

GRAVITATION, QUANTUM FIELDS AND SUPERSTRINGS

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World Scientific

Gravitation Quantum Fields And Superstrings

**Piravonu Mathews Mathews,G.
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Gravitation Quantum Fields And Superstrings:

Gravitation, Quantum Fields and Superstrings ,1988

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Gravitation, Quantum Fields and Superstrings

Quantum Field Theory II Edouard B.

Manoukian,2016-09-26 This book takes a pedagogical approach to explaining quantum gravity supersymmetry and string theory in a coherent way It is aimed at graduate students and researchers in quantum field theory and high energy physics The first part of the book introduces quantum gravity without requiring previous knowledge of general relativity GR The necessary geometrical aspects are derived afresh leading to explicit general Lagrangians for gravity including that of general relativity The quantum aspect of gravitation as described by the graviton is introduced and perturbative quantum GR is discussed The Schwinger DeWitt formalism is developed to compute the one loop contribution to the theory and renormalizability aspects of the perturbative theory are also discussed This follows by introducing only the very basics of a non perturbative background independent formulation of quantum gravity referred to as loop quantum gravity which gives rise to a quantization of space In the second part the author introduces supersymmetry and its consequences The generation of superfields is represented in detail Supersymmetric generalizations of Maxwell s Theory as well as of Yang Mills field theory and of the standard model are worked out Spontaneous symmetry breaking improvement of the divergence problem in supersymmetric field theory and its role in the hierarchy problem are covered The unification of the fundamental constants in a supersymmetric version of the standard model are then studied Geometrical aspects necessary to study supergravity are developed culminating in the derivation of its full action The third part introduces string theory and the analysis of the spectra of the mass squared operator associated with the oscillating strings The properties of the underlying fields associated with massless particles encountered in string theory are studied in some detail Elements of compactification duality and D branes are given as well of the generation of vertices and interactions of strings In the final sections the author shows how to recover GR and the Yang Mills field Theory from string theory *Superstrings, P-branes and M-theory* , **Superstrings**

P. C. W. Davies,Julian Brown,1992-07-31 Superstring theory is one of the most exciting and actively pursued branches of physics today The far reaching claims made for this theory would if correct provide the much sought after Theory of Everything the unification of physics It would enable the fundamental building blocks of matter to be identified and amalgamated in a common description with a unified theory of all the forces of nature This book explains the theory for laymen in an introduction to the subject which originated in the BBC Radio programme Desperately Seeking Superstrings A clear concise non mathematical explanation of the theory and its profound implications is followed by transcripts of interviews with all the most important physicists involved in its development Superstrings makes a fascinating topic at the forefront of modern scientific research accessible to physicists philosophers and general readers alike Superstrings and Related Matters C. Bachas,2001 In this volume topics such as the AdS CFT correspondence non BPS states noncommutative

gauge theories and the Randall Sundrum scenario are discussed For the AdS CFT correspondence some of its generalizations including examples of non AdS nonconformal backgrounds are described Myer s effect in this context and otherwise is also treated Recent results in the context of non BPS states are reviewed in particular the use of open string field theory in understanding the related problem of tachyon condensation Instantons and solitons in noncommutative gauge theories are described as are various issues in the framework of the Randall Sundrum scenario

Gravitation, Gauge Theories and the Early Universe B.R. Iyer,N. Mukunda,C.V. Vishveshwara,2012-12-06 This book evolved out of some one hundred lectures given by twenty experts at a special instructional conference sponsored by the University Grants Commis sion India It is pedagogical in style and self contained in several interrelated areas of physics which have become extremely important in present day theoretical research The articles begin with an introduction to general relativity and cosmology as well as particle physics and quantum field theory This is followed by reviews of the standard gauge models of high energy physics renormalization group and grand unified theories The concluding parts of the book comprise discussions in current research topics such as problems of the early universe quantum cosmology and the new directions towards a unification of gravitation with other forces In addition special concise treatments of mathematical topics of direct relevance are also included The content of the book was carefully worked out for the mutual education of students and research workers in general relativity and particle physics This ambitious programe consequently necessitated the involvement of a number of different authors However care has been taken to ensure that the material meshes into a unified cogent and readable book We hope that the book will serve to initiate and guide a student in these different areas of investigation starting from first principles and leading to the exciting current research problems of an interdisciplinary nature in the context of the origin and structure of the universe

Strings '90 - Proceedings Of The 4th International Superstring Workshop Michael James Duff,R Arnowitt,Dimitri V Nanopoulos,Christopher N Pope,Ergin Sezgin,R Bryan,1991-03-29 Some topics covered during the workshop include String Theory Conformal Field Theory Physics in 2 1 Dimensions String Phenomenology and Quantum Cosmology

The Time Travel Handbook David Hatcher Childress,1999 An authoritative chronicling of real life time travel experiments teleportation devices and more

Quarks and Leptons From Orbifolded Superstring Kang-Sin Choi,Jihn E. Kim,2006-05-23 This book offers a detailed guide on the journey towards the minimal supersymmetric standard model down the orbifold road It takes the viewpoint that the chirality of matter fermions is an essential aspect that orbifold compactification allows to derive from higher dimensional string theories in a straightforward manner Halfway between textbook and tutorial review the book is intended for the graduate student and particle phenomenologist wishing to get acquainted with this field

Superstrings: The First 15 Years Of Superstring Theory (Reprints + Commentary - In 2 Volumes) John H Schwarz,1985-09-01 The discovery by Green and Schwarz in 1984 that ten dimensional superstring theory is anomaly free and finite only if the Yang Mills gauge group is $SO\ 32$ or $E_8 \times E_8$ has made the phenomenological possibilities

of superstrings evident This has resulted in a sudden surge of interest in superstrings unification Since this fast developing field is new to almost all theoretical physicist this collection of basic pre 1985 references should be very valuable This two volumes contain over 1000 pages of reprints plus some introductory comments by J Schwarz **Superstrings and Other Things** Carlos I. Calle, 2020-04-23 Continuing to take readers on a uniquely accessible journey through physics Superstrings and Other Things A Guide to Physics Third Edition explains the basic concepts of motion energy and gravity right up to the latest theories about the structure of matter the origin and structure of the universe and the beginning of time Fully updated throughout this book explores major historical discoveries and the scientists behind them In addition this comprehensive text details the breathtaking frontiers of physics being explored today Offering nonscience students access to the highest peaks of physics Dr Calle translates concepts so they can be appreciated by those with willing curiosity and imagination Features Provides up to date coverage of modern physics Offers nonscience students and laymen access to the highest peaks of physics Showcases modern applications of physics in our everyday world *Proceedings of the Fourth Seminar on Quantum Gravity, May 25-29, 1987, Moscow, USSR* Moiseĭ Aleksandrovich Markov, 1988 The Scalar-Tensor Theory of Gravitation Yasunori Fujii, Kei-ichi Maeda, 2003-01-02 A pedagogical overview of the theoretical ideas behind the cosmological constant problem in particular the scalar tensor theory which is one of the most popular alternative theories of gravitation Covering many developments in the field including branes and quintessence it will be an invaluable resource for graduate students and researchers alike *General Relativity and Gravitation 1992, Proceedings of the Thirteenth INT Conference on General Relativity and Gravitation, held at Cordoba, Argentina, 28 June - July 4 1992* R.J. Gleiser, C.N. Kozameh, O.M. Moreschi, 1993-01-01 General Relativity and Gravitation 1992 contains the best of 700 papers presented at the tri annual INT conference generally recognized as the key conference in the area The plenary and invited papers are published in full along with summaries of parallel symposia and workshops The list of plenary speakers is as impressive as ever with contributions from Jim Hartle Roger Penrose and Lee Smolin among many others *From Superstrings To Supergravity - Proceedings Of The 26th Workshop Of The Eloisatron Project* Michael James Duff, Sergio Ferrara, R R Khuri, 1994-03-28 The success of the standard model in explaining low energy 100GeV physics within the framework of spontaneously broken Yang Mills theory has given physicists the hope that the Einstein dream of a unified theory of fundamental interactions might be achieved using geometrical methods of local symmetry principles supplemented by consistency requirements such as renormalization unitarity and most crucially compatibility with present low energy data Merging these principles with the quantum mechanical notions of spin and statistics led physicists further to develop new theories in the last fifteen years for which the gauge symmetry principle is extended to incorporate supersymmetry and relativistic extended objects the most famous example being superstrings propagating in curved space time and having supergravity as their effective field theory The proceedings represent the latest highlights in the field reported on by active researchers working in this particular area in

addition to discussions on future perspectives *Superstrings, Supergravity And Unified Theories - Proceedings Of The Summer Workshop In High Energy Physics And Cosmology* Giuseppe Furlan,Jogesh C Pati,Qaisar Shafi,R Jengo,Dennis Sciama,1986-03-01 *Superstring Theory* Michael B. Green,John H. Schwarz,Edward Witten,2012-07-26 A twenty fifth anniversary edition featuring a new preface invaluable for graduate students and researchers in general relativity and elementary particle theory *Gravitational Solitons* V. Belinski,E. Verdaguer,2001-07-19 This 2001 book gives a self contained exposition of the theory of gravitational solitons and provides a comprehensive review of exact soliton solutions to Einstein s equations The text begins with a detailed discussion of the extension of the Inverse Scattering Method to the theory of gravitation starting with pure gravity and then extending it to the coupling of gravity with the electromagnetic field There follows a systematic review of the gravitational soliton solutions based on their symmetries These solutions include some of the most interesting in gravitational physics such as those describing inhomogeneous cosmological models cylindrical waves the collision of exact gravity waves and the Schwarzschild and Kerr black holes A valuable reference for researchers and graduate students in the fields of general relativity string theory and cosmology this book will also be of interest to mathematical physicists in general *The Weak Interaction in Nuclear, Particle, and Astrophysics* K. Grotz,2020-12-17 This book provides insight into concept of the weak interaction and its integration into the conceptual structure of elementary particle physics It exhibits the important role of the weak interaction in nuclear particle and astrophysics together with the close connection between these areas

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