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Editors

LECTURE NOTES IN PHYSICS 807

New Paths Towards Quantum Gravity



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New Paths Towards Quantum Gravity Lecture Notes In Physics

Minjie Lin



New Paths Towards Quantum Gravity Lecture Notes In Physics:

New Paths Towards Quantum Gravity Bernhelm Booß-Bavnbek, Maria Rosaria D'Esposito, Matthias Lesch, 2010-06-04
Aside from the obvious statement that it should be a theory capable of unifying general relativity and quantum field theory not much is known about the true nature of quantum gravity New ideas and there are many of them for this is an exciting field of research often diverge to a degree where it seems impossible to decide in which of the many possible directions the ongoing developments should be further sustained The division of the book in two overlapping parts reflects the duality between the physical vision and the mathematical construction The former is represented by tutorial reviews on non commutative geometry on space time discretization and renormalization and on gauge field path integrals The latter one by lectures on cohomology on stochastic geometry and on mathematical tools for the effective action in quantum gravity The book will benefit everyone working or entering the field of quantum gravity research [New Paths Towards Quantum Gravity](#) Bernhelm Booß-Bavnbek, Maria Rosaria D'Esposito, Matthias Lesch, 2011-11-23
Aside from the obvious statement that it should be a theory capable of unifying general relativity and quantum field theory not much is known about the true nature of quantum gravity New ideas and there are many of them for this is an exciting field of research often diverge to a degree where it seems impossible to decide in which of the many possible directions the ongoing developments should be further sustained The division of the book in two overlapping parts reflects the duality between the physical vision and the mathematical construction The former is represented by tutorial reviews on non commutative geometry on space time discretization and renormalization and on gauge field path integrals The latter one by lectures on cohomology on stochastic geometry and on mathematical tools for the effective action in quantum gravity The book will benefit everyone working or entering the field of quantum gravity research **Quantum Gravity** Claus Kiefer, 2012-04-05
Quantum theory and Einstein's theory of relativity are at the centre of modern theoretical physics yet the consistent unification of both theories is still elusive This book offers an up to date introduction into the attempts to construct a unified theory of quantum gravity

Quantization, Geometry and Noncommutative Structures in Mathematics and Physics Alexander Cardona, Pedro Morales, Hernán Ocampo, Sylvie Paycha, Andrés F. Reyes Lega, 2017-10-26
This monograph presents various ongoing approaches to the vast topic of quantization which is the process of forming a quantum mechanical system starting from a classical one and discusses their numerous fruitful interactions with mathematics The opening chapter introduces the various forms of quantization and their interactions with each other and with mathematics A first approach to quantization called deformation quantization consists of viewing the Planck constant as a small parameter This approach provides a deformation of the structure of the algebra of classical observables rather than a radical change in the nature of the observables When symmetries come into play deformation quantization needs to be merged with group actions which is presented in chapter 2 by Simone Gutt The noncommutativity arising from quantization is the main concern of noncommutative geometry Allowing

for the presence of symmetries requires working with principal fiber bundles in a non commutative setup where Hopf algebras appear naturally This is the topic of chapter 3 by Christian Kassel Nichols algebras a special type of Hopf algebras are the subject of chapter 4 by Nicol s Andruskiewitsch The purely algebraic approaches given in the previous chapters do not take the geometry of space time into account For this purpose a special treatment using a more geometric point of view is required An approach to field quantization on curved space time with applications to cosmology is presented in chapter 5 in an account of the lectures of Abhay Ashtekar that brings a complementary point of view to non commutativity An alternative quantization procedure is known under the name of string theory In chapter 6 its supersymmetric version is presented Superstrings have drawn the attention of many mathematicians due to its various fruitful interactions with algebraic geometry some of which are described here The remaining chapters discuss further topics as the Batalin Vilkovisky formalism and direct products of spectral triples This volume addresses both physicists and mathematicians and serves as an introduction to ongoing research in very active areas of mathematics and physics at the border line between geometry topology algebra and quantum field theory

Analysis, Geometry and Quantum Field Theory Clara L. Aldana, 2012 This volume contains the proceedings of the conference Analysis Geometry and Quantum Field Theory held at Potsdam University in September 2011 which honored Steve Rosenberg s 60th birthday The papers in this volume cover a wide range of areas including Quantum Field Theory Deformation Quantization Gerbes Loop Spaces Index Theory Determinants of Elliptic Operators K theory Infinite Rank Bundles and Mathematical Biology

Fundamental Physics and Physics Education Research Burra G. Sidharth, Jesús Carnicer Murillo, Marisa Michelini, Carmen Perea, 2020-11-11 This book highlights selected contributions presented at the 15th annual international symposium Frontiers of Fundamental Physics FFP15 with the aim of informing readers about the most important recent advances in fundamental physics and physics education research The FFP series offers a platform for physicists from around the world to present their latest theories and findings The latest symposium was held in Orihuela Spain and covered diverse fields of research including gravitation astronomy and astrophysics physics of complex systems high energy physics and mathematical physics Considerable attention was also paid to physics education research teacher education in physics and the popularization of physics In a knowledge based society research into fundamental physics plays a vital role in both the advancement of human knowledge and the development of new technologies Presenting valuable new peer reviewed contributions submitted from 15 countries this book will appeal to a broad audience of scholars and researchers

Exactly Solvable Models In Many-body Theory Norman H March, Giuseppe G N Angilella, 2016-05-27 The book reviews several theoretical mostly exactly solvable models for selected systems in condensed states of matter including the solid liquid and disordered states and for systems of few or many bodies both with boson fermion or anyon statistics Some attention is devoted to models for quantum liquids including superconductors and superfluids Open problems in relativistic fields and quantum gravity are also briefly reviewed The book

ranges almost comprehensively but concisely across several fields of theoretical physics of matter at various degrees of correlation and at different energy scales with relevance to molecular solid state and liquid state physics as well as to phase transitions particularly for quantum liquids. Mostly exactly solvable models are presented with attention also to their numerical approximation and of course to their relevance for experiments.

Springer Handbook of Spacetime Abhay Ashtekar, Vesselin Petkov, 2014-09-01 The Springer Handbook of Spacetime is dedicated to the ground breaking paradigm shifts embodied in the two relativity theories and describes in detail the profound reshaping of physical sciences they ushered in. It includes in a single volume chapters on foundations on the underlying mathematics on physical and astrophysical implications experimental evidence and cosmological predictions as well as chapters on efforts to unify general relativity and quantum physics. The Handbook can be used as a desk reference by researchers in a wide variety of fields not only by specialists in relativity but also by researchers in related areas that either grew out of or are deeply influenced by the two relativity theories cosmology astronomy and astrophysics high energy physics quantum field theory mathematics and philosophy of science. It should also serve as a valuable resource for graduate students and young researchers entering these areas and for instructors who teach courses on these subjects. The Handbook is divided into six parts: Part A Introduction to Spacetime Structure; Part B Foundational Issues; Part C Spacetime Structure and Mathematics; Part D Confronting Relativity theories with observations; Part E General relativity and the universe; Part F Spacetime beyond Einstein.

The Universal Coefficient Theorem and Quantum Field Theory Andrei-Tudor Patrascu, 2016-09-23 This thesis describes a new connection between algebraic geometry topology number theory and quantum field theory. It offers a pedagogical introduction to algebraic topology allowing readers to rapidly develop basic skills and it also presents original ideas to inspire new research in the quest for dualities. Its ambitious goal is to construct a method based on the universal coefficient theorem for identifying new dualities connecting different domains of quantum field theory. This thesis opens a new area of research in the domain of non perturbative physics one in which the use of different coefficient structures in co homology may lead to previously unknown connections between different regimes of quantum field theories. The origin of dualities is an issue in fundamental physics that continues to puzzle the research community with unexpected results like the AdS/CFT duality or the ER=EPR conjecture. This thesis analyzes these observations from a novel and original point of view mainly based on a fundamental connection between number theory and topology. Beyond its scientific qualities it also offers a pedagogical introduction to advanced mathematics and its connection with physics. This makes it a valuable resource for students in mathematical physics and researchers wanting to gain insights into co homology theories with coefficients or the way in which Grothendieck's work may be connected with physics.

Challenging Routes In Quantum Cosmology Shahram Jalalzadeh, Paulo Vargas Moniz, 2022-07-28 Quantum cosmology has gradually emerged as the focus of devoted research mostly within the second half of last century. As we entered the 21st century the subject is still very much alive. The outcome

of results and templates for investigation have been enlarged some very recent and fascinating Hence this book where the authors bequeath some of their views as they believe this current century is the one where quantum cosmology will be fully accomplished Though some aspects are not discussed namely supersymmetry or loop structures there are perhaps a set of challenges that in the authors opinion remain some since the dawn of quantum mechanics and applications to cosmology Others could have been selected at the readers discretion and opinion The authors put herewith a chart and directions to explore some of which they have worked on or aimed to work more in the twilight of their current efforts Their confidence is that someone will follow in their trails venturing in discovering the proper answer by being able to formulate the right questions beforehand The authors shared foresight is that such discoveries from those formulations will be attained upon endorsing the routes within the challenges herewith indicated

Analogue Gravity Phenomenology Daniele

Faccio, Francesco Belgiorno, Sergio Cacciatori, Vittorio Gorini, Stefano Liberati, Ugo Moschella, 2013-08-13 Analogue Gravity Phenomenology is a collection of contributions that cover a vast range of areas in physics ranging from surface wave propagation in fluids to nonlinear optics The underlying common aspect of all these topics and hence the main focus and perspective from which they are explained here is the attempt to develop analogue models for gravitational systems The original and main motivation of the field is the verification and study of Hawking radiation from a horizon the enabling feature is the possibility to generate horizons in the laboratory with a wide range of physical systems that involve a flow of one kind or another The years around 2010 and onwards witnessed a sudden surge of experimental activity in this expanding field of research However building an expertise in analogue gravity requires the researcher to be equipped with a rather broad range of knowledge and interests The aim of this book is to bring the reader up to date with the latest developments and provide the basic background required in order to appreciate the goals difficulties and success stories in the field of analogue gravity Each chapter of the book treats a different topic explained in detail by the major experts for each specific discipline The first chapters give an overview of black hole spacetimes and Hawking radiation before moving on to describe the large variety of analogue spacetimes that have been proposed and are currently under investigation This introductory part is then followed by an in depth description of what are currently the three most promising analogue spacetime settings namely surface waves in flowing fluids acoustic oscillations in Bose Einstein condensates and electromagnetic waves in nonlinear optics Both theory and experimental endeavours are explained in detail The final chapters refer to other aspects of analogue gravity beyond the study of Hawking radiation such as Lorentz invariance violations and Brownian motion in curved spacetimes before concluding with a return to the origins of the field and a description of the available observational evidence for horizons in astrophysical black holes

Mexican Mathematicians in the World Fernando Galaz-García, Cecilia González-Tokman, Juan Carlos Pardo Millán, 2021-11-22 Articles in this volume are based on presentations given at the IV Meeting of Mexican Mathematicians Abroad IV Reunión de Matemáticos Mexicanos en el Mundo held from June 10-15 2018 at

Casa Matemática Oaxaca CMO Mexico This meeting was the fourth in a series of ongoing biannual meetings bringing together Mexican mathematicians working abroad with their peers in Mexico This book features surveys and research articles from five broad research areas algebra analysis combinatorics geometry and topology Their topics range from general relativity and mathematical physics to interactions between logic and ergodic theory Several articles provide a panoramic view of the fields and problems on which the authors are currently working on showcasing diverse research lines complementary to those currently pursued in Mexico The research oriented manuscripts provide either alternative approaches to well known problems or new advances in active research fields

Бозон Хиггса, квантовые струны и философия физики Игорь Прись, 2021-06-03

M-Theory and Quantum Geometry Lárus Thorlacius, Thordur Jonsson, 2012-12-06 The fundamental structure of matter and spacetime at the shortest length scales remains an exciting frontier of basic research in theoretical physics A unifying theme in this area is the quantization of geometrical objects The majority of lectures at the Advanced Study Institute on Quantum Geometry in Akureyri was on recent advances in superstring theory which is the leading candidate for a unified description of all known elementary particles and interactions The geometric concept of one dimensional extended objects or strings has always been at the core of superstring theory but in recent years the focus has shifted to include also higher dimensional objects so called D branes which play a key role in the non perturbative dynamics of the theory A related development has seen the strong coupling regime of a given string theory identified with the weak coupling regime of what was previously believed to be a different theory and a web of such dualities that interrelates all known superstring theories has emerged The resulting unified theoretical framework termed M theory has evolved at a rapid pace in recent years

Lectures on Quantum Gravity Andres Gomberoff, Donald Marolf, 2006-05-30 The 2002 Pan American Advanced Studies Institute School on Quantum Gravity was held at the Centro de Estudios Científicos CECS Valdivia Chile January 4-14 2002 The school featured lectures by ten speakers and was attended by nearly 70 students from over 14 countries A primary goal was to foster interaction and communication between participants from different cultures both in the layman's sense of the term and in terms of approaches to quantum gravity We hope that the links formed by students and the school will persist throughout their professional lives continuing to promote interaction and the essential exchange of ideas that drives research forward This volume contains improved and updated versions of the lectures given at the School It has been prepared both as a reminder for the participants and so that these pedagogical introductions can be made available to others who were unable to attend We expect them to serve students of all ages well

Quantum Gravity Domenico J. W. Giulini, Claus Kiefer, Claus Lämmerzahl, 2003-09-16 The relation between quantum theory and the theory of gravitation remains one of the most outstanding unresolved issues of modern physics According to general expectation general relativity as well as quantum field theory in a fixed background spacetime cannot be fundamentally correct Hence there should exist a broader theory comprising both in appropriate limits i.e. quantum

gravity This book gives readers a comprehensive introduction accessible to interested non experts to the main issues surrounding the search for quantum gravity These issues relate to fundamental questions concerning the various formalisms of quantization specific questions concerning concrete processes like gravitational collapse or black hole evaporation and the all important question concerning the possibility of experimental tests of quantum gravity effects 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 *Quantum Field Theory and Statistical Mechanics* James Glimm,Arthur Jaffe,2012-12-06 This volume contains a selection of expository articles on quantum field theory and statistical mechanics by James Glimm and Arthur Jaffe They include a solution of the original interacting quantum field equations and a description of the physics which these equations contain Quantum fields were proposed in the late 1920s as the natural framework which combines quantum theory with relativ ity They have survived ever since The mathematical description for quantum theory starts with a Hilbert space H of state vectors Quantum fields are linear operators on this space which satisfy nonlinear wave equations of fundamental physics including coupled Dirac Max well and Yang Mills equations The field operators are restricted to satisfy a locality requirement that they commute or anti commute in the case of fer mions at space like separated points This condition is compatible with finite propagation speed and hence with special relativity Asymptotically these fields converge for large time to linear fields describing free particles Using these ideas a scattering theory had been developed based on the existence of local quantum fields Collected Papers Vol.1: Quantum Field Theory and Statistical Mechanics James Glimm,Arthur Jaffe,1985-01-01 Bibliography 325 Critical point dominance in quantum field models 326 q quantum field model in the single phase regions Differentiability of the mass and bounds on critical exponents 341 Remark on the existence of q 345 On the approach to the critical point 348 Critical exponents and elementary particles 362 V Particle Structure Introduction 371 Bibliography 371 The entropy principle for vertex functions in quantum field models 372 Three particle structure of q 4 interactions and the scaling limit 397 Two and three body equations in quantum field models 409 Particles and scaling for lattice fields and Ising models 437 The resummation of one particle lines 450 VI Bounds on Coupling Constants Introduction 479 Bibliography 479 Absolute bounds on vertices and couplings 480 The coupling constant in a q 4 field theory 491 VII Confinement and Instantons Introduction 497 Bibliography 497 Instantons in a U I lattice gauge theory A coulomb dipole gas 498 Charges vortices and confinement 516 ix VIII Reflection Positivity Introduction 531 Bibliography 531 A note on reflection positivity 532 x Introduction This volume contains a selection of expository articles on quantum field theory and statistical mechanics by

James Glimm and Arthur Jaffe They include a solution of the original interacting quantum field equations and a description of the physics which these equations contain Quantum fields were proposed in the late 1920s as the natural framework which combines quantum theory with relativity They have survived ever since

Modified and Quantum Gravity Christian Pfeifer, Claus Lämmerzahl, 2023-09-30 This book discusses theoretical predictions and their comparison with experiments of extended and modified classical and quantum theories of gravity The goal is to provide a readable access and broad overview over different approaches to the topic to graduate and PhD students as well as to young researchers The book presents both theoretical and experimental insights and is structured in three parts The first addresses the theoretical models beyond special and general relativity such as string theory Poincaré gauge theory and teleparallelism as well as Finsler gravity In turn the second part is focused on the observational effects that these models generate accounting for tests and comparisons which can be made on all possible scales from the universe as a whole via binary systems stars black holes satellite experiments down to laboratory experiments at micrometer and smaller scales The last part of this book is dedicated to quantum systems and gravity showing tests of classical gravity with quantum systems and coupling of quantum matter and gravity

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