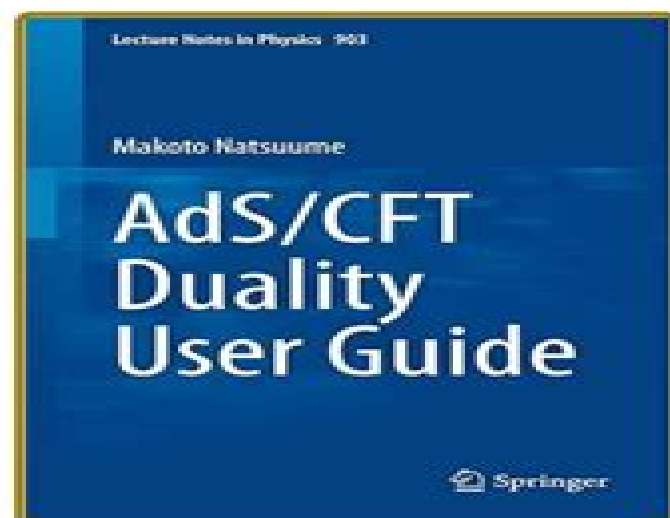


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Parameswaran Nair, 2017-11-03 The 2013 discovery of the Higgs boson posed a challenge to both physics undergraduates and their instructors Since particle physics is seldom taught at the undergraduate level the question what is the Higgs and why does its discovery matter is a common question among undergraduates Equally answering this question is a problem for physics instructors This book is an attempt to put the key concepts of particle physics together in an appealing way and yet give enough extra tidbits for students seriously considering graduate studies in particle physics It starts with some recapitulation of relativity and quantum mechanics and then builds on it to give both conceptual ideas regarding the Standard Model of particle physics as well as technical details It is presented in an informal lecture style and includes remarks sections where extra material history or technical details are presented for the interested student The last lecture presents an assessment of the open questions and where the future might take us

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Tristan Hubsch, 2024-12-17 Calabi Yau spaces are complex spaces with a vanishing first Chern class or equivalently with a trivial canonical bundle sheaf so they admit a Ricci flat Kähler metric that satisfies the vacuum Einstein equations Used to construct possibly realistic super string models they are being studied vigorously by physicists and mathematicians alike Calabi Yau spaces have also turned up in computations of probability amplitudes in quantum field theory This book collects and reviews relevant results on several major techniques of 1 constructing such spaces and 2 computing physically relevant quantities such as spectra of massless fields and their Yukawa interactions These are amended by 3 stringy corrections and 4 results about the moduli space and its geometry including a preliminary discussion of the still conjectural universal deformation space It also contains a lexicon of assorted terms and important results and theorems which can be used independently The first edition of Calabi Yau Manifolds A Bestiary for Physicists was the first systematic

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Tensor Network Contractions Shi-Ju Ran, Emanuele Tirrito, Cheng Peng, Xi Chen, Luca Tagliacozzo, Gang Su, Maciej Lewenstein, 2020-01-27 Tensor network is a fundamental mathematical tool with a huge range of applications in physics such as condensed matter physics statistic physics high energy physics and quantum information sciences This open access book aims to explain the tensor network contraction approaches in a systematic way from the basic definitions to the important applications This book is also useful to those who apply tensor networks in areas beyond physics such as machine learning and the big data analysis Tensor network originates from the numerical renormalization group approach proposed by K G Wilson in 1975 Through a rapid development in the last two decades tensor network has become a powerful numerical tool that can efficiently simulate a wide range of scientific problems with particular success in quantum many body physics Varieties of tensor network algorithms have been proposed for different problems However the connections among different algorithms are not well discussed or reviewed To fill this gap this book explains the fundamental concepts and basic ideas that connect and or unify different strategies of the tensor network contraction algorithms In addition some of the recent progresses in dealing with tensor decomposition techniques and quantum simulations are also represented in this book to help the readers to better understand tensor network This open access book is intended for graduated students but can also be used as a professional book for researchers in the related fields To understand most of the contents in the book only basic knowledge of quantum mechanics and linear algebra is required In order to fully understand some advanced parts the reader will need to be familiar with notion of condensed matter physics and quantum information that however are not necessary to understand the main parts of the book This book is a good source for non specialists on quantum physics to understand tensor network algorithms and the related mathematics

Condensed Matter Applications of AdS/CFT Andrea Amoretti, 2017-07-09 The book deals with applications of the AdS CFT correspondence to strongly coupled condensed matter systems In particular it concerns with the study of thermo electric transport properties of holographic models exhibiting momentum dissipation and their possible applications to the transport properties of strange metals The present volume constitutes one of the few examples in the literature in which the topic is carefully reviewed both from the experimental and theoretical point of view including not only holographic results but also standard condensed matter achievements developed in the past decades This work might be extremely useful

both for scientific and pedagogical purposes Applied Holography Matteo Baggioli, 2019-11-30 This primer is a collection of notes based on 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 possession 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

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

Integrability: from Statistical Systems to Gauge Theory Patrick Dorey, Gregory Korchemsky, Nikita Nekrasov, Volker Schomerus, Didina Serban, 2019 This volume contains lectures delivered at the Les Houches Summer School Integrability from statistical systems to gauge theory held in June 2016 The School was focussed on applications of integrability to supersymmetric gauge and string theory a subject of high and increasing interest in the mathematical and theoretical physics communities over the past decade Relevant background material was also covered with lecture series introducing the main concepts and techniques relevant to modern approaches to integrability conformal field theory scattering amplitudes and gauge string duality The book will be useful not only to those working directly on integrability in string and gauge theories but also to researchers in related areas of condensed matter physics and statistical

mechanics **Universal Quantum Computing: Supervening Decoherence - Surmounting Uncertainty** Richard L Amoroso, 2017-01-23 This breakthrough volume touts having dissolved the remaining barriers to implementing Bulk Universal Quantum Computing UQC and as such most likely describes the most advanced QC development platform Numerous books hundreds of patents thousands of papers and a Googolplex of considerations fill the pantheon of QC R but by what chimeric definition Does flipping a few qubits in a logic gate without an algorithm qualify as quantum computing In physics theory bears little weight without rigorous experimental confirmation less if new radical or a paradigm shift This volume develops quantum computing based on 3rd regime physics of Unified Field Mechanics UFM What distinguishes this work from a myriad of other avenues to UQC under study Virtually all R since it is based on principles of UFM the Uncertainty Principle and Decoherence no longer apply Thus this QC model could be implemented on any other quantum platform **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

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