

Mathematical Physics Studies

Kasia Rejzner

Perturbative Algebraic Quantum Field Theory

An Introduction for Mathematicians

 Springer

Book Perturbative Algebraic Quantum Field Theory

Michael Dütsch



Book Perturbative Algebraic Quantum Field Theory:

Perturbative Algebraic Quantum Field Theory Kasia Rejzner, 2016-03-16 Perturbative Algebraic Quantum Field Theory pAQFT the subject of this book is a complete and mathematically rigorous treatment of perturbative quantum field theory pQFT that doesn't require the use of divergent quantities and works on a large class of Lorentzian manifolds We discuss in detail the examples of scalar fields gauge theories and the effective quantum gravity pQFT models describe a wide range of physical phenomena and have remarkable agreement with experimental results Despite this success the theory suffers from many conceptual problems pAQFT is a good candidate to solve many if not all of these conceptual problems Chapters 1-3 provide some background in mathematics and physics Chapter 4 concerns classical theory of the scalar field which is subsequently quantized in chapters 5 and 6 Chapter 7 covers gauge theory and chapter 8 discusses effective quantum gravity The book aims to be accessible to researchers and graduate students who are interested in the mathematical foundations of pQFT

Perturbative Algebraic Quantum Field Theory at Finite Temperature Falk Lindner, 2013 **Advances in Algebraic Quantum Field Theory** Romeo Brunetti, Claudio Dappiaggi, Klaus Fredenhagen, Jakob Yngvason, 2015-09-04 This text focuses on the algebraic formulation of quantum field theory from the introductory aspects to the applications to concrete problems of physical interest The book is divided in thematic chapters covering both introductory and more advanced topics These include the algebraic perturbative approach to interacting quantum field theories algebraic quantum field theory on curved spacetimes from its structural aspects to the applications in cosmology and to the role of quantum spacetimes algebraic conformal field theory the Kitaev's quantum double model from the point of view of local quantum physics and constructive aspects in relation to integrable models and deformation techniques The book is addressed to master and graduate students both in mathematics and in physics who are interested in learning the structural aspects and the applications of algebraic quantum field theory

Conformal Symmetry and Chirality in Perturbative Algebraic Quantum Field Theory Samuel James Crawford, 2021 *Advances in Algebraic Quantum Field Theory* Romeo Brunetti, Claudio Dappiaggi, Klaus Fredenhagen, Jakob Yngvason, 2015 This text focuses on the algebraic formulation of quantum field theory from the introductory aspects to the applications to concrete problems of physical interest The book is divided in thematic chapters covering both introductory and more advanced topics These include the algebraic perturbative approach to interacting quantum field theories algebraic quantum field theory on curved spacetimes from its structural aspects to the applications in cosmology and to the role of quantum spacetimes algebraic conformal field theory the Kitaev's quantum double model from the point of view of local quantum physics and constructive aspects in relation to integrable models and deformation techniques The book is addressed to master and graduate students both in mathematics and in physics who are interested in learning the structural aspects and the applications of algebraic quantum field theory

From Classical Field Theory to Perturbative Quantum Field Theory Michael Dütsch, 2019-03-18 This book develops

a novel approach to perturbative quantum field theory starting with a perturbative formulation of classical field theory quantization is achieved by means of deformation quantization of the underlying free theory and by applying the principle that as much of the classical structure as possible should be maintained The resulting formulation of perturbative quantum field theory is a version of the Epstein Glaser renormalization that is conceptually clear mathematically rigorous and pragmatically useful for physicists The connection to traditional formulations of perturbative quantum field theory is also elaborated on and the formalism is illustrated in a wealth of examples and exercises

Advances in Algebraic Quantum Field Theory Romeo Brunetti, Claudio Dappiaggi, Klaus Fredenhagen, Jakob Yngvason, 2015-09-15 This text focuses on the algebraic formulation of quantum field theory from the introductory aspects to the applications to concrete problems of physical interest The book is divided in thematic chapters covering both introductory and more advanced topics These include the algebraic perturbative approach to interacting quantum field theories algebraic quantum field theory on curved spacetimes from its structural aspects to the applications in cosmology and to the role of quantum spacetimes algebraic conformal field theory the Kitaev's quantum double model from the point of view of local quantum physics and constructive aspects in relation to integrable models and deformation techniques The book is addressed to master and graduate students both in mathematics and in physics who are interested in learning the structural aspects and the applications of algebraic quantum field theory

Renormalization and Effective Field Theory Kevin Costello, 2022-04-25 This book tells mathematicians about an amazing subject invented by physicists and it tells physicists how a master mathematician must proceed in order to understand it Physicists who know quantum field theory can learn the powerful methodology of mathematical structure while mathematicians can position themselves to use the magical ideas of quantum field theory in mathematics itself The retelling of the tale mathematically by Kevin Costello is a beautiful tour de force Dennis Sullivan This book is quite a remarkable contribution It should make perturbative quantum field theory accessible to mathematicians There is a lot of insight in the way the author uses the renormalization group and effective field theory to analyze perturbative renormalization this may serve as a springboard to a wider use of those topics hopefully to an eventual nonperturbative understanding Edward Witten Quantum field theory has had a profound influence on mathematics and on geometry in particular However the notorious difficulties of renormalization have made quantum field theory very inaccessible for mathematicians This book provides complete mathematical foundations for the theory of perturbative quantum field theory based on Wilson's ideas of low energy effective field theory and on the Batalin-Vilkovisky formalism As an example a cohomological proof of perturbative renormalizability of Yang-Mills theory is presented An effort has been made to make the book accessible to mathematicians who have had no prior exposure to quantum field theory Graduate students who have taken classes in basic functional analysis and homological algebra should be able to read this book

Higher Currents for the Sine-Gordon Model in Perturbative Algebraic Quantum Field Theory Fabrizio

Zanello,2024 The main results of this thesis are the establishment of the super renormalizability by power counting and of the summability of an infinite number of classically conserved higher currents for the sine Gordon model in the framework of perturbative Algebraic Quantum Field Theory pAQFT In order to achieve this we first consider the classical theory Combining the notion of Birklund transformations with Noether's Theorem we obtain recursive formulas for the components of the higher currents and also characterize them introducing a suitable notion of degree We then move to the pAQFT set

From Classical Field Theory to Perturbative Quantum Field Theory Michael Dütsch,2019 This book develops a novel approach to perturbative quantum field theory starting with a perturbative formulation of classical field theory quantization is achieved by means of deformation quantization of the underlying free theory and by applying the principle that as much of the classical structure as possible should be maintained The resulting formulation of perturbative quantum field theory is a version of the Epstein Glaser renormalization that is conceptually clear mathematically rigorous and pragmatically useful for physicists The connection to traditional formulations of perturbative quantum field theory is also elaborated on and the formalism is illustrated in a wealth of examples and exercises [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**

Mathematical Physics Felix Finster,Johannes Kleiner,Christian Röken,Jürgen Tolksdorf,2016-02-24 Quantum physics has

been highly successful for more than 90 years Nevertheless a rigorous construction of interacting quantum field theory is still missing Moreover it is still unclear how to combine quantum physics and general relativity in a unified physical theory Attacking these challenging problems of contemporary physics requires highly advanced mathematical methods as well as radically new physical concepts This book presents different physical ideas and mathematical approaches in this direction It contains a carefully selected cross section of lectures which took place in autumn 2014 at the sixth conference Quantum Mathematical Physics A Bridge between Mathematics and Physics in Regensburg Germany In the tradition of the other proceedings covering this series of conferences a special feature of this book is the exposition of a wide variety of approaches with the intention to facilitate a comparison The book is mainly addressed to mathematicians and physicists who are interested in fundamental questions of mathematical physics It allows the reader to obtain a broad and up to date overview of a fascinating active research area

Graphs in Perturbation Theory Michael Borinsky, 2018-11-04 This book is the first systematic study of graphical enumeration and the asymptotic algebraic structures in perturbative quantum field theory Starting with an exposition of the Hopf algebra structure of generic graphs it reviews and summarizes the existing literature It then applies this Hopf algebraic structure to the combinatorics of graphical enumeration for the first time and introduces a novel method of asymptotic analysis to answer asymptotic questions This major breakthrough has combinatorial applications far beyond the analysis of graphical enumeration The book also provides detailed examples for the asymptotics of renormalizable quantum field theories which underlie the Standard Model of particle physics A deeper analysis of such renormalizable field theories reveals their algebraic lattice structure The pedagogical presentation allows readers to apply these new methods to other problems making this thesis a future classic for the study of asymptotic problems in quantum fields network theory and far beyond

Mathematical Aspects of Quantum Field Theories Damien Calaque, Thomas Strobl, 2015-01-06 Despite its long history and stunning experimental successes the mathematical foundation of perturbative quantum field theory is still a subject of ongoing research This book aims at presenting some of the most recent advances in the field and at reflecting the diversity of approaches and tools invented and currently employed Both leading experts and comparative newcomers to the field present their latest findings helping readers to gain a better understanding of not only quantum but also classical field theories Though the book offers a valuable resource for mathematicians and physicists alike the focus is more on mathematical developments This volume consists of four parts The first Part covers local aspects of perturbative quantum field theory with an emphasis on the axiomatization of the algebra behind the operator product expansion The second Part highlights Chern Simons gauge theories while the third examines semi classical field theories In closing Part 4 addresses factorization homology and factorization algebras

Introduction to Algebraic Quantum Field Theory S.S. Horuzhy, 1990-06-30 Et moi si j'avait su comment en revenir One service mathematics has rendered the human race It has put common sense back je n'y serais point aile Jules Verne where it belongs on the topmost shelf next to the

dusty canister labelled discarded non The series is divergent therefore we may be sense Eric T Bell able to do something with it o Heaviside Mathematics is a tool for thought A highly necessary tool in a world where both feedback and non linearities abound Similarly all kinds of parts of mathematics serve as tools for other parts and for other sciences Applying a simple rewriting rule to the quote on the right above one finds such statements as One service topology has rendered mathematical physics One service logic has rendered computer science One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the *raison d'être* of this series [Introduction to Algebraic Quantum Field Theory](#) S. S. Horuzhy,1990-06-30

Algebraic Renormalization Olivier Piguet,Silvio P. Sorella,2014-03-12 The idea of this book originated from two series of lectures given by us at the Physics Department of the Catholic University of Petr6polis in Brazil Its aim is to present an introduction to the algebraic method in the perturbative renormalization of relativistic quantum field theory Although this approach goes back to the pioneering works of Symanzik in the early 1970s and was systematized by Becchi Rouet and Stora as early as 1972 1974 its full value has not yet been widely appreciated by the practitioners of quantum field theory Becchi Rouet and Stora have however shown it to be a powerful tool for proving the renormalizability of theories with broken symmetries and of gauge theories We have thus found it pertinent to collect in a self contained manner the available information on algebraic renormalization which was previously scattered in many original papers and in a few older review articles Although we have taken care to adapt the level of this book to that of a postgraduate Ph D course more advanced researchers will also certainly find it useful The deeper knowledge of renormalization theory we hope readers will acquire should help them to face the difficult problems of quantum field theory It should also be very helpful to the more phenomenology oriented readers who want to familiarize themselves with the formalism of renormalization theory a necessity in view of the sophisticated perturbative calculations currently being done in particular in the standard model of particle interactions **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

Lectures on Algebraic Quantum Field Theory and Operator Algebras Bert Schroer,2001

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