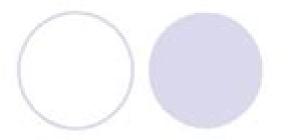
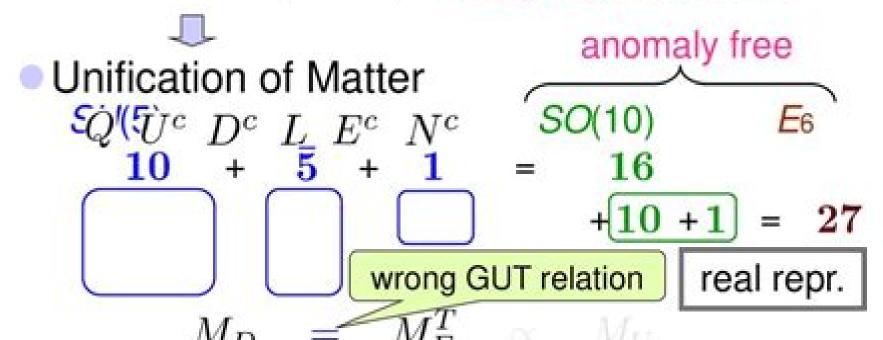
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the fundamentals of the quantum theory of gauge fields and its application for constructing unified gauge models and the theory of strong interactions In writing the book the authors aim was three fold firstly to outline the basic ideas underlying the unified gauge models and the theory of strong interactions secondly to discuss the major unified gauge models the theory of strong interactions and their experimental implications and thirdly to acquaint the reader with a rather special mathematical approach path in tegral method which has proved to be well suited for constructing the quantum theory of gauge fields Gauge fields are a vigorously developing area In this book we have select ed for presentation the more or less traditional and commonly accepted mate rial There also exist a number of different approaches which are presently being developed The most important of them are touched upon in the Conclusion THE HYBRID GRAND UNIFIED THEORY E. Escultura, V. Lakshmikantham, 2009-03-01 In this book an attempt is made to provide a hybrid grand unified theory to understand the universe both in its micro quantum aspects as well as macro galactic aspects. The book describes a truly hybrid theory as it encompasses both the modern and ancient theories of the universe together with its functioning at all levels of human comprehension One of its authors Dr Escultura was nominated in 2005 for a Nobel Prize for his flux theory of gravitation From then on this theory has been improved clarified and is now known as the hybrid grand unified theory This book deals with this new bold theory unifying mathematics and physics and answering some open fundamental questions and paradoxes in these disciplines The book also describes what the ancient scientists knew about these matters

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quantization of charge determined the magnitude of the neutral current and had dramatic impact on cosmology This book is designed to bring interested students and researchers rapidly up to the point where they can contribute to this exciting field A substantial text provides a review of the subject In particular several chapters are devoted to cosmology and the theory of galaxy formation A selection of original papers is reprinted A brief review of group theory is also provided It is a must for all students and researchers in the field Gauge Theory Of Weak And Electromagnetic Interactions Choy Heng Lai, 1981-01-31 A volume of selected original papers on the synthesis of the two fundamental forces of nature It is intended to provide graduate students and physicists in the field with an easy access to the original literature **Unsolved Problems** in Special and General Relativity Florentin Smarandache, Fu Yuhua, Zhao Fengjuan, 2013 *The Future of Theoretical* Physics and Cosmology G. W. Gibbons, E. P. S. Shellard, S. J. Rankin, 2003-10-23 Based on lectures given in honour of Stephen Hawking's sixtieth birthday this book comprises contributions from some of the world's leading theoretical physicists It begins with a section containing chapters by successful scientific popularisers bringing to life both Hawking s work and other exciting developments in physics The book then goes on to provide a critical evaluation of advanced subjects in modern cosmology and theoretical physics Topics covered include the origin of the universe warped spacetime cosmological singularities quantum gravity black holes string theory quantum cosmology and inflation As well as providing a fascinating overview of the wide variety of subject areas to which Stephen Hawking has contributed this book represents an important Lie Algebras, Part 2 E.A. de Kerf, G.G.A. assessment of prospects for the future of fundamental physics and cosmology Bäuerle, A.P.E. ten Kroode, 1997-10-30 This is the long awaited follow up to Lie Algebras Part I which covered a major part of the theory of Kac Moody algebras stressing primarily their mathematical structure Part II deals mainly with the representations and applications of Lie Algebras and contains many cross references to Part I The theoretical part largely deals with the representation theory of Lie algebras with a triangular decomposition of which Kac Moody algebras and the Virasoro algebra are prime examples After setting up the general framework of highest weight representations the book continues to treat topics as the Casimir operator and the Weyl Kac character formula which are specific for Kac Moody algebras The applications have a wide range First the book contains an exposition on the role of finite dimensional semisimple Lie algebras and their representations in the standard and grand unified models of elementary particle physics A second application is in the realm of soliton equations and their infinite dimensional symmetry groups and algebras The book concludes with a chapter on conformal field theory and the importance of the Virasoro and Kac Moody algebras therein

Stochastic Quantum Mechanics and Quantum Spacetime Margaret Prugovecki,2012-12-06 The principal intent of this monograph is to present in a systematic and self con tained fashion the basic tenets ideas and results of a framework for the consistent unification of relativity and quantum theory based on a quantum concept of spacetime and incorporating the basic principles of the theory of stochastic spaces in combination with those of Born's reciprocity theory In this context by

the physicial consistency of the present framework we mean that the advocated approach to relativistic quantum theory relies on a consistent probabilistic interpretation which is proven to be a direct extrapolation of the conventional interpretation of nonrelativistic quantum mechanics The central issue here is that we can derive conserved and relativistically convariant probability currents which are shown to merge into their nonrelativistic counterparts in the nonrelativistic limit and which at the same time explain the physical and mathe matical reasons behind the basic fact that no probability currents that consistently describe pointlike particle localizability exist in conventional relativistic quantum mechanics Thus it is not that we dispense with the concept oflocality but rather the advanced central thesis is that the classical concept of locality based on point like localizability is inconsistent in the realm of relativistic quantum theory and should be replaced by a concept of quantum locality based on stochastically formulated systems of covariance and related to the aforementioned currents Hawaii Topical Conferences In Particle Physics - Selected Lectures (In 2 Volumes) Sandip Pakvasa, San Fu Tuan, 1983-01-31 This book is essentially made up of the lecture notes delivered by eight lecturers selected from the 8th Hawaii Conference Summer Schools during the period 1965 1979 **Neutrinos and Explosive Events in the** Universe Maurice M. Shapiro, Todor Stanev, John P. Wefel, 2006-01-26 Neutrinos and Explosive Events in the Universe brought together experts from diverse disciplines to offer a detailed view of the exciting new work in this part of High Energy Astrophysics Sponsored by NATO as an Advanced Study Institute and coordinated under the auspices of the International School of Cosmic Ray Astrophysics 14th biennial course the ASI featured a full program of lectures and discussion in the ambiance of the Ettore Majorana Centre in Erice Italy including visits to the local Dirac and Chalonge museum collections as well as a view of the cultural heritage of southern Sicily Enri ment presentations on results from the Spitzer Infrared Space Telescope and the Origin of Complexity complemented the program This course was the best attended in the almost 30 year history of the School with 121 participants from 22 countries The program provided a rich ex rience both introductory and advanced to fascinating areas of observational Astrophysics Neutrino Astronomy High Energy Gamma Ray Astronomy P ticle Astrophysics and the objects most likely responsible for the signals plosions and related phenomena ranging from Supernovae to Black Holes to the Big Bang Contained in this NATO Science Series volume is a summative formulation of the physics and astrophysics of this newly emerging research area that already has been and will continue to be an important contributor to understanding our high energy universe **Supersymmetry, Supergravity, and Unification** Pran Nath, 2017 This book offers a comprehensive discussion of developments at the interface of particle physics supergravity and cosmology for graduates and researchers

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