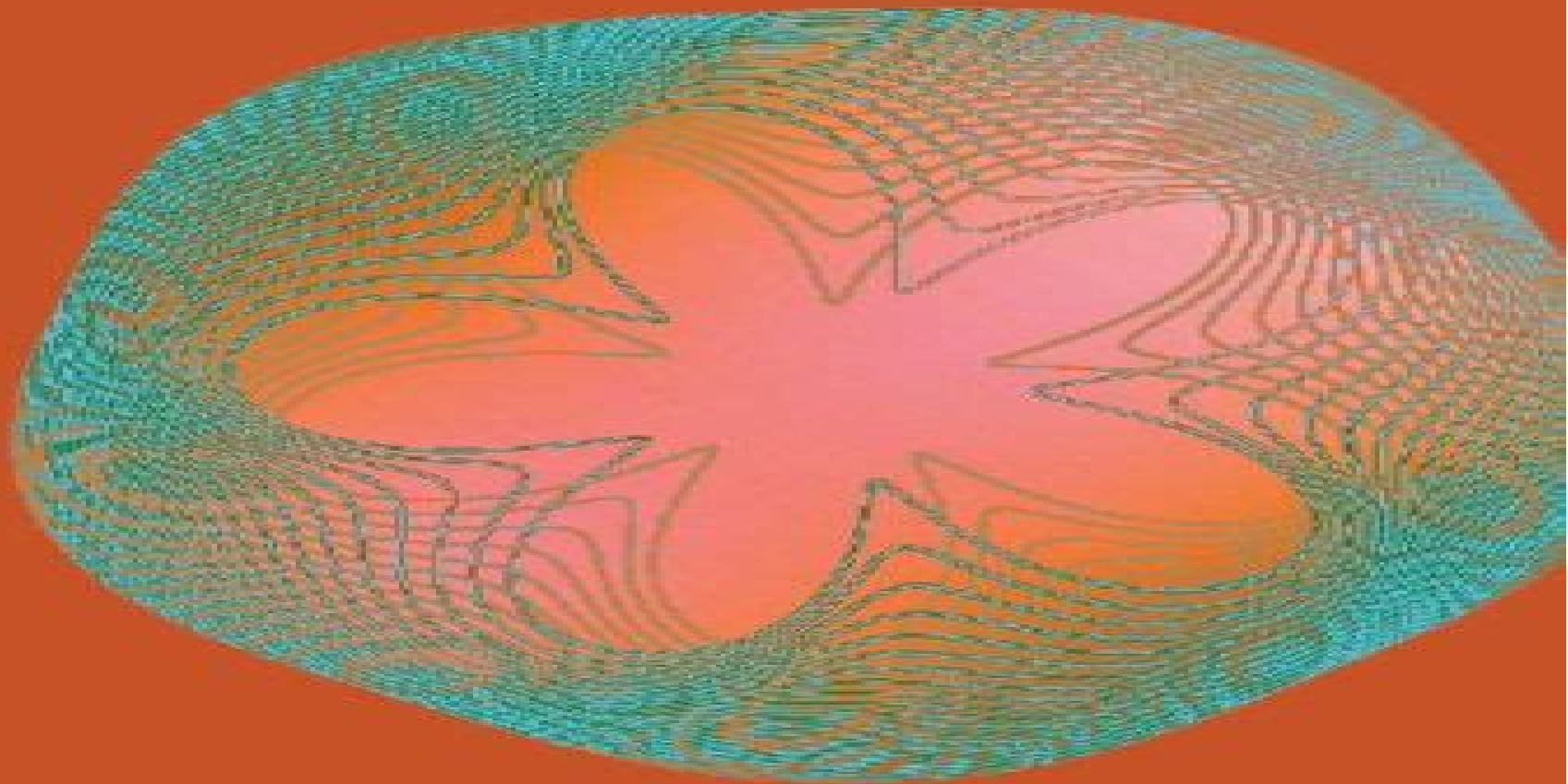


From Spinors to Quantum Mechanics

Gerrit Coddens



Imperial College Press

From Spinors To Quantum Mechanics By Gerrit Coddens

P. A. M. Dirac



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From Spinors To Quantum Mechanics Gerrit Coddens, 2015-06-29 From Spinors to Quantum Mechanics discusses group theory and its use in quantum mechanics Chapters 1 to 4 offer an introduction to group theory and it provides the reader with an exact and clear intuition of what a spinor is showing that spinors are just a mathematically complete notation for group elements Chapter 5 contains the first rigorous derivation of the Dirac equation from a simple set of assumptions The remaining chapters will interest the advanced reader who is interested in the meaning of quantum mechanics They propose a novel approach to the foundations of quantum mechanics based on the idea that the meaning of the formalism is already provided by the mathematics In the traditional approach to quantum mechanics as initiated by Heisenberg one has to start from a number of experimental results and then derive a set of rules and calculations that reproduce the observed experimental results In such an inductive approach the underlying assumptions are not given at the outset The reader has to figure them out and this has proven to be difficult The book shows that a different bottom up approach to quantum mechanics is possible which merits further investigation as it demonstrates that with the methods used the reader can obtain the correct results in a context where one would hitherto not expect this to be possible **Dirac and Feynman** Ranabir

Dutt, Asim K. Ray, 1993 Contributed articles **Selected Papers on Quantum Electrodynamics** Julian Schwinger, 1958-01-01 This monumental collection of 34 historical papers on quantum electrodynamics features contributions by the 20th century's leading physicists Dyson Fermi Feynman Foley Oppenheimer Pauli Weisskopf and others Twenty nine are in English three in German and one each in French and Italian Editor Julian Schwinger won a Nobel Prize for his pioneering work in quantum electrodynamics **Weird Scientists □ the Creators of Quantum Physics** Jeffrey Strickland, 2011-09-04 Weird Scientists is a sequel to Men of Manhattan As I wrote the latter about the nuclear physicists who brought in the era of nuclear power quantum mechanics or quantum physics was unavoidable Many of the contributors to the science of splitting the atom were also contributors to quantum mechanics Atomic physics particle physics quantum physics and even relativity are all interrelated This book is about the men and women who established the science that shook the foundations of classical physics removed determinism from measurement and created alternative worlds of reality The book introduces fundamental concepts of quantum mechanics roughly in the order they were discovered as a launching point for describing the scientist and the work that brought forth the concepts *Paul Dirac* Abraham Pais, 1998-02-12 Paul Adrien Maurice Dirac was one of the founders of quantum theory He is numbered alongside Newton Maxwell and Einstein as one of the greatest physicists of all time Together the lectures in this volume originally presented on the occasion of the dedication ceremony for a plaque commemorating Dirac in Westminster Abbey give a unique insight into the relationship between Dirac's character and his scientific achievements The text begins with the dedication address given by Stephen Hawking at the ceremony Then Abraham Pais describes Dirac as a person and his approach to his work Maurice Jacob

explains how Dirac was led to introduce the concept of antimatter and its central role in modern particle physics and cosmology followed by an account by David Olive of the origin and enduring influence of Dirac's work on magnetic monopoles Finally Sir Michael Atiyah explains the deep and widespread significance of the Dirac equation in mathematics

The Bit and the Pendulum Tom Siegfried, 2008-05-02 Funny clear deep and right on target Siegfried lets us get a handle on ideas that are essential for understanding the evolving world K C Cole author of *The Universe and the Teacup* An eager ambitious book A stimulating accessible introduction to scientific theory Dallas Morning News An award winning journalist surveys the horizon of a new revolution in science Everything in the universe from the molecules in our bodies to the heart of a black hole is made up of bits of information This is the radical idea at the center of the new physics of information and it is leading to exciting breakthroughs in a vast range of science including the invention of a new kind of quantum computer millions of times faster than any computer today Acclaimed science writer Tom Siegfried offers a lively introduction to the leading scientists and ideas responsible for this exciting new scientific paradigm [Simply Dirac](#) Helge Kragh, 2016-08-29 What a fantastic entrance into the life of Paul Dirac and the exotic world of Quantum Mechanics of which he was one of the great pioneers With its cast of some of the most important scientists of the modern age this is both an entertaining and an enlightening read Michael White Bestselling author of 39 books including *Isaac Newton The Last Sorcerer* Paul Dirac 1902-1984 was a brilliant mathematician and a 1933 Nobel laureate whose work ranks alongside that of Albert Einstein and Sir Isaac Newton Although not as well known as his famous contemporaries Werner Heisenberg and Richard Feynman his influence on the course of physics was immense His landmark book *The Principles of Quantum Mechanics* introduced that new science to the world and his Dirac equation was the first theory to reconcile special relativity and quantum mechanics Dirac held the Lucasian Chair of Mathematics at Cambridge University a position also occupied by such luminaries as Isaac Newton and Stephen Hawking Yet during his 40 year career as a professor he had only a few doctoral students due to his peculiar personality which bordered on the bizarre Taciturn and introverted with virtually no social skills he once turned down a knighthood because he didn't want to be addressed by his first name Einstein described him as balancing on the dizzying path between genius and madness In *Simply Dirac* author Helge Kragh blends the scientific and the personal and invites the reader to get to know both Dirac the quantum genius and Dirac the social misfit Featuring cameo appearances by some of the greatest scientists of the 20th century and highlighting the dramatic changes that occurred in the field of physics during Dirac's lifetime this fascinating biography is an invaluable introduction to a truly singular man *The Creation of Quantum Mechanics and the Bohr-Pauli Dialogue* J. Hendry, 2012-12-06 Many books have been written on the history of quantum mechanics So far as I am aware however this is the first to incorporate the results of the large amount of detailed scholarly research completed by professional historians of physics over the past fifteen years It is also I believe the first since Max Jammer's pioneering study of fifteen years ago to attempt a genuine history as opposed to

a mere technical report or popular or semi popular account My aims in making this attempt have been to satisfy the needs of historians of science and more especially to promote a serious interest in the history of science among phYSicists and physics students Since the creation of quantum mechanics was inevitably a technical process conducted through the medium of technical language it has been impossible to avoid the introduction of a large amount of such language Some acquaintance with quantum mechanics corresponding to that obtained through an undergraduate physics course has accordingly been assumed I have tried to ensure however that such an acquaintance should be sufficient as well as necessary and even someone with only the most basic grounding in physics should be able with judicious skip ping to get through the book The technical details are essential to the dialogue but the plot proceeds and can I hope be understood on a non technical level

The Collected Works of P. A. M. Dirac: Volume 1 P. A. M. Dirac, 1995-10-26 A comprehensive collection of the scientific papers of one of this century s most outstanding physicists

John von Neumann and the Foundations of Quantum Physics Miklós Rédei, Michael Stöltzner, 2010-12-03 John von Neumann 1903 1957 was undoubtedly one of the scientific geniuses of the 20th century The main fields to which he contributed include various disciplines of pure and applied mathematics mathematical and theoretical physics logic theoretical computer science and computer architecture Von Neumann was also actively involved in politics and science management and he had a major impact on US government decisions during and especially after the Second World War There exist several popular books on his personality and various collections focusing on his achievements in mathematics computer science and economy Strangely enough to date no detailed appraisal of his seminal contributions to the mathematical foundations of quantum physics has appeared Von Neumann s theory of measurement and his critique of hidden variables became the touchstone of most debates in the foundations of quantum mechanics Today his name also figures most prominently in the mathematically rigorous branches of contemporary quantum mechanics of large systems and quantum field theory And finally as one of his last lectures published in this volume for the first time shows he considered the relation of quantum logic and quantum mechanical probability as his most important problem for the second half of the twentieth century The present volume embraces both historical and systematic analyses of his methodology of mathematical physics and of the various aspects of his work in the foundations of quantum physics such as theory of measurement quantum logic and quantum mechanical entropy The volume is rounded off by previously unpublished letters and lectures documenting von Neumann s thinking about quantum theory after his 1932 Mathematical Foundations of Quantum Mechanics The general part of the Yearbook contains papers emerging from the Institute s annual lecture series and reviews of important publications of philosophy of science and its history

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