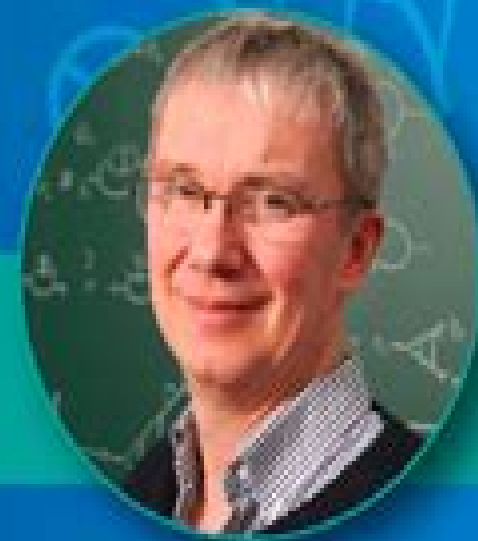# Algebraic Structures in Perturbative Quantum Field Theory

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Perturbative Algebraic Quantum Field Theory

James Read,Nicholas J. Teh

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 Lorenzian 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 **Cosmological Applications of Algebraic Quantum Field Theory in Curved Spacetimes** Thomas-Paul

Hack,2015-08-17 This book provides a largely self contained and broadly accessible exposition on two cosmological applications of algebraic quantum field theory QFT in curved spacetime a fundamental analysis of the cosmological evolution according to the Standard Model of Cosmology and a fundamental study of the perturbations in inflation The two central sections of the book dealing with these applications are preceded by sections providing a pedagogical introduction to the subject Introductory material on the construction of linear QFTs on general curved spacetimes with and without gauge symmetry in the algebraic approach physically meaningful quantum states on general curved spacetimes and the backreaction of quantum fields in curved spacetimes via the semiclassical Einstein equation is also given The reader should have a basic understanding of General Relativity and QFT on Minkowski spacetime but no background in QFT on curved spacetimes or the algebraic approach to QFT is required **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 **Algebraic Quantum Field Theory, Perturbation Theory, and the Loop Expansion** Michael Dütsch,Klaus Fredenhagen,2000 *The Philosophy and Physics of Noether's Theorems* James Read,Nicholas J. Teh,2022-09-29 A centenary volume that celebrates extends and applies Noether s 1918 theorems with contributions from world leading researchers **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 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 **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 B cklund 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 **Algebraic Renormalization** Olivier Piguet,Silvio P. Sorella,2008-09-11 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 po graduate 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 famili ize 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 **Lectures on Algebraic Quantum Field Theory and Operator Algebras** Bert Schroer,2001 **Introduction to Algebraic Quantum Field Theory** S.S. Horuzhy,2012-12-06 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 shel f 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 com puter science One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the raison d etre of this series *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 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 **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   *Perturbative Computation in a Generalized Quantum Field Theory* V. B. Bezerra,2002   Microlocal Methods in Quantum Field Theory Arne Hofmann,2024 The renormalisation of Feynman diagrams is considered in the context of perturbative algebraic quantum field theory The construction of Wick polynomials is related to the renormalisation of diagrams with short loops tadpoles Microlocal techniques are used to prove a smoothness condition for these renormalised diagrams The renormalisation of diagrams without tadpoles is treated from the perspective of causal perturbation theory A locally covariant construction of renormalisation maps is given for Feynman diagrams with edges labelled by conormal distributions

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