

# Preons

Models of Leptons, Quarks  
and Gauge Bosons as  
Composite Objects

I A D'Souza  
C S Kalman

 World Scientific



# Preons Models Of Leptons Quarks And Gauge Bosons As Composite Particles

**A. Faessler, T.S. Kosmas, G.K. Leontaris**



## **Preons Models Of Leptons Quarks And Gauge Bosons As Composite Particles:**

**Preons: Models Of Leptons, Quarks And Gauge Bosons As Composite Particles** Calvin S Kalman,I D'

Souza,1992-10-29 There are a number of unanswered questions which indicate that the Standard Model successful as it is cannot be the entire story One solution to answering these questions is that the Standard Model is an effective low energy theory of structure hopefully nearby in its energy scale in much the same way that a model of strong interactions among nucleons mediated by pions is an effective theory for the strong interactions of quarks mediated by coloured gluons This book reviews the Standard Model and then examines the current status of composite models After developing criteria for judging such models the text discusses two of the major indicators of compositeness triviality and naturalness Using this framework as a background the various models are summarized and discussed This monograph concludes with a chapter describing the constraints imposed on composite models by current measurements of decay rates magnetic moment measurements flavour changing processes etc and describing other ways to look for signatures of compositeness This monograph attempts to be thorough covering all aspects of composite models as found in the literature at the time of completion of the manuscript As such it should be of interest to any experimental or theoretical physicist having an interest in the subject The review of the Standard Model in the first chapter is written in such a way that anyone with a basic knowledge of Quantum Field Theory should be able to understand the entire text As such it could also be used for supplementary reading in graduate courses

Preons Ian A. D'Souza,Calvin S. Kalman,1992 There are a number of unanswered questions which indicate that the Standard Model successful as it is cannot be the entire story One solution to answering these questions is that the Standard Model is an effective low energy theory of structure hopefully nearby in its energy scale in much the same way that a model of strong interactions among nucleons mediated by pions is an effective theory for the strong interactions of quarks mediated by coloured gluons This book reviews the Standard Model and then examines the current status of composite models After developing criteria for judging such models the text discusses two of the major indicators of compositeness triviality and naturalness Using this framework as a background the various models are summarized and discussed This monograph concludes with a chapter describing the constraints imposed on composite models by current measurements of decay rates magnetic moment measurements flavour changing processes etc and describing other ways to look for signatures of compositeness This monograph attempts to be thorough covering all aspects of composite models as found in the literature at the time of completion of the manuscript As such it should be of interest to any experimental or theoretical physicist having an interest in the subject The review of the Standard Model in the first chapter is written in such a way that anyone with a basic knowledge of Quantum Field Theory should be able to understand the entire text As such it could also be used for supplementary reading in graduate courses      The Leptonic Magnetic Monopole - Theory and Experiments ,2015-05-14

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**Foundations Of Modern Particle Physics** Robert Eugene Marshak, 1993-03-31 For scientific technological and organizational reasons the end of World War II in 1945 saw a rapid acceleration in the tempo of discovery and understanding in nuclear physics cosmic rays and quantum field theory which together triggered the birth of modern particle physics The first fifteen years 1945-60 following the war's end the Startup Period in modern particle physics witnessed a series of major experimental and theoretical developments that began to define the conceptual contours non-Abelian internal symmetries Yang-Mills fields renormalization group chirality invariance baryon-lepton symmetry in weak interactions spontaneous symmetry breaking of the quantum field theory of three of the basic interactions in nature electromagnetic strong and weak But it took another fifteen years 1960-75 the Heroic Period in modern particle physics to unravel the physical content and complete the mathematical formulation of the standard gauge theory of the strong and electroweak interactions among the three generations of quarks and leptons The impressive accomplishments during the Heroic Period were followed by what is called the period of consolidation and speculation 1975-1990 which includes the experimental consolidation of the standard model SM through precision tests theoretical consolidation of SM through the search for more rigorous mathematical solutions to the Yang-Mills-Higgs equations and speculative theoretical excursions beyond SM Within this historical conceptual framework the author himself a practicing particle theorist for the past fifty years attempts to trace the highlights in the conceptual evolution of modern particle physics from its early beginnings until the present time Apart from the first chapter which sketches a broad overview of the entire field the remaining nine chapters of the book offer detailed discussions of the major concepts and principles that prevailed and were given wide currency during each of the fifteen-year periods that comprise the history of modern particle physics Those concepts and principles that contributed only peripherally to the standard model are given less coverage but an attempt is made to inform the reader about such contributions which may turn out to be significant at a future time and to suggest references that supply more information Chapters 2 and 3 of the book cover a range of topics that received dedicated attention during the Startup Period although some of the results were not incorporated into the structure of the standard model Chapters 4-6 constitute the core of the book and try to recapture much of the conceptual excitement of the Heroic Period when quantum chromodynamics (QCD) and quantum electrodynamics (QED) received their definitive formulation It should be emphasized that throughout the book logical coherence takes precedence over historical chronology e.g. some of the precision tests of QED are discussed in Chapter 6 Chapter 7 provides a fairly complete discussion of the chiral gauge anomalies in four dimensions with special application to

the standard model although the larger unification models are also considered The remaining three chapters of the book Chapters 7 10 cover concepts and principles that originated primarily during the Period of Consolidation and Speculation but again this is not a literal statement Chapters 8 and 9 report on two of the main directions that were pursued to overcome acknowledged deficiencies of the standard model unification models in Chapter 8 and attempts to account for the existence of precisely three generations of quarks and leptons primarily by means of preon models in Chapter 9 The most innovative of the final three chapters of the book is Chapter 10 on topological conservation laws This last chapter tries to explain the significance of topologically non trivial solutions in four dimensional space time particle physics e g t Hooft Polyakov monopoles instantons sphalerons global SU 2 anomaly Wess Zumino term etc and to reflect on some of the problems that have ensued e g the strong CP problem in QCD from this effort It turns out that the more felicitous topological applications of field theory are found as of now in condensed matter physics these successful physical applications to polyacetylene quantized magnetic flux in type II low temperature superconductivity etc are discussed in Chapter 10 as a good illustration of the conceptual unity of modern physics

Nonperturbative Quantum Field Theory and the Structure of Matter T. Borne,G. Lochak,H. Stumpf,2005-12-19 This book which presents a new view of quantum field theory may serve as a research monograph and an alternative textbook examining topics which are not usually treated in conventional works Audience This volume will appeal to researchers concerned with the foundation of the theory of matter and forces including gravitation It will also be interesting to those working with quantum field theoretic methods in various disciplines such as particle physics nuclear physics condensed matter physics and relativity Jacket

**An Introduction to Particle Physics and the Standard Model** Robert Mann,2009-11-18 An Introduction to the Standard Model of Particle Physics familiarizes readers with what is considered tested and accepted and in so doing gives them a grounding in particle physics in general Whenever possible Dr Mann takes an historical approach showing how the model is linked to the physics that most of us have learned in less challenging areas Dr Mann reviews special relativity and classical mechanics symmetries conservation laws and particle classification then working from the tested paradigm of the model itself he Describes the Standard Model in terms of its electromagnetic strong and weak components Explores the experimental tools and methods of particle physics Introduces Feynman diagrams wave equations and gauge invariance building up to the theory of Quantum Electrodynamics Describes the theories of the Strong and Electroweak interactions Uncovers frontier areas and explores what might lie beyond our current concepts of the subatomic world Those who work through the material will develop a solid command of the basics of particle physics The book does require a knowledge of special relativity quantum mechanics and electromagnetism but most importantly it requires a hunger to understand at the most fundamental level why things exist and how it is that anything happens This book will prepare students and others for further study but most importantly it will prepare them to open their minds to the mysteries that lie ahead Ultimately the Large Hadron Collider may prove the model correct helping so many

realize their greatest dreams or it might poke holes in the model leaving us to wonder an even more exciting possibility that the answers lie in possibilities so unique that we have not even dreamt of them **High Energy Physics Index** ,1993

Advanced Particle Physics Two-Volume Set Oleg Boyarkin,2011-02-16 Providing a complete foundation to comprehend the physics of the microworld Advanced Particle Physics Two Volume Set develops the models theoretical framework and mathematical tools to understand current experiments and make predictions for future experiments The set brings together a vast array of topics in modern particle physics and distill *Advanced Particle Physics Volume II* Oleg Boyarkin,2011-02-16 Helping readers understand the complicated laws of nature Advanced Particle Physics Volume II The Standard Model and Beyond explains the calculations experimental procedures and measuring methods of particle physics particularly quantum chromodynamics QCD It also discusses extensions to the Standard Model and the physics of massive neutrino 1985 F. Kaschluhn,A. Lösche,R. Ritschl,R Rompe,2022-01-19 No detailed description available for 1985 *Understanding Gravity: The Generation Model Approach* Brian A Robson,2021-06-22 Currently the General Theory of Relativity GTR describes the physics of the very large in terms of classical physics while quantum theory describes the physics of the very small in terms of the Standard Model of particle physics Unfortunately the two theories are incompatible and do not describe satisfactorily all the forces between the various particles comprising ordinary matter At present one of the deepest problems in theoretical physics is harmonizing the GTR which describes gravitation with quantum mechanics which describes the other three fundamental forces acting on the atomic scale The main aim of the book is to provide an understanding of gravity in terms of a quantum theory given by the Generation Model of particle physics The book presents a fully quantum theory of gravity which describes both the large cosmological scale and the small atomic scale interactions between all particles

**Advanced Particle Physics** Oleg Boyarkin,2011-02-16 Helping readers understand the complicated laws of nature Advanced Particle Physics Volume II The Standard Model and Beyond explains the calculations experimental procedures and measuring methods of particle physics particularly quantum chromodynamics QCD It also discusses extensions to the Standard Model and the physics of massive neutrinos Divided into three parts this volume begins with QCD It explains the quantization scheme using functional integrals and investigates renormalization problems The book also calculates cross sections of basic hard processes and covers nonperturbative methods such as the lattice approach and QCD vacuum The next part focuses on electroweak interactions in which the author describes the Glashow Weinberg Salam theory and presents composite models and a left right symmetric model as extensions to the Standard Model The book concludes with chapters on massive neutrino physics that cover neutrino properties neutrino oscillation in vacuum and matter and solar and atmospheric neutrinos **Fiscal year 1986 Department of Energy authorization (basic research programs)** United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Development and Applications,1985 **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. Poincaré 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.

**Beyond the Desert 1999** I. V. Krivosheina, Hans Volker Klapdor-Kleingrothaus, 2000-12-01

Addressing the need for an up-to-date reference on silicon devices and heterostructures, *Beyond the Desert 99* reviews the technology used to grow and characterize Group IV alloy films. It covers the theory, device design and simulation of heterojunction transistors, emphasizing their relevance in developing the technologies involving strained layers, device design and simulation of conventional silicon bipolar transistors and SiGe HBTs at room and low temperatures, and device design and simulation for MOSFETs including SiGe and strained Si channel MOSFETs. The book concludes with simulations and examples of different applications. It provides a unified reference for scientists and engineers investigating the use of SiGe and strained silicon in a new generation of high-speed circuit applications.

**Symmetries in Intermediate and High**

**Energy Physics** A. Faessler, T. S. Kosmas, G. K. Leontaris, 2000-03-15 This book contains comprehensive reviews of modern topics in nuclear physics, particle physics, astrophysics and cosmology. Special emphasis is placed on the role of several symmetries in physics at intermediate and high energies and on neutrino physics with its implications in nuclear astrophysics and cosmology. Many applications of the theories and experiments are included along with interesting information on recent developments with respect to current problems in modern physics. Thus it will be especially useful to new scientists and graduate students.

**Sixty Years of Double Beta Decay** Hans Volker Klapdor-Kleingrothaus, 2001 Nuclear double beta decay, together with proton decay, is one of the most promising tools for probing beyond the standard model physics on beyond accelerator energy scales. It is already probing the TeV scale on which new physics should manifest itself according to

theoretical expectations Only in the early 1980s was it known that double beta decay yields information on the Majorana mass of the exchanged neutrino At present the sharpest bound for the electron neutrino arises from this process It is only in the last 10 years that the much more far reaching potential of double beta decay has been discovered Today the potential of double beta decay includes a broad range of topics that are equally relevant to particle physics astrophysics such as masses of heavy neutrinos the sneutrino SUSY models compositeness leptoquarks right handed W bosons This invaluable book outlines the development of double beta research from its beginnings until its most recent achievements also presents the outlook for its highly exciting future Readership Particle physicists nuclear physicists astrophysicists

**Lepton and Baryon Number Violation in Particle Physics, Astrophysics and Cosmology** H. V. Klapdor-Kleingrothaus, I. V. Krivosheina, 1999-01-01 Bringing together leading researchers from particle physics astrophysics and cosmology Lepton and Baryon Number Violation in Particle Physics Astrophysics and Cosmology presents reviews of current theoretical ideas experimental results and future perspectives in this topical field The book covers areas related to baryon number B and lepton number L violation in particle physics nuclear physics rare decays and cosmology The main topics include B and L violation and grand unified theories B and L violation in the early universe cosmology and astrophysics Lepton family number violation and B and L violation and collider physics

*Non-accelerator Particle Physics: Proceedings Of The International Conference* R Cowsik, 1995-08-31 This international conference focussed on several exciting frontier areas of particle physics at energy scales not realizable in terrestrial accelerators and their significance in the fields of astrophysics and cosmology The topics discussed included physics beyond the standard model violations of discrete symmetries neutrino physics neutrino astronomy experimental detection of dark matter gravitation and feebler new forces cosmic rays etc Some of the highlights are the latest results from the Kamiokande neutrino detector and status reports on experimental facilities under commission to detect solar and atmospheric neutrinos WIMP s and dark matter candidates

**Supersymmetry And Unification Of Fundamental Interactions (Susy 93) - Proceedings Of The International Workshop** Pran Nath, 1993-11-22 The recent high precision results from the LEP supercollider at CERN appear favorable for supergravity unification of the electroweak and the strong forces The proceedings of the SUSY 93 Workshop focus on further precise predictions of unification which may be observed in the laboratory In addition the proceedings cover a wide range of other topics in supersymmetry supergravity particle physics string theory and cosmology and their interconnections They include both theoretical and experimental papers hence presenting a complete and comprehensive picture of this important subject

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