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RELATIVISTIC QUANTUM MECHANICS

The quantum mechanics developed so far has taken no account of the theory of relativity. This deficiency was overcome in the middle of the year 1925 by Schroedinger himself, and later on by many other workers. They generalised the wave equation to a relativistic form. The most characteristic feature of relativistic wave equation is that the spin of the particle is built into the theory from the beginning and is not added afterward, as Pauli added the electron spin to Schroedinger non-relativistic equation. There are two kinds of equations in relativistic quantum mechanics describing the two kinds of particles in respect of their intrinsic spin motion : the spin 0 equation due to Schroedinger that has since been found to describe a π meson, and the spin (1/2) equation due to Dirac that describes an electron.

13.1. SCHROEDINGER'S RELATIVISTIC EQUATION

Free particle. For a particle of mass m cartesian coordinates x, y, z and corresponding momenta p_x, p_y, p_z moving under a conservative field of potential V , we had the classical Hamiltonian

$$H = \frac{1}{2m} (p_x^2 + p_y^2 + p_z^2) + V. \quad (1)$$

From this Hamiltonian, we derived the wave equation by taking the momenta p_x, p_y and p_z as operators defined by

$$\begin{aligned} \hat{p}_x &= \frac{h}{2\pi i} \frac{\partial}{\partial x}, \\ \hat{p}_y &= \frac{h}{2\pi i} \frac{\partial}{\partial y}, \\ \hat{p}_z &= \frac{h}{2\pi i} \frac{\partial}{\partial z}. \end{aligned} \quad (2)$$

The Schroedinger equation in the Hamiltonian form is given by

$$i\hbar \frac{\partial \Psi(r, t)}{\partial t} = -\frac{\hbar^2}{2m} \nabla^2 \Psi(r, t) + V \Psi(r, t) \quad (3)$$

where E is defined by the operator

$$\hat{E} = i\hbar \frac{\partial}{\partial t}. \quad (4)$$

To generalise the equation (3) for the relativistic effect, we shall assume first that the particle of rest mass m_0 is moving in the free space, i.e., $V = 0$ and the velocity of the particle is given by

$$v^2 = \dot{x}^2 + \dot{y}^2 + \dot{z}^2 \quad (5)$$

Quantum Mechanics By Gupta Kumar Ranguy

V. P. Agrawal



Quantum Mechanics By Gupta Kumar Ranguy:

Quantum Mechanics Monica Gupta, 2009-01-01 *Quantum Mechanics* A. S. Davydov, 1976 **Principles of Quantum Mechanics** R. Shankar, 2012-12-06 R Shankar has introduced major additions and updated key presentations in this second edition of Principles of Quantum Mechanics New features of this innovative text include an entirely rewritten mathematical introduction a discussion of Time reversal invariance and extensive coverage of a variety of path integrals and their applications Additional highlights include Clear accessible treatment of underlying mathematics A review of Newtonian Lagrangian and Hamiltonian mechanics Student understanding of quantum theory is enhanced by separate treatment of mathematical theorems and physical postulates Unsurpassed coverage of path integrals and their relevance in contemporary physics The requisite text for advanced undergraduate and graduate level students Principles of Quantum Mechanics Second Edition is fully referenced and is supported by many exercises and solutions The book's self contained chapters also make it suitable for independent study as well as for courses in applied disciplines *Quantum Mechanics*, 2021 **Quantum Mechanics** Murugan, 2014 Spread over 16 chapters this book gives a comprehensive introduction to the fundamental postulates and the mathematical formalism of quantum mechanics It spells the rules that facilitate translation of abstract mathematical information into physical terms to enable students understand the emergence of particle property in all quantum objects With the right balance of theory and problems this book gives an insight to the conceptual framework of quantum systems which shaped our understanding of the physical universe and its evolution through the years There are numerous worked out examples and practice exercises to help students gain sufficient proficiency *Quantum Mechanics* LAVKUSH KUMAR, 2022-12-29 Quantum mechanics is a fundamental theory in physics that offers a description of the physical features of nature at the size of atoms and subatomic particles It does this by positing that subatomic particles and atoms each have their own set of subatomic constituents It serves as the basis for all other branches of quantum physics such as quantum chemistry quantum field theory quantum technology and quantum information science Classical physics which refers to the body of ideas that were in place before the development of quantum mechanics is able to describe many features of nature on a large scale macroscopic but it is insufficient for characterising them on smaller sizes atomic and subatomic The majority of the ideas that are used in classical physics may be derived from quantum mechanics using an approximation that is valid at large macroscopic scales Quantum mechanics is distinct from classical physics in a number of important respects including the following energy momentum angular momentum and other quantities of a bound system are restricted to discrete values quantization objects possess characteristics of both particles and waves wave particle duality and there are limits to the accuracy with which the value of a physical quantity can be predicted prior to its measurement given a complete set of initial conditions the uncertainty principle Quantum mechanics developed gradually from theories that attempted to explain observations that could not be reconciled with classical physics Some examples of these theories

include Max Planck's solution to the black body radiation problem in the year 1900 and Albert Einstein's paper from 1905 that explained the photoelectric effect. Both of these solutions were unable to be reconciled with classical physics. These early attempts to comprehend microscopic events which are now known as the old quantum theory led to the complete development of quantum mechanics in the middle of the 1920s by Niels Bohr, Erwin Schrödinger, Werner Heisenberg, Max Born and Paul Dirac amongst other scientists. The current theory is expressed using a variety of mathematical formalisms that were designed specifically for the purpose. In one of them a mathematical object known as the wave function offers information on what measurements of a particle's energy, momentum and other physical attributes may produce in the form of probability amplitudes. This information may be found in the context of the wave function. **Quantum mechanics**

Ta-You Wu, **Quantum Mechanics** Tapan Kumar Das, 2023-06-26 This book provides a clear understanding of quantum mechanics QM by developing it from fundamental postulates in an axiomatic manner as its central theme. The target audience is physics students at master's level. It avoids historical developments which are piecemeal, not logically well knitted and may lead to misconceptions. Instead in the present approach all of QM and all its rules are developed logically starting from the fundamental postulates only and no other assumptions. Specially noteworthy topics have been developed in a smooth contiguous fashion following the central theme. They provide a new approach to understanding QM. In most other texts these are presented as disjoint separate topics. Since the reader may not be acquainted with advanced mathematical topics like linear vector space a number of such topics have been presented as mathematical preliminary. Standard topics viz derivation of uncertainty relations, simple harmonic oscillator by operator method, bound systems in one and three dimensions, angular momentum, hydrogen like atom and scattering in one and three dimensions are woven into the central theme. Advanced topics like approximation methods, spin and generalized angular momenta, addition of angular momenta and relativistic quantum mechanics have been reserved for Volume II. Principles of Quantum Mechanics Ramamurti Shankar, 1994 **Quantum**

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