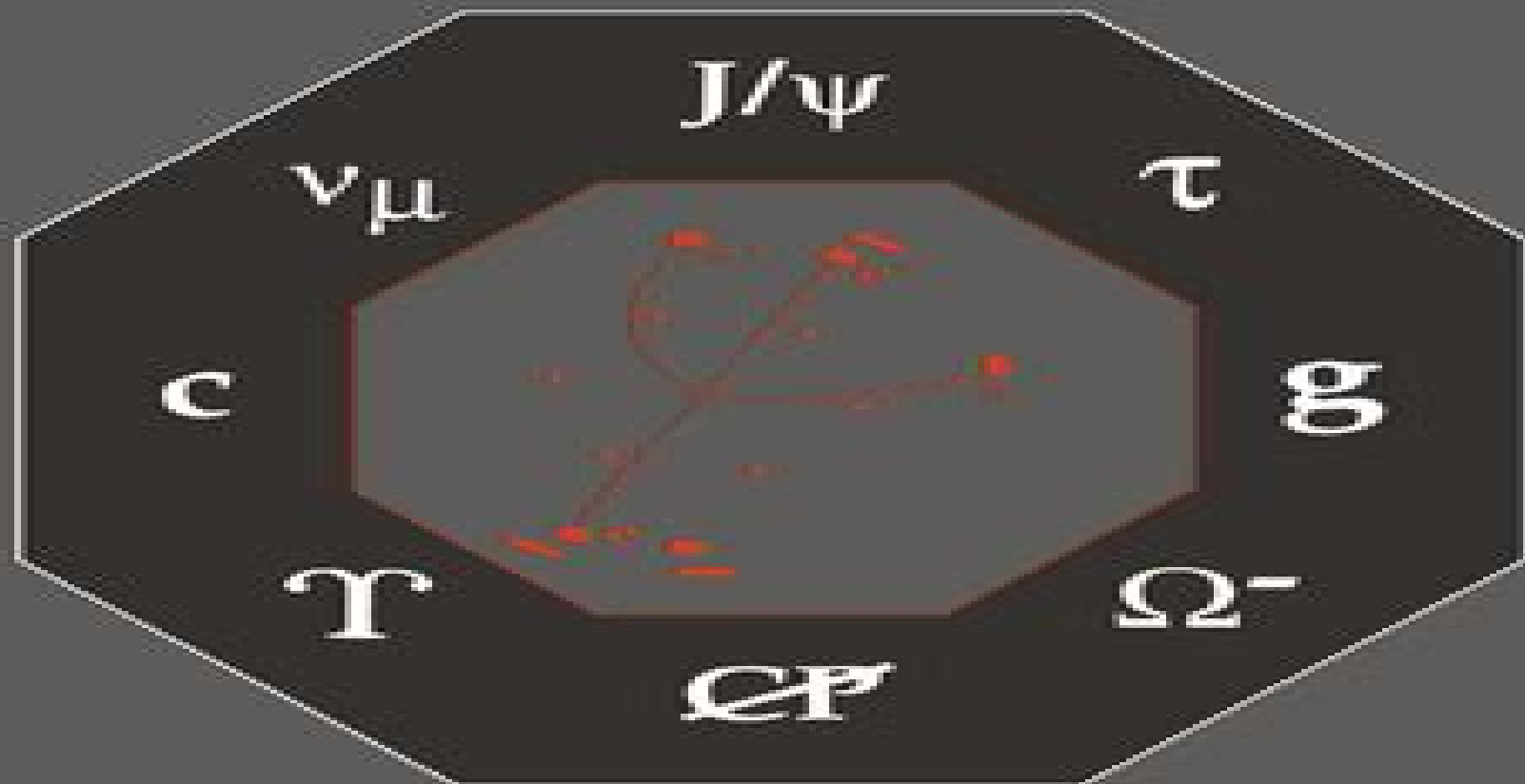


The Rise of the Standard Model

Particle Physics in the 1960s and 1970s



Edited by

Lillian Hoddeson, Laurie Brown,
Michael Riordan, and Max Dresden

Rise Of The Standard Model A History Of Particle Physics From 1964 To 1979

Lillian Hoddeson, Laurie Brown, Michael Riordan, Max Dresden

Rise Of The Standard Model A History Of Particle Physics From 1964 To 1979:

The Rise of the Standard Model Lillian Hoddeson, Laurie Brown, Michael Riordan, Max Dresden, 1997-11-13 Editors Laurie Brown Max Dresden Lillian Hoddeson and Michael Riordan have brought together a distinguished group of elementary particle physicists and historians of science to explore the recent history of particle physics Based on a conference held at Stanford University this is the third volume of a series recounting the history of particle physics and offers the most up to date account of the rise of the Standard Model which explains the microstructure of the world in terms of quarks and leptons and their interactions Major contributors include Steven Weinberg Murray Gell Mann Michael Redhead Silvan Schweber Leon Lederman and John Heilbron The wide ranging articles explore the detailed scientific experiments the institutional settings in which they took place and the ways in which the many details of the puzzle fit together to account for the Standard Model

Beyond the Nanoworld H. G. Dosch, 2008-01-11 Beyond the world of atoms at scales smaller than the smallest nuclei a new world comes into view populated by an array of colorful elementary particles strange and charmed quarks muons and neutrinos gluons and photons and many others all interacting in beautifully intricate patterns Beyond the Nanoworld tells the story of how this new real

[Mathematical Knowledge, Objects and Applications](#) Carl Posy, Yemima Ben-Menahem, 2023-05-05 This book provides a survey of a number of the major issues in the philosophy of mathematics such as ontological questions regarding the nature of mathematical objects epistemic questions about the acquisition of mathematical knowledge and the intriguing riddle of the applicability of mathematics to the physical world Some of these issues go back to the nascent years of mathematics itself others are just beginning to draw the attention of scholars In addressing these questions some of the papers in this volume wrestle with them directly while others use the writings of philosophers such as Hume and Wittgenstein to approach their problems by way of interpretation and critique The contributors include prominent philosophers of science and mathematics as well as promising younger scholars The volume seeks to share the concerns of philosophers of mathematics with a wider audience and will be of interest to historians mathematicians and philosophers alike

Converging Realities Roland Omnès, 2005 Publisher Description

Particle Detectors Hermann Kolanoski, Norbert Wermes, 2020-06-30 This book describes the fundamentals of particle detectors as well as their applications Detector development is an important part of nuclear particle and astroparticle physics and through its applications in radiation imaging it paves the way for advancements in the biomedical and materials sciences Knowledge in detector physics is one of the required skills of an experimental physicist in these fields The breadth of knowledge required for detector development comprises many areas of physics and technology starting from interactions of particles with matter gas and solid state physics over charge transport and signal development to elements of microelectronics The book s aim is to describe the fundamentals of detectors and their different variants and implementations as clearly as possible and as deeply as needed for a thorough understanding While this comprehensive opus contains all the materials

taught in experimental particle physics lectures or modules addressing detector physics at the Master's level it also goes well beyond these basic requirements This is an essential text for students who want to deepen their knowledge in this field It is also a highly useful guide for lecturers and scientists looking for a starting point for detector development work Spin 2004 - Proceedings Of The 16th International Spin Physics Symposium And Workshop On Polarized Electron Sources And Polarimeters (With Cd-rom) Franco Bradamante,Andrea Bressan,Anna Martin,Kurt Aulenbacher,2005-08-02 This comprehensive volume covers the most recent advances in the field of spin physics including the latest research in high energy and nuclear physics and the study of nuclear spin structure The comprehensive coverage also includes polarized proton and electron acceleration and storage as well as polarized ion sources and targets Many significant new results and achievements on the different topics considered at the symposium are presented in this book for the first time American Prometheus Kai Bird,Martin J. Sherwin,2007-12-18 THE INSPIRATION FOR THE ACADEMY AWARD WINNING MAJOR MOTION PICTURE OPPENHEIMER A riveting account of one of history's most essential and paradoxical figures Christopher Nolan 1 NEW YORK TIMES BESTSELLER PULITZER PRIZE WINNER The definitive biography of J Robert Oppenheimer one of the iconic figures of the twentieth century a brilliant physicist who led the effort to build the atomic bomb for his country in a time of war and who later found himself confronting the moral consequences of scientific progress A Kirkus Reviews Best Nonfiction Book of the Century In this magisterial acclaimed biography twenty five years in the making Kai Bird and Martin Sherwin capture Oppenheimer's life and times from his early career to his central role in the Cold War This is biography and history at its finest riveting and deeply informative A masterful account of Oppenheimer's rise and fall set in the context of the turbulent decades of America's own transformation It is a tour de force Los Angeles Times Book Review A work of voluminous scholarship and lucid insight unifying its multifaceted portrait with a keen grasp of Oppenheimer's essential nature It succeeds in deeply fathoming his most damaging self contradictory behavior The New York Times *A Political History of Big Science* Katharina C. Cramer,2020-08-31 This book investigates the political history of Big Science in Europe in the late twentieth century and the early twenty first century characterised by the founding histories of two collaborative single sited facilities namely the European Synchrotron Radiation Facility ESRF in Grenoble France and the European X Ray Free Electron Laser European XFEL in Schenefeld Germany Under the heading of the other Europe this book presents the history and politics of European Big Science as an alternative road to Western European integration besides the mainstream political integration process of the European Economic Community and the European Union It shows that Big Science has a role to play in European politics and policymaking and that the crucial and unavoidable symbiosis between science technology and politics brings the creation of Big Science projects back to geopolitical realities **Symmetries in Fundamental Physics** Kurt Sundermeyer,2014-07-23 Over the course of the last century it has become clear that both elementary particle physics and relativity theories are based on the notion of symmetries These symmetries become manifest

in that the laws of nature are invariant under spacetime transformations and or gauge transformations The consequences of these symmetries were analyzed as early as in 1918 by Emmy Noether on the level of action functionals Her work did not receive due recognition for nearly half a century but can today be understood as a recurring theme in classical mechanics electrodynamics and special relativity Yang Mills type quantum field theories and in general relativity As a matter of fact as shown in this monograph many aspects of physics can be derived solely from symmetry considerations This substantiates the statement of E P Wigner if we knew all the laws of nature or the ultimate Law of nature the invariance properties of these laws would not furnish us new information Thanks to Wigner we now also understand the implications of quantum physics and symmetry considerations Poincare invariance dictates both the characteristic properties of particles mass spin and the wave equations of spin 0 1 2 1 objects Further the work of C N Yang and R Mills reveals the consequences of internal symmetries as exemplified in the symmetry group of elementary particle physics Given this pivotal role of symmetries it is thus not surprising that current research in fundamental physics is to a great degree motivated and inspired by considerations of symmetry The treatment of symmetries in this monograph ranges from classical physics to now well established theories of fundamental interactions to the latest research on unified theories and quantum gravity

Invisible Universe, The: Dark Matter, Dark Energy, And The Origin And End Of The Universe Antonino Del Popolo, 2021-04-20 This book describes some of the frontier problems of cosmology our almost total ignorance of what the Universe is made up of the mystery of its origin and its end The book starts with a description of the historical events that led to the construction of the Big Bang model together with the stages that transformed the Universe from a very hot place to a very cold one full with the structures that we observe today These structures stars galaxies etc constitute only 5% of the contents of the Universe Concerning the remaining 95% dubbed dark matter and dark energy we know very little and we have only indirect evidence of their existence The text describes the story and the protagonists who showed the need for the existence of this missing matter the observations and puzzles they had to solve to understand that dark matter was not ordinary matter The book describes the hunt for dark matter carried out with instruments operating in space on the Earth's surface and in laboratories built in the bowels of the Earth It also describes dark energy which manifests itself in the accelerated expansion of the Universe and appeared only a few billions of years ago The book discusses why dark energy must exist and what its existence implies especially for the future and the end of our Universe

J. Robert Oppenheimer and the American Century David C. Cassidy, 2019-07-31 Born into a wealthy secular New York Jewish family a student of the Ethical Culture School in New York later educated in theoretical physics at Harvard Cambridge UK and G ttingen Germany appointed professor at UC Berkeley and Caltech J Robert Oppenheimer 1904 1967 was on the forefront of the rise of theoretical physics in the United States to world class status contributing to the century altering success of the Manhattan Project to build the atomic bomb As the scientific leader of that project Oppenheimer played a key advisory role in government helping to forge the post war

military industrial scientific alliance that poured huge resources into post war big science Because of his position Oppenheimer became for the public the heroic cultural icon of American science but he also became a target and a tragic victim of the cold war fear and nuclear war preparations underlying the McCarthy era This biographical study focuses on Oppenheimer s cultural and intellectual rise as a theoretical physicist as well as his role within the trajectory of the nation s rise to scientific leadership and the post war forces that confronted American science This biography is nearly unique in that it includes discussions for general audiences of Oppenheimer s work and contributions to theoretical physics including his famous prediction of black holes sixty years before their confirmed discovery Now David Cassidy brings us the best account of Oppenheimer s life in science with J Robert Oppenheimer and the American Century T Powers New York Review of Books Cassidy covers this ground admirably in his thoughtful biography of Oppenheimer Scientific American Cassidy s book is probably the best single study of Oppenheimer to date B Bernstein Physics World Cassidy s biography of J Robert Oppenheimer is a concise well written book about the life of the famous 20th century scientist A worthwhile read for anyone with an interest in the coming of age of American physics and how the weaknesses and strengths of one of its leaders shaped the relationship between science and the government for decades to come Physics and Society This biography is a detailed and beautifully written work Cassidy expands beyond the traditional scope of a biography and expertly explores the surrounding environment that shaped Oppenheimer s life Atomic Archive This excellent biography of J Robert Oppenheimer places the eminent physicist in the context of twentieth century America Cassidy provides excellent insights into the life and times of this complex man Unlike many other biographers of Oppenheimer Cassidy assesses his role as a twentieth century theoretical physicist Alsos Digital Library for Nuclear Issues A superbly researched biography There is no doubt that Cassidy gives us a valuable perspective on Oppenheimer s life The author is shy neither of editorializing nor of making judgments about the personalities who appear in the story These comments are almost unfailingly fair and justified by the evidence Times Higher Education Cassidy has written a book that neither praises Oppenheimer nor buries his reputation but rather puts some tarnish upon the icon G Herken Science [The Ultimate Constituents of the Material World](#) Meinard Kuhlmann,2013-05-02 Today quantum field theory QFT the mathematical and conceptual framework for contemporary elementary particle physics is the best starting point for analysing the fundamental building blocks of the material world QFT if taken seriously in its metaphysical implications yields a picture of the world that is at variance with central classical conceptions The core of Kuhlmann s investigation consists in the analysis of various ontological interpretations of QFT e g substance ontologies as well as a process ontological approach Eventually Kuhlmann proposes a dispositional trope ontology according to which particularized properties and not things are the most basic entities in terms of which all other entities are to be analysed e g as bundles of properties This book was chosen for the 2009ontos Award for research on analytical ontology and metaphysics by the German Society for Analytical Philosophy *From Photons To Atoms: The Electromagnetic*

Nature Of Matter Daniele Funaro, 2019-09-10 Motivated by a revision of the classical equations of electromagnetism that allow for the inclusion of solitary waves in the solution space the material collected in this book examines the consequences of adopting the modified model in the description of atomic structures The possibility of handling photons in a deterministic way indeed gives a chance to review the foundations of quantum physics Atoms and molecules are described as aggregations of nuclei and electrons joined through organized photon layers resonating at various frequencies explaining how matter can absorb or emit light quanta Some established viewpoints are subverted offering an alternative scenario The analysis seeks to provide an answer to many technical problems in physical chemistry and at the same time to raise epistemological questions

Tunnelling in Molecules Johannes Kästner, Sebastian Kozuch, 2020-09-22 Quantum tunnelling is one of the strangest phenomena in chemistry where we see the wave nature of atoms acting in impossible ways By letting molecules pass through the kinetic barrier instead of over it this effect can lead to chemical reactions even close to the absolute zero to atypical spectroscopic observations to bizarre selectivity or to colossal isotopic effects Quantum mechanical tunnelling observations might be infrequent in chemistry but it permeates through all its disciplines producing remarkable chemical outcomes For that reason the 21st century has seen a great increase in theoretical and experimental findings involving molecular tunnelling effects as well as in novel techniques that permit their accurate predictions and analysis Including experimental computational and theoretical chapters from the physical and organic to the biochemistry fields from the applied to the academic arenas this new book provides a broad and conceptual perspective on tunnelling reactions and how to study them Quantum Tunnelling in Molecules is the obligatory stop for both the specialist and those new to this world **Current**

Aspects of Neutrino Physics David O. Caldwell, 2013-11-11 This is a particularly exciting time for neutrino physics Now providing the first experimental evidence for new physics beyond the Standard Model of particle physics neutrino studies are leading that larger field in new directions As a probe for discovery neutrinos are unique among particles Being leptons neutrinos are as far as one knows true elementary particles but in addition they are unencumbered by charge and of course they do not have complicating strong interactions Their unusually small mass also points to their novelty and possibly to their providing a window onto very high energy scales The emphasis for neutrino physics at this time is on their masses and mixing with each other as well as on their basic nature and their role in the Universe While they have been important tools for studying particle properties such as structure functions and the nature of the weak interaction at present this is not the thrust of most research and hence is not covered in this book Rather the topics are those currently of most interest at the frontier of particle physics **Tunnel Visions** Michael Riordan, Lilian Hoddeson, Arienne W. Kolb, 2015-11-20 A detailed and

engaging account of the development of the superconducting supercollider one of the largest scientific undertakings in the United States Journal of American History Starting in the 1950s US physicists dominated the search for elementary particles aided by the association of this research with national security they held this position for decades In an effort to maintain

their hegemony and track down the elusive Higgs boson they convinced President Reagan and Congress to support construction of the multibillion dollar Superconducting Super Collider project in Texas the largest basic science project ever attempted But after the Cold War ended and the estimated SSC cost surpassed ten billion dollars Congress terminated the project in October 1993 Drawing on extensive archival research contemporaneous press accounts and over one hundred interviews with scientists engineers government officials and others involved Tunnel Visions tells the riveting story of the aborted SSC project The authors examine the complex interrelated causes for its demise including problems of large project management continuing cost overruns and lack of foreign contributions In doing so they ask whether Big Science has become too large and expensive including whether academic scientists and their government overseers can effectively manage such an enormous undertaking Focusing on the scientific technical and political conflicts that led to delays ever rising costs and eventually the SSC's cancellation by Congress Tunnel Visions is a true techno thriller Burton Richter winner of the Nobel Prize in Physics Most good science stories are tales of discovery and success but failure can be just as riveting Here two historians and an archivist describe the greatest particle physics experiment that never was Scientific American

The Conceptual Completion and Extensions of Quantum Mechanics 1932-1941. Epilogue: Aspects of the Further Development of Quantum Theory 1942-1999 Jagdish Mehra, 2004-09-08 Quantum Theory together with the principles of special and general relativity constitute a scientific revolution that has profoundly influenced the way in which we think about the universe and the fundamental forces that govern it The Historical Development of Quantum Theory is a definitive historical study of that scientific work and the human struggles that accompanied it from the beginning Drawing upon such materials as the resources of the Archives for the History of Quantum Physics the Niels Bohr Archives and the archives and scientific correspondence of the principal quantum physicists as well as Jagdish Mehra's personal discussions over many years with most of the architects of quantum theory the authors have written a rigorous scientific history of quantum theory in a deeply human context This multivolume work presents a rich account of an intellectual triumph a unique analysis of the creative scientific process The Historical Development of Quantum Theory is science history and biography all wrapped in the story of a great human enterprise Its lessons will be an aid to those working in the sciences and humanities alike

The Evidence for the Top Quark Kent W. Staley, 2004-04-05 The Evidence for the Top Quark offers both a historical and philosophical perspective on an important recent discovery in particle physics the first evidence for the elementary particle known as the top quark Drawing on published reports oral histories and internal documents from the large collaboration that performed the experiment Kent Staley explores in detail the controversies and politics that surrounded this major scientific result At the same time the book seeks to defend an objective theory of scientific evidence based on error probabilities

The Particle Century G Fraser, 1998-01-01 From the first attempts to split the atom to the discovery of the top quark the 20th century has witnessed a revolution in basic physics Probing successively smaller constituents of matter has also

revealed the conditions present at the time of the Big Bang In a series of essays by scientists who have been closely involved in this exciting research *The Particle Century* describes the unprecedented advances in our understanding of the universe The book covers major historical developments as well as current advances including early accelerator physics the rise of the Standard Model new comprehension of the big bang theory and the cutting edge of today's investigations These essays add novel insight into the continuing efforts to unravel the deepest secrets of nature

The Many Voices of Modern Physics
Joseph E. Harmon, Alan G. Gross, 2023-03-07

The Many Voices of Modern Physics follows a revolution that began in 1905 when Albert Einstein published papers on special relativity and quantum theory Unlike Newtonian physics this new physics often departs wildly from common sense a radical divorce that presents a unique communicative challenge to physicists when writing for other physicists or for the general public and to journalists and popular science writers as well In their two long careers Joseph Harmon and the late Alan Gross have explored how scientists communicate with each other and with the general public Here they focus not on the history of modern physics but on its communication In their survey of physics communications and related persuasive practices they move from peak to peak of scientific achievement recalling how physicists use the communicative tools available in particular thought experiments analogies visuals and equations to convince others that what they say is not only true but significant that it must be incorporated into the body of scientific and general knowledge Each chapter includes a chorus of voices from the many celebrated physicists who devoted considerable time and ingenuity to communicating their discoveries to the science journalists who made those discoveries accessible to the public and even to philosophers sociologists historians an opera composer and a patent lawyer With their final collaboration Harmon and Gross offer a tribute to the communicative practices of the physicists who convinced their peers and the general public that the universe is a far more bizarre and interesting place than their nineteenth century predecessors imagined

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