



Advanced Series on Theoretical Physical Science

# Foundations of the Hyperunified Field Theory

Yue-Liang Wu



World Scientific

# Field Theory Advanced Series On Theoretical Physical Science

**Cornell University**



## Field Theory Advanced Series On Theoretical Physical Science:

*Foundations Of The Hyperunified Field Theory* Yue-liang Wu, 2022-09-28 The quest for the unification of fundamental interactions has become the most challenging frontier of sciences in the 21st century This book presents a detailed analysis and systematic investigation of the foundations of the hyperunified field theory HUFT in light of the path integral formulation with the least action principle Alternative to other unification theories the starting point of HUFT is initiated from a simple notion that the universe is made of the fundamental building block which is always moving and obeys the basic rule Such a rule is delved into in this book by proposing the maximum locally entangled qubits motion principle together with the scaling and gauge invariance principle These two basic guiding principles are demonstrated to lay the foundations of HUFT which enable enables us to discuss a series of long standing fundamental questions such as why does the fundamental building block of nature appear as an entangled qubit spinor field what brings about the fundamental symmetry of nature how does the inhomogeneous hyperspin gauge symmetry govern all basic forces what is the nature of gravity and space time how can the space time dimension and qubit spinor field be categorized why do we live in a universe with only four dimensional space time why are there more than one family of leptons and quarks how does the early universe evolve to be inflationary what is the nature of dark matter and dark energy Foundations of the Hyperunified Field Theory will be of great interest to graduate and senior undergraduate students junior and senior researchers in theoretical physics quantum field theory particle physics gravitational theory cosmology as well as mathematical physics and general physics 中国科学技术大学出版社 (Japan), 1900 Quantum Field Theory I Edouard B. Manoukian, 2016-12-01 This textbook covers a broad spectrum of developments in QFT emphasizing those aspects that are now well consolidated and for which satisfactory theoretical descriptions have been provided The book is unique in that it offers a new approach to the subject and explores many topics merely touched upon if covered at all in standard reference works A detailed and largely non technical introductory chapter traces the development of QFT from its inception in 1926 The elegant functional differential approach put forward by Schwinger referred to as the quantum dynamical action principle and its underlying theory are used systematically in order to generate the so called vacuum to vacuum transition amplitude of both abelian and non abelian gauge theories in addition to Feynman s well known functional integral approach referred to as the path integral approach Given the wealth of information also to be found in the abelian case equal importance is put on both abelian and non abelian gauge theories Particular emphasis is placed on the concept of a quantum field and its particle content to provide an appropriate description of physical processes at high energies where relativity becomes indispensable Moreover quantum mechanics implies that a wave function renormalization arises in the QFT field independent of any perturbation theory a point not sufficiently emphasized in the literature The book provides an overview of all the fields encountered in present high energy physics together with the details of the underlying derivations Further it presents deep inelastic experiments as a fundamental

application of quantum chromodynamics Though the author makes a point of deriving points in detail the book still requires good background knowledge of quantum mechanics including the Dirac Theory as well as elements of the Klein Gordon equation The present volume sets the language the notation and provides additional background for reading Quantum Field Theory II Introduction to Quantum Gravity Supersymmetry and String Theory by the same author Students in this field might benefit from first reading the book Quantum Theory A Wide Spectrum Springer 2006 by the same author *String Theory Research Progress* Ferenc N. Balogh, 2008 String theory is a model of fundamental physics whose building blocks are one dimensional extended objects called strings rather than the zero dimensional point particles that form the basis for the standard model of particle physics The phrase is often used as shorthand for Superstring theory as well as related theories such as M theory By replacing the point like particles with strings an apparently consistent quantum theory of gravity emerges Moreover it may be possible to unify the known natural forces gravitational electromagnetic weak nuclear and strong nuclear by describing them with the same set of equations Studies of string theory have revealed that it predicts higher dimensional objects called branes String theory strongly suggests the existence of ten or eleven in M theory space time dimensions as opposed to the usual four three spatial and one temporal used in relativity theory **Physics Briefs**, 1994 *Scientific and Technical Aerospace Reports*, 1981 **Monographic Series** Library of Congress, 1979   
**Cornell University Announcements** Cornell University, 1928 *Graduate School* Cornell University, 1924 **Foundations of the Hyperunified Field Theory** YUE-LIANG. WU, 2022-09-27 The quest for the unification of fundamental interactions has become the most challenging frontier of sciences in the 21st century This book presents a detailed analysis and systematic investigation of the foundations of the hyperunified field theory HUFT in light of the path integral formulation with the least action principle Alternative to other unification theories the starting point of HUFT is initiated from a simple notion that the universe is made of the fundamental building block which is always moving and obeys the basic rule Such a rule is delved into in this book by proposing the maximum locally entangled qubits motion principle together with the scaling and gauge invariance principle These two basic guiding principles are demonstrated to lay the foundations of HUFT which enable enables us to discuss a series of long standing fundamental questions such as why does the fundamental building block of nature appear as an entangled qubit spinor field what brings about the fundamental symmetry of nature how does the inhomogeneous hyperspin gauge symmetry govern all basic forces what is the nature of gravity and space time how can the space time dimension and qubit spinor field be categorized why do we live in a universe with only four dimensional space time why are there more than one family of leptons and quarks how does the early universe evolve to be inflationary what is the nature of dark matter and dark energy Foundations of the Hyperunified Field Theory will be of great interest to graduate and senior undergraduate students junior and senior researchers in theoretical physics quantum field theory particle physics gravitational theory cosmology as well as mathematical physics and general physics

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This book delves into Field Theory Advanced Series On Theoretical Physical Science. Field Theory Advanced Series On Theoretical Physical Science is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Field Theory Advanced Series On Theoretical Physical Science, encompassing both the fundamentals and more intricate discussions.

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    - Chapter 3: Field Theory Advanced Series On Theoretical Physical Science in Everyday Life
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    - Chapter 5: Conclusion
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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Field Theory Advanced Series On Theoretical Physical Science.

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web in this chapter let us solve a few problems based on the concept of amplitude modulation problem 1 a modulating signal  $m(t) = 10 \cos(2\pi \cdot 10^3 t)$  is amplitude modulated with a carrier signal  $c(t) = 50 \cos(2\pi \cdot 10^5 t)$  find the modulation index the carrier power and the power required for transmitting am wave solution

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web if both amplitude and phase modulation are used at the same time it is called quadrature amplitude modulation qam digital version is also called qam in am amount of carrier and sidebands in the frequency spectrum determines the modulation type ssb ssb sc dsb dsb sc conventional am vsb and their sub types