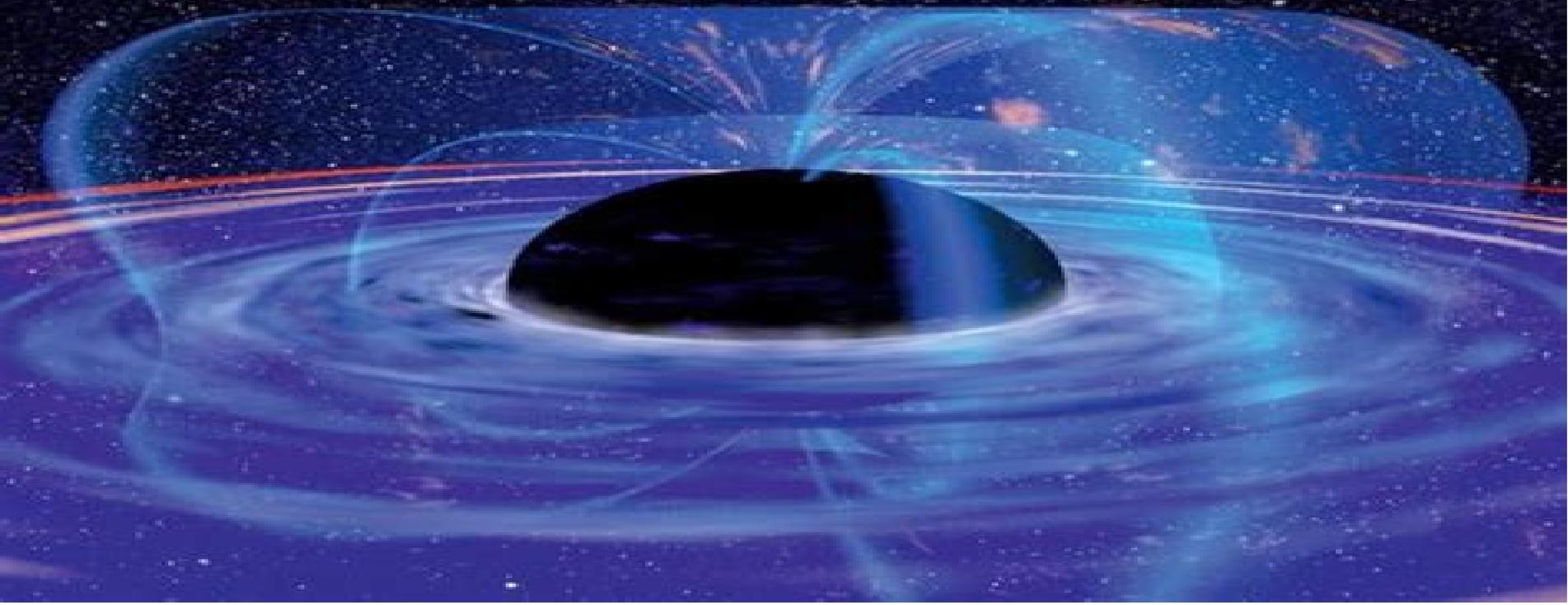


# String Theory Methods for Condensed Matter Physics

HORAȚIU NĂSTASE



# String Theory Methods For Condensed Matter Physics

**Alvaro Ferraz, Kumar S. Gupta, Gordon  
Walter Semenoff, Pasquale Sodano**

## **String Theory Methods For Condensed Matter Physics:**

*String Theory Methods for Condensed Matter Physics* Horatiu Nastase, 2017-09-21 The discovery of a duality between Anti de Sitter spaces AdS and Conformal Field Theories CFT has led to major advances in our understanding of quantum field theory and quantum gravity String theory methods and AdS CFT correspondence maps provide new ways to think about difficult condensed matter problems String theory methods based on the AdS CFT correspondence allow us to transform problems so they have weak interactions and can be solved more easily They can also help map problems to different descriptions for instance mapping the description of a fluid using the Navier Stokes equations to the description of an event horizon of a black hole using Einstein s equations This textbook covers the applications of string theory methods and the mathematics of AdS CFT to areas of condensed matter physics Bridging the gap between string theory and condensed matter this is a valuable textbook for students and researchers in both fields [String Theory and Its Applications](#) Michael Dine, Tom Banks, Subir Sachdev, 2011-09-30 The book is based on lectures given at the TASI summer school of 2010 It aims to provide advanced graduate students postdoctorates and senior researchers with a survey of important topics in particle physics and string theory with special emphasis on applications of methods from string theory and quantum gravity in condensed matter physics and QCD especially heavy ion physics [String Theory in a Nutshell](#) Elias Kiritsis, 2019-04-16 The essential introduction to modern string theory now fully expanded and revised String Theory in a Nutshell is the definitive introduction to modern string theory Written by one of the world s leading authorities on the subject this concise and accessible book starts with basic definitions and guides readers from classic topics to the most exciting frontiers of research today It covers perturbative string theory the unity of string interactions black holes and their microscopic entropy the AdS CFT correspondence and its applications matrix model tools for string theory and more It also includes 600 exercises and serves as a self contained guide to the literature This fully updated edition features an entirely new chapter on flux compactifications in string theory and the chapter on AdS CFT has been substantially expanded by adding many applications to diverse topics In addition the discussion of conformal field theory has been extensively revised to make it more student friendly The essential one volume reference for students and researchers in theoretical high energy physics Now fully expanded and revised Provides expanded coverage of AdS CFT and its applications namely the holographic renormalization group holographic theories for Yang Mills and QCD nonequilibrium thermal physics finite density physics and entanglement entropy Ideal for mathematicians and physicists specializing in theoretical cosmology QCD and novel approaches to condensed matter systems An online illustration package is available to professors [Advances in String Theory](#) Eric R. Sharpe, 2008 Over the past decade string theory has had an increasing impact on many areas of physics high energy and hadronic physics gravitation and cosmology mathematical physics and even condensed matter physics The impact has been through many major conceptual and methodological developments in quantum field theory in the past fifteen years In

addition string theory has exerted a dramatic influence on developments in contemporary mathematics including Gromov Witten theory mirror symmetry in complex and symplectic geometry and important ramifications in enumerative geometry This volume is der *Everything is Now* Bill Spence,2020-10-27 This engaging and beautifully written book gives an authoritative but accessible account of some of the most exciting and unexpected recent developments in theoretical physics Professor Lionel J Mason Mathematical Institute University of Oxford String theory is often paraded as a theory of everything but there are a large number of untold stories in which string theory gives us insight into other areas of physics Here Bill Spence does an excellent job of explaining the deep connections between string theory particle physics and the novel way of viewing space and time Professor David Tong Department of Applied Mathematics and Theoretical Physics University of Cambridge Foremost amongst Nature s closest guarded secrets is how to unite Einstein s theory of gravity with quantum theory thereby creating a quantum space time This problem has been unsolved now for more than a century with the standard methods of physics making little headway It is clear that much more radical ideas are needed and our front line researchers are showing that string theory provides these This book describes these extraordinary developments which are helping us to think in entirely new ways about how physical reality may be structured at its deepest level Amongst these ideas are that Everything can happen at the same time it is all Now Hidden spaces large and small are everywhere amongst us The basic objects are membranes that behave like soap bubbles and can explore the shape of spacetime in new ways We are holographic projections from higher dimensions You can take the square root of gravity Ideas from the ancient Greeks are resurfacing in a beautiful new form And the very latest work shows that staying positive is essential The book is aimed at a general audience using analogies diagrams and simple examples throughout It is intended as a brief tour enabling the reader to become aware of the main ideas and recent work A full list of further resources is supplied Bill Spence is the founding Director of the Centre for Research in String Theory at Queen Mary University of London He has worked on string theory for over three decades *Bang to Eternity and Betwixt* John Hussey,2014-07-31 Covering the Cosmos from before the Big Bang through to the creation of our universe and up to but not including our arrival on stage our will is not yet imposed we had no hand act nor part in its provisions beyond investigating to understand what has been delivered us The many aspects of the Cosmos are melded in a headline driven style to paint a cohesive picture as well as allowing the reader choose to delve further where they may choose to paint their personal picture Cosmos includes The creation mechanism for our Universe and why there exists a possible Multiverse The creation mechanisms of the galaxies with their diversity of Star types The space exploration of our Solar System The Earth and Moon from their birth to their life driving engines for our planet The evolutionary processes that led to our arrival on the planet Our natural world with its great events Documentary video links on all topics of the book are included The story is factual in manner in the proper tradition of reporting no personal opinions are expressed The life stories of the standout personalities in text and video without whom what is now

known could not have been unraveled in the case of Cosmos they are Galileo Galilei Isaac Newton Albert Einstein Charles Darwin This is a Video Book vBook beyond its text there are 150 video titles 100 viewing hours downloaded and stored locally on your computer to be able to watch anytime offline without the need for local internet connection Google Cosmos and you get about 27 800 000 search results so over these last several years I ve searched out the best documentary videos with their hyperlinks included here blending their content to report cohesively supplementing where appropriate from Wikipedia and also include those hyperlinks for readers wanting to delve further The List of Contents runs to 6 levels to provide a form of map to the reader as the reporting sequence is not a mere chronology of Cosmic events it delves as necessary into the stories as to how the events became understood to us There is a 7th level hyperlinked at its base which brings further background content from Wikipedia to those who choose to read further into any of the topics The Index allows navigation for the reader who has specific interests to investigate through the fabric of the report The Text is structured to 4 levels beginning with the primary headline driven main body content followed by relevant Wikipedia extracts indented in purple for those choosing to read further into a particular topic through to hyperlinked Wikipedia Full Article text within the book and in turn out to the website itself For the reader that wants to stay with the big picture main body content there is a Skip link to take you past each of the extracts on to the next headline title and main body content There are 150 video content links delivering 100 hours of viewing time of the best documentary film available online The main sequence structure is Cosmology Universe therefore video content cannot be removed by third party video platform providers such as YouTube DailyMotion Vimeo This Standard Edition streams from these The Cloud Drive Server also allows you conveniently download to your local drive as much video content as you choose to watch offline at a time that best suits you To view or purchase paste the books ASIN B00LEWY5WW into the Kindle Store search box If you ve any queries feel welcome to contact [bangtoeternityandbetwixt@gmail.com](mailto:bangtoeternityandbetwixt@gmail.com)

**Advances in String Theory** Eric R. Sharpe, Arthur Greenspoon, 2008-01-01 Over the past decade string theory has had an increasing impact on many areas of physics high energy and hadronic physics gravitation and cosmology mathematical physics and even condensed matter physics The impact has been through many major conceptual and methodological developments in quantum field theory in the past fifteen years In addition string theory has exerted a dramatic influence on developments in contemporary mathematics including Gromov Witten theory mirror symmetry in complex and symplectic geometry and important ramifications in enumerative geometry This volume is derived from a conference of younger leading practitioners around the common theme What is string theory The talks covered major current topics both mathematical and physical related to string theory Graduate students and research mathematicians interested in string theory in mathematics and physics will be interested in this workshop

**Strongly Coupled Field Theories for Condensed Matter and Quantum Information Theory** Alvaro Ferraz, Kumar S. Gupta, Gordon Walter Semenoff, Pasquale Sodano, 2020-02-29 This book presents a selection of advanced lectures from leading researchers providing recent theoretical

results on strongly coupled quantum field theories It also analyzes their use for describing new quantum states which are physically realizable in condensed matter cold atomic systems as well as artificial materials It particularly focuses on the engineering of these states in quantum devices and novel materials useful for quantum information processing The book offers graduate students and young researchers in the field of modern condensed matter theory an updated review of the most relevant theoretical methods used in strongly coupled field theory and string theory It also provides the tools for understanding their relevance in describing the emergence of new quantum states in a variety of physical settings Specifically this proceedings book summarizes new and previously unrelated developments in modern condensed matter physics in particular the interface of condensed matter theory and quantum information theory the interface of condensed matter physics and the mathematics emerging from the classification of the topological phases of matter such as topological insulators and topological superconductors and the simulation of condensed matter systems with cold atoms in optical lattices

Introduction to Quantum Field Theory Horatiu Nastase, 2019-10-17 A comprehensive graduate level textbook introducing quantum field theory giving equal emphasis to operator and path integral formalisms

String Cosmology Johanna Erdmenger, 2009-07-14 This relatively new field applies equations from string theory to solve the questions of early cosmology since the standard picture of our universe emerging from a big bang leaves many fundamental issues unanswered String theory on the other hand postulates that fundamental ingredients of nature are not zero dimensional point particles but tiny one dimensional filaments This theory harmoniously unites quantum mechanics and general relativity the previously known laws of the small and the large which are otherwise incompatible The field of string cosmology has matured considerably over the past few years attracting many new adherents Due to the multidisciplinary nature of the topic it is difficult for practitioners to be conversant with all the many different aspects This book thus fills a huge gap by bringing together all the different strains of research into one single volume The resulting collection of selected articles presents the latest ongoing results from renowned experts currently working in the field From the contents Introduction to Cosmology and String Theory String Inflation Brane Inflation and Inflation from Moduli Cosmic Superstrings The CMB as a Possible Probe of String Theory String Gas Cosmology Gauge gravity Duality and String Cosmology Heterotic M theory and C A welcome addition to the literature for graduate students students in astronomy astronomers mathematicians and theoretical physicists

Strings and Fundamental Physics Marco Baumgartl, Ilka Brunner, Michael Haack, 2012-04-05 The basic idea simple and revolutionary at the same time to replace the concept of a point particle with a one dimensional string has opened up a whole new field of research Even today four decades later its multifaceted consequences are still not fully conceivable Up to now string theory has offered a new way to view each particle as different excitations of the same fundamental object It has celebrated success in discovering the graviton in its spectrum and it has naturally led scientists to posit space times with more than four dimensions which in turn has triggered numerous interesting developments in fields as varied as

condensed matter physics and pure mathematics This book collects pedagogical lectures by leading experts in string theory introducing the non specialist reader to some of the newest developments in the field The carefully selected topics are at the cutting edge of research in string theory and include new developments in topological strings or AdS CFT dualities as well as newly emerging subfields such as doubled field theory and holography in the hydrodynamic regime The contributions to this book have been selected and arranged in such a way as to form a self contained graduate level textbook **Topological and Quantum Group Methods in Field Theory and Condensed Matter Physics** Maurizio Martellini, Mario Rasetti, 1992

**The Oxford Handbook of Archaeology and Language** Martine Robbeets, Research Group Leader Language and the Anthropocene Research Group Martine Robbeets, Mark Hudson, Researcher Language and the Anthropocene Research Group Mark Hudson, 2025-06-26 This volume provides a comprehensive and up to date overview of how archaeology genes and language can be combined to shed light on the human past It illustrates the extent to which linguistic archaeological and genetic histories align or differ and sheds light on language dynamics from multiple perspectives The Philosophy and Physics of Duality Sebastian De Haro, Jeremy Butterfield, 2025-07-09 The Philosophy and Physics of Duality discusses what dualities are and the philosophical questions that they raise This book also examines the main examples of duality from quantum mechanics and electrodynamics to statistical mechanics quantum field theory and string theory Part I conceptualizes dualities and discusses their main roles and themes including how they are related to familiar notions like symmetry and interpretation It then goes through the main simple examples of dualities position momentum wave particle electric magnetic and Kramers Wannier dualities Part II discusses advanced examples and their inter relations particle soliton dualities electric magnetic dualities in quantum field theories dualities in string theory and gauge gravity duality Part III offers an in depth exploration of the general philosophical issues onto which dualities bear theoretical equivalence scientific realism and the under determination of theories by data theory succession and the M theory programme explanation and scientific understanding Finally Sebastian De Haro and Jeremy Butterfield propose a view of scientific theories in this book they call their account the geometric view of theories This is an open access title available under the terms of a CC BY NC ND 4 0 International licence It is free to read on the Oxford Academic platform and offered as a free PDF download from OUP and selected open access locations Quantum Theory and Symmetries M. B. Paranjape, Richard MacKenzie, Zora Thomova, Pavel Winternitz, William Witczak-Krempa, 2021-03-26 This volume of the CRM Conference Series is based on a carefully refereed selection of contributions presented at the 11th International Symposium on Quantum Theory and Symmetries held in Montr al Canada from July 1 5 2019 The main objective of the meeting was to share and make accessible new research and recent results in several branches of Theoretical and Mathematical Physics including Algebraic Methods Condensed Matter Physics Cosmology and Gravitation Integrability Non perturbative Quantum Field Theory Particle Physics Quantum Computing and Quantum Information Theory and String ADS CFT There was also a special session in

honour of Decio Levi The volume is divided into sections corresponding to the sessions held during the symposium allowing the reader to appreciate both the homogeneity and the diversity of mathematical tools that have been applied in these subject areas Several of the plenary speakers who are internationally recognized experts in their fields have contributed reviews of the main topics to complement the original contributions **Science** John Michels (Journalist),2009 Since Jan 1901 the official proceedings and most of the papers of the American Association for the Advancement of Science have been included in **Science** **Journal of the Physical Society of Japan** ,2016 Solitons in the 0(3) Non-linear Sigma Model Purushotham Voruganti,1989 Cornell University Courses of Study Cornell University,2002 General physics, relativity, astronomy and mathematical physics and methods ,2004

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