

# Gauge/Gravity Duality

Foundations and Applications

Martin Ammon Johanna Erdmenger

# **Gaugegravity Duality Foundations And Applications**

**Julien Barrat** 

#### **Gaugegravity Duality Foundations And Applications:**

Gauge/Gravity Duality Martin Ammon, Johanna Erdmenger, 2015-04-09 Gauge gravity duality creates new links between quantum theory and gravity It has led to new concepts in mathematics and physics and provides new tools to solve problems in many areas of theoretical physics. This book is the first textbook on this important topic enabling graduate students and researchers in string theory and particle nuclear and condensed matter physics to get acquainted with the subject Focusing on the fundamental aspects as well as on the applications this textbook guides readers through a thorough explanation of the central concepts of gauge gravity duality For the AdS CFT correspondence it explains in detail how string theory provides the conjectured map Generalisations to less symmetric cases of gauge gravity duality and their applications are then presented in particular to finite temperature and density hydrodynamics QCD like theories the quark gluon plasma and condensed matter systems. The textbook features a large number of exercises with solutions available online at www.cambridge.org 9781107010345 Gauge/gravity Duality Martin Ammon, Johanna Erdmenger, 2015 **Applications of the** Gauge/Gravity Duality Jonas Probst, 2018-06-28 Many open questions in Theoretical Physics pertain to strongly interacting quantum systems such as the quark gluon plasma QGP produced in heavy ion collisions or the strange metal phase observed in many high temperature superconductors These systems are notoriously difficult to study using traditional methods such as perturbation theory but the gauge gravity duality offers a successful alternative approach which maps strongly interacting quantum gauge theories to computationally tractable classical gravity theories This book begins with a pedagogical introduction to how the duality can be used to extract transport properties of quantum systems from their gravity dual It then presents new results on hydrodynamic transport in strongly interacting quantum fluids providing strong evidence that the Haack Yarom identity between second order transport coefficients holds for all fluids with a classical gravity dual and may be a universal feature of all strongly coupled quantum fluids such as the QGP Newly derived Kubo formulae expressing transport coefficients in terms of quantum correlators hold independently of the duality Lastly the book discusses new results on magnetic impurities in strongly correlated metals including the first dual gravity description of an inter impurity coupling crucial for the quantum criticality underlying the strange metal phase Applications of the Gauge/gravity Duality **Applied Holography** Matteo Baggioli, 2019-11-30 This primer is a collection of notes based on Abhinav Nellore, 2010 lectures that were originally given at IIT Madras India and at IFT Madrid Spain It is a concise and pragmatic course on applied holography focusing on the basic analytic and numerical techniques involved The presented lectures are not intended to provide all the fundamental theoretical background which can be found in the available literature but they concentrate on concrete applications of AdS CFT to hydrodynamics quantum chromodynamics and condensed matter The idea is to accompany the reader step by step through the various benchmark examples with a classmate attitude providing details for the computations and open source numerical codes in Mathematica and sharing simple tricks and warnings collected during

the author's research experience At the end of this path the reader will be in possess of all the fundamental skills and tools to learn by him herself more advanced techniques and to produce independent and novel research in the field Applications of the Gauge/gravity Duality Fernández Moreno Fernández, Enric Verdaguer Oms, Universitat de Barcelona. Departament de Física Fonamental, 2013 Holographic Entanglement Entropy Mukund Rangamani, Tadashi Takayanagi, 2017-05-08 This book provides a comprehensive overview of developments in the field of holographic entanglement entropy Within the context of the AdS CFT correspondence it is shown how quantum entanglement is computed by the area of certain extremal surfaces The general lessons one can learn from this connection are drawn out for quantum field theories many body physics and quantum gravity An overview of the necessary background material is provided together with a flavor of the exciting open questions that are currently being discussed The book is divided into four main parts In the first part the concept of entanglement and methods for computing it in quantum field theories is reviewed In the second part an overview of the AdS CFT correspondence is given and the holographic entanglement entropy prescription is explained In the third part the time dependence of entanglement entropy in out of equilibrium systems and applications to many body physics are explored using holographic methods. The last part focuses on the connection between entanglement and geometry Known constraints on the holographic map as well as elaboration of entanglement being a fundamental building block of geometry are explained The book is a useful resource for researchers and graduate students interested in string theory and holography condensed matter and quantum information as it tries to connect these different subjects linked by the common theme of quantum entanglement

<u>Line Defects in Conformal Field Theory Julien</u> Barrat, 2025-01-02 This book investigates conformal line defects in both the weak and strong coupling regimes Conformal field theory finds applications across diverse fields from statistical systems at criticality to quantum gravity through the AdS CFT correspondence These theories are subject to strong constraints enabling a systematic non perturbative analysis Conformal defects provide a controlled means of breaking the symmetry introducing new physical phenomena while preserving crucial benefits of the underlying conformal symmetry Two distinct classes of models are studied First we focus on the supersymmetric Wilson line in N 4 Super Yang Mills which serves as an ideal testing ground for the development of innovative techniques such as the analytic conformal bootstrap The second class consists of magnetic lines in Yukawa models which have fascinating applications in 3d condensed matter systems. These systems have the potential to emulate phenomena observed in the Standard Model in a low energy setting Handbook of Quantum Gravity Cosimo Bambi, Leonardo Modesto, Ilya Shapiro, 2024-12-03 The search for a theory of quantum gravity is one of the most important and fascinating problems in modern theoretical physics While we do not have yet a complete theory of quantum gravity significant advancements have been done in the past decades In this handbook every section is dedicated to a specific approach towards a theory of quantum gravity and is edited by the leading experts in the field This book represents both a valuable resource for

graduate students and an important reference for researchers in quantum gravity **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 100 Years of Fundamental Theoretical Physics in the Palm of Your Hand E. B. Manoukian, 2020-10-20 This book lattices aims to integrate in a pedagogical and technical manner with detailed derivations all essential principles of fundamental theoretical physics as developed over the past 100 years It covers Quantum physics and Stability Problems in the Quantum World Minkowski Spacetime Physics Particle Classifications and Underlying Symmetries Symmetry Violations Quantum Field Theory of Particle Interactions Higgs Field Physics Supersymmetry A Theory with Mathematical Beauty Superstrings Gravity and Supergravity General Relativity Predictions including Frame Dragging Intricacies of Black Hole Physics Perturbative and Non perturbative Quantum Gravity Intricacies of Modern Cosmology including Inflation and Power Spectrum If you are in the process of learning or are lecturing on any of the subjects above then this is your book irrespective of your specialty With over specialization and no time to master all the fields given above students and perhaps many physicists may find it difficult to keep up with all the exciting developments going on and are even less familiar with their underlying technicalities e g they might have heard that the Universe is 13 8 billion years old but have no idea on how this number is actually computed This unique book will be of great value to graduate students instructors and researchers interested in the intricacies and derivations of the many aspects of modern fundamental theoretical physics And although a graduate level book some chapters may also be suitable for advanced undergraduates in their final year 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 OCD 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 **Lectures on Particle** Physics, Astrophysics and Cosmology Carlos Merino, 2014-12-22 This volume gathers the content of the courses held at the Third IDPASC School which took place in San Marti o Pinario Hospederia and Seminario Maior in the city of Santiago de Compostela Galiza Spain from January 21st to February 2nd 2013 This school is the annual joint program of the International Doctorate Network in Particle Physics Astrophysics and Cosmology IDPASC The purpose of the school series is to present doctoral students from different universities and laboratories in Europe and beyond with a broad range of the latest results and current state of the art in the fields of Particle Physics Astrophysics and Cosmology and to further introduce them to both the guestions now posed by the potentials of physics and to challenges connected with current and future experiments in particular with the newly available energy ranges Following these guidelines the content of this third edition of the IDPASC School was jointly planned by the Academic Council and by the network's International Committee whose members ensure every year its timely formulation keeping up with the constant evolution of these fields The program covers a balanced range of the latest developments in these fields worldwide with courses offered by internationally acknowledged physicists on the Basic Features of Hadronic Processes Quantum Chromodynamics Physics and Technology of ALICE LHCb Physics Parity Violation the Higgs System in and beyond the Standard Model Higgs Searches at the LHC Theory and Experiments with Cosmic Rays Numerical Methods and Data Analysis in Particle Physics Theoretical Cosmology and AdS CFT Correspondence *Various Applications of the Gauge/gravity* Most of these courses were complemented by practical and discussion sessions Duality Oded Mintakevich, 2008 **Applications of the Gauge/gravity Duality** Kevin Robert Leslie Whyte, 2013

Gauge-gravity Duality and Its Applications to Cosomology and Fluid Dynamics Jae-Hyuk Oh,2011

**Applications of Gauge/gravity Duality** Ann-Kathrin Straub,2017 Applications of Gauge/gravity Duality to QCD and Heavy Ion Collisions Touko Tahkokallio,Fysiikan tutkimuslaitos,2008 Topics in Gauge/gravity Duality Juan I. Jottar Awad,2011 Over the past 14 years the Anti de Sitter AdS Conformal Field Theory CFT correspondence and its generalization

in the ideas of gauge gravity duality have had a profound impact in our understanding of strongly interacting quantum field theories Roughly speaking the correspondence maps the degrees of freedom of a d dimensional quantum field theory in the strong coupling regime to weakly coupled string theory gravity or supergravity on a d 1 dimensional bulk spacetime enabling one to extract interesting information about the field theory spectrum and dynamics by performing relatively simple semi classical calculations using standard general relativity techniques Although much of the original progress in the field was driven by applications to formal supersymmetric gauge theory or by the desire to construct gravitational systems whose field theory duals resemble different phases of Quantum Chromodynamics QCD in recent years the scope of the AdS CFT correspondence has grown to encompass interesting systems in condensed matter and atomic physics including phenomena such as superconductivity and superfluidity non relativistic scale invariance quantum criticality and others In this thesis we present several applications of gauge gravity duality techniques to the study of such systems some of them from a phenomenological perspective where an textit ad hoc gravitational theory is devised to model particular phenomena and some from a string theoretical perspective where the gravitational system is embedded in the framework of string or M theory In particular we describe studies of quantum criticality in 2 1 dimensional field theories at finite charge density via extremal four dimensional black holes the modeling of systems with non relativistic scale invariance and broken time translation invariance Aging phenomena and the coupling of fermions to holographic superconductors in 2 1 and 3 1 dimensions from explicit embeddings in type IIB string theory and M theory **Proceedings in Print** ,1996

#### Gaugegravity Duality Foundations And Applications Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "Gaugegravity Duality Foundations And Applications," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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