accepted as postulates although they are well understood by physicists In addition the advent of new techniques has led to experimental situations that can only be accounted for adequately by relatively sophisticated physical theory Relativistic corrections to molecular orbital energies are needed to explain X ray photo electron spectra while the use of lasers can give rise to multiphoton transitions which are not easy to understand using the classical theory of radiation Of course the relevant equations may be extracted from the literature but if the underlying physics is not understood this is a practice that is at best dissatisfying and at worst dangerous One instance where great care must be taken is in the use of spectroscopically determined parameters to test the accuracy of electronic wave functions

The Dirac Equation and its Solutions Vladislav G. Bagrov, Dmitry Gitman, 2014-08-20 The Dirac equation is of fundamental importance for relativistic quantum mechanics and quantum electrodynamics In relativistic quantum mechanics the Dirac equation is referred to as one particle wave equation of motion for electron in an external electromagnetic field In quantum electrodynamics exact solutions of this equation are needed to treat the interaction between the electron and the external field exactly In this

monograph all propagators of a particle i.e. the various Green's functions are constructed in a certain way by using exact solutions of the Dirac equation

Relativistic and Non-Relativistic Quantum Mechanics Luis Grave de Peralta, Maricela Fernández Lozada, Hira Farooq, Gage Eichman, Abhishek Singh, Gabrielle Prime, 2023-08-28 Currently relativistic quantum mechanics is considered an advanced topic only accessible to students who have already received considerable training in non relativistic quantum mechanics However the authors believe that they have found an excellent pedagogic approach for simultaneously introducing both topics This book is considered an Introductory Quantum Mechanics textbook that presents relativistic quantum mechanics to interested learners with no previous knowledge of it The authors avoid utilization of the well known Lorentz invariant equations Additionally they only refer to the Klein Gordon and Dirac equations to justify the use of the Poveda Poirier Grave de Peralta PPGP equations upon which this book is solely based while sporadically referring to well known results obtained using the Klein Gordon and Dirac equations to avoid unnecessary complications in an introductory book There also exist two complementary Schrödinger like and Pauli like PPGP equations the solutions of which are identical to the respective solutions of the Klein Gordon and Dirac equations associated with negative kinetic energies These equations relation to the existence of antiparticles is discussed The intended readership is undergraduate physics chemistry and engineering students with no previous knowledge of quantum mechanics as well as graduate students and professionals interested in the subject

Wave Equations in Higher Dimensions Shi-Hai Dong, 2011-07-09 Higher dimensional theories have attracted much attention because they make it possible to reduce much of physics in a concise elegant fashion that unifies the two great theories of the 20th century Quantum Theory and Relativity This book provides an elementary description of quantum wave equations in higher dimensions at an advanced level so as to put all current mathematical and physical concepts and techniques at the reader's disposal A comprehensive description of quantum wave equations in higher dimensions and their broad range of applications in quantum mechanics is provided which complements the traditional coverage found in the existing quantum mechanics textbooks and gives scientists a fresh outlook on quantum systems in all branches of physics In Parts I and II the basic properties of the SO(n) group are reviewed and basic theories and techniques related to wave equations in higher dimensions are introduced Parts III and IV cover important quantum systems in the framework of non relativistic and relativistic quantum mechanics in terms of the theories presented in Part II In particular the Levinson theorem and the generalized hypervirial theorem in higher dimensions the Schrödinger equation with position dependent mass and the Kaluza Klein theory in higher dimensions are investigated In this context the dependence of the energy levels on the dimension is shown Finally Part V contains conclusions outlooks and an extensive bibliography

Practical Quantum Electrodynamics Douglas M. Gingrich, 2006-05-10 Taking a heuristic approach to relativistic quantum mechanics Practical Quantum Electrodynamics provides a complete introduction to the theory methodologies and calculations used for explaining the physical interaction of charged particles This book combines the principles of relativity

and quantum theory necessary for performing the ca **Relativistic Quantum Mechanics and Quantum Fields** Ta-you Wu, W.-Y. Pauchy Hwang, 1991 A sequel to the well received book Quantum Mechanics by T Y Wu this book carries on where the earlier volume ends This present volume follows the generally pedagogic style of Quantum Mechanics The scope ranges from relativistic quantum mechanics to an introduction to quantum field theory with quantum electrodynamics as the basic example and ends with an exposition of important issues related to the standard model The book presents the subject in basic and easy to grasp notions which will enhance the purpose of this book as a useful textbook in the area of relativistic quantum mechanics and quantum electrodynamics

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