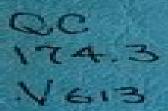
MATHEMATICAL FOUNDATIONS OF QUANTUM MECHANICS

By John von Neumann

translated from the German edition by ROBERT T. BEYER



Mathematical Foundations Of Quantum Mech

John von Neumann

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guantum mechanics based on lectures given by the author to Ph D students at the Delhi Centre of the Indian Statistical Institute in order to initiate active research in the emerging field of quantum probability. The material in the first chapter is included in the author's book An Introduction to Quantum Stochastic Calculus published by Birkhauser Verlag in 1992 and the permission of the publishers to reprint it here is acknowledged Apart from quantum probability an understanding of the role of group representations in the development of quantum mechanics is always a fascinating theme for mathematicians The first chapter deals with the definitions of states observables and automorphisms of a quantum system through Gleason s theorem Hahn Hellinger theorem and Wigner's theorem Mackey's imprimitivity theorem and the theorem of inducing representations of groups in stages are proved directly for projective unitary antiunitary representations in the second chapter Based on a discussion of multipliers on locally compact groups in the third chapter all the well known observables of classical quantum theory like linear momenta orbital and spin angular momenta kinetic and potential energies gauge operators etc are derived solely from Galilean covariance in the last chapter A very short account of observables concerning a relativistic free particle is included In conclusion the spectral theory of Schrodinger operators of one and two electron atoms is discussed in some detail The mathematical foundations of quantum mechanics: a lecture-note volume George W. Mackey, 1980 Mathematical Foundations of Quantum Information and Computation and Its Applications to Nano- and Bio-systems Masanori Ohya, I. Volovich, 2011-01-15 This monograph provides a mathematical foundation to the theory of quantum information and computation with applications to various open systems including nano and bio systems It includes introductory material on algorithm functional analysis probability theory information theory quantum mechanics and quantum field theory Apart from standard material on quantum information like quantum algorithm and teleportation the authors discuss findings on the theory of entropy in C dynamical systems space time dependence of quantum entangled states entangling operators adaptive dynamics relativistic quantum information and a new paradigm for quantum computation beyond the usual quantum Turing machine Also some important applications of information theory to genetics and life sciences as well as recent experimental and theoretical discoveries in quantum photosynthesis are described

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